City of Muscatine

CITY COUNCIL

Tuesday, April 7, 2026

Brad Bark, Mayor

Don Lampe, 1st Ward
Jeff Osborne, 2nd Ward
Peggy Gordon, 3rd Ward
Nadine Brockert, 4th Ward
John Jindrich, 5th Ward
Angie Lewis, At Large
Matt Conard, At Large
Matt Mardesen, City Administrator
Cinda Hilger, City Clerk
Brent Hinders, City Attorney

City Council meetings are held at 5:30 p.m. on the 1st and 3rd Tuesday of each month. In-depth sessions will be held as needed at 5:30 p.m. on the 2nd Tuesday of each month. All meetings are available for review on the City of Muscatine YouTube page.

April 7, 2026,5:30 PM

AGENDA

1. **CALL TO ORDER**
2. **INVOCATION-Pam Saturnia, First Presbyterian Church**
3. **ROLL CALL**
4. **PLEDGE OF ALLEGIANCE**
5. **FROM THE MAYOR**

A. Arbor Day Proclamation

B. Recognition of "What Home Means to Me" Poster Contest winner

6. APPROVAL OF AGENDA AS PRESENTED AND/OR AS AMENDED

7. COMMUNICATIONS - CITIZENS

A. Nuisance Abatement Hearing - 201 E. 2nd Street

8. COUNCILMEMBER FOLLOW UP TO CITIZEN COMMUNICATION

9. CONSENT AGENDA * (ITEMS 10-14)

The following items are considered to be routine by the City Council and will be enacted by one motion. There will be no separate discussion of these items unless a Council Member so requests, in which event the item will be removed from the Consent Agenda and considered separately.

10. * REVIEW AND POTENTIAL VOTE TO APPROVE MINUTES

A. March 31, 2026 Special Meeting Minutes

11. * PETITIONS AND COMMUNICATIONS

A. Request to Approve Application for Revitalization Property Tax Abatement - 602 Aspen Trail

B. Alcohol License:
Request on first and second reading on a new Special Class "C" retail Alcohol License for Acapulco Muscatine Store - 2007 Grandview Avenue - Acapulco Inc - (pending insurance and inspections)
Request on first and second reading on a new class "C" Retail Alcohol License (LG) for Geneva Golf and Country Club, 3100 Bidwell Rd, LLC - Kent-Geneva Holdco, LLC

12. * COMMUNICATION – RECEIVE AND FILE

A. Memorandum of Understanding between the Iowa Department of Transportation and the City of Muscatine for weekly file transfers containing vehicle owner names, mailing address, vehicle year, model and VIN for parking related citations.

B. January 20, 2026 Muscatine Art Center Board of Trustees Meeting Minutes

C. February 17, 2026 Muscatine Art Center Board of Trustees Minutes

D. January 26, 2026 Airport Advisory Meeting Minutes

E. February 23, 2026 Airport Advisory Meeting Minutes

F. March 12, 2026 Civil Service Commission Minutes

G. March 16, 2026 Muscatine County Board of Supervisors meeting minutes

H. February 18, 2026 Library Board of Trustees Minutes

I. March 23, 2026 Muscatine County Board of Supervisors Meeting Minutes

J. February 24, 2026 Board of Water, Electric and Communication Trustees Meeting Minutes/Financials

13. * PURCHASE ORDERS AND AGREEMENTS

A. Request to approve the issuance of a purchase order to D.J. Gongol & Associates, in the amount of $8,596.79, for the purchase of a Leachate Pump for the landfill

14. * APPROVAL OF BILLS

It is recommended bills totaling $2,248,854.02, be approved and that the City Council authorize the Mayor and City Clerk to issue warrants for the same. It should be noted that this listing is subject to the approval of any related agenda item(s).

A. April 7, 2026 Bills for Approval

15. PUBLIC HEARING

A. Public hearing on amendments to Chapter 5 of Title 3 and Chapter 4 of Title 7 of City Code Establishing Regulations for the Use of Electric Bikes and other similar devices

B. Public hearing on proposed zoning changes, City of Muscatine, Iowa (2021 Houser St., northeast corner of Houser St. & Cedar Plaza Drive intersection)

C. Public hearing regarding a voluntary annexation application and zoning request for approximately 153.5 acres of land located near the southwest corner of Mittman Road and the U.S. 61 Bypass, to be designated as an M-2 General Industrial Zoning District

D. Public hearing on the City of Muscatine Transit (Muscabus) Annual Application for State and Federal Transit Funds Through the Consolidated Funding Application.

E. Public hearing to review the plans and specifications for the City Parking Lot #7 Pavement Restoration Project.

F. Public hearing to review the plans and specifications for the West Hill Sewer Separation Phase 6E

16. FROM THE CITY ADMINISTRATOR

A. First Reading of an Ordinance amending Chapter 5, Title 3; and Chapters 1 and 14, Title 7 of the City Code to establish regulations for the use of electric bikes and other electric mobility devices - Public Hearing A

B. First reading of an ordinance amending the zoning ordinance of the City of Muscatine, Iowa (2021 Houser St., northeast corner of Houser St. & Cedar Plaza Dr. intersection) Public Hearing B

C. First reading of an ordinance amending the zoning ordinance of the City of Muscatine, Iowa (approximately 153.5 acres of land located near the southwest corner of Mittman Road and the U.S. 61 bypass, to be designated as an M-2 general industrial zoning district upon completion of annexation) Public Hearing C

D. Resolution to approve Federal and State Transit 2027 Consolidated Funding Application.

E. Resolution to approve the plans and specifications for the City Parking Lot #7 Pavement Restoration Project. Public Hearing E.

F. Resolution to approve the plans and specifications for the West Hill Sewer Separation Phase 6E Project. Public Hearing F.

G. Resolution vacating and deeding over to the adjoining property owner the undeveloped right of way located at 301 West 11th Street

H. Resolution setting a public hearing for April 21, 2026 at 5:30 P.M. for the consideration of the transfer of real estate located at 910 E. 2nd Street, Muscatine Iowa.

I. Resolution Setting a Public Hearing for April 21, 2026, on the Proposed Amendment #1 to the City Budget for Fiscal Year 2025/2026.

J. Resolution Setting a Public Hearing for April 21, 2026 on the Proposed City Budget for Fiscal Year 2026/2027 (Public Hearing #2)

K. Request to apply for Bureau of Justice Assistance FY25 Edward Byrne Memorial Justice Assistance Grant (JAG) for an award amount of $10,294.00.

L. Request to approve the issuance of a purchase order to Crawford Company in the amount of $245,852.00 for the replacement of the large rooftop heating and cooling unit at the Musser Public Library

M. Request to approve change order number one to the taxi lane construction project at the Muscatine municipal airport

N. Request to approve the issuance of a purchase order to Greiner Buildings in the amount of $129,298.75 for the construction of a storage building for the Building & Grounds Division of Public Works.

O. Request to approve a contract with North Construction, not to exceed $24,999.00, for improvements at 714 Mulberry Avenue as part of Ignite Vitality: Mulberry Project

P. Request to approve a contract with North Construction, not to exceed $24,999.00, for improvements at 715 Mulberry Avenue as part of Ignite Vitality: Mulberry Project

Q. Request to approve change order number 2 for the Muscatine CDF Relocation Project to Heuer Construction, Inc. for the amount of $32,313.00

R. Request to approve change order number 4 to the West Hill Sewer Separation Project Phase 6C for the amount of $16,851.00

17. STAFF, COUNCIL AND MAYOR REPORTS

18. ADJOURNMENT

P R O C L A M A T I O N

ARBOR DAY

WHEREAS, in 1872, J. Sterling Morton proposed to the Nebraska Board of Agriculture that a special day be set aside for the planting of trees; and

WHEREAS, this holiday, called Arbor Day, was first observed with the planting of more than a million trees in Nebraska, and Arbor Day is now observed throughout the nation and the world; and

WHEREAS, trees reduce the erosion of our precious topsoil by wind and water, cut heating and cooling costs, moderate the temperature, clean the air, produce oxygen and provide habitat for wildlife; and

WHEREAS, trees are a renewable resource giving us paper, wood for our homes, fuel for our fires and countless other wood products; and

WHEREAS, trees in our city increase property values, enhance the economic vitality of business areas and beautify our community; and

WHEREAS, trees, wherever they are planted, are a source of joy and spiritual renewal; and

WHEREAS, Muscatine has been recognized as a Tree City USA by The National Arbor Day Foundation and desires to continue its tree-planting practices;

NOW, THEREFORE, I, Dr. Brad Bark, Mayor of the City of Muscatine, Iowa, do hereby proclaim April 24, 2026 as Arbor Day in the City of Muscatine, and I urge all citizens to celebrate Arbor Day and to support efforts to protect our trees and woodlands and further, I urge all citizens to plant trees to gladden the heart and promote the well-being of this and future generations.

Signed and sealed this 7th day of April, 2026.

Dr. Brad Bark, Mayor

City of Muscatine, City Council Meeting, Tuesday, March 31, 2026 – City Hall Council Chambers

Mayor Bark called the City Council meeting for March 31, 2026, to order at 05:30 PM.
Councilmembers Present: Brockert, Jindrich, Osborne, Gordon, Lewis, Lampe, Conard.

Councilmember Conard, seconded by Councilmember Gordon, moved to approve the Consent Agenda including City Council Minutes (Feb 26, March 3,10 and 17) Liquor License (Geneva Golf and Country Club, The Pearl Martini Bar & Lounge, The Crown Liquor & Smoke and Hone Kong Buffet) Ayes - 7 , Nays - 0, Motion Passed.

Discussion Items:
Councilmember Brockert made a statement regarding the budget and how the process has been very difficult for staff and council this year. Ms. Brockert stated that in regards to the Art Center funding, the City staff and Art Center Board need to get together and figure out ways to get the funding from other sources.

Budget Reconsideration for MCSA -
Jason Dornbush was present to request the City continue to fund the MCSA with $30,000. Mr. Dornbush spoke regarding what the homeless prevention program does and how much it impacts our community.
Councilmember Gordon recommended suspending the City Council Payroll for 2025-2026 to support MCSA and stated she would like to bring it back at a future meeting.
There was a consensus from City Council to move forward with funding the MCSA with $30,000.

Budget Reconsideration for Muscatine Art Center:
Mayor Brad Bark shared information regarding the budget process and funding of departments. Mr. Bark stated there have been multiple meetings with the Art Center Board to discuss funding. Mr. Bark stated there is no plan to shut down the Art Center, and that every intention is to work together to make a plan to move forward to figure out a way to keep the Art Center open and funded.

The following residents were present to speak in support of the Muscatine Art Center:
Melanie Alexander, Annette Hoveland, Ed Chamberlin, Frank Kelly, Jay Brady, Kathy Hartman, Angela Woodhouse, Karen Cooney, Lori Carrol, Mark Post, John Dabeet, Bob Jensen, Mark Latta, Kristine Conlon, Carol Anthony, Kelly Rushford, Tony Ledtje, KimThompson, Yesenia Cruz, Max Collins, Steven Paulsrud, Mary Alice Sessler, David Meloy, Anny McCarthy, Dan Salzar, Keith Porter, Brianna Rivers.

Councilmember Conard spoke regarding the importance of the Art Center to the community and how the discussions have been going on for several years on how to make the Art Center an Enterprise Fund. He stated there is no plan to close the Art Center or sell any of the artifacts. Mr. Conard stated the reason for this to be addressed at this time is due to the resignation of the current Art Center Director. Mr. Conard stated the Art Center has funds held in trust but have not disclosed to staff or council the amounts or circumstances around those funds and if there is a way to use those funds to temporarily help Bridge the gap for funding.

Councilmember Gordon stated she feels the same percent should be cut from each department across the board for the budget. Ms. Gordon stated the City needs to adopt lien practices.

Councilmember Osborne stated he has had residents contact him regarding not closing the Art Center. Mr. Osborne stated that in the past years other departments have had cuts and this is the first time for the Art Center in years.

Councilmember Lewis stated she grew up in Muscatine and does not want the Art Center to close but also understands the reasons for the cuts and agrees that there needs to be other means of funding the Art Center not from the City General Fund.

Councilmember Lampe stated conversations have been going on for years regarding the Art Center funding and that it should not come as a surprise to anyone. Mr. Lampe stated staff and council are helping to find other ways of funding the Art Center and would like to see it become even bigger and better than it is now.

Councilmember Brockert stated the City cannot keep doing what it is doing now and changes need to be made. She stated all need to work together to find the solution.

Councilmember Jindrich stated all groups need to continue to work together to figure out sources of funding.

City Administrator Mardesen shared a timeline of events regarding the Art Center Funding starting with the resignation of the director. Mr. Mardesen shared information regarding the budget this year and that it will be even worse next year. Mr. Mardesen stated the goal is not to take this money from the Art Center but to hold it back to use over the next 2 years to keep the Art Center open while other options are discussed and worked out.

There was a consensus from City Council to move forward removing the $200,000.00 funding for the Art Center from the budget.

Presentation on Muscatine Housing Department
Jodi Royal Goodwin - Community Development Director and Melissa Rinnert Housing Supervisor gave a presentation on the History, Structure, Operations and Funding for the Muscatine Housing Department. Questions by City Council were addressed by both staff members.

Councilmember Lampe moved the meeting be adjourned at 08:26 PM.

_____
Cinda Hilger, City Clerk

_____
Brad Bark, Mayor

8086-0077

Application for Revitalization Property Tax Abatement

MUSCATINE

Property Information

Address: 602 Aspen Trail, Muscatine, IA 52761

Parcel Number: 0822377019

To be completed by City Staff Revitalization Area Name: Aspen Villas

In Historic District? Yes ☐ No ☒

Are you requesting Historic District Tax Abatement? Yes ☐ No ☒ If yes, please attach a letter of support from the Historic Preservation Commission

Property Owner

Owner: Michael S. Shield Trustee

Address: 602 Aspen Trail
Muscatine, IA 52761

Phone: 563-607-2574

Email: Whirlwind9@machlink.com

Project Information

Description of Improvements: New Construction Condo

Cost of Improvements: $307,220

Estimated or Actual Date of Improvements:

Name & Addresses of Tenants Who May be Relocated:

Signature

The undersigned swears that the information presented on this application and any accompanying documents is true, correct, and complete to the best of their knowledge.

Signature of Applicant: [signature]

Date: 2/15/26

City Council Approval

In accordance with Section 404.3 of the Code of Iowa the City Council shall approve all applications submitted for completed projects if:

- The project, as determined by the City Council, is in conformance with this plan;
- The project is located within the Revitalization Area; and,
- The improvements were made during the time the Revitalization Area was designated by ordinance as a revitalization area.

On March 3-2026, The City Council **approved** this application, finding that mees the criteria set forth in Section 404.3 of the Code of Iowa and all applicable City Ordinances.

[signature] City Clerk

County Assessor Action on Approved Applications

All approved applications shall be forwarded to the County Assessor for review, pursuant to Section 404.5 of the Code of Iowa. The County Assessor shall make a physical review of all properties with approved applications. **The County Assessor shall determine the increase in actual value for tax purposes due to the improvements and notify the applicant of the determination**, which may be appealed to the local board of review pursuant to Section 441.37 of the Code of Iowa. After the initial tax exemption is granted, the County Assessor shall continue to grant the tax exemption for the time period specified on the approved application. The tax exemptions for the succeeding years shall be granted without the owner(s) having to file an application for succeeding years.

Blighted - Residential UZMB

MEMORANDUM OF UNDERSTANDING

MOU 2026-Muscatine

BETWEEN THE IOWA DEPARTMENT OF TRANSPORTATION, MOTOR VEHICLE DIVISION

AND THE

CITY OF MUSCATINE

PARTIES: THIS AGREEMENT is made and entered into on the date of signing between the Iowa Department of Transportation, Motor Vehicle Division (Provider), and the City of Muscatine (Recipient).

PURPOSE: The purpose of this Agreement is to allow the Recipient to receive a secure weekly file transfer from the Provider containing vehicle owner name, mailing address, vehicle year, make model and VIN, as set forth in Schedule A attached hereto, in order to carry out the official functions of a federal, state, or local government agency; specifically in order to issue, verify and process parking-related citations. Recipient agrees to use this information subject to and in accordance with the limitations of all applicable state and Federal law, including Iowa Code §321.11 and the Driver's Privacy Protection Act of 1994, 18 U.S.C §§2721-25 (DPPA).

DATA TO BE PROVIDED: Information from Iowa vehicle and owner records as designated by the fields listed on Schedule A of this Agreement.

METHOD OF DATA ACQUISITION: Recipient will obtain the vehicle and owner record information from Provider by means of a secure, encrypted file transfer process on a weekly basis. Recipient agrees to take all necessary and reasonable measures to ensure the integrity and security of this process in accordance with industry standards and all applicable state and Federal law, as discussed in **Protection of Data.**

AGREEMENT ADMINISTRATORS: Kathleen Meradith-Eyers, Director, Motor Vehicle Division, is the Authorized IDOT Official for this Agreement. The Authorized IDOT Official must approve any changes in the terms or conditions of this Agreement. Negotiations concerning this Agreement should be directed to Abbie Lampman, Privacy Officer, at 515-or abbie.lampman@iowadot.us or Ryan Ridout, Bureau Director, at or ryan.ridout@iowadot.us

The Recipient has designated John Kreuzenstein, Information Technology Manager,

jkreuzenstein@muscatineiowa.gov, (563) 264-1550 x130, to act as Agreement Coordinator, responsible for all administrative matters of this Agreement or Matt Mardesen, City Administrator, mmardesen@muscatineiowa.gov, (563) 264-1550, to act as the secondary contact responsible for administrative matters of this Agreement.

DURATION: Subject to the provisions discussed below in **Modification and Termination,** this Agreement shall remain in effect for two (2) years from the effective date or until modified or terminated as provided in this Agreement, whichever occurs first.

LIMITATIONS ON USE: Recipient agrees to use the vehicle and owner record information for the sole purpose of parking-related citations and subject to and in accordance with the limitations of all applicable state and Federal laws, including the DPPA, 18 U.S.C. §§2721-25, and Iowa Code §321.11.

PROTECTION OF DATA: Recipient agrees to employ any and all security measures as are necessary to protect against illegal or unauthorized access to any data and/or information that Recipient (including its agents and employees) comes to possess as a result of this Agreement. Recipient agrees not to sell, assign, transfer or otherwise disclose the vehicle and owner record information or any part, unless disclosure is legally mandated by applicable state or federal law, court order, subpoena, search warrant or other legal process. Transfer means dissemination by written, audio or electronic means. Recipient agrees and acknowledges that the duties set forth herein are ongoing for the life of the data and do not lapse or cease in the event the Agreement is terminated or otherwise modified.

AUDIT REQUIREMENT: The Provider reserves the right to require a formal audit of the Recipient relevant to the practices and/or uses of the data distributed by Provider under the terms of this MOU. The Recipient and its third-party contractors who access the data on behalf of the Recipient will be subject to the audit terms. IT security practices will also be subjected to the audit. Recipient will retain a mutually acceptable independent third-party auditor (hereinafter "Auditor") and shall have said auditor provide a copy of the audit report to Provider upon completion of the Audit. The specific practices and/or uses of the data subject to the Audit will be determined by Provider and the Audit shall be completed and a final report provided prior to renewal of this MOU. The Audit shall be at the expense of Recipient.

REQUIREMENT OF THIRD-PARTY CONTRACT: The sharing or redisclosure of data provided under this contract is strictly prohibited. The Recipient must obtain prior written approval from the Provider before entering into any third-party contract involving the data. All such third-party contracts shall require the third party to comply with the DPPA and Iowa Code §321.11 regarding the use and redisclosure of any data received. Any change in third party contractor shall also require Provider approval. If the Recipient terminates its contractual relationship with any Provider approved third parties or enters

into a new agreement with another contractor to perform similar services, the Recipient must immediately notify the Provider. The Provider reserves the right to request further information about any replacement third party contractor as deemed necessary. Upon Provider approval of a replacement contractor, an updated Agreement or Addendum will be required to continue data receipt. The Recipient agrees to provide the Provider with copies of signed contracts upon request.

RECORD KEEPING: In compliance with the DPPA, Recipient agrees to keep a record for five (5) years of all persons to whom the vehicle and owner record information obtained under this Agreement is redisclosed in accordance with the preceding paragraph, and consistent with all statutory limitations found therein, which shall include the purpose for which the information is to be used by any such third party. Recipient assumes full responsibility for assuring record maintenance and protection, including determining the methods used for record keeping and the sufficiency of such methods under all applicable state and Federal law. Recipient agrees to make such records available to the Provider upon request.

NOTIFICATION AND COOPERATION: In the event of any breach of law or security involving personal information, including breach by any third party, Recipient agrees it will immediately notify Provider upon discovery and will fully cooperate with Provider to investigate the issue(s) and take all corrective action required by Provider.

CHOICE OF LAW: The parties acknowledge and agree that this Agreement is to be governed by and construed under the law of the State of Iowa without regard to its conflicts of law provisions. The parties further acknowledge and agree that all disputes shall be resolved exclusively in the Iowa District Court for Story County or United States Federal Court in the Southern District of Iowa.

DISCLAIMER OF LIABILITY: With respect to information available from Provider, Recipient accepts and acknowledges that neither the Iowa Department of Transportation nor any of its employees, agents, officers, or assignees makes any warranty, express or implied, including the warranties of merchantability and fitness for a particular purpose, as to the vehicle and owner record information, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any data or information.

MODIFICATION AND TERMINATION: Other than modification or termination by operation of law, this Agreement may be modified by the mutual assent of both parties only. This Agreement may be terminated by either party at will with a thirty (30) day written notice, except in the case of Recipient's misuse or misappropriation of any data and/or information obtained under this Agreement, including, but not limited to, breach of security or illegal or unauthorized access, or any other use of information prohibited by law, in which case Provider reserves the right to immediately terminate this Agreement.

ENTIRE AGREEMENT: It is understood and agreed that this Agreement constitutes the complete and exclusive statement of the Provider and Recipient relative to the subject matter hereof and supersedes all previous oral and written proposals, negotiations, representations or understandings concerning such subject matter.

NO THIRD PARTY RIGHTS: This Agreement shall be binding upon and insure to the benefit of the Provider, the Recipient and their respective successors and approved assigns. Neither this Agreement nor any of its terms creates or is intended to create any rights or interests in any third party.

This **AGREEMENT** is effective on the date of execution of the last signatory hereto.

BY: Kathleen Meradith-Eyers

Kathleen Meradith-Eyers, Director
Motor Vehicle Division
Iowa Department of Transportation

City of Muscatine

DATE: 03/17/2026

DATE: March 17, 2026

Schedule A to MOU 2026-Muscatine

Between the Iowa Department of Transportation

and

The City of Muscatine

Record Information to be Provided to Recipient
(Weekly Batch Plate File)

1. Plate Number, Plate Type and VIN
2. Owner 1, 2, and 3 Name
3. Owner 1 Mailing Address
4. Lessee Name and Mailing Address
5. Primary User Name
6. Primary User Mailing Address
7. Managing County and Renewal Month
8. Make, Model, Year
9. Owner 1 Residency Address

REGULAR MEETING OF THE BOARD OF TRUSTEES
MUSCATINE ART CENTER
January 20, 2026

Present: Mark Post, Diana Tank, Kathleen Haltmeyer, Rebecca Schmertman by phone, Mark Seaman, David Meloy, Vince Lawson, and Laurie Johnson by phone.

Absent: Mark Butterworth

Staff: Lynn Bartenhagen

Call to Order: The meeting was called to order by Seaman at 12:00 PM.

Minutes: Minutes of the December 16, 2025, Regular Meeting of the Board of Trustees were reviewed and discussed. Moved/seconded (Post/Haltmeyer) to approve the minutes as amended. Motion carried.

Bills for Approval: Bills in the amount of $8,068.36 were presented, reviewed, and discussed. Moved/seconded (Haltmeyer/Tank) to approve the bills as presented. Motion carried.

Credit Card for Approval: Credit card bills in the amount of $48.73 were presented, reviewed, and discussed. Moved/seconded (Lawson/Meloy) to approve the bills as presented. Motion carried.

Credit Card for Approval: Credit card bills in the amount of $50.57 were presented, reviewed, and discussed. Moved/seconded (Lawson/Meloy) to approve the bills as presented. Motion carried.

Credit Card for Approval: Credit card bills in the amount of $990.40 were presented, reviewed, and discussed. Moved/seconded (Lawson/Meloy) to approve the bills as presented. Motion carried.

COMMITTEE REPORTS

Long-Range Planning:

Seaman met with the City Administrator and they talked about several long-range items.

Finance & Budget:

Budget materials were submitted to City Hall on December 29th. Alexander met with the City Administrator to discuss the Art Center's budget on January 7th and plans to attend the budget presentation on January 31st while out on medical leave.

A grant to Muscatine Charities via the Community Foundation of Greater Muscatine was submitted to help fund the summer theater camp for kids program. An Arts Dollars grant to Quad City Arts will be submitted in January with a focus on youth programming.

The Muscatine Art Center is a beneficiary of the William Runyon estate.

Lindsay McCullough, Senior MCR and Foundation Specialist at HNI Corporation, will replace Kevin Skarich on the Muscatine Art Center Support Foundation. The Support Foundation will meet February 18.

Collections:

There is still work going on with the Collection Management Project with the servers.

Building & Grounds:

No report

Community Engagement:

Organized by the Muscatine County Arts Council, this year's Eagles & Ivories series will take place over the week of January 12th. The concerts at the Muscatine Art Center are both held on Saturday, January 17th with the silent film version at Noon followed by a 2:00 p.m. concert.

"Just Crushing: A Demolition Derby" display created by University of Iowa students is on view from January 8th through March 8th. There was a reception on January 10th and a workshop for kids on February 21st.

Three special programs have been organized before the close of the Midwest Icons exhibition. Sponsored by the Humanities Iowa Speakers Bureau, Tom Milligan will present a one-man show on Grant Wood on February 7th. Carol Anthony will lead a guided discussion in the exhibition space on February 15th. Author Sandra Lee Hudson will give a presentation on Grant Wood and Hollywood on February 22nd

The "Midwest Icons" exhibition closes on February 22nd, and the Civil War opens on March 19th. The hologram of Civil War soldier Daniel Parvin will be installed on the second floor of the Stanley Gallery.

Personnel:

Alexander is out on medical leave beginning January 14th, and her return work day is tentatively February 4.

Director's Report: In Packet

Unfinished Business:

New Business:

Next Board meeting – February 17, 2026 at 12:00 P.M.

Adjourn:

Moved/seconded by (Haltmeyer/Meloy) to adjourn. The motion carried and the meeting adjourned.

Respectfully submitted,

Vince Lawson
Secretary
Muscatine Art Center Board of Trustees

REGULAR MEETING OF THE BOARD OF TRUSTEES
MUSCATINE ART CENTER
February 17, 2026

Present: Mark Post, Diana Tank, Kathleen Haltmeyer, Rebecca Schmertman, Mark Seaman, David Meloy, Vince Lawson, and Mark Butterworth.

Absent: Laurie Johnson.

Staff: Melanie Alexander

Call to Order: The meeting was called to order by Seaman at 12:00 PM.

Minutes: Minutes of the January 20, 2026, Regular Meeting of the Board of Trustees were reviewed and discussed. Moved/seconded (Haltmeyer/Butterworth) to approve the minutes as amended. Motion carried.

Bills for Approval: Bills in the amount of $2,577.51 were presented, reviewed, and discussed. Moved/seconded (Lawson/Tank) to approve the bills as presented. Motion carried.

Credit Card for Approval: None

COMMITTEE REPORTS

Long-Range Planning:

No Report

Finance & Budget:

Alexander gave a short report to the City Council for budget. Mark Butterworth also added a few words.

An Arts Dollars grant to Quad City Arts was submitted at the end of January, with a focus on youth programming.

The Muscatine Art Center received a check from the William Runyon estate.

The Support Foundation will meet February 18, at noon at the Art Center to review the budget to actual financials from 2025 and the proposed budget for 2026. A board financial overview session was proposed for April.

Collections:

Some collections are now viewable at muscatineartcenter.org. More work needs to be done to better integrate the online collections portal with the website.

Building & Grounds:

There was discussion on rentals and rental fees for the Muscatine Art Center facilities.

Community Engagement:

The Muscatine County Arts Council had an increase in responses to the call for artists for the Art Array exhibition. This is the first year that work will be declined due to the lack of space. The exhibition will be on view from March

19th through May 31st with the reception on March 19thstarting at 5:00 p.m. Awards for first, second, and third will be announced.

The installation of the Muscatine and the Civil War exhibition is a large undertaking. The gallery will be in transition for several weeks to set up the Civil War show. Public programming connected to the Civil War will begin in April. Staff is also working on school fieldtrip activities.

Personnel:

Director's Report: In Packet

Unfinished Business:

New Business:

Next Board meeting – March 17, 2026 at 12:00 P.M.

Adjourn:

Moved/seconded by (Butterworth/Haltmeyer) to adjourn. The motion carried and the meeting adjourned.

Respectfully submitted,

Vince Lawson
Secretary
Muscatine Art Center Board of Trustees

AIRPORT ADVISORY COMMISSION
January 26, 2026

Minutes

1. **Call to Order/Roll Call**
   - Members Present:, Mohammad Pasha, Kent Jurgersen ***NO QUORUM***
   - Member Absent: Don Lampe, Derek Reed, Andrea Kreitner
   - Staff Present: Brian Stineman
   - Others Present: Carl Byers (Bolton & Menk) (phone), Mike Woerly (Revv Aviation), Kitty Woerly (Revv Aviation), Phillip Wolford, Matt Wolford, Mike Niehaus (Jet Air)

2. **Approval of Minutes**
   No action due to lack of quorum

3. **Project Updates**
   - **Fuel System:** Closed out.
   - **Lighting:** On hold until spring
   - **SRE:** Received tractor and blower, broom was damaged and a new one is being shipped.
   - **Hangar Taxilane:** Concrete work is done, will be some finish work in the spring
   - **Tree Removal:** Trees near runway have been dropped. They will be piled and burned this winter. Trees in fence line have been cut. Still need chipped and stumps treated.

4. **Other Business**
   - Revv Aviation is transferring FBO lease to Jet Air. Brian will process lease change through attorneys and city council. Change-over hoped to be completed by March 1, 2026.

5. **Public Comments**
   - Introductions by Jet Air ownership

6. **Adjourn**
   Meeting adjourned at approximately 5:30 PM

Next Meeting: February 23, 2026

AIRPORT ADVISORY COMMISSION
February 23, 2026

Minutes

1. **Call to Order/Roll Call**
   - Members Present:, Mohammad Pasha, Kent Jurgersen, Don Lampe, Derek Reed (phone) , Andrea Kreitner
   - Member Absent: N/A
   - Staff Present: Brian Stineman
   - Others Present: Joe Roenfeldt (Bolton & Menk), Mike Woerly (Revv Aviation), Kitty Woerly (Revv Aviation), Matt Wolford, Steven Bradford

2. **Approval of Minutes**
   Motion by Jurgersen, second by Lampe to approve the September 22, 2025 Minutes. Motion approved by unanimous vote.

3. **Project Updates**
   - **Fuel System:** Closed out, will be removed from agenda
   - **Lighting:** PAPIs need aimed, REILS need installed, conduit trench needs smoothed, flight check to be scheduled.
   - **SRE:** Received broom. Mike parked vehicle for all to see. Mike to contact John Deere to see how often to exercise the equipment for DEF system to work properly.
   - **Hangar Taxilane:** Concrete work is done, will be some finish work in the spring
   - **Tree Removal:** Trees near runway have been pile and will be burned when weather and wind are suitable. Trees in fence line have been cut, stumps still need treated.

4. **Other Business**
   - Revv Aviation will transfer to Jet Air March 1, 2026. City council approved assignment of lease.
   - Kent hangar received temporary occupancy permit. They are almost ready to close out the project and begin use.
   - Motion by Kreitner, second by Lampe to appoint Derek Reed to a second five-year term to continue until June 30, 2030.

5. **Public Comments**
   - Discussion of city code for Airport Advisory Commission and if it is possible to add members, and how often they are required to meet. Brian to investigate and report back to committee.
   - Hangar #23 still has a roof leak. Brian will talk to Building & Grounds to see what can be done.

- What will become of the “old” Kent Hangar? Current plan is to keep it as long as they have two planes.
- Brian gave update that the current SRE hangar is getting new siding and a roof due to past storm damage that was covered by insurance.
- Discussed whether a meeting was needed in March and how frequently meetings were required in general. It was agreed to cancel the March meeting and hold a meeting in April if necessary.

6. **Adjourn**
   Meeting adjourned at 5:39 PM

Next Meeting: April 20 (TBD)

Civil Service Commission

Minutes

March 12, 2026

Present: Sue Thielmann, Brandy Olson, Jeff Cochran
Also Present: Stephanie Romagnoli, Fire Mechanic Jason Summitt

The meeting was called to order at 4:00 p.m.

The minutes from the November 2025 meeting were approved as presented.

There was a motion by Olson to approve the request to test for:

Maintenance Repairperson
Fire Mechanic

There was a second by Cochran, and the motion carried.

A motion to deceritfy the current Equipment Operator I list and retest for this position was made by Olson, second by Thielman and the motion carried.

Second by Thielmann and the motion carried with all ayes.

There was a motion by Cochran and second by Thielman to approve the list for Maintenance Repairperson. The motion carried with all ayes.

There was a request made to re-open the promotional list for Fire Captain by an employee who did not apply when the position was originally posted. After some discussion, the Commission requested a legal opinion about whether this was perimssible before any further consideration on the matter. Staff will review this with the City Attorney and report back to the Commission.

The meeting adjourned at 4:20 p.m.

Muscatine County Board of Supervisors
Monday, March 16, 2026

The Muscatine County Board of Supervisors met in regular session at 9:00 A.M. with Sauer and Sorensen present and Kirchner attending electronically. Chick and Mather were absent. Vice-Chairperson Kirchner presiding.

On a motion by Sorensen, second by Sauer, the agenda was modified for Sorensen to sign documents as approved. Ayes: All.

On a motion by Sorensen, second by Sauer, the Board approved claims dated March 16, 2026, in the amount of $493,569.39. Ayes: All.

On a motion by Sorensen, second by Sauer, the Board authorized Sorensen to sign a Statement of Election Costs for the March 3, 2026, Davenport School District Special Election, with County Auditor Tibe Vander Linden. Ayes: All.

On a motion by Sorensen, second by Sauer. the Board approved the minutes of the March 9, 2026 regular meeting and March 10, 2026 special meeting. Ayes: All.

No correspondence was reported. No committees or meetings were reported.

County Auditor Tibe Vander Linden stated the FY26/27 County Budget Year Statements to Owners and Taxpayers as required by Iowa Code 24.2A were mailed on March 13, 2026.

County Engineer Bryan Horesowsky updated the Board on the secondary roads regarding the overnight snowfall causing drifting and zero visibility for his road crew. Sauer asked if the closing of the interstates has created any concerns. Horesowsky stated nothing to note.

The meeting was adjourned at 9:05 A.M.

ATTEST:

Tibe Vander Linden County Auditor	Danny Chick, Chairperson Board of Supervisors

City of Muscatine

LIBRARY BOARD OF TRUSTEES

Wednesday, February 18, 2026

The Library Board of Trustees meets on the 3rd Wednesday of each month at 4:30 p.m. in the Library Conference Room

Minutes

1. CALL TO ORDER
   President Tony Loconsole called the meeting to order at 4:30 p.m. In addition to Loconsole, also present were Steve Truitt, Stacy Beatty, Diana Boeding, Nora Dwyer, Kraig Reed, Mary Odell, and Scott Comstock. Diana Gradert had an excused absence. Staff members present were Bobby Fiedler, Molly Garrett, and Greg Benefiel.
2. APPROVAL OF AGENDA
   Dwyer moved the agenda be approved as submitted. Seconded by Beatty. All ayes; motion carried.
3. APPROVAL OF MINUTES
   Odell moved to approve the minutes for the January 21, 2026 Board meeting. Seconded by Truitt. All ayes; motion carried.
4. RATIFY BILLS FOR PAYMENT
   Beatty moved to ratify the bills for January 21, 2026 and February 2, 2026. Seconded by Odell.

   Fiedler gave a brief overview of the bills dated January 21, 2026.

   Dwyer asked how Yoga for Littles was going.

Fiedler stated it is a popular program, which started in October. He stated it is scheduled through May and then paused for the Summer Reading Program.

Boeding asked if it is held monthly, and Fiedler answered yes.

Fiedler, speaking in reference to the February 2, 2026 bills, stated that on Page 2 there is an entry for LS&S, which was for the purchase of books and databases.

Fiedler stated the library is starting to order from Brodart. He stated they feel they can spend all the funds for the current fiscal year.

Fiedler stated the final entry is for the first half of the payment due for the dinosaur activity, which will kick off the Summer Reading Program.

Fiedler stated that Emerson talked with the Quad City River Bandits, and they will have their mascot, Rascal the Raccoon, at the dinosaur activity, which will take place at the dome.

Fiedler, speaking in reference to the fund balances, stated the General Fund is in good shape.

Fiedler stated the Computer Fund has an approximate $35,000 balance, but John Kreuzenstein stated the firewall needs to be replaced, which could be between $5,000 and $8,000. He stated a new firewall should last about seven years. He stated the Board will be asked to approve this expenditure sometime in March or April.

Loconsole asked if it would be replaced with new technology, and Fiedler stated it would be the 3800 model.

Fiedler stated the Trust Fund has a balance of about $186,000.

Loconsole stated he felt Emerson should be recognized for the successful activities happening at the library. He stated they are good for the library, the community, and for the publicity.

Fiedler stated the library has received a number of donations and that Friends will be donating more this year ($5,000).

Vote - All ayes; motion carried.

5. RECEIVE COMMUNICATION
6. COMMUNICATIONS - CITIZENS

7. STAFF LIAISON
   Benefiel stated the gift card this month was given to Emerson for his handling of the bat issue at the library, which was followed by discussion.
8. FRIENDS' REPORT
   Fiedler stated that the Friends group would be holding their annual meeting on March 4, 2026 from noon to 2:00 p.m. in Room 301 at the library. He stated everyone is welcome to attend.

   Fiedler stated they would be holding their miniature golf tournament fundraiser on April 18, 2026 at the library.

   Loconsole asked Fiedler to let the Board know if volunteers are needed.

   Fiedler stated the Friends' copier would be replaced at their expense.
9. DIRECTORS' REPORT
   FY 2026/2027 Budget Update:

   Fiedler stated the budget is currently in a wait and see mode. He stated the library is still looking at a $50,000 cut which would be offset by the $35,000 backfill, resulting in an approximate $14,000 budget cut for the library. He noted that several departments received cuts as well.

   Fiedler stated we will not know what we are getting from the county until April.

   Fiedler stated the City Administrator has proposed a levy of $.22. He stated the City Council is mandated to levy $.18 for the Health Benefit levy, which he explained. He stated the city is asking for an additional $.04. He stated that without the $.04, there would be a $350,000 shortfall in the General Fund.

   There was discussion about the property tax levy.

   Loconsole stated that hopefully the City Council will understand the need for the $.22 levy.

   Fiedler stated the City Administrator feels positive that the City Council is in favor of the proposed levy amount; however, it is not a sure thing.

   Loconsole asked if it would be beneficial for Board members to reach out to City Council.

   Fiedler stated the Board members have every right to reach out to City Council but must do so as citizens and not as Board members. He stated it is important to keep that separation.

   Loconsole asked if the levy dollars are used as a stop gap.

Fiedler stated it is necessary to submit a balanced budget and that is where the $.04 comes into play.

Loconsole noted that other cities throughout the state are facing the same types of challenges.

2nd Session of 91st General Assembly:

Fiedler provided information about what was happening with the legislature, noting that everything changes so rapidly. He stated that Friday is the first funnel. He stated there are a lot of library bills on the docket, noting there are eight that could impact us. He stated he put together a summary of those bills as well as a sheet with talking points. He stated he does not have a good sense of what is going to make it through the legislature.

Fiedler stated the one thing the Board could do was form an Ad Hoc Committee, which could meet at any time.

Odell stated it would be interesting to see what happens after the first funnel.

Fiedler stated the second funnel would be March 20, 2026. He stated that last year there were two bills that made it through both funnels, but they were never introduced. He stated he feels it would be important to share with the legislators the negative impact these proposed bills could have on the library.

There was discussion concerning bill H720 and the impact it would have on the library should it pass.

Fiedler stated the March Board meeting could be moved to a date after the second funnel.

Boeding stated moving the meeting date would be good because she would then be able to attend.

Loconsole stated the Ad Hoc Committee could draft a statement or letter to the legislators on behalf of the library outlining the negative impact the proposed bills could have on the library, and Fiedler stated he was correct.

There was further discussion concerning the forming of the committee.

Loconsole asked if the Ad Hoc Committee would be created under New Business, and Fiedler answered yes.

Loconsole stated it would be helpful to have a sample document that the committee could work from, and Fiedler stated he could provide that information.

Patio Update:

Fiedler stated he needed to reach out to one more Board member for support of the project before getting the next step started.

Iowa Prevention Resource Center for Rural Health Update:

Fiedler stated the group is just now starting to reach out to groups to partner with. He stated the library would be included in future meetings to see if we might be able to help them.

Century Club Presentation:

Fiedler stated he gave a presentation to the group a couple of weeks ago. He stated they are very supportive of childhood literacy and are interested in Friends as well.

State Library Accreditation:

Fiedler stated that if the Board approves the ADA checklist presented later in the agenda, the application would be submitted tomorrow.

Other Business:

The library is preparing guidelines for dealing with ICE should it become necessary.

Fiedler stated the library is also in the process of preparing an AI policy for patrons. He stated people need to be made aware that AI is not always accurate.

Beatty stated that AI hurts the environment.

There was further discussion on AI.

Fiedler stated the library received a nice donation from HNI for office furniture, which was used in Molly's office, as well as some nice shelving units. He stated the library has received a lot of furniture from HNI, which has been great.

Fiedler stated he had received a call from Lisa Lewis, who lives in the Oscar

Grossheim home, concerning the barn behind her house that the city was going to demolish. He stated the city did not know the barn was an historical structure and has given Ms. Lewis an extension on making repairs to it.

10. BOARD TRAINING

A. Begin Review of Library Trustees Handbook at the March 18, 2026 Board Meeting

Fiedler stated the Board would begin reviewing the Library Trustees Handbook at its March meeting in order to bring everyone up to speed.

Odell noted she had taken the IPIB training, and Fiedler stated Fran would log her hours.

11. OLD BUSINESS

12. NEW BUSINESS

A. Request Approval of Priority 2 ADA Checklist for Submission for Library's Three-Year Accreditation Application

Loconsole read the request as submitted.

Dwyer moved the request be approved. Seconded by Reed.

Fiedler stated the checklist is pro forma, noting ADA requirements at the library are up to standard.

Vote - All ayes; motion carried.

B. Request Approval of ALA Attendance Costs (June 25-29) for Robert Fiedler in the Amount of $2,283

Loconsole read the request as submitted.

Odell moved the request be approved. Seconded by Comstock.

Fiedler pointed out the ALA discount. He stated he would like to attend this conference because it is not known what could happen in the future.

Vote - All ayes; motion carried.

Beatty moved to approve the creation of the Library Advocacy Ad Hoc Group. Seconded by Dwyer. All ayes; motion carried.

Beatty moved to approve the volunteers to the Library Advocacy Ad Hoc Group (Loconsole, Beatty, Dwyer, and Truitt). Seconded by Dwyer. All ayes; motion carried.

Beatty moved to change the Board meeting date to March 25, 2026. Seconded by Reed. All ayes; motion carried.

13. ADJOURNMENT
    Truitt moved the meeting be adjourned at 5:31 p.m. Seconded by Comstock. All ayes; motion carried.
14. NEXT MEETING

A. March 18, 2026

Muscatine County Board of Supervisors
Monday, March 23, 2026

The Muscatine County Board of Supervisors met in regular session at 9:00 A.M. with Chick, Kirchner, Mather, Sauer and Sorensen present. Chairperson Chick presiding.

On a motion by Sorensen, second by Sauer, the agenda was approved as presented. Ayes: All.

On a motion by Mather, second by Sorensen, the Board approved Resolution #03-23-26-01 Suspending the Collection of Taxes. Roll call vote: Ayes: All.

RESOLUTION #03-23-26-01
SUSPENDING THE COLLECTION OF TAXES

WHEREAS, notice from the Director of Human Services has been received regarding the eligibility of David Bowers, Muscatine, Iowa, (the 'recipient') for medical and facility care; and

WHEREAS, as such recipient of such assistance is deemed to be unable to contribute to the public revenue pursuant to Section 427.9, Code of Iowa; and

WHEREAS, the recipient is the owner of property described as follows:

Address:	1541 West Acre Dr., Muscatine, IA 52761
Parcel No:	0834176028
Legal Description:	34-77-2W Lot 35 Beach West Acres 4 PL 217

NOW, THEREFORE, BE IT HEREBY RESOLVED by the Muscatine County Board of Supervisors:

1. That the County Treasurer is hereby ordered to suspend the collection of all taxes, including special assessments, rates or charges, interest, fees and costs for the current year and those unpaid from prior years. As long as the petitioner is authorized by DHS no interest accrues during suspension, but payments can be made.
2. If the parcel is sold, passes by bequest or inheritance to any person other than the spouse or minor child of the petitioner, all taxes and special assessments become due and payable by the next semi-annual installment date. Interest at the rate of 1 ½% per month will start on the next delinquency date after the suspended taxes become due.

Passed and approved this 23rd day of March, 2026.

ATTEST:

/s/Tibe Vander Linden
Muscatine County Auditor

/s/Danny Chick, Chairperson
Muscatine County Board of Supervisors

On a motion by Sorensen, second by Kirchner, approved the proposed special events schedule for Ardon Creek Vineyard & Winery. Ayes: All.

County Development Director Eric Furnas stated construction groundbreaking for the Engineering and Zoning building began last week.

On a motion by Sorensen, second by Sauer, the Board approved a renewal application for a Special Class "C" Native Retail Wine License, Beer and Outdoor Service Permit for Ardon Creek Vineyard & Winery, 2399 Independence Avenue, Letts, Iowa. Ayes: All.

On a motion by Sauer, second by Sorensen, the Board approved an ownership amendment application for a Class "E" Retail Alcohol License (LE) for Casey's General Stores, Inc., 1334 Highway 22, Nichols, Iowa. Ayes: All.

On a motion by Sorensen, second by Kirchner, the Board approved a renewal application for a Class "C" Retail Alcohol License (LC) and Outdoor Service Permit for West Liberty Golf & Country Club, 1248 Country Heights Lane, West Liberty, Iowa. Ayes: All.

On a motion by Mather, second by Sorensen, the Board approved a renewal application for a Special Class "C" Retail Alcohol License and Outdoor Service Permit for Muscatine Municipal Golf Course, 1820 Highway 38, Muscatine, Iowa. Ayes: All.

On a motion by Sauer, second by Sorensen, the Board approved the minutes of the March 16, 2026 regular meeting. Ayes: All.

Correspondence:

Sauer received a call from a resident regarding property taxes.

All Supervisors received an email from a citizen regarding the suspension of collection of taxes per agenda item #3 of today's meeting.

All Supervisors received an email regarding an open house to be held by Pearl Button Solar on March 26, 2026, 6:00 p.m. to 8:00 p.m. at 821 5th Street, Durant, Iowa.

Committee & Meeting Reports:

Kirchner attended a Muscatine County Fair Board meeting on March 19, 2026.

Sorensen attended an Emergency Management group meeting on March 18, 2026.

Sorensen attended a Muscatine Center for Social Action (MCSA) 21-unit open house on March 19, 2026.

Sauer attended Muscatine County Conservation Board meeting on March 16, 2026 and a Muscatine County Conservation Board Special meeting on March 20, 2026 for change orders for the maintenance building remodel.

Sauer attended a Riverbend Transit meeting on March 18, 2026.

On a motion by Sorensen, second by Sauer, the Board approved to accept the March 2026 payroll claims. Ayes: All.

County Engineer Bryan Horesowsky updated the Board on secondary road projects.

County Treasurer Amy Zybarth reminded property tax owners that the second half of property taxes are due March 31, 2026. The payments can be made online, in person, by mail or left in the drop box at the front of the Administration Building.

The meeting was adjourned at 9:18 A.M.

ATTEST:

Tibe Vander Linden County Auditor	Danny Chick, Chairperson Board of Supervisors

Muscatine County Board of Supervisors
Monday, March 23, 2026

The Muscatine County Board of Supervisors met in special session at 10:00 A.M. with Chick, Kirchner, Mather, Sorensen and Sauer present. Chairperson Chick presiding.

On a motion by Sorensen, second by Sauer, the agenda was approved as presented. Ayes: All.

A Public Hearing was called to order by Chairperson Chick at 10:01 A.M. on the FY26/27 Muscatine County Proposed Property Tax Levy.

Administrative & Finance Director Kala Naber presented the Public Hearing Notice with the current year certified property tax of $16,762,364.00 and the proposed budget for FY26/27 of $17,052,414.00. Naber reviewed a graph of the services the county provides and reviewed each service area. Naber reviewed the county expenditures for secondary roads and the jail and how each expenditure is funded. Mather stated the federal and other county reimbursements the county receives for housing federal or other county inmates help to defray some of the costs for our jail. Naber presented slides showing a 10% and 5% assumed property value increase comparison, which showed a county urban and rural tax decrease for the 5% example.

Naber reviewed a tool on the county website for citizens to estimate property taxes per tax parcel. Naber stated citizens can input their assessed property value for 2024 and 2025 (found on the MAGIC website) and proposed tax rates for school, county and city to estimate property taxes. Naber stated the rollback (state limitation on growth assessment) is included in the estimator with the FY26/27 rollback having been set by the state at 44,535% and current year is set at 47,432%.

Steven Dierckx, 1711 Vail Avenue, Muscatine, stated he expected a larger public attendance at the meeting. Dierckx asked if budget items are ever turned down and if anything ever changes with the budgets at a public hearing. Mather stated the budget process starts in January with four meetings to evaluate the department and outside agency budget requests. Sorensen reviewed the current 1.9% increase in property valuation with a 12% commercial property valuation, due to the equalization percentage increase ordered by the state. Dierckx asked questions regarding the districts listed on his tax statement and the difference between general basic, general supplemental budgets and debt service. The Board held discussions to review the questions presented. Dierckx recommended a DOGE volunteer committee for the county to screen budget items stating Muscatine has the highest property taxes and it needs to be a median rate. Dierckx asked how the property tax reform bill is going. Sorensen explained the current rollback of taxes and the proposed tax bill. Dierckx stated he feels we need to elect board members who can cut spending.

Charles Lorensen, 1808 Briarwood Lane, Muscatine, stated he thinks he will move out of the county and never come back. Lorensen questioned the current tax rate vs. the effective tax rate on the budget year statement. Naber reviewed the budget year statement. Lorensen stated the tax process is confusing and stated he will be attending the city and school public hearing meetings, where in the past they only give three minutes to speak. Lorensen questioned the updates at Deep Lake Park and asked if the money spent on improvements has been a good

thing. Chick stated the dollars made are hard to capture. Sorensen reviewed the funding that was used for the improvements. Lorensen stated communication from the county and other entities is bad. Sorensen stated the county spends approximately $38,000 annually with required publishing in the two legal newspapers. The Board held discussion stating the state laws have imposed some costs to the county and all notices are published on the county website and newspapers (Muscatine Journal and Wilton/Durant Advocate). Lorensen stated Muscatine Power & Water local cable station does not post the meeting agenda.

Emergency Management Director Chris Jasper stated the increase for Emergency Management/911 Communications is due to new legislation passed last year which changed for the state to take additional surcharge funding. Jasper stated cell phone service charges previously allowed 60 cents for every dollar charged on a user's bill to be given to emergency management and now the state is sending a bill each quarter for providing 911 services. Therefore, increases in tax dollars are necessary to fund radio dispatch equipment and 911 dispatchers.

Sorensen reviewed the general basic and general supplemental budget and the restrictions and obligations the state has set on what the county can fund. Sorensen stated the reimbursement fees the county receives from the state for required services do not cover the cost of the services. Sorensen stated he has a conversation each year with legislators on how to fix this problem.

Peggy Gordon, 802 Wier Street, Muscatine, stated there is a legislative bill going through the funnel that will charge $5 per posting for electronic agendas and postings for government entities and first-class mail may increase up to $1.00.

Mather reviewed the Board has cut funding of $50,000 to $60,000 to outside agencies, such as libraries. Mather stated matching funding to the agencies has been presented to some.

Sauer stated Muscatine County is fortunate with the industry, corporations and jobs we have in our community compared to other river towns in Iowa which lack industrialization. Sauer stated citizens should be thankful for what has been built and maintained here.

On a motion by Sorensen, second by Mather, the public hearing was closed at 10:57 A.M. Roll call vote: Ayes: All.

The meeting was adjourned at 10:57 A.M.

ATTEST:

Tibe Vander Linden	Danny Chick, Chairperson
County Auditor	Board of Supervisors

OFFICIAL PROCEEDINGS OF THE
BOARD OF WATER, ELECTRIC,
AND COMMUNICATIONS TRUSTEES
OF THE CITY OF MUSCATINE, IOWA
FEBRUARY 24, 2026 – 4:00 P.M.

The Board of Trustees met in regular session at Muscatine Power and Water's Administration/Operations Building, 3205 Cedar Street, Muscatine, Iowa, on Tuesday, February 24, 2026 at 4:00 p.m.

Chairperson Susan Eversmeyer called the meeting to order. Additional members of the Board present were as follows: Trustees Tammi Drawbaugh, Keith Porter, Kevin Fields, and Kelly McGriff.

Also present were Gage Huston, General Manager of Muscatine Power and Water (MPW); Kelly Miller Board Secretary; Erika Cox, Mark Roberts, Ryan Streck, and Greg Slonka of MPW. Additional guests attending the meeting included Allicia Shannon and Todd Koch.

Gage Huston introduced Allicia Shannon from MPW.

Trustee Fields moved, seconded by Trustee Drawbaugh, to approve the January 27, 2026 regular meeting minutes. All Trustees present voted aye. Motion carried.

Trustee Porter moved, seconded by Trustee Drawbaugh, to ratify payments totaling $7,441,926.71, for the Electric Utility, $576,458.78 for the Water Utility, and $1,063,827.36 for the Communications Utility, for a cumulative total of $9,082,212.86 All Trustees present voted aye. Motion carried.

At 4:04 p.m. Chairperson Eversmeyer stated that the Board would be going into Closed Session for the purpose to review Muscatine Solar 1 and Solar 2 Projects as the specifics of the discussions pertain to material that is confidential under various exceptions to open meetings and open records laws, including competitive information (Iowa Code 388.9), attorney client work product (Iowa Code 22.7(4)), draft studies (Iowa Code 22.7(65)), and possible real estate transactions (Iowa Code 21.5(1)(j)).

Trustee Porter moved, Seconded by Trustee McGriff to move into Closed Session. On roll call, Trustees Drawbaugh, Porter, Fields, McGriff, and Eversmeyer voted aye. Voting nay, none. Motion carried.

At 4:27 p.m. the meeting was reconvened to open session.

No action was taken following the Closed Session.

The next agenda item was a recommendation to Authorize the General Manager to Finalize Negotiations and Execute a Membership Interest Purchase Agreement (MIPA) for the Muscatine Solar 1 Project. MPW initiated the Muscatine Solar 1 project to expand local renewable generation, support customer sustainability goals, and position the utility to take advantage of federal incentives available under the Inflation Reduction Act (IRA). In summary, the evolution of the project structure into the present recommendation for MPW to execute a MIPA with Nokomis Bay, LLC for acquisition of the project company will allow MPW to own, construct, and then operate the facility, giving MPW project control, and provide for better economics than a power purchase agreement. Trustee McGriff moved, seconded by Trustee Porter, to authorize the General Manager to finalize negotiations and execute the Membership Interest Purchase Agreement with Nokomis Bay, LLC for the acquisition of the Muscatine Solar 1 project company, Muscatine Solar 1 LLC, and execute all steps necessary to achieve a successful closing of the transaction. All Trustees present voted aye. Motion carried.

The next agenda item was a recommendation to Approve a Project Summary form for Muscatine Solar 2 Project Development Activities. The Muscatine Solar 2 Project is a planned 24 MW_{AC} solar/photovoltaic

generating facility to be located on a property under MPW lease option and interconnect to MPW's Grandview Substation at 69 kV. Development activities for this phase include selection of an engineer of record to be retained under a design services agreement, submission of interconnection request to MISO, and procurement of modular inverter energy property for tax incentive compliance. Trustee Fields moved, seconded by Trustee Drawbaugh, to approve a Project Summary Form for the Muscatine Solar 2 Project Development with a total cost of $3,414,600. All Trustees present voted aye. Motion carried.

Next on the agenda was a recommendation to Approve a Revised Project Summary Form for the Unit 9 ELG Front-End Engineering Design Project. The next phase of the Unit 9 FGD wastewater and bottom ash transport water Effluent Limit Guideline (ELG) regulatory compliance plan is to finalize the full project scope and execution approach, perform risk and uncertainty analysis, risk mitigation, and conduct value engineering. This study is expected to identify and define operational changes, makeup water reduction technology, a small FGD wastewater treatment system, reuse and remodeling of existing onsite storage, and additional equipment for Bottom Ash Transport Water (BATW) management. Trustee Fields moved, seconded by Trustee McGriff, to approve the revised Project Summary Form for U9 ELG Front-End Engineering Design Project with a total cost of $1,034,400. All Trustees present voted aye. Motion carried.

The next agenda item was a recommendation to Approve Annual Submittal of MPW's Reliability Plan to Iowa Utilities Commission (IUC). The Iowa Administrative Code was revised in 2022 to require municipal electric utilities to adopt and file an annual electric reliability plan with the IUC. The annual electric reliability plan must be approved by the Board of Trustees and filed with the IUC annually by April 1. A similar requirement is in place for investor-owned utilities and electric cooperatives operating in Iowa.

Iowa Administrative Code 199—27.8 reads:

> "Each electric cooperative and municipal electric utility is to adopt and have approved by its board of directors or governing authority a reliability plan. The reliability plan is to be updated not less than annually. A copy of the EC-1 (Annual Report) is to be filed with the commission for informational purposes."

The Iowa Association of Municipal Utilities (IAMU) prepared a model annual electric reliability plan for its members after consulting with the IUC to ensure compliance. That plan will serve as a capstone for MPW's suite of inspection, maintenance, and improvement plans, procedures, and policies.

The following resolution was submitted:

RESOLUTION 26-06

WHEREAS, Iowa Administrative Rule 199—27.10(3)(g) states that municipal electric utilities are required to adopt and have approved by their governing body an annual electric reliability plan; and

WHEREAS, the annual electric reliability plan must be filed with the Iowa Utilities Commission; and

WHEREAS, MPW has reviewed its annual electric reliability plan.

BE IT RESOLVED, that the Board of Water, Electric, and Communications Trustees of the City of Muscatine, Iowa approves and adopts the annual Electric Reliability Plan of the municipal electric utility and file it with the Iowa Utilities Commission.

Trustee Drawbaugh moved, seconded by Trustee Porter, that said resolution be passed, approved, and adopted this 24th day of February 2026. On roll call, Trustees Drawbaugh, Porter, Fields, McGriff, and Eversmeyer voted aye. Voting nay, none. Resolution carried.

In the February GM Report, Mr. Huston updated the Board on the following topics:

- Winter Storm Fern operational performance results summary
- Lead service line replacement residential customer charge update
- Ad Sales Rep/Employment Transition

The February Financial Highlights and Financial Results Summary were reviewed by Mr. Roberts.

There were no entries on the Competitive Quotes for Public Improvements Report.

Mr. Huston reviewed the Monthly Project Status Report and Variance Analysis reports.

Mr. Huston reviewed the January 2026 Departmental Reports.

No public comments were made.

Trustee Drawbaugh moved, seconded by Trustee Porter, to receive and place on file the January 2026 Utility Reports. All Trustees present voted aye. Motion carried.

The meeting of the Board of Trustees was adjourned at 5:00 p.m.

BOARD OF WATER, ELECTRIC, AND
COMMUNICATIONS TRUSTEES OF
THE CITY OF MUSCATINE, IOWA

Kelly Miller
Board Secretary

Muscatine Power and Water

Electric Utility

Financial Operating Statements & Balance Sheets

February 2026

Muscatine Power and Water
Electric Utility
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Muscatine Power and Water - Electric Utility
Classification of Electric Energy Sales
Current Month - February 2026

Current Month

kWh	Results			Variance				Average Use Per Customer	
	Actual	Budget	Prior Year	Vs Budget	%	Vs Prior Yr	%		
kWh Generated and Sold									
Gross Generation	84,823,704	76,512,188	80,072,892	8,311,516	10.9%	4,750,812	5.9%		
less: Plant Use	7,819,874	7,955,709	7,716,470	(135,835)	-1.7%	103,404	1.3%		
Net Generation/Wholesale Sales	77,003,830	68,556,479	72,356,422	8,447,351	12.3%	4,647,408	6.4%		
Wholesale Sales - Wind	4,555,100	4,999,022	4,918,600	(443,922)	-8.9%	(363,500)	-7.4%		
Total Wholesale Sales	**81,558,930**	**73,555,501**	**77,275,022**	**8,003,429**	**10.9%**	**4,283,908**	**5.5%**		
Net Capacity Factors									
Unit 9	66.6%	55.6%	65.6%	11.0%		1.0%			
Unit 8	7.4%	14.2%	0.0%	-6.8%		7.4%			
Unit 7	15.3%	15.0%	18.9%	0.3%		-3.6%			
Total Plant	**45.2%**	**40.3%**	**42.3%**	4.9%		2.9%			
SF Wind	52.1%	57.2%	56.3%						
kWh Distributed								Actual	Prior Year
Residential	9,081,847	8,419,046	8,682,984	662,801	7.9%	398,863	4.6%	899	857
Commercial I	2,552,067	2,473,377	2,583,891	78,690	3.2%	(31,824)	-1.2%	1,859	1,896
Commercial II	7,460,962	7,279,652	6,879,748	181,310	2.5%	581,214	8.4%	45,494	44,101
Industrial I	9,736,220	10,340,057	10,213,160	(603,837)	-5.8%	(476,940)	-4.7%	695,444	729,511
Industrial II	39,119,736	39,502,125	39,769,003	(382,389)	-1.0%	(649,267)	-1.6%	19,559,868	19,884,502
City Enterprise Funds	449,055	500,709	540,197	(51,654)	-10.3%	(91,142)	-16.9%	17,271	20,777
Inter-Utility	1,254,666	1,247,385	1,245,321	7,281	0.6%	9,345	0.8%	35,848	36,627
Retail Sales	**69,654,553**	**69,762,351**	**69,914,304**	**(107,798)**	**-0.2%**	**(259,751)**	**-0.4%**	**5,943**	**5,964**
City Lighting	116,168	103,089	120,009	13,079	12.7%	(3,841)	-3.2%		
City Buildings	652,922	631,122	609,021	21,800	3.5%	43,901	7.2%		
Offline Power Plant Usage	386,848	270,144	494,442	116,704	43.2%	(107,594)	-21.8%		
Losses & Cycle Billing	(455,393)	793,170	1,246,373	(1,248,562)	NM	(1,701,766)	-136.5%		
Total Retail kWh Distributed	**70,355,098**	**71,559,875**	**72,384,149**	**(1,204,777)**	**-1.7%**	**(2,029,051)**	**-2.8%**		
Wind kWh Purchases	4,555,100	4,999,022	4,918,600	(443,922)	-8.9%	(363,500)	-7.4%		
Total Purchased Electricity kWh	**74,910,198**	**76,558,897**	**77,302,749**	**(1,648,698)**	**-2.2%**	**(2,392,551)**	**-3.1%**		

Year To Date

kWh	Results			Variance				Average Use Per Customer	
	Actual	Budget	Prior Year	Vs Budget	%	Vs Prior Yr	%		
kWh Generated and Sold									
Gross Generation	188,242,356	178,850,845	160,468,254	9,391,511	5.3%	27,774,102	17.3%		
less: Plant Use	17,249,880	17,234,340	15,674,106	15,540	0.1%	1,575,775	10.1%		
Net Generation/Wholesale Sales	170,992,476	161,616,505	144,794,149	9,375,970	5.8%	26,198,327	18.1%		
Wholesale Sales - Wind	9,414,800	9,930,100	10,987,500	(515,300)	-5.2%	(1,572,700)	-14.3%		
Total Wholesale Sales	**180,407,276**	**171,546,605**	**155,781,649**	**8,860,671**	**5.2%**	**24,625,627**	**15.8%**		
Net Capacity Factors									
Unit 9	69.0%	63.2%	63.0%	5.8%		6.0%			
Unit 8	9.2%	14.2%	0.0%	-5.0%		9%			
Unit 7	22.1%	15.0%	12.6%	7.1%		9.4%			
Total Plant	**47.7%**	**45.1%**	**40.2%**	2.6%		7.5%			
SF Wind	51.1%	53.9%	59.7%						
kWh Distributed								Actual	Prior Year
Residential	18,617,364	17,393,012	18,045,866	1,224,352	7.0%	571,498	3.2%	1,842	1,782
Commercial I	5,233,078	5,090,198	5,220,612	142,880	2.8%	12,466	0.2%	3,811	3,830
Commercial II	16,116,997	15,090,619	14,628,837	1,026,378	6.8%	1,488,160	10.2%	98,274	93,775
Industrial I	19,886,160	21,012,562	21,264,520	(1,126,402)	-5.4%	(1,378,360)	-6.5%	1,420,440	1,518,894
Industrial II	81,975,986	82,574,643	82,927,340	(598,657)	-0.7%	(951,354)	-1.1%	40,987,993	41,463,670
City Enterprise Funds	948,288	1,010,507	1,118,673	(62,219)	-6.2%	(170,385)	-15.2%	36,473	43,026
Inter-Utility	2,515,036	2,612,697	2,551,508	(97,661)	-3.7%	(36,472)	-1.4%	71,858	75,044
Retail Sales	**145,292,909**	**144,784,237**	**145,757,356**	**508,672**	**0.4%**	**(464,447)**	**-0.3%**	**12,396**	**12,435**
City Lighting	235,448	220,192	243,154	15,256	6.9%	(7,706)	-3.2%		
City Buildings	1,404,353	1,330,057	1,266,383	74,296	5.6%	137,970	10.9%		
Offline Power Plant Usage	818,957	574,056	1,068,460	244,901	42.7%	(249,503)	-23.4%		
Losses & Cycle Billing	1,369,147	2,872,774	3,715,317	(1,503,627)	-52.3%	(2,346,169)	-63.1%		
Total Retail kWh Distributed	**149,120,814**	**149,781,317**	**152,050,669**	**(660,502)**	**-0.4%**	**(2,929,855)**	**-1.9%**		
Wind kWh Purchases	9,414,800	9,930,100	10,987,500	(515,300)	-5.2%	(1,572,700)	-14.3%		
Total Purchased Electricity kWh	**158,535,614**	**159,711,416**	**163,038,169**	**(1,175,802)**	**-0.7%**	**(4,502,555)**	**-2.8%**		

Muscatine Power and Water - Electric Utility
Statements of Revenues, Expenses, and Changes in Net Position
Current Month - February 2026

Income Statement	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Sales of Electricity							
Residential	$ 1,144,952	$ 1,098,108	$ 1,096,940	$ 46,844	4.3%	$ 48,012	4.4%
Commercial I	305,631	307,474	309,315	(1,843)	-0.6%	(3,684)	-1.2%
Commercial II	712,878	705,564	671,471	7,314	1.0%	41,408	6.2%
Industrial I	742,036	778,905	791,677	(36,868)	-4.7%	(49,641)	-6.3%
Industrial II	2,447,808	2,551,171	2,576,631	(103,363)	-4.1%	(128,823)	-5.0%
City Enterprise Funds	38,793	46,500	48,985	(7,707)	-16.6%	(10,192)	-20.8%
Inter-Utility	93,384	96,038	96,800	(2,654)	-2.8%	(3,416)	-3.5%
Security Lights	24,123	24,105	23,400	17	0.1%	723	3.1%
Retail Sales Total	**5,509,605**	**5,607,865**	**5,615,218**	**(98,260)**	**-1.8%**	**(105,614)**	**-1.9%**
Wholesale Sales - Energy	3,243,985	3,350,368	3,679,348	(106,383)	-3.2%	(435,363)	-11.8%
Wholesale Sales - Capacity	226,897	185,362	3,226	41,534	22.4%	223,671	NM
Total Sales of Electricity	**8,980,486**	**9,143,595**	**9,297,792**	**(163,109)**	**-1.8%**	**(317,305)**	**-3.4%**
Byproduct Revenue	44,734	101,171	140,137	(56,437)	-55.8%	(95,403)	-68.1%
Inter-Utility Rent Revenue	20,181	20,181	19,594	(0)	0.0%	588	3.0%
Miscellaneous Revenue	125,951	104,605	107,739	21,346	20.4%	18,212	16.9%
Other Revenue	**190,866**	**225,957**	**267,469**	**(35,091)**	**-15.5%**	**(76,603)**	**-28.6%**
Total Operating Revenue	**9,171,352**	**9,369,552**	**9,565,261**	**(198,200)**	**-2.1%**	**(393,909)**	**-4.1%**
Operating Expense							
Purchased Electricity - Energy	2,748,927	3,267,729	3,231,061	518,802	15.9%	482,134	14.9%
Purchased Electricity - Demand	138,324	139,599	3,226	1,275	0.9%	(135,099)	NM
Production Fuel	2,073,509	2,025,305	2,028,058	(48,204)	-2.4%	(45,451)	-2.2%
Operation	517,828	487,682	624,805	(30,146)	-6.2%	106,978	17.1%
Maintenance	391,282	303,080	352,024	(88,202)	-29.1%	(39,257)	-11.2%
Generation Labor	669,463	699,152	652,682	29,689	4.2%	(16,781)	-2.6%
T&D Labor	395,575	436,720	408,546	41,145	9.4%	12,971	3.2%
A&G Labor	393,632	422,929	382,761	29,297	6.9%	(10,871)	-2.8%
A&G	1,608,669	673,241	961,024	(935,428)	-138.9%	(647,645)	-67.4%
Total Operating Expense	**8,937,209**	**8,455,437**	**8,644,187**	**(481,772)**	**-5.7%**	**(293,021)**	**-3.4%**
Operating Margin	**234,144**	**914,115**	**921,074**	**(679,972)**	**-74.4%**	**(686,930)**	**-74.6%**
Depreciation & Amortization	650,449	745,685	614,814	95,236	12.8%	(35,634)	-5.8%
Depreciation - Plant Decomissioning	407,363	380,032	132,796	(27,331)	-7.2%	(274,568)	-206.8%
Operating Income/(Loss)	**(823,668)**	**(211,602)**	**173,464**	**(612,066)**	**-289.3%**	**(997,132)**	**NM**
Nonoperating Income/(Expense)							
Interest Income	271,578	243,957	229,886	27,621	11.3%	41,692	18.1%
Interest During Construction	45,681	137,597	19,378	(91,916)	-66.8%	26,303	NM
Interest Expense	(48,200)	(4,490)	(7,202)	(43,710)	NM	(40,997)	-569.2%
Gain/(Loss) on Disposal of Assets	-	-	-	-	NM	-	NM
Net Nonoperating Income/(Expense)	**269,059**	**377,064**	**242,062**	**(108,005)**	**-28.6%**	**26,998**	**11.2%**
Net Income/(Loss) Before Capital Contributions	**(554,609)**	**165,462**	**415,525**	**(720,071)**	**NM**	**(970,134)**	**NM**
Capital Contributions	-	-	-	-	NM	-	NM
Net Income	**$ (554,609)**	**$ 165,462**	**$ 415,525**	**$ (720,071)**	**NM**	**$ (970,134)**	**NM**
Beginning Net Position	**133,181,622**	**131,247,850**	**128,017,840**	**1,933,772**	**1.5%**	**5,163,781**	**4.0%**
Change in Net Position	**(554,609)**	**165,462**	**415,525**	**(720,071)**	**NM**	**(970,134)**	**NM**
ENDING NET POSITION	**$ 132,627,013**	**$ 131,413,312**	**$ 128,433,366**	**$ 1,213,701**	**0.9%**	**$ 4,193,647**	**3.3%**

Muscatine Power and Water - Electric Utility
Statements of Revenues, Expenses, and Changes in Net Position
Year To Date - February 2026

Income Statement	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Sales of Electricity							
Residential	$ 2,337,073	$ 2,248,118	$ 2,259,061	$ 88,954	4.0%	$ 78,012	3.5%
Commercial I	627,743	628,756	624,124	(1,013)	-0.2%	3,619	0.6%
Commercial II	1,490,361	1,427,680	1,380,315	62,681	4.4%	110,047	8.0%
Industrial I	1,483,287	1,559,019	1,608,785	(75,732)	-4.9%	(125,498)	-7.8%
Industrial II	4,995,508	5,207,462	5,229,325	(211,954)	-4.1%	(233,817)	-4.5%
City Enterprise Funds	81,790	91,531	102,098	(9,741)	-10.6%	(20,308)	-19.9%
Inter-Utility	190,963	200,181	195,977	(9,218)	-4.6%	(5,014)	-2.6%
Security Lights	48,166	48,211	46,809	(45)	-0.1%	1,357	2.9%
Retail Sales Total	**11,254,891**	**11,410,958**	**11,446,494**	**(156,067)**	**-1.4%**	**(191,603)**	**-1.7%**
Wholesale Sales - Energy	14,335,057	8,855,866	7,491,067	5,479,190	61.9%	6,843,989	91.4%
Wholesale Sales - Capacity	404,036	390,585	6,797	13,452	3.4%	397,240	NM
Total Sales of Electricity	**25,993,984**	**20,657,409**	**18,944,358**	**5,336,575**	**25.8%**	**7,049,626**	**37.2%**
Byproduct Revenue	126,615	240,814	249,637	(114,199)	-47.4%	(123,022)	-49.3%
Inter-Utility Rent Revenue	40,363	40,363	39,187	(0)	0.0%	1,176	3.0%
Miscellaneous Revenue	220,307	209,020	224,420	11,287	5.4%	(4,113)	-1.8%
Other Revenue	**387,285**	**490,197**	**513,244**	**(102,912)**	**-21.0%**	**(125,959)**	**-24.5%**
Total Operating Revenue	**26,381,269**	**21,147,606**	**19,457,602**	**5,233,663**	**24.7%**	**6,923,667**	**35.6%**
Operating Expense							
Purchased Electricity - Energy	10,059,879	7,477,998	6,834,256	(2,581,881)	-34.5%	(3,225,624)	-47.2%
Purchased Electricity - Demand	228,114	294,155	6,797	66,041	22.5%	(221,317)	NM
Production Fuel	4,646,138	4,546,454	4,042,038	(99,684)	-2.2%	(604,100)	-14.9%
Operation	1,046,189	995,967	1,083,483	(50,222)	-5.0%	37,294	3.4%
Maintenance	759,600	659,275	588,680	(100,325)	-15.2%	(170,921)	-29.0%
Generation Labor	1,462,913	1,398,304	1,448,323	(64,609)	-4.6%	(14,590)	-1.0%
T&D Labor	821,392	873,440	895,128	52,048	6.0%	73,736	8.2%
A&G Labor	829,253	845,858	840,909	16,605	2.0%	11,657	1.4%
A&G	2,495,646	1,371,134	1,982,193	(1,124,513)	-82.0%	(513,453)	-25.9%
Total Operating Expense	**22,349,126**	**18,462,586**	**17,721,806**	**(3,886,540)**	**-21.1%**	**(4,627,319)**	**-26.1%**
Operating Margin	**4,032,143**	**2,685,020**	**1,735,796**	**1,347,123**	**50.2%**	**2,296,347**	**132.3%**
Depreciation & Amortization	1,300,085	1,491,369	1,228,525	191,284	12.8%	(71,560)	-5.8%
Depreciation - Plant Decomissioning	814,726	760,065	265,591	(54,662)	-7.2%	(549,135)	-206.8%
Operating Income/(Loss)	**1,917,332**	**433,586**	**241,679**	**1,483,746**	**342.2%**	**1,675,652**	**693.3%**
Nonoperating Income/(Expense)							
Interest Income	475,906	515,191	406,022	(39,285)	-7.6%	69,884	17.2%
Interest During Construction	90,423	275,194	38,479	(184,771)	-67.1%	51,943	NM
Interest Expense	(54,969)	(8,980)	(14,537)	(45,989)	NM	(40,432)	-278.1%
Gain/(Loss) on Disposal of Assets	-	-	-	-	NM	-	NM
Net Nonoperating Income/(Expense)	**511,360**	**781,405**	**429,964**	**(270,045)**	**-34.6%**	**81,396**	**18.9%**
Net Income/(Loss) Before Capital Contributions	**2,428,692**	**1,214,991**	**671,644**	**1,213,701**	**99.9%**	**1,757,048**	**261.6%**
Capital Contributions	-	-	-	-	NM	-	NM
Net Income	**$ 2,428,692**	**$ 1,214,991**	**$ 671,644**	**$ 1,213,701**	**99.9%**	**$ 1,757,048**	**261.6%**
Beginning Net Position	**130,198,321**	**130,198,321**	**127,761,722**	**-**	**0.0%**	**2,436,599**	**1.9%**
Change in Net Position	**2,428,692**	**1,214,991**	**671,644**	**1,213,701**	**99.9%**	**1,757,048**	**NM**
ENDING NET POSITION	**$ 132,627,013**	**$ 131,413,312**	**$ 128,433,366**	**$ 1,213,701**	**0.9%**	**$ 4,193,647**	**3.3%**

Muscatine Power and Water - Electric Utility
Statement of Net Position
February 2026

ASSETS	2026	Prior Month	Prior Year
Current Assets:			
Cash - Interest Bearing	$ 42,829,714	$ 21,107,269	$ 19,557,207
Cash - Refundable Deposit	270,000	270,000	270,000
Cash - 2026 Bond Proceeds	74,973,997	-	-
Investments - 2026 Bond Proceeds	-	-	-
Investments - Securities	41,884,990	43,850,097	41,239,985
Investments - Plant Decommissioning	8,890,179	8,482,816	3,452,686
Receivables:			
Consumer Accounts	6,857,523	7,146,151	7,893,417
Refined Coal	-	-	-
Wholesale	206,996	3,814,188	568,295
Steam Sales	-	-	-
Interest	939,338	960,614	830,975
Inventories	4,938,236	4,921,138	5,243,108
Fuel	6,236,164	7,687,760	13,134,253
Prepaid Expenses	1,565,495	1,621,982	1,124,197
Total Unrestricted Current Assets	**189,592,633**	**99,862,016**	**93,314,122**
Restricted Assets			
Cash - 2026 Bond Issuance	13,150,365	-	-
Investments - 2026 Bond Issuance	-	-	-
Total Restricted Current Assets	**13,150,365**	**-**	**-**
Total Current Assets	**202,742,998**	**99,862,016**	**93,314,122**
Non-Current Assets:			
Capital Assets:			
Property, Plant & Equipment	452,616,064	452,238,179	446,437,718
Subscription-Based IT Assets	1,989,086	1,989,086	1,431,536
Construction Work in Progress	19,244,133	18,599,311	8,203,200
Less: Accumulated Depreciation & Amortization	(386,802,117)	(386,151,668)	(379,310,952)
Total Capital Assets	**87,047,166**	**86,674,907**	**76,761,502**
Other Assets:			
Unamortized Debt Insurance Cost	749,727	-	-
Note Receivable from Comm Utility	-	-	2,609,637
Note Receivable from Water Utility	-	-	1,490,629
Joint Venture Rights	144,550	152,287	137,578
Net Pension Asset	-	-	-
Total Other Assets	**894,278**	**152,287**	**4,237,845**
Total Non-Current Assets	**87,941,444**	**86,827,194**	**80,999,346**
Deferred Outflows of Resources:			
Pension	4,506,378	4,269,318	8,107,190
OPEB	426,678	431,972	157,855
IPERS	91,174	91,174	54,069
Plant Decommissioning	47,732,400	48,139,763	8,559,314
Total Deferred Outflows of Resources	**52,756,629**	**52,932,226**	**16,878,428**
TOTAL ASSETS	**$ 343,441,071**	**$ 239,621,436**	**$ 191,191,896**

Muscatine Power and Water - Electric Utility
Statement of Net Position
February 2026

LIABILITIES AND NET POSITION	2026	Prior Month	Prior Year
Current Liabilities:			
Accounts Payable	$ 2,187,542	$ 4,237,944	$ 1,642,059
Health & Dental Insurance Provision	163,610	163,610	223,364
Accrued Payroll	742,338	797,641	46
Accrued Compensated Absences	1,842,890	1,815,672	1,810,891
Accrued Emission Allowance Expense	1,433,129	1,433,121	1,060,367
Accrued Property Taxes	158,009	147,000	99,739
Miscellaneous Accrued Expenses	641,356	664,364	541,833
Consumers' Deposits	992,695	995,989	981,716
Non-Consumers' Deposits	270,000	270,000	270,000
Unearned Revenue	475,500	554,513	777,000
Accrued Interest Payable	41,465	-	-
2026 Revenue Bond	-	-	-
Total Current Liabilities	**8,948,533**	**11,079,854**	**7,407,014**
Non-Current Liabilities:			
Health & Dental Insurance Provision	37,123	154,722	(25,395)
Post-Employment Health Benefit Provision	1,234,727	1,206,776	846,692
Landfill Closure and Postclosure Liability	1,518,755	1,518,755	1,475,608
Plant Decommissioning	56,622,579	56,622,579	12,012,000
Subscription Based IT Arrangements	1,084,315	1,110,823	931,342
Net Pension Liability	3,549,855	3,452,711	8,660,251
2026 Revenue Bond	106,525,876	-	-
Total Non-Current Liabilities	**170,573,230**	**64,066,367**	**23,900,498**
Deferred Inflows of Resources:			
Extraordinary O&M	28,032,866	28,032,866	28,032,866
Pension	3,163,631	3,163,631	3,341,477
OPEB	71,496	72,795	51,467
IPERS	24,301	24,301	25,209
Total Deferred Inflows of Resources	**31,292,295**	**31,293,593**	**31,451,019**
Net Position:			
Net Investment in Capital Assets	87,047,166	86,674,907	76,761,502
Restricted Assets	13,150,365	-	-
Unrestricted	32,429,482	46,506,715	51,671,864
Total Net Position	**132,627,013**	**133,181,622**	**128,433,366**
TOTAL LIABILITIES AND NET POSITION	**$ 343,441,071**	**$ 239,621,436**	**$ 191,191,896**

Muscatine Power and Water - Electric Utility
Statements of Cash Flows
February 2026

	Month	Year To Date
Cash Flows from Operating Activities:		
Operating Margin	$ 234,144	$ 4,032,143
Noncash Items in Operating Margin:		
Amortization of Joint Venture Rights	7,736	16,380
Change in Deferred Inflows of Resources	(1,298)	(2,597)
Change in Deferred Outflows of Resources	(231,766)	(463,532)
Changes in Assets and Liabilities:		
Customer Accounts Receivable	288,628	651,119
Refined Coal	-	-
Wholesale Receivable	3,607,192	368,524
Steam Sales Receivable	-	-
Inventories	(17,098)	(95,776)
Fuel	1,451,596	3,975,239
Prepaid Expenses	56,487	(418,727)
Accounts Payable	(2,050,402)	384,113
Net Pension Liability	97,144	194,288
Landfill Closure And Post Closure Liability	-	-
Health & Dental Insurance Provision	(117,600)	(95,528)
Other Post-Employment Benefit Provision	27,951	55,902
Accrued Payroll	(55,304)	143,690
Accrued Compensated Absences	27,218	65,296
Accrued Emission Allowance Expense	8	18
Consumers' Deposits	(3,295)	5,200
Accrued Property Taxes	11,009	22,018
Unearned Revenue	(79,013)	(158,025)
Special Non-Consumers' Deposits	-	-
Miscellaneous Accrued Expenses	(779,470)	(754,621)
Net Cash Flows from Operating Activities	**2,473,868**	**7,925,125**
Cash Flows From Noncapital Financing Activities:		
Principal Activity With Water Utility		
Interest Activity with Water Utility		
Principal Activity With Comm Utility		
Interest Activity With Comm Utility		
Net Cash Flows From Noncapital Financing Activities:	**-**	**-**
Cash Flows from Capital & Financing Activities:		
Capital Expenditures	(1,003,535)	(6,011,472)
Gain/(Loss) on Disposal of Assets	-	-
2026 Revenue Bond Issuance Proceeds	106,525,876	106,525,876
2026 Revenue Bond Principal and Interest	-	-
Net Cash Flows from Capital & Financing Activities	**105,522,341**	**100,514,404**
Cash Flows from Investing Activities:		
Purchase of Joint Venture Rights	(0)	-
Interest Received on Investments	292,854	430,463
Net Cash Flows from Investing Activities	**292,854**	**430,463**
Net Increase/(Decrease)	**108,289,063**	**108,869,992**
Cash and Investments at Beginning of Period	**73,710,182**	**73,129,254**
Cash and Investments at End of Period	**$ 181,999,246**	**$ 181,999,246**

Muscatine Power and Water - Electric Utility
Summary of Expenses
Current Month - February 2026

Summary of Expenses	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Purchased Electricity (555)							
Purchased Electricity - Energy	$ 2,748,927	$ 3,267,729	$ 3,231,061	518,802	15.9%	482,134	14.9%
Purchased Electricity - Demand	138,324	139,599	3,226	1,275	0.9%	(135,099)	NM
Total Purchased Electricity	**$ 2,887,251**	**$ 3,407,328**	**$ 3,234,287**	**$ 520,077**	**15.3%**	**$ 347,035**	**10.7%**
% of Operating Revenue	*31.5%*	*36.4%*	*33.8%*				
Generation							
Fuel: (501)							
Coal	2,018,519	1,833,752	1,973,210	(184,767)	-10.1%	(45,309)	-2.3%
Fuel Oil	79	125,258	18,476	125,179	99.9%	18,397	99.6%
Gas	24,559	30,000	10,956	5,441	18.1%	(13,603)	-124.2%
Coal Handling Expense (501-003)	14,953	12,310	24,080	(2,643)	-21.5%	9,127	37.9%
Landfill Operation Expense (501-925)	15,399	23,985	1,336	8,587	35.8%	(14,063)	NM
Emissions Allowance Expense (509)	8	-	3	(8)	-100.0%	(5)	-154.4%
Steam Expense:							
Boiler (502-004)	39,350	54,279	66,493	14,929	27.5%	27,143	40.8%
Pollution Control (502-005)	20,234	52,026	51,464	31,792	61.1%	31,230	60.7%
Electric Expense (505)	36,959	24,622	31,492	(12,338)	-50.1%	(5,467)	-17.4%
Miscellaneous Steam Power Expense (506)	71,111	68,974	220,734	(2,136)	-3.1%	149,623	67.8%
Maintenance:							
Structures (511)	13,152	27,591	22,834	14,439	52.3%	9,683	42.4%
Boiler Plant:							
Boiler (512-006)	113,471	106,210	53,489	(7,261)	-6.8%	(59,982)	-112.1%
Pollution Control (512-007)	78,882	37,498	31,324	(41,384)	-110.4%	(47,558)	-151.8%
Electric Plant (513-008)	29,883	16,018	96,498	(13,865)	-86.6%	66,616	69.0%
System Control (513-009)	-	-	256	-	NM	256	100.0%
Miscellaneous Steam Plant (514)	60,833	28,340	61,485	(32,493)	-114.7%	652	1.1%
Coal Handling Equipment (516)	21,084	31,548	31,453	10,464	33.2%	10,369	33.0%
System Control and Load Dispatch (556)	22,523	16,943	23,864	(5,580)	-32.9%	1,341	5.6%
Generation Labor	669,463	699,152	652,682	29,689	4.2%	(16,781)	-2.6%
Total Generation Expense	**$ 3,250,459**	**$ 3,188,505**	**$ 3,372,129**	**$ (61,955)**	**-1.9%**	**$ 121,669**	**3.6%**
% of Operating Revenue	*35.4%*	*34.0%*	*35.3%*				

Muscatine Power and Water - Electric Utility
Summary of Expenses
Current Month - February 2026

Summary of Expenses	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Transmission							
Load Dispatching (561)	$ 75,590	$ 41,402	$ 35,935	$ (34,187)	-82.6%	$ (39,655)	-110.4%
Station Expense (562)	867	608	222	(259)	-42.6%	(645)	-290.1%
Overhead Line Expense (563)	-	-	-	-	NM	-	NM
Transmission of Electricity by Others (565)	156,981	165,742	135,388	8,761	5.3%	(21,592)	-15.9%
Miscellaneous Transmission Expense (566)	5,842	4,761	803	(1,082)	-22.7%	(5,039)	-627.3%
Maintenance:							
Structures (569)	-	-	-	-	NM	-	NM
Station Equipment (570)	8,998	1,980	480	(7,018)	-354.4%	(8,518)	NM
Overhead Lines (571)	-	3,016	4,860	3,016	100.0%	4,860	100.0%
Tax on Rural Property (577)	8,430	3,104	5,085	(5,326)	-171.6%	(3,345)	-65.8%
Transmission Labor	111,390	105,519	103,184	(5,871)	-5.6%	(8,206)	-8.0%
Total Transmission Expense	**368,097**	**326,132**	**285,958**	**(41,965)**	**-12.9%**	**(82,139)**	**-28.7%**
% of Operating Revenue	*4.0%*	*3.5%*	*3.0%*				
Distribution							
Load Dispatching (581)	4,616	3,748	4,201	(867)	-23.1%	(415)	-9.9%
Station Expense (582)	12,640	3,879	9,250	(8,761)	-225.9%	(3,390)	-36.7%
Overhead Line Expense (583)	3,674	2,767	740	(907)	-32.8%	(2,934)	-396.6%
Vehicle Expense (589)	3,988	9,942	5,011	5,954	59.9%	1,023	20.4%
Underground Line Expense (584)	424	2,250	629	1,826	81.2%	205	32.6%
Street Lighting (585-418)	-	250	1,152	250	100.0%	1,152	100.0%
Signal Expense (585-419)	-	150	-	150	100.0%	-	NM
Meter Expense (586)	942	1,550	646	608	39.2%	(296)	-45.7%
Consumer Installation Expense (587)	-	-	-	-	NM	-	NM
Miscellaneous Distribution Expense (588)	51,134	27,185	30,175	(23,949)	-88.1%	(20,958)	-69.5%
Maintenance:							
Structures (591)	-	517	-	517	100.0%	-	NM
Station Equipment (592)	2,174	2,063	1,732	(111)	-5.4%	(442)	-25.5%
Overhead Lines (593)	18,757	15,417	34,237	(3,340)	-21.7%	15,480	45.2%
Underground Lines (594)	12,449	5,442	3,042	(7,007)	-128.8%	(9,407)	-309.2%
Line Transformers (595)	99	12,524	-	12,426	99.2%	(99)	-100.0%
Street Lighting (596-418)	850	3,167	2,039	2,316	73.1%	1,188	58.3%
Signal System (596-419)	26,792	1,667	1,207	(25,125)	NM	(25,584)	NM
Meters (597)	-	1,550	-	1,550	100.0%	-	NM
Miscellaneous Distribution Plant (598)	3,859	8,533	7,088	4,674	54.8%	3,228	45.5%
Tax on Rural Property (579)	2,518	3,500	1,519	982	28.1%	(999)	-65.8%
Distribution Labor	284,185	331,201	305,362	47,016	14.2%	21,176	6.9%
Total Distribution Expense	**$ 429,100**	**$ 437,302**	**$ 408,029**	**$ 8,202**	**1.9%**	**$ (21,071)**	**-5.2%**
% of Operating Revenue	*4.7%*	*4.7%*	*4.3%*				

Muscatine Power and Water - Electric Utility
Summary of Expenses
Current Month - February 2026

Summary of Expenses	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Customer Service Expense							
Customer Information Expense (909)	$ 4,549	$ 5,146	$ 764	$ 598	11.6%	$ (3,785)	-495.4%
Energy Efficiency Rebates (912)	670	5,527	600	4,857	87.9%	(70)	-11.7%
Electric Ranges/Dryers Maintenance (910)	0	-	(4)	(0)	-100.0%	(5)	NM
Electric Water Heaters Maintenance (911)	-	-	-	-	NM	-	NM
Total Customer Service Expense	**5,219**	**10,673**	**1,359**	**5,454**	**51.1%**	**(3,860)**	**-283.9%**
% of Operating Revenue	*0.1%*	*0.1%*	*0.0%*				
Consumer Accounts							
Meter Reading Expense (902)	279	352	347	73	20.8%	69	19.7%
Consumer Records and Collection (901/903)	9,160	12,176	12,488	3,016	24.8%	3,328	26.6%
Uncollectible Accounts Expense (904)	7,068	7,068	5,331	-	0.0%	(1,737)	-32.6%
Total Consumer Accounts Expense	**16,507**	**19,596**	**18,166**	**3,089**	**15.8%**	**1,660**	**9.1%**
% of Operating Revenue	*0.2%*	*0.2%*	*0.2%*				
Administrative and General							
Office Supplies and Expenses (921)	24,835	17,293	15,460	(7,542)	-43.6%	(9,374)	-60.6%
Outside Services Employed (923)	751,224	49,901	75,961	(701,323)	NM	(675,263)	-889.0%
Property Insurance (924)	125,692	118,699	120,181	(6,993)	-5.9%	(5,511)	-4.6%
Casualty Ins, Injuries & Damages (925)	61,716	74,309	(1,258)	12,593	16.9%	(62,974)	NM
Employee Benefits (926)	428,527	381,244	385,284	(47,282)	-12.4%	(43,243)	-11.2%
Employee Pensions (926-PEN)	97,144	97,144	180,200	-	0.0%	83,056	46.1%
Fringe Benefits Charged to Constr. (927)	(10,562)	(35,417)	(15,908)	(24,855)	-70.2%	(5,347)	-33.6%
Regulatory Commission (928)	9,877	9,266	9,833	(612)	-6.6%	(44)	-0.5%
Miscellaneous General Expense (930)	82,099	86,126	70,982	4,026	4.7%	(11,117)	-15.7%
A&G Adder (930-AGA)	(80,272)	(253,525)	-	(173,253)	-68.3%	80,272	NM
Maintenance of General Plant (932)	63,014	80,605	64,718	17,590	21.8%	1,704	2.6%
Maintenance of A/O Center (934)	33,649	17,328	36,047	(16,321)	-94.2%	2,397	6.7%
Administrative and General Labor	393,632	422,929	382,761	29,297	6.9%	(10,871)	-2.8%
Total Administrative and General	**1,980,575**	**1,065,902**	**1,324,260**	**(914,674)**	**-85.8%**	**(656,316)**	**-49.6%**
% of Operating Revenue	*21.6%*	*11.4%*	*13.8%*				
TOTAL OPERATING EXPENSES	**$ 8,937,209**	**$ 8,455,437**	**$ 8,644,187**	**$ (481,772)**	**-5.7%**	**$ (293,021)**	**-3.4%**
% of Operating Revenue	*97.4%*	*90.2%*	*90.4%*				
Depreciation							
Generation Depreciation (558)	356,579	453,819	357,921	97,240	21.4%	1,342	0.4%
Plant Decomissioning Depreciation (407)	407,363	380,032	132,796	(27,331)	-7.2%	(274,568)	-206.8%
Transmission Depreciation (576)	87,674	93,437	86,295	5,763	6.2%	(1,379)	-1.6%
Distribution Depreciation (578)	89,025	90,239	77,783	1,215	1.3%	(11,242)	-14.5%
A&G Depreciation (933)	79,867	82,723	67,701	2,857	3.5%	(12,166)	-18.0%
Subscription-Based IT Arrangements (428)	37,304	25,466	25,115	(11,838)	-46.5%	(12,190)	-48.5%
Total Depreciation	**$ 1,057,812**	**$ 1,125,717**	**$ 747,610**	**$ 67,905**	**6.0%**	**$ (310,202)**	**-41.5%**
% of Operating Revenue	*11.5%*	*12.0%*	*7.8%*				

Muscatine Power and Water - Electric Utility
Summary of Expenses
Year To Date - February 2026

Summary of Expenses	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Purchased Electricity (555)							
Purchased Electricity - Energy	$ 10,059,879	$ 7,477,998	$ 6,834,256	(2,581,881)	-34.5%	(3,225,624)	-47.2%
Purchased Electricity - Demand	228,114	294,155	6,797	66,041	22.5%	(221,317)	NM
Total Purchased Electricity	**$ 10,287,993**	**$ 7,772,153**	**$ 6,841,052**	**$ (2,515,840)**	**-32.4%**	**$ (3,446,941)**	**-50.4%**
% of Operating Revenue	*39.0%*	*36.8%*	*35.2%*				
Generation							
Fuel: (501)							
Coal	4,550,462	4,317,497	3,935,329	(232,964)	-5.4%	(615,133)	-15.6%
Fuel Oil	1,221	125,517	26,426	124,296	99.0%	25,205	95.4%
Gas	29,788	30,000	15,046	212	0.7%	(14,741)	-98.0%
Coal Handling Expense (501-003)	34,352	25,219	36,401	(9,133)	-36.2%	2,050	5.6%
Landfill Operation Expense (501-925)	30,316	48,221	28,835	17,905	37.1%	(1,481)	-5.1%
Emissions Allowance Expense (509)	18	-	8	(18)	-100.0%	(10)	-116.2%
Steam Expense:							
Boiler (502-004)	110,660	111,960	127,811	1,299	1.2%	17,151	13.4%
Pollution Control (502-005)	36,826	79,051	72,239	42,225	53.4%	35,413	49.0%
Electric Expense (505)	73,532	49,244	65,249	(24,288)	-49.3%	(8,283)	-12.7%
Miscellaneous Steam Power Expense (506)	175,377	174,615	268,020	(763)	-0.4%	92,643	34.6%
Maintenance:							
Structures (511)	40,308	55,182	67,045	14,874	27.0%	26,737	39.9%
Boiler Plant:							
Boiler (512-006)	213,294	212,420	90,628	(874)	-0.4%	(122,665)	-135.4%
Pollution Control (512-007)	129,165	74,995	67,294	(54,170)	-72.2%	(61,871)	-91.9%
Electric Plant (513-008)	67,312	32,935	102,113	(34,377)	-104.4%	34,801	34.1%
System Control (513-009)	-	-	334	-	NM	334	100.0%
Miscellaneous Steam Plant (514)	113,064	56,680	114,844	(56,384)	-99.5%	1,781	1.6%
Coal Handling Equipment (516)	39,627	118,830	53,269	79,202	66.7%	13,642	25.6%
System Control and Load Dispatch (556)	31,217	34,886	45,459	3,668	10.5%	14,242	31.3%
Generation Labor	1,462,913	1,398,304	1,448,323	(64,609)	-4.6%	(14,590)	-1.0%
Total Generation Expense	**$ 7,139,451**	**$ 6,945,554**	**$ 6,564,675**	**$ (193,897)**	**-2.8%**	**$ (574,776)**	**-8.8%**
% of Operating Revenue	*27.1%*	*32.8%*	*33.7%*				

Muscatine Power and Water - Electric Utility
Summary of Expenses
Year To Date - February 2026

Summary of Expenses	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Transmission							
Load Dispatching (561)	$ 102,833	$ 89,305	$ 78,319	$ (13,528)	-15.1%	$ (24,514)	-31.3%
Station Expense (562)	5,433	1,217	2,636	(4,216)	-346.5%	(2,797)	-106.1%
Overhead Line Expense (563)	-	-	-	-	NM	-	NM
Transmission of Electricity by Others (565)	318,833	331,484	282,819	12,650	3.8%	(36,014)	-12.7%
Miscellaneous Transmission Expense (566)	53,456	9,131	4,798	(44,325)	-485.4%	(48,659)	NM
Maintenance:							
Structures (569)	-	-	-	-	NM	-	NM
Station Equipment (570)	16,493	3,960	5,864	(12,533)	-316.5%	(10,629)	-181.3%
Overhead Lines (571)	-	6,032	9,706	6,032	100.0%	9,706	100.0%
Tax on Rural Property (577)	16,860	6,208	10,170	(10,651)	-171.6%	(6,690)	-65.8%
Transmission Labor	229,022	211,038	244,961	(17,984)	-8.5%	15,939	6.5%
Total Transmission Expense	**742,930**	**658,374**	**639,272**	**(84,556)**	**-12.8%**	**(103,658)**	**-16.2%**
% of Operating Revenue	*2.8%*	*3.1%*	*3.3%*				
Distribution							
Load Dispatching (581)	8,401	7,496	7,986	(905)	-12.1%	(415)	-5.2%
Station Expense (582)	19,592	7,758	13,332	(11,833)	-152.5%	(6,260)	-47.0%
Overhead Line Expense (583)	5,765	5,533	4,267	(232)	-4.2%	(1,499)	-35.1%
Vehicle Expense (589)	7,497	19,885	12,963	12,388	62.3%	5,466	42.2%
Underground Line Expense (584)	1,816	4,500	1,413	2,684	59.7%	(403)	-28.5%
Street Lighting (585-418)	-	500	1,535	500	100.0%	1,535	100.0%
Signal Expense (585-419)	-	300	-	300	100.0%	-	NM
Meter Expense (586)	1,694	3,100	8,289	1,406	45.4%	6,595	79.6%
Consumer Installation Expense (587)	-	-	-	-	NM	-	NM
Miscellaneous Distribution Expense (588)	71,342	52,795	73,133	(18,548)	-35.1%	1,790	2.4%
Maintenance:							
Structures (591)	-	517	-	517	100.0%	-	NM
Station Equipment (592)	4,400	4,127	7,500	(273)	-6.6%	3,100	41.3%
Overhead Lines (593)	25,248	30,833	41,202	5,586	18.1%	15,954	38.7%
Underground Lines (594)	68,128	10,883	10,592	(57,245)	-526.0%	(57,536)	-543.2%
Line Transformers (595)	612	23,549	-	22,937	97.4%	(612)	-100.0%
Street Lighting (596-418)	3,525	6,333	3,894	2,809	44.3%	369	9.5%
Signal System (596-419)	28,630	3,333	1,930	(25,297)	-758.9%	(26,700)	NM
Meters (597)	-	1,600	-	1,600	100.0%	-	NM
Miscellaneous Distribution Plant (598)	9,796	17,066	12,463	7,271	42.6%	2,668	21.4%
Tax on Rural Property (579)	5,036	7,001	3,038	1,965	28.1%	(1,998)	-65.8%
Distribution Labor	592,370	662,402	650,167	70,032	10.6%	57,796	8.9%
Total Distribution Expense	**$ 853,852**	**$ 869,513**	**$ 853,704**	**$ 15,661**	**1.8%**	**$ (148)**	**0.0%**
% of Operating Revenue	*3.2%*	*4.1%*	*4.4%*				

Muscatine Power and Water - Electric Utility
Summary of Expenses
Year To Date - February 2026

Summary of Expenses	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Customer Service Expense							
Customer Information Expense (909)	$ 7,292	$ 10,292	$ 4,866	$ 3,000	29.1%	$ (2,427)	-49.9%
Energy Efficiency Rebates (912)	3,035	11,053	2,825	8,018	72.5%	(210)	-7.4%
Electric Ranges/Dryers Maintenance (910)	(12)	-	(16)	12	NM	(4)	-25.8%
Electric Water Heaters Maintenance (911)	-	-	-	-	NM	-	NM
Total Customer Service Expense	**10,316**	**21,346**	**7,675**	**11,030**	**51.7%**	**(2,641)**	**-34.4%**
% of Operating Revenue	*0.0%*	*0.1%*	*0.0%*				
Consumer Accounts							
Meter Reading Expense (902)	568	704	686	136	19.3%	118	17.2%
Consumer Records and Collection (901/903)	12,609	24,352	25,808	11,743	48.2%	13,199	51.1%
Uncollectible Accounts Expense (904)	14,136	14,136	10,662	-	0.0%	(3,474)	-32.6%
Total Consumer Accounts Expense	**27,313**	**39,192**	**37,156**	**11,879**	**30.3%**	**9,843**	**26.5%**
% of Operating Revenue	*0.1%*	*0.2%*	*0.2%*				
Administrative and General							
Office Supplies and Expenses (921)	58,174	44,776	36,874	(13,398)	-29.9%	(21,299)	-57.8%
Outside Services Employed (923)	764,021	127,135	113,479	(636,885)	-500.9%	(650,542)	-573.3%
Property Insurance (924)	249,033	237,398	240,363	(11,635)	-4.9%	(8,671)	-3.6%
Casualty Ins, Injuries & Damages (925)	113,358	124,727	75,848	11,369	9.1%	(37,510)	-49.5%
Employee Benefits (926)	897,837	766,538	835,745	(131,298)	-17.1%	(62,092)	-7.4%
Employee Pensions (926-PEN)	194,288	194,288	360,399	-	0.0%	166,111	46.1%
Fringe Benefits Charged to Constr. (927)	(31,296)	(70,833)	(32,920)	(39,538)	-55.8%	(1,625)	-4.9%
Regulatory Commission (928)	20,747	18,531	20,337	(2,216)	-12.0%	(410)	-2.0%
Miscellaneous General Expense (930)	122,995	149,540	109,204	26,545	17.8%	(13,791)	-12.6%
A&G Adder (930-AGA)	(189,003)	(507,049)	(17,052)	(318,046)	-62.7%	171,952	NM
Maintenance of General Plant (932)	167,280	172,361	134,137	5,081	2.9%	(33,143)	-24.7%
Maintenance of A/O Center (934)	90,584	53,184	60,947	(37,400)	-70.3%	(29,637)	-48.6%
Administrative and General Labor	829,253	845,858	840,909	16,605	2.0%	11,657	1.4%
Total Administrative and General	**3,287,270**	**2,156,455**	**2,778,271**	**(1,130,816)**	**-52.4%**	**(508,999)**	**-18.3%**
% of Operating Revenue	*12.5%*	*10.2%*	*14.3%*				
TOTAL OPERATING EXPENSES	**$ 22,349,126**	**$ 18,462,586**	**$ 17,721,806**	**$ (3,886,540)**	**-21.1%**	**$ (4,627,319)**	**-26.1%**
% of Operating Revenue	*84.7%*	*87.3%*	*91.1%*				
Depreciation							
Generation Depreciation (558)	713,094	907,638	715,842	194,544	21.4%	2,748	0.4%
Plant Decomissioning Depreciation (407)	814,726	760,065	265,591	(54,662)	-7.2%	(549,135)	-206.8%
Transmission Depreciation (576)	175,348	186,873	172,082	11,525	6.2%	(3,266)	-1.9%
Distribution Depreciation (578)	177,815	180,478	155,419	2,663	1.5%	(22,396)	-14.4%
A&G Depreciation (933)	159,733	165,447	134,711	5,714	3.5%	(25,022)	-18.6%
Subscription-Based IT Arrangements (428)	74,095	50,933	50,471	(23,162)	-45.5%	(23,625)	-46.8%
Total Depreciation	**$ 2,114,811**	**$ 2,251,434**	**$ 1,494,116**	**$ 136,623**	**6.1%**	**$ (620,695)**	**-41.5%**
% of Operating Revenue	*8.0%*	*10.6%*	*7.7%*				

Muscatine Power and Water - Electric Utility
Rates
February 2026

Current Month

Retail Sales		Results			Variance			
	UOM	Actual	Budget	Prior Year	Vs Budget ¢	%	Vs Prior Yr ¢	%
Residential	¢/kWh	12.607	13.043	12.633	(0.436)	-3.3%	(0.026)	-0.2%
Commercial I		11.976	12.431	11.971	(0.456)	-3.7%	0.005	0.0%
Commercial II		9.555	9.692	9.760	(0.137)	-1.4%	(0.205)	-2.1%
Industrial I		7.621	7.533	7.752	0.089	1.2%	(0.130)	-1.7%
Industrial II		6.257	6.458	6.479	(0.201)	-3.1%	(0.222)	-3.4%
City Enterprise Funds		8.639	9.287	9.068	(0.648)	-7.0%	(0.429)	-4.7%
Inter-Utility		7.443	7.699	7.773	(0.256)	-3.3%	(0.330)	-4.2%
Total Retail Sales	¢/kWh	**7.910**	**8.039**	**8.032**	**(0.129)**	**-1.6%**	**(0.122)**	**-1.5%**

Year To Date

Retail Sales		Results			Variance			
	UOM	Actual	Budget	Prior Year	Vs Budget ¢	%	Vs Prior Yr ¢	%
Residential	¢/kWh	12.553	12.925	12.518	(0.372)	-2.9%	0.035	0.3%
Commercial I		11.996	12.352	11.955	(0.357)	-2.9%	0.041	0.3%
Commercial II		9.247	9.461	9.436	(0.214)	-2.3%	(0.188)	-2.0%
Industrial I		7.459	7.419	7.566	0.039	0.5%	(0.107)	-1.4%
Industrial II		6.094	6.306	6.306	(0.213)	-3.4%	(0.212)	-3.4%
City Enterprise Funds		8.625	9.058	9.127	(0.433)	-4.8%	(0.502)	-5.5%
Inter-Utility		7.593	7.662	7.681	(0.069)	-0.9%	(0.088)	-1.1%
Total Retail Sales	¢/kWh	**7.746**	**7.881**	**7.853**	**(0.135)**	**-1.7%**	**(0.107)**	**-1.4%**

Energy Adjustment Clause Rates

		Results			Variance			
	UOM	Actual	Budget	Prior Year	Vs Budget ¢	%	Vs Prior Yr ¢	%
January	¢/kWh	(0.3176)	(0.1391)	0.2409	(0.179)	NM	(0.559)	-231.8%
February		(0.3038)	(0.0725)	0.3033	(0.231)	NM	(0.607)	-200.2%
March		(0.7195)	-	0.3333	(0.720)	NM	(1.053)	-315.9%
April		(0.7480)	-	0.3358	(0.748)	NM	(1.084)	-322.8%
May		-	-	0.3438	-	NM	(0.344)	-100.0%
June		-	-	0.3047	-	NM	(0.305)	-100.0%
July		-	-	-	-	NM	-	NM
August		-	-	-	-	NM	-	NM
September		-	0.0394	(0.2643)	(0.039)	-100.0%	0.264	NM
October		-	0.0273	(0.2438)	(0.027)	-100.0%	0.244	NM
November		-	0.0299	(0.3521)	(0.030)	-100.0%	0.352	NM
December		-	-	(0.2573)	-	NM	0.257	NM

Reflecting when rates are effective; based on rolling six-month costs from two months prior

Muscatine Power and Water - Electric Utility
Statistical Data
February 2026

Current Month

	2026	Prior Year	*Vs Prior Year %*
Total Fuel Cost Per Million Btu	$2.37	$2.52	-5.9%
Coal Burn Cost Per Million Btu	$2.26	$2.41	-6.1%
Total Fuel Cost Per Net MWh Generated	$27.41	$28.41	-3.5%
Coal Burn Cost Per Net MWh Generated	$26.21	$27.24	-3.8%
Net Peak Monthly Demand-kW	119,440	124,080	-3.7%
Date of Peak	2/11/2026	2/13/2025	
Hour of Peak	08:00	08:00	

Average Month Temperature	2026	Prior Year
Average Temperature for Muscatine - February	32.3°	24.6°

Services	2026	Prior Year	*Vs Prior Year %*
Residential	10,107	10,127	-0.2%
Commercial I	1,373	1,363	0.7%
Commercial II	164	156	5.1%
Industrial I	14	14	0.0%
Industrial II	2	2	0.0%
City Enterprise Funds	26	26	0.0%
Inter-Utility	35	34	2.9%
Total	**11,721**	**11,722**	**0.0%**

Year To Date

	2026	Prior Year	*Vs Prior Year %*
Total Fuel Cost Per Million Btu	$2.37	$2.50	-5.3%
Coal Burn Cost Per Million Btu	$2.28	$2.39	-4.6%
Total Fuel Cost Per Net MWh Generated	$27.62	$28.39	-2.7%
Coal Burn Cost Per Net MWh Generated	$26.61	$27.15	-2.0%
Net Peak Monthly Demand-kW	122,740	124,080	-1.1%
Date of Peak	1/26/2026	2/13/2025	
Hour of Peak	08:00	08:00	

Record

Net Peak Monthly Demand-kW	149,900
Date of Peak	7/29/99
Hour of Peak	16:00

Muscatine Power and Water - Electric Utility
Wholesale Margins Analysis - Excluding Wind
February 2026

Current Month

	Actual	$/MWh	Budget	$/MWh	Prior Year	$/MWh
Wholesale MWh Sales	**77,004**		**68,556**		**72,356**	
Wholesale Sales						
Wholesale Sales - Energy	$ 3,190,488	$ 41.43	$ 3,282,216	$ 47.88	$ 3,588,812	$ 49.60
Wholesale Sales - Capacity	222,715		180,064		3,079	
Total Wholesale Sales	**$ 3,413,203**	**$ 44.33**	**$ 3,462,280**	**$ 50.50**	**$ 3,591,890**	**$ 49.64**
Variable Costs						
Fuel (Coal, Gas, Fuel Oil)	2,043,133	$ 26.53	1,988,068	$ 29.00	2,000,717	$ 27.65
Emissions Allow. (NO_x, SO_2)	8	0.00	-	-	3	0.00
Total Variable Costs	**$ 2,043,140**	**$ 26.53**	**$ 1,988,068**	**$ 29.00**	**$ 2,000,720**	**$ 27.65**
Gross Margin	**$ 1,370,063**	**$ 17.79**	**$ 1,474,212**	**$ 21.50**	**$ 1,591,170**	**$ 21.99**

Wholesale MWh Purchases	**70,355**		**71,560**		**72,384**	
Wholesale Purchases						
Energy	$ 2,604,869	$ 37.02	$ 3,105,696	$ 43.40	$ 3,078,454	$ 42.53
Demand	138,324		139,599		3,226	
Total Wholesale Purchases	**$ 2,743,194**	**$ 38.99**	**$ 3,245,295**	**$ 45.35**	**$ 3,081,680**	**$ 42.57**

Year To Date

	Actual	$/MWh	Budget	$/MWh	Prior Year	$/MWh
Wholesale MWh Sales	**170,992**		**161,617**		**144,794**	
Wholesale Sales						
Wholesale Sales - Energy	$ 14,156,919	$ 82.79	$ 8,706,968	$ 53.87	$ 7,391,942	$ 51.05
Wholesale Sales - Capacity	395,175		379,420		6,487	
Total Wholesale Sales	**$ 14,552,094**	**$ 85.10**	**$ 9,086,388**	**$ 56.22**	**$ 7,398,429**	**$ 51.10**
Variable Costs						
Fuel (Coal, Gas, Fuel Oil)	4,581,446	$ 26.79	4,471,131	$ 27.67	3,972,554	$ 27.44
Emissions Allow. (NO_x, SO_2)	18	0.00	-	-	8	0.00
Total Variable Costs	**$ 4,581,464**	**$ 26.79**	**$ 4,471,131**	**$ 27.67**	**$ 3,972,562**	**$ 27.44**
Gross Margin	**$ 9,970,630**	**$ 58.31**	**$ 4,615,257**	**$ 28.56**	**$ 3,425,867**	**$ 23.66**

Wholesale MWh Purchases	**149,121**		**149,781**		**152,051**	
Wholesale Purchases						
Energy	$ 9,758,934	$ 65.44	$ 7,156,326	$ 47.78	$ 6,492,940	$ 42.70
Demand	228,114		294,155		6,797	
Total Wholesale Purchases	**$ 9,987,048**	**$ 66.97**	**$ 7,450,481**	**$ 49.74**	**$ 6,499,737**	**$ 42.75**

Muscatine Power and Water - Electric Utility
Wind Margins Analysis
February 2026

Current Month

	Actual	$/MWh	Budget	$/MWh	Prior Year	$/MWh
Revenue						
Wholesale Sales - MWh	4,555		4,999		4,919	
Wholesale Sales - Energy	$ 53,497	$ 11.74	$ 68,152	$ 13.63	$ 90,536	$ 18.41
Wholesale Sales - Capacity	4,182		5,299		147	
Total Wholesale Sales	**$ 57,678**	$ 12.66	**$ 73,451**	$ 14.69	**$ 90,683**	$ 18.44
Expense						
Purchased Electricity - MWh	4,555		4,999		4,919	
Purchased Electricity	**$ 144,058**	31.63	**$ 162,033**	32.41	**$ 152,607**	31.03
Gross Margin/(Loss)	**$ (86,379)**	(18.96)	**$ (88,582)**	(17.72)	**$ (61,923)**	(12.59)
RECs Sold	*5,801*		*-*		*4,198*	
REC Net Proceeds	*$ 16,185*	*2.79*	*$ 12,131*	*-*	*$ 11,712*	*2.79*
Wind Net Margin/(Loss)	**$ (70,195)**		**$ (76,451)**		**$ (50,211)**	

Year To Date

	Actual	$/MWh	Budget	$/MWh	Prior Year	$/MWh
Revenue						
Wholesale Sales - MWh	9,415		9,930		10,988	
Wholesale Sales - Energy	$ 178,137	$ 18.92	$ 148,898	$ 14.99	$ 99,125	$ 9.02
Wholesale Sales - Capacity	8,862		11,165		310	
Total Wholesale Sales	**$ 186,999**	$ 19.86	**$ 160,064**	$ 16.12	**$ 99,435**	$ 9.05
Expense						
Purchased Electricity - MWh	9,415		9,930		10,988	
Purchased Electricity	**$ 300,945**	31.97	**$ 321,673**	32.39	**$ 341,315**	31.06
Gross Margin/(Loss)	**$ (113,946)**	(12.10)	**$ (161,609)**	(16.27)	**$ (241,881)**	(22.01)
RECs Sold	*11,247*		*-*		*16,158*	
REC Net Proceeds	*$ 31,379*	*2.79*	*$ 24,262*	*-*	*$ 45,081*	*2.79*
Wind Net Margin/(Loss)	**$ (82,567)**		**$ (137,347)**		**$ (196,800)**	

Wind Curtailment Expense	**Month**	**Year To Date**
(incl. in Purchased Electricity)	$ -	$ 2,148

	Actual
RECs at end of Prior Year	3,825
RECs Added This Year	16,105
RECs Sold This Year	11,267
Number of RECs on hand	8,663
Market Value per REC	$ 2.79
Value of RECs on Hand	$ 24,170

Muscatine Power and Water

Water Utility

Financial Operating Statements & Balance Sheets

February 2026

Muscatine Power and Water
Water Utility
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Muscatine Power and Water - Water Utility
Classification of Water Distribution
February 2026

Current Month

Distribution	Results			*Variance*				Average Use Per Customer	
	Actuals	Budget	Prior Year	Vs Budget	%	Vs Prior Year	%	Actual	*Prior Year*
Water Distribution - 1,000 Gallons									
Contract Customers	635,419	600,400	616,371	*35,018*	*5.8%*	*19,048*	*3.1%*	*317,709*	*308,185*
Power Plants	28,986	20,229	23,489	*8,756*	*43.3%*	*5,496*	*23.4%*	*14,493*	*11,745*
Residential	31,927	31,710	31,257	*217*	*0.7%*	*670*	*2.1%*	*3.6*	*3.5*
Commercial	25,374	24,334	22,141	*1,040*	*4.3%*	*3,234*	*14.6%*	*23*	*20*
Total Metered Customers	**721,706**	**676,674**	**693,258**	***45,032***	***6.7%***	***28,448***	***4.1%***	***71***	***67***
City Use	(376)	103	140	*(479)*	*NM*	*(516)*	*NM*		
Losses, Flushing & Cycle Billing	12,001	40,600	31,049	*(28,599)*	*-70.4%*	*(19,048)*	*-61.3%*		
TOTAL WATER PUMPED	**733,331**	**717,377**	**724,447**	***15,954***	***2.2%***	***8,884***	***1.2%***		

Year To Date

Distribution	Results			*Variance*				Average Use Per Customer	
	Actuals	Budget	Prior Year	Vs Budget	%	Vs Prior Year	%	Actual	*Prior Year*
Water Distribution - 1,000 Gallons									
Contract Customers	1,268,071	1,223,833	1,251,334	*44,238*	*3.6%*	*16,737*	*1.3%*	*634,035*	*628,193*
Power Plants	60,269	46,772	46,674	*13,497*	*28.9%*	*13,594*	*29.1%*	*30,134*	*27,154*
Residential [fn1]	67,477	65,875	65,573	*1,602*	*2.4%*	*1,904*	*2.9%*	*7.5*	*7.2*
Commercial [fn2]	50,883	49,352	45,982	*1,531*	*3.1%*	*4,901*	*10.7%*	*46*	*41*
Total Metered Customers	**1,446,699**	**1,385,831**	**1,409,563**	***60,868***	***4.4%***	***37,136***	***2.6%***	***143***	***137***
City Use	588	205	275	*383*	*187.2%*	*313*	*113.8%*		
Losses, Flushing & Cycle Billing	20,726	83,150	71,420	*(62,424)*	*-75.1%*	*(50,693)*	*-71.0%*		
TOTAL WATER PUMPED	**1,468,014**	**1,469,186**	**1,481,258**	***(1,172)***	***-0.1%***	***(13,245)***	***-0.9%***		

Muscatine Power and Water - Water Utility
Statements of Revenues, Expenses, and Changes in Net Position
Current Month - February 2026

Income Statement	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Revenue from Water Sales							
Contract Customers	$ 392,280	$ 388,429	$ 378,546	$ 3,851	1.0%	$ 13,735	3.6%
Power Plants	32,256	29,279	28,518	2,976	10.2%	3,738	13.1%
Residential	223,873	223,179	216,987	694	0.3%	6,886	3.2%
Commercial	67,265	65,958	61,320	1,306	2.0%	5,944	9.7%
Water Sales Revenue	**715,674**	**706,846**	**685,371**	**8,828**	**1.2%**	**30,302**	**4.4%**
Other Revenue							
Penalty Revenue	1,021	1,100	1,046	(79)	-7.2%	(25)	-2.4%
Merchandise & Job Sales-Net	90	833	818	(743)	-89.2%	(727)	-88.9%
Miscellaneous Revenue	3,122	3,789	1,571	(667)	-17.6%	1,551	98.8%
Total Other Revenue	**4,233**	**5,722**	**3,434**	**(1,489)**	**-26.0%**	**799**	**23.3%**
Operating Revenue	**719,907**	**712,568**	**688,805**	**7,339**	**1.0%**	**31,102**	**4.5%**
Operating Expense							
Purchased Electricity	83,548	87,558	86,906	4,009	4.6%	3,357	3.9%
Chemicals	46,368	44,603	46,060	(1,765)	-4.0%	(309)	-0.7%
Operations	24,893	22,850	25,580	(2,044)	-8.9%	687	2.7%
Maintenance	50,427	37,114	25,190	(13,312)	-35.9%	(25,237)	-100.2%
Direct Labor	111,376	113,909	108,125	2,533	2.2%	(3,251)	-3.0%
A&G Labor	60,182	63,350	63,218	3,168	5.0%	3,036	4.8%
A&G	78,542	99,131	120,022	20,590	20.8%	41,481	34.6%
Total Operating Expense	**455,336**	**468,515**	**475,101**	**13,179**	**2.8%**	**19,765**	**4.2%**
Operating Margin	**264,571**	**244,053**	**213,704**	**20,517**	**8.4%**	**50,867**	**23.8%**
Depreciation & Amortization	106,662	103,516	97,957	(3,146)	-3.0%	(8,705)	-8.9%
Operating Income	**157,909**	**140,537**	**115,747**	**17,371**	**12.4%**	**42,161**	**36.4%**
Nonoperating Income/(Expense)							
Interest Income	55,989	23,691	16,361	32,298	136.3%	39,628	242.2%
Interest Expense	(34,856)	(34,263)	(41,512)	(593)	-1.7%	6,655	16.0%
Other Non-Operating Income	-	-	-	-	NM	-	NM
Gain/(Loss) on Disposal of Assets	-	-	-	-	NM	-	NM
Net Nonoperating Income/(Expense)	**21,133**	**(10,573)**	**(25,150)**	**31,705**	**NM**	**46,283**	**NM**
Net Income/(Loss) before Capital Contributions	**179,041**	**129,965**	**90,597**	**49,077**	**37.8%**	**88,445**	**97.6%**
Capital Contributions	-	-	-	-	NM	-	NM
Net Income/(Loss)	**$ 179,041**	**$ 129,965**	**$ 90,597**	**$ 49,077**	**37.8%**	**$ 88,445**	**97.6%**
Beginning Net Position	**31,877,763**	**31,961,394**	**23,070,675**	**(83,631)**	-0.3%	**8,807,088**	38.2%
Change in Net Position	**179,041**	**129,965**	**90,597**	**49,077**	37.8%	**88,445**	97.6%
ENDING NET POSITION	**$ 32,056,804**	**$ 32,091,358**	**$ 23,161,272**	**$ (34,554)**	**-0.1%**	**$ 8,895,532**	**38.4%**

Muscatine Power and Water - Water Utility
Statements of Revenues, Expenses, and Changes in Net Position
Year To Date - February 2026

Income Statement	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Revenue from Water Sales							
Contract Customers	$ 783,535	$ 784,360	$ 775,589	$ (825)	-0.1%	$ 7,946	1.0%
Power Plants	65,238	60,622	56,924	4,617	7.6%	8,314	14.6%
Residential	456,281	452,090	440,687	4,190	0.9%	15,593	3.5%
Commercial	134,662	132,826	124,600	1,836	1.4%	10,061	8.1%
Water Sales Revenue	**1,439,715**	**1,429,898**	**1,397,801**	**9,818**	**0.7%**	**41,914**	**3.0%**
Other Revenue							
Penalty Revenue	1,020	1,100	1,046	(80)	-7.3%	(26)	-2.4%
Merchandise & Job Sales-Net	90	1,667	1,179	(1,576)	-94.6%	(1,089)	-92.3%
Miscellaneous Revenue	3,193	7,577	3,832	(4,385)	-57.9%	(640)	-16.7%
Total Other Revenue	**4,303**	**10,344**	**6,057**	**(6,041)**	**-58.4%**	**(1,754)**	**-29.0%**
Operating Revenue	**1,444,018**	**1,440,242**	**1,403,858**	**3,777**	**0.3%**	**40,160**	**2.9%**
Operating Expense							
Purchased Electricity	169,843	182,462	175,241	12,619	6.9%	5,398	3.1%
Chemicals	86,272	91,204	91,503	4,932	5.4%	5,231	5.7%
Operations	47,197	46,227	46,449	(970)	-2.1%	(748)	-1.6%
Maintenance	137,660	74,229	77,754	(63,431)	-85.5%	(59,906)	-77.0%
Direct Labor	246,572	227,818	248,305	(18,754)	-8.2%	1,733	0.7%
A&G Labor	124,738	126,700	131,595	1,962	1.5%	6,857	5.2%
A&G	198,603	203,775	210,471	5,172	2.5%	11,868	5.6%
Total Operating Expense	**1,010,885**	**952,414**	**981,318**	**(58,471)**	**-6.1%**	**(29,567)**	**-3.0%**
Operating Margin	**433,134**	**487,828**	**422,540**	**(54,694)**	**-11.2%**	**10,594**	**2.5%**
Depreciation & Amortization	213,079	207,032	195,655	(6,046)	-2.9%	(17,424)	-8.9%
Operating Income	**220,055**	**280,795**	**226,885**	**(60,740)**	**-21.6%**	**(6,830)**	**-3.0%**
Nonoperating Income/(Expense)							
Interest Income	74,769	47,382	34,454	27,387	57.8%	40,315	117.0%
Interest Expense	(69,728)	(68,527)	(83,065)	(1,201)	-1.8%	13,337	16.1%
Other Non-Operating Income	-	-	-	-	NM	-	NM
Gain/(Loss) on Disposal of Assets	-	-	-	-	NM	-	NM
Net Nonoperating Income/(Expense)	**5,041**	**(21,145)**	**(48,611)**	**26,186**	**NM**	**53,652**	**NM**
Net Income/(Loss) before Capital Contributions	**225,096**	**259,650**	**178,274**	**(34,554)**	**-13.3%**	**46,822**	**26.3%**
Capital Contributions	-	-	-	-	NM	-	NM
Net Income/(Loss)	**$ 225,096**	**$ 259,650**	**$ 178,274**	**$ (34,554)**	**-13.3%**	**$ 46,822**	**26.3%**
Beginning Net Position	**31,831,708**	**31,831,708**	**22,982,998**	**-**	0.0%	**8,848,710**	38.5%
Change in Net Position	**225,096**	**259,650**	**178,274**	**(34,554)**	-13.3%	**46,822**	26.3%
ENDING NET POSITION	**$ 32,056,804**	**$ 32,091,358**	**$ 23,161,272**	**$ (34,554)**	**-0.1%**	**$ 8,895,532**	**38.4%**

Muscatine Power and Water - Water Utility
Statements of Net Position
February 2026

ASSETS	2025	Prior Month	Prior Year
Current Assets:			
Unrestricted Assets			
Cash - interest bearing	$ 1,131,951	$ 1,139,734.35	$ 3,348,552
Investments - Securities	1,250,000	$ 1,250,000.00	1,550,000
PFAS - Cash & Investments	4,363,923	$ 4,363,923.17	-
Receivables:			
Consumer Accounts	887,442	893,477	877,979
Interest	117,775	66,913	45,256
Settlement	597,652	597,652	-
Inventories	752,286	782,194	498,350
Prepaid Expenses	107,642	107,489	87,884
Total Unrestricted Current Assets	**9,208,672**	**9,201,383**	**6,408,022**
Restricted Assets			
Cash - interest bearing	311,947	232,553	295,998
Total Restricted Current Assets	**311,947**	**232,553**	**295,998**
Total Current Assets	**9,520,619**	**9,433,936**	**6,704,019**
Non-Current Assets:			
Capital Assets:			
Property, Plant & Equipment	48,424,824	48,403,614	46,068,774
Subscription-Based IT Assets	313,000	313,000	264,817
Construction Work in Progress	575,978	423,215	519,262
Less: Accumulated Depreciation & Amortization	(16,393,702)	(16,287,040)	(15,329,335)
Total Capital Assets	**32,920,099**	**32,852,789**	**31,523,519**
Other Assets:			
Unamortized debt insurance costs	28,366	28,611	31,393
Settlement Receivable	2,614,727	2,614,727	-
Net pension asset	-	-	-
Total Other Assets	**2,643,093**	**2,643,338**	**31,393**
Total Non-Current Assets	**35,563,193**	**35,496,127**	**31,554,912**
Deferred Outflows of Resources			
Pension	349,013	330,653	627,885
OPEB	58,074	58,770	22,740
IPERS	205,220	205,220	120,938
Total Deferred Outflows of Resources	**612,307**	**594,643**	**771,563**
TOTAL ASSETS	**$ 45,696,118**	**$ 45,524,705**	**$ 39,030,494**

Muscatine Power and Water - Water Utility
Statements of Net Position
February 2026

LIABILITIES AND NET POSITION	2025	Prior Month	Prior Year
Current Liabilities:			
Payable from Unrestricted Assets:			
Accounts Payable	$ 144,433	$ 172,039	$ 32,293
Health & Dental Insurance Provision	21,815	21,815	29,782
Accrued Payroll	83,980	90,236	-
Accrued Compensated Absences	229,515	222,899	218,310
Accrued Property Taxes	4,611	4,282	4,512
Miscellaneous Accrued Expenses	73,988	76,075	65,416
Unearned Revenue	1,200	1,200	1,200
Total Payable from Unrestricted Assets	**559,542**	**588,546**	**351,513**
Payable from Restricted Assets			
Electric Utility Loan - Current Portion	-	-	272,199
Water Revenue Bonds	490,000	490,000	470,000
Accrued Interest	113,988	75,992	131,042
Total Payable from Restricted Assets	**603,988**	**565,992**	**873,241**
Total Current Liabilities	**1,163,530**	**1,154,537**	**1,224,754**
Non-Current Liabilities:			
Water Revenue Bond Series 2017	11,333,051	11,336,938	11,878,661
Electric Utility Loan	-	-	1,218,430
Health & Dental Insurance Provision	(8,864)	8,916	(1,504)
Post-Employment Health Benefit Provision	174,628	170,954	123,625
Subscription Based IT Arrangements	132,328	138,273	154,832
Net Pension Liability	533,739	526,250	946,693
Total Non-Current Liabilities	**12,164,881**	**12,181,331**	**14,320,737**
Deferred Inflows of Resources			
Pension	245,019	245,019	258,793
OPEB	11,186	11,356	8,553
IPERS	54,698	54,698	56,385
Total Deferred Inflows of Resources	**310,903**	**311,074**	**323,732**
Net Position:			
Net Investment in Capital Assets	21,097,048	21,025,851	17,684,228
Restricted	197,960	156,561	164,955
Unrestricted	10,761,796	10,695,351	5,312,088
Total Net Position	**32,056,804**	**31,877,763**	**23,161,272**
TOTAL LIABILITIES AND NET POSITION	**$ 45,696,118**	**$ 45,524,705**	**$ 39,030,494**

Muscatine Power and Water - Water Utility
Statements of Cash Flows
February 2026

	Month	Year To Date
Cash Flows from Operating Activities		
Operating Margin	$ 264,571	$ 433,134
Change in Deferred Outflows of Resources	(17,664)	(35,328)
Change in Deferred Inflows of Resources	(171)	(341)
Changes in Assets and Liabilities:		
Consumer Accounts Receivable	6,034	998
Inventories	29,908	(96,932)
Prepaid and Deferred Expenses	(153)	(46,287)
Accounts Payable	(27,606)	43,459
Net Pension Liability	7,489	14,978
Health & Dental Insurance Provision	(17,781)	(10,803)
Other Post-Employment Benefit Provision	3,674	7,348
Accrued Payroll	(6,256)	16,255
Accrued Compensated Absences	6,617	10,914
Accrued Property Taxes	329	659
Unearned Revenue	-	-
Miscellaneous Accrued Expenses	(2,087)	2,312
Net Cash Flows from Operating Activities	**246,905**	**340,365**
Cash Flows from Capital and Financing Activities:		
Capital Expenditures	(180,421)	(220,936)
Gain/(Loss) on Disposal of Assets	-	-
Settlements Received	-	-
Electric Utility Loan Interest & Principal Payments	-	-
Water Revenue Bond Interest & Principal Payments	-	-
Net Cash Flows from Capital & Financing Activities	**(180,421)**	**(220,936)**
Cash Flows from Investing Activities:		
Interest Received on Investments	5,127	20,897
Net Cash Flows from Investing Activities	**5,127**	**20,897**
Net Increase/(Decrease) in Cash and Investments	**71,611**	**140,326**
Cash and Investments at Beginning of Period	**$ 6,986,210**	**6,917,495**
Cash and Investments at End of Period	**$ 7,057,821**	**$ 7,057,821**

Muscatine Power and Water - Water Utility
Summary of Expenses
Current Month - February 2026

Summary of Expenses	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Source of Supply							
Operation Expenses (601)	$ 118	$ 42	$ 6	$ (76)	-181.9%	$ (112)	NM
Miscellaneous Expense (603)	-	385	-	385	NM	-	NM
Maintenance of Wells (614)	-	9,000	-	9,000	NM	-	NM
Maintenance of Supply Mains (616)	-	-	-	-	NM	-	NM
Source of Supply Labor	3,855	6,381	4,718	2,526	39.6%	863	18.3%
Total Source of Supply Expense	**3,973**	**15,808**	**4,724**	**11,835**	**74.9%**	**751**	**15.9%**
% of Operating Revenue	*0.6%*	*2.2%*	*0.7%*				
Pumping							
Purchased Electricity (623)	83,548	87,558	86,906	4,009	4.6%	3,357	3.9%
Pumping Expenses (624)	52	242	-	190	78.5%	(52)	NM
Miscellaneous Expense (626)	315	292	315	(23)	-8.0%	-	0.0%
Maintenance of Structures (631)	245	-	-	(245)	NM	(245)	NM
Maintenance of Pumping Equipment (632/633)	426	3,583	4,906	3,157	88.1%	4,480	91.3%
Pumping Labor	9,573	10,527	6,807	954	9.1%	(2,766)	-40.6%
Total Pumping Expense	**94,159**	**102,201**	**98,934**	**8,042**	**7.9%**	**4,775**	**4.8%**
% of Operating Revenue	*13.1%*	*14.3%*	*14.4%*				
Water Treatment							
Chemicals (641)	46,368	44,603	46,060	(1,765)	-4.0%	(309)	-0.7%
Operation Expenses (642)	14,693	7,971	10,348	(6,722)	-84.3%	(4,344)	-42.0%
Miscellaneous Expense (643)	178	750	1,762	572	76.3%	1,584	89.9%
Maintenance of Structures (651)	2,647	600	368	(2,047)	-341.2%	(2,279)	-618.5%
Maintenance of Purification Equip. (652)	4,833	1,000	1,852	(3,832)	-383.2%	(2,981)	-160.9%
Water Treatment Labor	20,130	24,166	27,230	4,035	16.7%	7,099	26.1%
Total Water Treatment Expense	**88,849**	**79,089**	**87,620**	**(9,760)**	**-12.3%**	**(1,229)**	**-1.4%**
% of Operating Revenue	*12.3%*	*11.1%*	*12.7%*				
Distribution							
Storage Facilities Expense (661)	5,867	5,773	5,248	(94)	-1.6%	(619)	-11.8%
Trans. & Distr. Lines Expense (662)	859	1,000	4,822	141	14.1%	3,964	82.2%
Meter Expense (663)	24	567	345	542	95.7%	320	92.9%
Customer Installation Expense (664)	424	958	595	534	55.7%	171	28.7%
Miscellaneous Expense (665)	230	453	246	223	49.2%	16	6.6%
Vehicle Expense (667)	2,133	4,418	1,893	2,284	51.7%	(240)	-12.7%
Maintenance:							
Structures (671)	3,500	100	-	(3,400)	NM	(3,500)	NM
Reservoirs and Standpipes (672)	-	208	-	208	NM	-	NM
Mains (673)	15,983	14,167	10,386	(1,816)	-12.8%	(5,597)	-53.9%
Valves (674)	16,824	5,000	1,650	(11,824)	-236.5%	(15,174)	-919.5%
Meters (676)	-	1,750	26	1,750	NM	26	NM
Hydrants (677)	5,177	1,000	5,417	(4,177)	-417.7%	240	4.4%
Miscellaneous Plant (678)	792	706	585	(86)	-12.2%	(207)	-35.5%
Distribution Labor	77,818	72,836	69,370	(4,982)	-6.8%	(8,447)	-12.2%
Total Distribution Expense	**129,631**	**108,935**	**100,582**	**(20,696)**	**-19.0%**	**(29,049)**	**-28.9%**
% of Operating Revenue	*18.0%*	*15.3%*	*14.6%*				

Muscatine Power and Water - Water Utility
Summary of Expenses
Current Month - February 2026

Summary of Expenses	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Customer Information Expense (909)	**393**	**1,078**	**66**	***685***	***63.5%***	***(327)***	***-495.4%***
% of Operating Revenue	*0.1%*	*0.2%*	*0.0%*				
Consumer Accounts							
Meter Reading Expense (902)	182	231	214	*49*	*21.2%*	*32*	*14.7%*
Consumer Records and Collection (901/903)	4,046	5,375	5,455	*1,329*	*24.7%*	*1,408*	*25.8%*
Uncollectible Accounts Expense (904)	1,556	1,556	1,400	*-*	*0.0%*	*(155)*	*-11.1%*
Total Consumer Accounts Expense	**5,784**	**7,162**	**7,069**	***1,378***	***19.2%***	***1,284***	***18.2%***
% of Operating Revenue	*0.8%*	*1.0%*	*1.0%*				
Administrative and General							
Office Supplies and Expenses (921)	2,417	1,921	1,673	*(496)*	*-25.8%*	*(744)*	*-44.5%*
Outside Services Employed (923)	428	3,630	18,972	*3,202*	*88.2%*	*18,543*	*97.7%*
Property Insurance (924)	2,231	7,825	5,495	*5,594*	*71.5%*	*3,264*	*59.4%*
Casualty Ins, Injuries & Damages (925)	5,210	7,307	(2,038)	*2,097*	*28.7%*	*(7,248)*	*NM*
Employee Benefits (926)	61,010	44,766	55,347	*(16,244)*	*-36.3%*	*(5,662)*	*-10.2%*
Employee Pensions (926-PEN)	7,489	7,489	14,129	*-*	*0.0%*	*6,640*	*47.0%*
Fringe Benefits Charged to Constr. (927)	(7,932)	(5,833)	(1,433)	*2,099*	*36.0%*	*6,499*	*453.6%*
Miscellaneous General Expense (930)	7,147	8,319	7,103	*1,172*	*14.1%*	*(44)*	*-0.6%*
A&G Adder (930-AGA)	(16,338)	-	-	*16,338*	*NM*	*16,338*	*NM*
Rents (931)	7,711	7,711	7,487	*(0)*	*0.0%*	*(225)*	*-3.0%*
Maintenance of General Plant (932)	2,991	7,755	6,153	*4,764*	*61.4%*	*3,162*	*51.4%*
A&G Labor	60,182	63,350	63,218	*3,168*	*5.0%*	*3,036*	*4.8%*
Total Administrative and General	**132,546**	**154,241**	**176,106**	***21,694***	***14.1%***	***43,560***	***24.7%***
% of Operating Revenue	*18.4%*	*21.6%*	*25.6%*				
TOTAL OPERATING EXPENSES	**$ 455,336**	**$ 468,515**	**$ 475,101**	***$ 13,179***	***2.8%***	***$ 19,765***	***4.2%***
% of Operating Revenue	*63.2%*	*65.8%*	*69.0%*				

Depreciation & Amortization							
Source of Supply Depreciation (618)	$ 9,188	$ 8,694	$ 8,866	*$ (494)*	*-5.7%*	*$ (323)*	*-3.6%*
Pumping Depreciation (634)	8,928	9,163	8,086	*235*	*2.6%*	*(842)*	*-10.4%*
Water Treatment Depreciation (654)	4,801	4,792	4,801	*(9)*	*-0.2%*	*0*	*0.0%*
Distribution Depreciation (680)	65,388	62,719	59,400	*(2,669)*	*-4.3%*	*(5,988)*	*-10.1%*
A&G Depreciation (933)	12,633	13,288	12,134	*654*	*4.9%*	*(499)*	*-4.1%*
Subscription-Based IT Arrangements (428)	5,723	4,861	4,670	*(862)*	*-17.7%*	*(1,053)*	*-22.5%*
Total Depreciation & Amortization	**$ 106,662**	**$ 103,516**	**$ 97,957**	***$ (3,146)***	***-3.0%***	***$ (8,705)***	***-8.9%***
% of Operating Revenue	*14.8%*	*14.5%*	*14.2%*				

Muscatine Power and Water - Water Utility
Summary of Expenses
Year To Date - February 2026

Summary of Expenses	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Source of Supply							
Operation Expenses (601)	$ 118	$ 85	$ 6	$ (33)	-39.4%	$ (112)	NM
Miscellaneous Expense (603)	-	770	-	770	NM	-	NM
Maintenance of Wells (614)	-	18,000	-	18,000	NM	-	NM
Maintenance of Supply Mains (616)	-	-	-	-	NM	-	NM
Source of Supply Labor	8,101	12,762	11,154	4,661	36.5%	3,053	27.4%
Total Source of Supply Expense	**8,219**	**31,617**	**11,160**	**23,398**	**74.0%**	**2,941**	**26.3%**
% of Operating Revenue	*0.6%*	*2.2%*	*1.6%*				
Pumping							
Purchased Electricity (623)	169,843	182,462	175,241	12,619	6.9%	5,398	3.1%
Pumping Expenses (624)	401	483	-	83	17.1%	(401)	NM
Miscellaneous Expense (626)	630	584	549	(46)	-8.0%	(81)	-14.7%
Maintenance of Structures (631)	2,729	-	-	(2,729)	NM	(2,729)	NM
Maintenance of Pumping Equipment (632/633)	18,263	7,167	6,673	(11,096)	-154.8%	(11,590)	-173.7%
Pumping Labor	16,009	21,053	13,464	5,044	24.0%	(2,545)	-18.9%
Total Pumping Expense	**207,874**	**211,749**	**195,927**	**3,875**	**1.8%**	**(11,947)**	**-6.1%**
% of Operating Revenue	*14.4%*	*14.7%*	*28.4%*				
Water Treatment							
Chemicals (641)	86,272	91,204	91,503	4,932	5.4%	5,231	5.7%
Operation Expenses (642)	21,460	16,184	21,463	(5,277)	-32.6%	3	0.0%
Miscellaneous Expense (643)	8	1,500	1,861	1,492	99.5%	1,853	99.6%
Maintenance of Structures (651)	3,038	1,200	1,026	(1,838)	-153.1%	(2,011)	-196.0%
Maintenance of Purification Equip. (652)	6,740	2,000	4,771	(4,740)	-237.0%	(1,969)	-41.3%
Water Treatment Labor	41,655	48,331	51,889	6,677	13.8%	10,234	19.7%
Total Water Treatment Expense	**159,172**	**160,419**	**172,514**	**1,246**	**0.8%**	**13,342**	**7.7%**
% of Operating Revenue	*11.0%*	*11.1%*	*25.0%*				
Distribution							
Storage Facilities Expense (661)	11,970	12,030	10,623	61	0.5%	(1,347)	-12.7%
Trans. & Distr. Lines Expense (662)	3,394	2,000	5,277	(1,394)	-69.7%	1,883	35.7%
Meter Expense (663)	1,960	1,133	368	(827)	-73.0%	(1,593)	-433.3%
Customer Installation Expense (664)	2,443	1,917	981	(527)	-27.5%	(1,462)	-149.0%
Miscellaneous Expense (665)	114	707	495	592	83.8%	381	76.9%
Vehicle Expense (667)	4,698	8,835	4,825	4,137	46.8%	127	2.6%
Maintenance:							
Structures (671)	4,100	200	632	(3,900)	NM	(3,468)	-548.8%
Reservoirs and Standpipes (672)	-	417	-	417	NM	-	NM
Mains (673)	40,389	28,333	25,826	(12,056)	-42.6%	(14,564)	-56.4%
Valves (674)	30,284	10,000	6,624	(20,284)	-202.8%	(23,659)	-357.2%
Meters (676)	-	3,500	18,655	3,500	NM	18,655	NM
Hydrants (677)	8,594	2,000	11,449	(6,594)	-329.7%	2,855	24.9%
Miscellaneous Plant (678)	23,524	1,412	2,098	(22,112)	NM	(21,426)	NM
Distribution Labor	180,807	145,671	171,798	(35,136)	-24.1%	(9,009)	-5.2%
Total Distribution Expense	**312,278**	**218,155**	**259,651**	**(94,123)**	**-43.1%**	**(52,626)**	**-20.3%**
% of Operating Revenue	*21.6%*	*15.1%*	*37.7%*				

Muscatine Power and Water - Water Utility
Summary of Expenses
Year To Date - February 2026

Summary of Expenses	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Customer Information Expense (909)	**1,494**	**2,157**	**410**	***663***	***30.7%***	***(1,084)***	***-264.3%***
% of Operating Revenue	*0.1%*	*0.1%*	*0.1%*				
Consumer Accounts							
Meter Reading Expense (902)	365	463	428	*98*	*21.2%*	*63*	*14.7%*
Consumer Records and Collection (901/903)	5,486	10,750	11,136	*5,264*	*49.0%*	*5,650*	*50.7%*
Uncollectible Accounts Expense (904)	3,111	3,111	2,801	-	*0.0%*	*(311)*	*-11.1%*
Total Consumer Accounts Expense	**8,962**	**14,324**	**14,364**	***5,363***	***37.4%***	***5,402***	***37.6%***
% of Operating Revenue	*0.6%*	*1.0%*	*2.1%*				
Administrative and General							
Office Supplies and Expenses (921)	5,504	4,733	3,477	*(770)*	*-16.3%*	*(2,027)*	*-58.3%*
Outside Services Employed (923)	881	10,806	23,652	*9,925*	*91.8%*	*22,771*	*96.3%*
Property Insurance (924)	8,863	15,650	10,990	*6,787*	*43.4%*	*2,127*	*19.4%*
Casualty Ins, Injuries & Damages (925)	9,715	12,477	5,560	*2,762*	*22.1%*	*(4,155)*	*-74.7%*
Employee Benefits (926)	129,770	89,882	120,167	*(39,888)*	*-44.4%*	*(9,603)*	*-8.0%*
Employee Pensions (926-PEN)	14,978	14,978	28,258	-	*0.0%*	*13,279*	*47.0%*
Fringe Benefits Charged to Constr. (927)	(8,437)	(11,667)	(3,108)	*(3,230)*	*-27.7%*	*5,328*	*171.4%*
Miscellaneous General Expense (930)	13,630	18,757	11,317	*5,127*	*27.3%*	*(2,313)*	*-20.4%*
A&G Adder (930-AGA)	(17,959)	-	(31,449)	*17,959*	*NM*	*(13,490)*	*-42.9%*
Rents (931)	15,423	15,423	14,973	*(0)*	*0.0%*	*(449)*	*-3.0%*
Maintenance of General Plant (932)	15,779	16,254	11,861	*474*	*2.9%*	*(3,918)*	*-33.0%*
A&G Labor	124,738	126,700	131,595	*1,962*	*1.5%*	*6,857*	*5.2%*
Total Administrative and General	**312,885**	**313,993**	**327,292**	***1,108***	***0.4%***	***14,407***	***4.4%***
% of Operating Revenue	*21.7%*	*21.8%*	*47.5%*				
TOTAL OPERATING EXPENSES	**$ 1,010,885**	**$ 952,414**	**$ 981,318**	***$ (58,471)***	***-6.1%***	***$ (29,567)***	***-3.0%***
% of Operating Revenue	*70.0%*	*66.1%*	*142.5%*				

Depreciation & Amortization							
Source of Supply Depreciation (618)	$ 18,377	$ 17,388	$ 17,731	*$ (989)*	*-5.7%*	*$ (646)*	*-3.6%*
Pumping Depreciation (634)	17,855	18,325	16,171	*470*	*2.6%*	*(1,684)*	*-10.4%*
Water Treatment Depreciation (654)	9,602	9,584	9,602	*(18)*	*-0.2%*	*0*	*0.0%*
Distribution Depreciation (680)	130,576	125,438	118,495	*(5,138)*	*-4.1%*	*(12,081)*	*-10.2%*
A&G Depreciation (933)	25,267	26,575	24,209	*1,308*	*4.9%*	*(1,058)*	*-4.4%*
Subscription-Based IT Arrangements (428)	11,402	9,722	9,447	*(1,681)*	*-17.3%*	*(1,955)*	*-20.7%*
Total Depreciation & Amortization	**$ 213,079**	**$ 207,032**	**$ 195,655**	***$ (6,046)***	***-2.9%***	***$ (17,424)***	***-8.9%***
% of Operating Revenue	*14.8%*	*14.3%*	*28.4%*				

Muscatine Power and Water - Water Utility
Statistical Data
February 2026

Current Month

Margin	2026		Prior Year	
Margin per 1,000 Gallons	**Pumped**	**Sold**	**Pumped**	**Sold**
Average Revenue Per 1,000 Gallons	$ 0.9759	$ 0.9916	$ 0.9461	$ 0.9886
Cost Per 1,000 Gallons	0.6209	0.6309	0.6558	0.6853
Margin	**$ 0.3550**	**$ 0.3607**	**$ 0.2902**	**$ 0.3033**

Average Price per 1,000 Gallons	Results			*Variance*			
Sales of Water	**Actual**	**1/31/2026**	**Prior Year**	**Vs Budget**	**%**	**Vs Prior Year**	**%**
Contract Customers	$ 0.6174	$ 0.6470	$ 0.6142	$ (0.0296)	*-4.6%*	$ 0.0032	*0.5%*
Power Plants	1.1128	1.4474	1.2141	(0.3345)	*-23.1%*	(0.1013)	*-8.3%*
Residential	7.0120	7.0382	6.9421	(0.0262)	*-0.4%*	0.0699	*1.0%*
Commercial	2.6509	2.7105	2.7696	(0.0596)	*-2.2%*	(0.1187)	*-4.3%*
Water Sales	**$ 0.9916**	**$ 1.0446**	**$ 0.9886**	**$ (0.0529)**	***-5.1%***	**$ 0.0030**	***0.3%***

Year To Date

Margin	2026		Prior Year	
Margin per 1,000 Gallons	**Pumped**	**Sold**	**Pumped**	**Sold**
Average Revenue Per 1,000 Gallons	$ 0.9807	$ 0.9952	$ 0.9437	$ 0.9917
Cost Per 1,000 Gallons	0.6886	0.6988	0.6625	0.6962
Margin	**$ 0.2921**	**$ 0.2964**	**$ 0.2812**	**$ 0.2955**

Average Price per 1,000 Gallons	Results			*Variance*			
Sales of Water	**Actual**	**Budget**	**Prior Year**	**Vs Budget**	**%**	**Vs Prior Year**	**%**
Contract Customers	$ 0.6179	$ 0.6409	$ 0.6198	$ (0.0230)	*-3.6%*	$ (0.0019)	*-0.3%*
Power Plants	1.0825	1.2961	1.2196	(0.2137)	*-16.5%*	(0.1371)	*-11.2%*
Residential	6.7620	6.8629	6.7205	(0.1008)	*-1.5%*	0.0415	*0.6%*
Commercial	2.6465	2.6914	2.7098	(0.0449)	*-1.7%*	(0.0633)	*-2.3%*
Water Sales	**$ 0.9952**	**$ 1.0318**	**$ 0.9917**	**$ (0.0366)**	***-3.5%***	**$ 0.0035**	***0.4%***

Maximum Daily Water Pumped (1,000 gallons)	2026	Prior Year
Maximum Daily Water Pumped - Month	28,256	27,179
Date of Maximum	2/4/2026	2/7/2025
Maximum Daily Water Pumped - Year	28,256	27,179
Date of Maximum	2/4/2026	2/7/2025
All-time Peak - August 2003	38,500	

Services	2026	Prior Year	Vs. Prior Year %
Contract Customers	2	2	0.0%
Power Plants	2	2	0.0%
Residential	8,984	8,971	0.1%
Commercial	1,113	1,108	0.5%
Total	**10,101**	**10,083**	**0.2%**

Muscatine Power and Water

Communications Utility

Financial Operating Statements & Balance Sheets

February 2026

Muscatine Power and Water
Communications Utility
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Muscatine Power and Water - Communications Utility
Statements of Revenues, Expenses, and Changes in Net Position
Current Month - February 2026

Income Statement	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Operating Revenue							
Video	$ 437,187	$ 458,719	$ 465,803	$ (21,532)	-4.7%	$ (28,616)	-6.1%
Data/Internet	652,607	658,601	665,044	(5,995)	-0.9%	(12,437)	-1.9%
Enterprise	90,716	65,750	75,666	24,966	38.0%	15,050	19.9%
Phone	29,213	28,027	31,671	1,187	4.2%	(2,458)	-7.8%
Miscellaneous	12,655	7,510	9,486	5,145	68.5%	3,169	33.4%
Inter-Utility Revenue	19,129	17,778	12,008	1,351	7.6%	7,121	59.3%
Total Operating Revenue	**1,241,506**	**1,236,385**	**1,259,677**	**5,121**	**0.4%**	**(18,171)**	**-1.4%**
Operating Expense							
Programming	318,140	348,970	348,713	30,830	8.8%	30,573	8.8%
Video Margin $	119,047	109,749	117,090	9,298	8.5%	1,957	1.7%
Video Margin %	27.2%	23.9%	25.1%				
Data Access Fees	12,398	19,214	18,836	6,815	35.5%	6,438	34.2%
Operations	88,477	87,679	70,102	(799)	-0.9%	(18,375)	-26.2%
Maintenance	66,153	50,918	54,462	(15,235)	-29.9%	(11,691)	-21.5%
Direct Labor	159,325	153,418	151,639	(5,907)	-3.9%	(7,686)	-5.1%
A&G Labor	118,484	124,204	115,542	5,721	4.6%	(2,942)	-2.5%
A&G	156,913	177,825	149,919	20,912	11.8%	(6,994)	-4.7%
Total Operating Expense	**919,891**	**962,228**	**909,212**	**42,337**	**4.4%**	**(10,678)**	**-1.2%**
Operating Margin	**321,616**	**274,157**	**350,465**	**47,458**	**17.3%**	**(28,849)**	**-8.2%**
Depreciation & Amortization	147,398	158,422	141,245	11,024	7.0%	(6,153)	-4.4%
Operating Income	**174,218**	**115,735**	**209,221**	**58,483**	**50.5%**	**(35,002)**	**-16.7%**
Interest Income	27,179	19,866	32,882	7,313	36.8%	(5,703)	-17.3%
Interest Expense	(7,180)	(5,326)	(11,918)	(1,854)	-34.8%	4,738	39.8%
Gain/(Loss) on Disposal of Assets	-	-	-	-	NM	-	NM
Net Nonoperating Income/(Expense)	**19,999**	**14,540**	**20,964**	**5,458**	**37.5%**	**(965)**	**-4.6%**
Net Income/(Loss) before Capital Contributions	**194,217**	**130,276**	**230,184**	**63,941**	**49.1%**	**(35,968)**	**-15.6%**
Capital Contributions	-	-	-	-	NM	-	NM
Net Income/(Loss)	**$ 194,217**	**$ 130,276**	**$ 230,184**	**$ 63,941**	**49.1%**	**$ (35,968)**	**-15.6%**
Beginning Net Position	**23,100,105**	**23,130,514**	**20,378,719**	**(30,410)**	**-0.1%**	**2,721,385**	**13.4%**
Change in Net Position	**194,217**	**130,276**	**230,184**	**63,941**	**49.1%**	**(35,968)**	**-15.6%**
ENDING NET POSITION	**$ 23,294,322**	**$ 23,260,790**	**$ 20,608,904**	**$ 33,531**	**0.1%**	**$ 2,685,418**	**13.0%**

Muscatine Power and Water - Communications Utility
Statements of Revenues, Expenses, and Changes in Net Position
Year To Date - February 2026

Income Statement	Results			Variance			
	Actual	Budget	Prior Year	*Vs Budget $*	%	*Vs Prior Yr $*	%
Operating Revenue							
Video	$ 881,143	$ 920,077	$ 941,047	*$ (38,934)*	*-4.2%*	*$ (59,904)*	*-6.4%*
Data/Internet	1,303,494	1,318,320	1,329,271	*(14,826)*	*-1.1%*	*(25,777)*	*-1.9%*
Enterprise	176,249	131,500	152,684	*44,749*	*34.0%*	*23,565*	*15.4%*
Phone	59,147	56,124	68,596	*3,022*	*5.4%*	*(9,449)*	*-13.8%*
Miscellaneous	17,033	15,020	17,389	*2,013*	*13.4%*	*(356)*	*-2.0%*
Inter-Utility Revenue	38,256	35,557	24,026	*2,700*	*7.6%*	*14,230*	*59.2%*
Total Operating Revenue	**2,475,322**	**2,476,598**	**2,533,013**	***(1,275)***	***-0.1%***	***(57,691)***	***-2.3%***
Operating Expense							
Programming	652,246	700,189	703,871	*47,942*	*6.8%*	*51,625*	*7.3%*
Video Margin $	*228,897*	*219,888*	*237,176*	*9,009*	*4.1%*	*(8,279)*	*-3.5%*
Video Margin %	*26.0%*	*23.9%*	*25.2%*				
Data Access Fees	36,365	38,427	39,672	*2,062*	*5.4%*	*3,307*	*8.3%*
Operations	151,847	175,358	131,970	*23,510*	*13.4%*	*(19,877)*	*-15.1%*
Maintenance	124,033	101,836	94,945	*(22,197)*	*-21.8%*	*(29,088)*	*-30.6%*
Direct Labor	334,025	306,836	329,953	*(27,188)*	*-8.9%*	*(4,071)*	*-1.2%*
A&G Labor	254,874	248,409	254,463	*(6,465)*	*-2.6%*	*(410)*	*-0.2%*
A&G	355,116	341,579	347,020	*(13,537)*	*-4.0%*	*(8,096)*	*-2.3%*
Total Operating Expense	**1,908,505**	**1,912,634**	**1,901,894**	***4,128***	***0.2%***	***(6,611)***	***-0.3%***
Operating Margin	**566,817**	**563,964**	**631,119**	***2,853***	***0.5%***	***(64,303)***	***-10.2%***
Depreciation & Amortization	294,719	316,844	282,600	*22,125*	*7.0%*	*(12,119)*	*-4.3%*
Operating Income	**272,098**	**247,120**	**348,519**	***24,978***	***10.1%***	***(76,422)***	***-21.9%***
Nonoperating Income/(Expense)							
Interest Income	52,024	39,733	67,200	*12,291*	*30.9%*	*(15,176)*	*-22.6%*
Interest Expense	(14,391)	(10,652)	(23,918)	*(3,739)*	*-35.1%*	*9,527*	*39.8%*
Gain/(Loss) on Disposal of Assets	-	-	-	-	*NM*	-	*NM*
Net Nonoperating Income/(Expense)	**37,633**	**29,081**	**43,282**	***8,552***	***29.4%***	***(5,649)***	***-13.1%***
Net Income/(Loss) before Capital Contributions	**309,731**	**276,201**	**391,801**	***33,530***	***12.1%***	***(82,070)***	***-20.9%***
Capital Contributions	-	-	-	-	*NM*	-	*NM*
Net Income/(Loss)	**$ 309,731**	**$ 276,201**	**$ 391,801**	***$ 33,530***	***12.1%***	***$ (82,070)***	***-20.9%***
Beginning Net Position	**22,984,591**	**22,984,591**	**20,217,103**	***-***	***0.0%***	***2,767,488***	***13.7%***
Change in Net Position	**309,731**	**276,201**	**391,801**	***33,530***	***12.1%***	***(82,070)***	***-20.9%***
ENDING NET POSITION	**$ 23,294,321**	**$ 23,260,791**	**$ 20,608,904**	***$ 33,530***	***0.1%***	***$ 2,685,417***	***13.0%***

Muscatine Power and Water - Communications Utility
Statements of Net Position
February 2026

ASSETS			
	2026	Prior Month	Prior Year
Current Assets			
Cash - Interest Bearing	$ 2,879,194	$ 2,654,921	$ 3,047,728
Investments	5,250,000	5,250,000	6,050,000
Receivables:			
Consumer Accounts	1,919,443	1,919,431	2,418,463
Interest	148,985	130,877	211,165
Inventories	478,777	467,317	481,624
Prepaid Expenses	394,299	426,964	397,564
Total Current Assets	**11,070,698**	**10,849,510**	**12,606,544**
Non-Current Assets Capital Assets			
Property, Plant & Equipment	33,191,828	33,155,467	31,877,896
Subscription-Based IT Assets	605,637	605,637	523,037
Construction Work in Progress	599,729	574,654	759,080
Less: Accumulated Depreciation	(17,289,663)	(17,142,266)	(15,609,527)
Total Capital Assets	**17,107,531**	**17,193,493**	**17,550,486**
Other Assets			
Net Pension Asset	-	-	-
Total Other Assets	**-**	**-**	**-**
Deferred Outflows of Resources			
Pension	808,091	765,581	1,453,792
OPEB	88,953	90,034	34,054
IPERS	6,781	6,781	3,049
Total Deferred Outflows of Resources	**903,825**	**862,397**	**1,490,894**
TOTAL ASSETS	**$ 29,082,054**	**$ 28,905,400**	**$ 31,647,925**

Muscatine Power and Water - Communications Utility
Statements of Net Position
February 2026

LIABILITIES AND NET POSITION	2025	Prior Month	Prior Year
Current Liabilities			
Payable from Unrestricted Assets			
Accounts Payable	$ 555,813	$ 567,693	$ 899,408
Health & Dental Insurance Provision	32,722	32,722	44,673
Accrued Payroll	137,025	150,333	3,100
Accrued Compensated Absences	366,851	359,679	341,877
Accrued Property Taxes	40,964	38,038	37,661
Miscellaneous Accrued Expenses	89,152	80,095	73,539
Unearned Revenue	17,500	17,500	17,500
Total Payable from Unrestricted Assets	**1,240,026**	**1,246,060**	**1,417,757**
Payable from Restricted Assets			
Notes Payable:			
Revenue Bond	1,551,143	1,551,143	1,509,510
Electric Utility	-	-	513,616
Accrued Interest	12,422	6,211	21,465
Total Payable from Restricted Assets	**1,563,565**	**1,557,354**	**2,044,591**
Total Current Liabilities	**2,803,591**	**2,803,414**	**3,462,348**
Non-Current Liabilities			
Notes Payable:			
Revenue Bond	1,178,889	1,178,889	2,730,032
Electric Utility	-	-	2,096,021
Health & Dental Insurance Provision	(14,066)	13,561	(2,202)
Post-Employment Health Benefit Provision	258,780	253,072	179,535
Unearned Revenue	69,063	70,521	86,563
Subscription-Based IT Arrangements	254,446	265,888	307,870
Net Pension Liability	652,525	635,181	1,566,935
Total Non-Current Liabilities	**2,399,637**	**2,417,111**	**6,964,753**
Deferred Inflows of Resources			
Pension	567,308	567,308	599,199
OPEB	15,390	15,655	11,299
IPERS	1,807	1,807	1,421
Total Deferred Inflows of Resources	**584,505**	**584,770**	**611,920**
Net Position			
Net Investment in Capital Assets	14,365,077	14,457,250	12,775,864
Unrestricted	8,929,244	8,642,854	7,833,040
Total Net Position	**23,294,321**	**23,100,105**	**20,608,904**
TOTAL LIABILITIES AND NET POSITION	**$ 29,082,054**	**$ 28,905,400**	**$ 31,647,925**

Muscatine Power and Water - Communications Utility
Statements of Cash Flows
February 2026

	Month	Year To Date
Cash Flows from Operating Activities		
Operating Margin	$ 321,616	$ 566,817
Change in Deferred Outflows of Resources	(41,429)	(82,858)
Change in Deferred Inflows of Resources	(265)	(530)
Changes in Assets and Liabilities:		
Consumer Accounts Receivable	(12)	72,651
Inventories	(11,460)	(33,562)
Prepaid and Deferred Expenses	32,665	(22,568)
Accounts Payable	(11,880)	15,962
Retained Percentage on Contracts	-	-
Net Pension Liability	17,344	34,688
Health & Dental Insurance Provision	(27,627)	(16,785)
Other Post-Employment Benefit Provision	5,708	11,416
Accrued Payroll	(13,308)	23,423
Accrued Compensated Absences	7,172	11,876
Accrued Property Taxes	2,926	5,852
Unearned Revenue	(1,458)	(2,917)
Miscellaneous Accrued Expenses	9,057	(6,692)
Retained Percentage on Contracts	-	-
Net Cash Flows From Operating Activities	**289,049**	**576,775**
Cash Flows from Capital and Financing Activities:		
Capital Expenditures	(73,847)	(121,085)
Gain/(Loss) on Disposal of Assets	-	-
Bond Issuance and Principal Payments - Net	-	-
Loan Interest Payments	(0)	(0)
Net Cash Flows from Capital & Financing Activities	**(73,847)**	**(121,085)**
Cash Flows from Investing Activities:		
Interest Received on Investments	9,070	38,218
Net Cash Flows from Investing Activities	**9,070**	**38,218**
Net Increase/(Decrease)	**224,273**	**493,909**
Cash and Investments at Beginning of Period	**7,904,921**	**7,635,285**
Cash and Investments at End of Period	**$ 8,129,194**	**$ 8,129,194**

Muscatine Power & Water - Communications Utility
Summary of Expense
Current Month - February 2026

Summary of Expense	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Video							
Program Acquisition Expense (751-758)	$ 318,140	$ 348,970	$ 348,713	$ 30,830	8.8%	$ 30,573	8.8%
Promotional Expense (960)	308	662	249	354	53.5%	(58)	-23.4%
Electricity Expense (736)	-	-	-	-	NM	-	NM
Pole Attachment Expense (715)	3,436	1,665	1,923	(1,771)	-106.3%	(1,513)	-78.7%
Changes of Service (742)	-	1,950	-	1,950	NM	-	NM
Underground Line Expense (743)	129	-	47	(129)	NM	(83)	-177.7%
Ad Insertion - Marketing/Production (964)	5,060	12,833	6,167	7,774	60.6%	1,107	18.0%
Miscellaneous Video Expense (710, 738-9)	14,987	6,872	11,362	(8,114)	-118.1%	(3,624)	-31.9%
Vehicle Expense (760)	1,852	1,226	2,490	(626)	-51.1%	638	25.6%
Maintenance:							
Fiber (711)	3,736	1,059	3,226	(2,677)	-252.7%	(510)	-15.8%
Coax (712)	-	-	-	-	NM	-	NM
Drops (713)	-	131	22	131	NM	22	NM
Conduit System (714)	1,185	180	-	(1,005)	-558.5%	(1,185)	NM
Network Operations Center (721-725)	11,062	17,446	15,016	6,384	36.6%	3,954	26.3%
Line Equipment (731-735)	451	375	1,129	(76)	-20.3%	678	60.1%
Converters (741)	-	292	615	292	NM	615	NM
Ad Insertion (966)	-	-	-	-	NM	-	NM
Property Taxes (794)	1,287	1,133	1,184	(155)	-13.7%	(104)	-8.8%
Video Labor	74,444	72,632	70,164	(1,812)	-2.5%	(4,281)	-6.1%
Total Video Expense	**436,078**	**467,426**	**462,306**	**31,349**	**6.7%**	**26,228**	**5.7%**
% of Operating Revenue	*35.1%*	*37.8%*	*36.7%*				
Internet							
Data/Internet Access Charges (851-853)	12,398	19,214	18,836	6,815	35.5%	6,438	34.2%
Promotional Expense (961)	478	719	430	241	33.5%	(47)	-11.0%
Electricity Expense (836)	-	-	-	-	NM	-	NM
Pole Attachment Expense (837)	4,792	2,323	2,137	(2,469)	-106.3%	(2,655)	-124.2%
Underground Line Expense (843)	249	-	89	(249)	NM	(161)	-180.9%
Miscellaneous Data/Internet Expense (839, 844, 848)	16,045	9,761	12,344	(6,284)	-64.4%	(3,701)	-30.0%
Internet Equipment (810)	19,145	26,917	20,002	7,771	28.9%	857	4.3%
Vehicle Expense (860)	1,328	1,498	581	169	11.3%	(748)	-128.8%
Maintenance:							
Fiber (811)	10,679	1,682	3,636	(8,997)	-534.8%	(7,044)	-193.7%
Coax (813)	-	-	-	-	NM	-	NM
Drops (814)	-	268	1,568	268	NM	1,568	NM
Conduit System (816)	3,408	518	-	(2,890)	-558.5%	(3,408)	NM
Network Operations Center (820, 821)	33,876	17,423	24,900	(16,453)	-94.4%	(8,976)	-36.0%
Line Equipment (831-835)	451	-	1,129	(451)	NM	678	60.1%
ONT (841)	-	5,400	-	5,400	NM	-	NM
Property Taxes (894)	1,404	1,340	1,291	(65)	-4.8%	(113)	-8.8%
Internet Labor	76,135	68,401	71,493	(7,735)	-11.3%	(4,643)	-6.5%
Total Internet Expense	**180,391**	**155,462**	**158,436**	**(24,929)**	**-16.0%**	**(21,955)**	**-13.9%**
% of Operating Revenue	*14.5%*	*12.6%*	*12.6%*				

Muscatine Power & Water - Communications Utility
Summary of Expense
Current Month - February 2026

Summary of Expense	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Enterprise							
Pole Attachment Expense (838)	$ 543	$ 543	$ 214	1	0.2%	(329)	-153.5%
Tools Expense (845)	-	-	-	-	NM	-	NM
Misc Enterprise Expense (849)	2,516	2,005	2,012	(511)	-25.5%	(504)	-25.0%
Maintenance:							
Fiber (812)	775	148	362	(627)	-423.3%	(413)	-114.3%
Conduit System (817)	247	38	-	(209)	-558.5%	(247)	NM
Enterprise Equipment (818, 819)	281	5,958	2,858	5,677	95.3%	2,576	90.2%
Property Taxes (896)	205	178	188	(27)	-15.3%	(17)	-8.8%
Enterprise Labor	6,047	6,927	5,638	879	12.7%	(409)	-7.3%
Total Enterprise Expense	**10,614**	**15,796**	**11,272**	**5,182**	**32.8%**	**658**	**5.8%**
% of Operating Revenue	*0.9%*	*1.3%*	*0.9%*				
Phone							
Operating Expense (880)	14,713	16,056	7,393	1,343	8.4%	(7,320)	-99.0%
Phone Labor	2,698	5,458	4,344	2,760	50.6%	1,646	37.9%
Total Phone Expense	**17,411**	**21,514**	**11,737**	**4,103**	**19.1%**	**(5,674)**	**-48.3%**
% of Operating Revenue	*1.4%*	*1.7%*	*0.9%*				
Customer Information Expense (909)	**2,383**	**5,012**	**767**	**2,629**	**52.5%**	**(1,616)**	**-210.7%**
% of Operating Revenue	*0.2%*	*0.4%*	*0.1%*				
Consumer Accounts & Records							
Consumer Records and Collections (903)	8,100	10,835	11,982	2,735	25.2%	3,882	32.4%
Uncollectible Accounts Expense (904)	5,747	5,747	3,618	-	0.0%	(2,130)	-58.9%
Total Consumer Accounts & Records Expense	**13,848**	**16,582**	**15,600**	**2,735**	**16.5%**	**1,752**	**11.2%**
% of Operating Revenue	*1.1%*	*1.3%*	*1.2%*				
Administrative & General							
Office Supplies and Expense (921)	5,355	4,791	(1,007)	(563)	-11.8%	(6,362)	NM
Outside Services Employed (923)	5,070	7,608	(2,886)	2,538	33.4%	(7,957)	NM
Property Insurance (924)	4,702	6,101	3,011	1,399	22.9%	(1,690)	-56.1%
Casualty Ins, Injuries & Damages (925)	9,007	11,817	(2,319)	2,810	23.8%	(11,326)	NM
Employee Benefits (926)	83,633	69,834	75,277	(13,799)	-19.8%	(8,356)	-11.1%
Employee Pensions (926-PEN)	17,344	17,344	32,693	-	0.0%	15,349	46.9%
Fringe Benefits Charges to Construction (927)	(3,700)	(5,833)	(5,140)	(2,133)	-36.6%	(1,440)	-28.0%
Rents (931)	12,470	12,470	12,107	-	0.0%	(363)	-3.0%
Miscellaneous General Expense (930)	12,149	34,457	12,107	22,308	64.7%	(42)	-0.3%
A&G Adder (930-AGA)	(5,608)	(17,167)	-	(11,558)	-67.3%	5,608	NM
Maintenance of General Plant (932)	262	14,808	9,711	14,546	98.2%	9,448	97.3%
A&G Labor	118,484	124,204	115,542	5,721	4.6%	(2,942)	-2.5%
Total Administrative & General Expense	**259,166**	**280,435**	**249,094**	**21,269**	**7.6%**	**(10,072)**	**-4.0%**
% of Operating Revenue	*20.9%*	*22.7%*	*19.8%*				
TOTAL OPERATING EXPENSE	**$ 919,891**	**$ 962,228**	**$ 909,212**	**$ 42,337**	**4.4%**	**$ (10,678)**	**-1.2%**
% of Operating Revenue	*74.1%*	*77.8%*	*72.2%*				

Depreciation							
Video Depreciation (793)	18,560	23,325	18,704	4,765	20.4%	144	0.8%
Internet Depreciation (893)	92,790	98,084	87,855	5,294	5.4%	(4,935)	-5.6%
Enterprise Depreciation (840)	7,501	7,567	7,583	65	0.9%	82	1.1%
A&G Depreciation (933)	17,584	19,870	17,946	2,285	11.5%	361	2.0%
Subscription-Based IT Arrangements Amort (428)	10,962	9,577	9,157	(1,386)	-14.5%	(1,805)	-19.7%
Total Depreciation	**$ 147,398**	**$ 158,422**	**$ 141,245**	**$ 11,024**	**7.0%**	**$ (6,153)**	**-4.4%**
% of Operating Revenue	*11.9%*	*12.8%*	*11.2%*				

Muscatine Power & Water - Communications Utility
Summary of Expense
Year To Date - February 2026

Summary of Expense	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Video							
Program Acquisition Expense (751-758)	$ 652,246	$ 700,189	$ 703,871	$ 47,942	6.8%	$ 51,625	7.3%
Promotional Expense (960)	696	1,324	628	628	47.5%	(67)	-10.7%
Electricity Expense (736)	-	-	-	-	NM	-	NM
Pole Attachment Expense (715)	3,436	3,330	3,846	(105)	-3.2%	410	10.7%
Changes of Service (742)	-	3,900	-	3,900	NM	-	NM
Underground Line Expense (743)	194	-	144	(194)	NM	(50)	-34.6%
Ad Insertion - Marketing/Production (964)	13,776	25,667	13,464	11,890	46.3%	(312)	-2.3%
Miscellaneous Video Expense (710, 738-9)	22,336	13,745	20,359	(8,592)	-62.5%	(1,978)	-9.7%
Vehicle Expense (760)	3,699	2,451	4,487	(1,248)	-50.9%	788	17.6%
Maintenance:							
Fiber (711)	5,709	2,119	3,286	(3,591)	-169.5%	(2,423)	-73.8%
Coax (712)	-	-	-	-	NM	-	NM
Drops (713)	110	262	83	152	58.0%	(27)	-33.2%
Conduit System (714)	1,257	360	-	(897)	-249.2%	(1,257)	NM
Network Operations Center (721-725)	31,440	34,892	31,824	3,451	9.9%	383	1.2%
Line Equipment (731-735)	902	750	2,259	(152)	-20.3%	1,357	60.1%
Converters (741)	-	583	(1,406)	583	NM	(1,406)	NM
Ad Insertion (966)	-	-	-	-	NM	-	NM
Property Taxes (794)	2,575	2,265	2,367	(310)	-13.7%	(208)	-8.8%
Video Labor	155,596	145,265	158,043	(10,331)	-7.1%	2,447	1.5%
Total Video Expense	**893,974**	**937,101**	**943,255**	**43,127**	**4.6%**	**49,281**	**5.2%**
% of Operating Revenue	*36.1%*	*37.8%*	*37.2%*				
Internet							
Data/Internet Access Charges (851-853)	36,365	38,427	39,672	2,062	5.4%	3,307	8.3%
Promotional Expense (961)	1,044	1,437	1,004	393	27.3%	(40)	-4.0%
Electricity Expense (836)	-	-	-	-	NM	-	NM
Pole Attachment Expense (837)	4,792	4,645	4,274	(147)	-3.2%	(518)	-12.1%
Underground Line Expense (843)	353	-	268	(353)	NM	(85)	-31.8%
Miscellaneous Data/Internet Expense (839, 844, 848)	23,531	19,522	21,597	(4,009)	-20.5%	(1,934)	-9.0%
Internet Equipment (810)	43,437	53,833	31,969	10,397	19.3%	(11,468)	-35.9%
Vehicle Expense (860)	2,563	2,996	940	433	14.4%	(1,623)	-172.7%
Maintenance:							
Fiber (811)	13,034	3,365	3,809	(9,669)	-287.4%	(9,225)	-242.2%
Coax (813)	-	-	-	-	NM	-	NM
Drops (814)	225	536	1,642	311	58.0%	1,417	86.3%
Conduit System (816)	3,614	1,035	-	(2,579)	-249.2%	(3,614)	NM
Network Operations Center (820, 821)	65,290	34,847	45,101	(30,443)	-87.4%	(20,189)	-44.8%
Line Equipment (831-835)	902	-	2,259	(902)	NM	1,357	60.1%
Modems (841)	-	10,800	-	10,800	NM	-	NM
Property Taxes (894)	2,809	2,679	2,582	(130)	-4.8%	(227)	-8.8%
Internet Labor	159,984	136,801	150,219	(23,183)	-16.9%	(9,765)	-6.5%
Total Internet Expense	**357,943**	**310,923**	**305,335**	**(47,019)**	**-15.1%**	**(52,608)**	**-17.2%**
% of Operating Revenue	*14.5%*	*12.6%*	*12.1%*				

Muscatine Power & Water - Communications Utility
Summary of Expense
Year To Date - February 2026

Summary of Expense	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget $	%	Vs Prior Yr $	%
Enterprise							
Pole Attachment Expense (838)	$ 543	$ 1,087	$ 428	544	50.1%	(115)	-26.8%
Tools Expense (845)	-	-	-	-	NM	-	NM
Misc Enterprise Expense (849)	3,874	4,010	3,614	136	3.4%	(260)	-7.2%
Maintenance:							
Fiber (812)	1,005	296	374	(709)	-239.4%	(631)	-168.6%
Conduit System (817)	262	75	-	(187)	-249.2%	(262)	NM
Enterprise Equipment (818, 819)	281	11,917	5,715	11,635	97.6%	5,434	95.1%
Property Taxes (896)	410	355	377	(54)	-15.3%	(33)	-8.8%
Enterprise Labor	13,202	13,853	12,102	651	4.7%	(1,100)	-9.1%
Total Enterprise Expense	**19,577**	**31,593**	**22,611**	**12,016**	**38.0%**	**3,034**	**13.4%**
% of Operating Revenue	*0.8%*	*1.3%*	*0.9%*				
Phone							
Operating Expense (880)	21,780	32,111	19,622	10,331	32.2%	(2,159)	-11.0%
Phone Labor	5,242	10,917	9,589	5,675	52.0%	4,347	45.3%
Total Phone Expense	**27,022**	**43,028**	**29,211**	**16,006**	**37.2%**	**2,188**	**7.5%**
% of Operating Revenue	*1.1%*	*1.7%*	*1.2%*				
Customer Information Expense (909)	**5,465**	**10,024**	**1,861**	**4,559**	**45.5%**	**(3,604)**	**-193.7%**
% of Operating Revenue	*0.2%*	*0.4%*	*0.1%*				
Consumer Accounts & Records							
Consumer Records and Collections (903)	10,970	21,670	26,744	10,700	49.4%	15,775	59.0%
Uncollectible Accounts Expense (904)	11,495	11,495	7,236	-	0.0%	(4,259)	-58.9%
Total Consumer Accounts & Records Expense	**22,464**	**33,165**	**33,980**	**10,700**	**32.3%**	**11,516**	**33.9%**
% of Operating Revenue	*0.9%*	*1.3%*	*1.3%*				
Administrative & General							
Office Supplies and Expense (921)	11,994	11,216	3,560	(777)	-6.9%	(8,434)	-236.9%
Outside Services Employed (923)	13,354	21,294	2,587	7,940	37.3%	(10,767)	-416.2%
Property Insurance (924)	7,354	12,202	6,023	4,848	39.7%	(1,332)	-22.1%
Casualty Ins, Injuries & Damages (925)	16,704	20,013	10,137	3,309	16.5%	(6,567)	-64.8%
Employee Benefits (926)	175,770	140,268	163,185	(35,502)	-25.3%	(12,585)	-7.7%
Employee Pensions (926-PEN)	34,688	34,688	65,386	-	0.0%	30,698	46.9%
Fringe Benefits Charged to Construction	(8,252)	(11,667)	(12,798)	(3,415)	-29.3%	(4,545)	-35.5%
Rents (931)	24,940	24,940	24,214	-	0.0%	(726)	-3.0%
Miscellaneous General Expense (930)	36,447	48,879	36,891	12,432	25.4%	445	1.2%
A&G Adder (930-AGA)	(6,823)	(34,333)	(558)	(27,510)	-80.1%	6,265	NM
Maintenance of General Plant (932)	21,010	30,890	12,552	9,880	32.0%	(8,459)	-67.4%
A&G Labor	254,874	248,409	254,463	(6,465)	-2.6%	(410)	-0.2%
Total Administrative & General Expense	**582,060**	**546,799**	**565,642**	**(35,261)**	**-6.4%**	**(16,418)**	**-2.9%**
% of Operating Revenue	*23.5%*	*22.1%*	*22.3%*				
TOTAL OPERATING EXPENSE	**$ 1,908,505**	**$ 1,912,634**	**$ 1,901,894**	**$ 4,128**	**0.2%**	**$ (6,611)**	**-0.3%**
% of Operating Revenue	*77.1%*	*77.2%*	*75.1%*				

Depreciation							
Video Depreciation (793)	37,120	46,650	37,407	9,530	20.4%	288	0.8%
Internet Depreciation (893)	185,580	196,168	175,710	10,588	5.4%	(9,870)	-5.6%
Enterprise Depreciation (840)	15,003	15,134	15,166	131	0.9%	164	1.1%
A&G Depreciation (933)	35,168	39,739	35,789	4,571	11.5%	621	1.7%
Subscription-Based IT Arrangements Amort (428)	21,849	19,154	18,528	(2,695)	-14.1%	(3,321)	-17.9%
Total Depreciation	**$ 294,719**	**$ 316,844**	**$ 282,600**	**$ 22,125**	**7.0%**	**$ (12,119)**	**-4.3%**
% of Operating Revenue	*11.9%*	*12.8%*	*11.2%*				

Muscatine Power and Water - Communications Utility
Subscribers
February 2026

Subscribers	Results			Variance			
	Actual	Budget	Prior Year	Vs Budget	%	Vs Prior Yr	%
Video							
Residential	2,657	2,730	2,878	*(73)*	*-2.7%*	*(221)*	*-7.7%*
Residential Bulk	254	199	253	*55*	*27.6%*	*1*	*0.4%*
Commercial/Hospitality	96	96	103	*-*	*0.0%*	*(7)*	*-6.8%*
Commercial Bulk	283	283	283	*-*	*0.0%*	*-*	*0.0%*
Total Video	**3,290**	**3,308**	**3,517**	***(18)***	***-0.5%***	***(227)***	***-6.5%***
Data/Internet							
Residential	9,409	9,390	9,524	*19*	*0.2%*	*(115)*	*-1.2%*
Commercial	726	724	729	*2*	*0.3%*	*(3)*	*-0.4%*
Total Data/Internet	**10,135**	**10,114**	**10,253**	***21***	***0.2%***	***(118)***	***-1.2%***
Phone							
Residential	483	490	503	*(7)*	*-1.4%*	*(20)*	*-4.0%*
Commercial/Enterprise	782	699	522	*83*	*11.9%*	*260*	*49.8%*
Total Phone	**1,265**	**1,189**	**1,025**	***76***	***6.4%***	***240***	***23.4%***
Enterprise							
MAN	38	35	39	*3*	*8.6%*	*(1)*	*-2.6%*
MDC	56	40	39	*16*	*40.0%*	*17*	*43.6%*
Leased Fiber	29	28	24	*1*	*3.6%*	*5*	*20.8%*
Total Enterprise	**123**	**103**	**102**	***20***	***19.4%***	***21***	***20.6%***

City of Muscatine

ITEM NUMBER 2026-0135

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

David Popp, Solid Waste Manager
Brian Stineman, Public Works Director

SUBJECT

Request to approve the issuance of a purchase order to D.J. Gongol & Associates, in the amount of $8,596.79, for the purchase of a Leachate Pump for the landfill

EXECUTIVE SUMMARY

Staff requests the approval of a purchase order to D.J. Gongle & Associates for the purchase of a replacement leachate pump for the landfill.

STAFF RECOMMENDATION

Staff recommends Council approve the issuance of a purchase order in the amount of $8,596.79 to D.J. Gongle & Associates for the cost of a Gorman-Rupp four inch pump.

BACKGROUND/DISCUSSION

The landfill operates two electric pumps that are part of the leachate collection system. In January, the pump in the east pump house froze and cracked the pump housing due to the electric heater shorting out and not keeping temperatures in the pump house above freezing. The pump has been reassembled and is currently working, but due to a crack in the housing that is leaking, the pump will need to be replaced. There is one supplier of Gorman-Rupp pumps in the mid-West. No additional quotes are available for the replacement pump.

CITY FINANCIAL IMPACT

Cost for this item will be absorbed in the operating budget.

ATTACHMENTS

1. 2026.02.25 QUOTE GR Muscatine IA - DJG-22653 - Frozen T4

D.J. GONGOL & ASSOCIATES, INC.
PO BOX 180 • CUMMING, IA 50061-0180 (US MAIL ONLY)
4328 NORTH DAWSON • CUMMING, IA 50061 (UPS/FEDEX ONLY)
515-223-4144 • 515-981-0581 FAX
PUMPSTOREUSA.COM

VERNE GONGOL
BRIAN GONGOL
BILL GONGOL

To: City of Muscatine WPCP
1202 Musser St
Muscatine, IA 52761

February 25, 2026

Attn: Kent Hitchcock <mfulton@muscatineiowa.gov>
(563) 506-5708

Re: Gorman Rupp T4A60S-B/F Pump (SN: 1530690)

Ref: DJG-22653

Dear Kent:

On the terms and conditions named herein, we are pleased to quote as follows:

Option A: New Pump

(qty. 1) Gorman-Rupp T4A60S-B /F Pump **$ 8,297.00 plus freight**

- 4" flanged suction and discharge
- cast iron casing
- ductile iron impeller, wear plate, and seal plate
- Silicon Carbide mechanical seal
- quoted with single coat of standard blue factory paint
  - (stock units can be blue or white)
- freight, startup, motors, base, controls, belts, sheaves, air-release valves, and other accessories are not included
- Estimated shipping weight: 665 lbs.
- Currently in stock (subject to prior sale)

FOB Mansfield, OH with freight to be prepaid and added to your invoice.
Payment: Net 15

Total for Option A: $ 8,297.00 plus freight

D.J. GONGOL & ASSOCIATES, INC.
PO BOX 180 • CUMMING, IA 50061-0180 (US MAIL ONLY)
4328 NORTH DAWSON • CUMMING, IA 50061 (UPS/FEDEX ONLY)
515-223-4144 • 515-981-0581 FAX
PUMPSTOREUSA.COM

VERNE GONGOL
BRIAN GONGOL
BILL GONGOL

Option B: New Casing

(qty. 1) Gorman-Rupp 46472-721 Casing for T6A60S-B Pump	**$ 6,051.64 plus freight**
(qty. 2) Gorman-Rupp S1674 O-Ring	**$ 6.45 each**
• 1 for Back Cover Assembly, 1 for Rotating Assembly	
(qty. 2) Gorman-Rupp 25152-273 O-Ring	**$ 8.70 each**
• 1 for Back Cover Assembly, 1 for Rotating Assembly	
(qty. 1) Gorman-Rupp 50G 19210 Fill Cover Gasket (Teflon)	**$ 16.40**

FOB Mansfield, OH with freight to be prepaid and added to your invoice.
Payment: Net 15

Total for Option B: $ 6,098.34 plus freight

No startup services: Startup services are not included in this quotation. Please consult our office for a separate quotation on startup services if required.

If favored with your order, please issue it, along with a signed copy of the attached terms and conditions, to:

D.J. Gongol & Associates, Inc.
PO Box 180
Cumming, IA 50061-0180

sales@gongol.net
515-223-4144 office
515-981-0581 fax

Please call us if you have any questions regarding our quotation or if you note any problems or discrepancies therein. All terms and conditions of this quotation are subject to the approval and acceptance of the manufacturer of the products named.

Thank you for your consideration on this project. We look forward to working with you. Please let us know if you have any questions.

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VERNE GONGOL
BRIAN GONGOL
BILL GONGOL

Sincerely,

Bill Gongol
D.J. Gongol & Associates, Inc.

D.J. GONGOL & ASSOCIATES, INC.
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BILL GONGOL

TERMS AND CONDITIONS

1. Terms are Net 15 days from date of shipment, subject to approval of continued credit status. These terms are independent of, and are not contingent upon, the time or manner in which purchaser may receive payment from others. Late charges of 1.5% per month shall be imposed on previous balance of monthly billing statement.

2. Partial payments shall be made for partial shipments.

3. Equipment and/or materials offered on this proposal carry the manufacturer's standard warranty unless noted in the proposal. No other warranties or guarantees are expressed or implied. All standard terms of sale of the respective manufacturers apply to this transaction.

4. Unless specifically detailed in this proposal, startup services or supervision are not included. They are available for an additional charge.

5. Cancellation of equipment offered on this proposal will only be accepted on terms that will protect the interests of the seller and shall result in cancellation charges that include all costs incurred plus anticipated profit.

6. Title to materials specified herein, and to any and all additions and accessories thereto and substitutions therefore shall remain with seller until the purchase price is paid in full.

7. Delivery and scheduling information is our best estimate based upon experience and information from suppliers. Seller shell not be held responsible for delays or in any case for consequential damages resulting from delays beyond the schedule furnished.

8. Seller will accept no charges for loss, shortage, or damage in transit but will assist Purchaser in preparing claims against transportation companies if Purchaser will make note of apparent damage or shortage when signing freight receipts. All claims must be made within ten days after receipt of shipment.

9. Any Installation, Operation, & Maintenance manuals that will be furnished will be the manufacturer's STANDARD FORMAT. The number of manuals furnished will be detailed in the proposal. If it is not, please contact the remitter. Binders for the manuals or Custom Manuals will be furnished on a time and materials basis.

10. Any state and/or local taxes are not included and are the obligation of the purchaser.

11. Purchaser agrees that in the event of default in the payment of any amount due, to pay an additional charge equal to the cost of collection including agency and attorney fees and court costs incurred and permitted by laws governing these transactions.

12. We carry adequate amounts of the following insurance coverages: Automobile, Workman's Compensation and a very thorough Business Owners Policy which includes Property Damage and Liability. These coverages apply to all our business endeavors. We reserve the right to bill the customer if we are required to provide any special certificates of insurance other than any that were specifically included in our proposal

ACCEPTED THIS _____ DAY OF _____, 2025

PURCHASER:_____

By: _____
Authorized Signature

Title: _____

SUBMITTED: _____

D. J. Gongol & Associates, Inc.

By: _____
Authorized Signature

Title: _____

Accounts Payable

Transactions by Account

User: SMeyer
Printed: 04/02/2026 - 12:07PM
Batch: 00009.03.2026



Account Number	Vendor	Description	GL Date	Check No	Amount	PO No
1000-00-0000-23150	ILLINOIS DEPARTMENT OF REVEN	PR Batch 00003.03.2026 State Income T	03/27/2026	0	500.41	
1000-00-0000-23150	ILLINOIS DEPARTMENT OF REVEN	PR Batch 00001.03.2026 State Income T	03/13/2026	0	584.11	
		Vendor Subtotal:			1,084.52	
1000-00-0000-23550	RELIANCE STANDARD LIFE INS CC	PR Batch 00002.02.2026 Life Insurance	02/27/2026	0	1.20	
1000-00-0000-23550	RELIANCE STANDARD LIFE INS CC	PR Batch 00002.02.2026 Life Insurance	02/27/2026	0	1.46	
		Vendor Subtotal:			2.66	
1000-00-0000-23630	RELIANCE STANDARD LIFE INS CC	PR Batch 00001.02.2026 Optional Life	02/13/2026	0	358.16	
1000-00-0000-23630	RELIANCE STANDARD LIFE INS CC	PR Batch 00002.02.2026 Optional Life	02/27/2026	0	358.17	
		Vendor Subtotal:			716.33	
1000-01-1111-61120	BOHNSACK & FROMMELT LLP	Audit Services FY25	03/31/2026	0	2,000.00	
		Vendor Subtotal:			2,000.00	
1000-01-1121-61210	MUSCATINE COUNTY ATTORNEY	Serving Papers	03/31/2026	0	102.97	
		Vendor Subtotal:			102.97	
1000-01-1131-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	58.88	
		Vendor Subtotal:			58.88	
1000-01-1131-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	72.78	

		Vendor Subtotal:			72.78
1000-01-1131-51400	CINDA HILGER	Reimb Clerk Certification	03/30/2026	0	150.00
		Vendor Subtotal:			150.00
1000-01-1132-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	20.10
		Vendor Subtotal:			20.10
1000-01-1132-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	24.76
		Vendor Subtotal:			24.76
1000-01-1132-64700	DAVID HARRIS	Training	03/31/2026	0	4,812.50
1000-01-1132-64700	DAVID HARRIS	Training	03/31/2026	0	4,375.00
		Vendor Subtotal:			9,187.50
1000-01-1144-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	5.72
		Vendor Subtotal:			5.72
1000-01-1144-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	6.59
		Vendor Subtotal:			6.59
1000-01-1144-52840	VISION CENTER PC	Safety Glasses - J Rangel	03/31/2026	0	125.00
		Vendor Subtotal:			125.00
1000-01-1144-61550	DSI MEDICAL SERVICES INC	Randoms	03/31/2026	0	667.50
		Vendor Subtotal:			667.50
1000-01-1218-68100	MUSCATINE CHAMBER OF COMMI	April 2026 - June 2026	04/02/2026	0	33,750.00

		Vendor Subtotal:			33,750.00
1000-01-1531-61660	JEREMY FERGUSON	Special Meeting 3/31/26	03/31/2026	0	166.00
		Vendor Subtotal:			166.00
1000-05-1141-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	29.62
		Vendor Subtotal:			29.62
1000-05-1141-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	38.09
		Vendor Subtotal:			38.09
1000-05-1141-65100	QUAD CITY TIMES & MUSC JOURN	Budget 2/26/26	03/31/2026	0	27.36
1000-05-1141-65100	QUAD CITY TIMES & MUSC JOURN	Minutes 3/17/26	03/31/2026	0	460.33
1000-05-1141-65100	QUAD CITY TIMES & MUSC JOURN	Minutes 3/10/26	03/31/2026	0	48.56
1000-05-1141-65100	QUAD CITY TIMES & MUSC JOURN	Public Hearing EBikes	03/31/2026	0	47.20
1000-05-1141-65100	QUAD CITY TIMES & MUSC JOURN	Ordinance - Vacating	03/31/2026	0	47.88
1000-05-1141-65100	QUAD CITY TIMES & MUSC JOURN	Public Hearing EBikes	03/31/2026	0	47.20
1000-05-1141-65100	QUAD CITY TIMES & MUSC JOURN	Minutes 3/3/26	03/31/2026	0	300.96
1000-05-1141-65100	QUAD CITY TIMES & MUSC JOURN	Minutes 2/17/26	03/31/2026	0	361.15
		Vendor Subtotal:			1,340.64
1000-05-1143-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	25.16
		Vendor Subtotal:			25.16
1000-05-1143-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	44.21
		Vendor Subtotal:			44.21
1000-05-1143-51400	DAWN MOSTELLER	Reimb Stand Up Desk	03/30/2026	0	124.99
		Vendor Subtotal:			124.99
1000-05-1143-51400	SHELLEY MEYER	Reimb Stand Up Desk	03/30/2026	0	109.99

			Vendor Subtotal:			109.99
1000-05-1145-51300	OFFICE EXPRESS	8 1/2 X 11 20# White Xerographic Paper		03/31/2026	0	1,568.00 00033044
			Vendor Subtotal:			1,568.00
1000-05-1145-63300	PITNEY BOWES GLOBAL FINANCI/	Postage Machine		03/31/2026	0	424.32
			Vendor Subtotal:			424.32
1000-05-1145-69200	PITNEY BOWES GLOBAL FINANCI/	#765-9 Red Ink Cartridge for Postage Ma		03/30/2026	0	483.03 00033185
			Vendor Subtotal:			483.03
1000-05-1146-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	30.38
			Vendor Subtotal:			30.38
1000-05-1146-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	39.81
			Vendor Subtotal:			39.81
1000-05-1146-51400	AMAZON.COM	Power Cable		03/30/2026	0	3.52
			Vendor Subtotal:			3.52
1000-05-1146-52890	AMAZON.COM	Power Cord		03/31/2026	0	16.49
1000-05-1146-52890	AMAZON.COM	Charging Cable		03/31/2026	0	5.99
1000-05-1146-52890	AMAZON.COM	Ethernet Cable		03/30/2026	0	15.87
			Vendor Subtotal:			38.35
1000-05-1146-61330	WINSOR CONSULTING GROUP LLC	Consulting		03/31/2026	0	342.00
			Vendor Subtotal:			342.00
1000-05-1146-61340	WINSOR CONSULTING GROUP LLC	ConnectWise		04/02/2026	0	756.38

		Vendor Subtotal:			756.38
1000-05-1146-61340	SHI INTERNATIONAL CORP	ULS-U100-Y1 UserLock Annual Mainte	03/27/2026	0	4,449.60 00033073
		Vendor Subtotal:			4,449.60
1000-05-1146-61340	IDRIVE	Remote PC	04/02/2026	0	374.62
		Vendor Subtotal:			374.62
1000-05-1146-65240	MUSCATINE POWER & WATER	March Internet - Weed Park	03/31/2026	0	83.18
1000-05-1146-65240	MUSCATINE POWER & WATER	Feb - Mar Machlink	03/31/2026	0	1,057.84
1000-05-1146-65240	MUSCATINE POWER & WATER	February Internet - PW	03/27/2026	0	387.00
		Vendor Subtotal:			1,528.02
1000-05-1146-65260	VERIZON WIRELESS	February Cell Phones	03/31/2026	0	118.50
1000-05-1146-65260	VERIZON WIRELESS	March Cell Phones	03/31/2026	0	118.50
		Vendor Subtotal:			237.00
1000-10-1221-35380	TGF LLC	Reimb Nuisance Abatement	03/31/2026	0	172.74
		Vendor Subtotal:			172.74
1000-10-1221-35380	MONRO INC	Reimb Nuisnace Abatement	03/31/2026	0	793.32
		Vendor Subtotal:			793.32
1000-10-1221-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	73.41
		Vendor Subtotal:			73.41
1000-10-1221-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	107.45
		Vendor Subtotal:			107.45

1000-10-1221-51100	AMAZON.COM	Filter	03/30/2026	0	16.10
1000-10-1221-51100	AMAZON.COM	Filter	03/30/2026	0	27.97
		Vendor Subtotal:			44.07
1000-10-1221-61660	GOERDT INSPECTION & CONSULT/	Inspections	03/31/2026	0	315.00
		Vendor Subtotal:			315.00
1000-10-1221-61660	A KLEINFELDER COMPANY	Plan Reviews	03/31/2026	0	3,542.00
		Vendor Subtotal:			3,542.00
1000-10-1221-62310	ADVANCED BUSINESS SYSTEMS IN	Copier	03/31/2026	0	34.15
		Vendor Subtotal:			34.15
1000-10-1221-62310	XEROX CORPORATION	January Copier/Copies	03/31/2026	0	27.58
1000-10-1221-62310	XEROX CORPORATION	February Copier/Copies	03/31/2026	0	27.58
		Vendor Subtotal:			55.16
1000-10-1221-62370	LUPTON & TOYNE PRINTERS	Envelopes	03/31/2026	0	94.00
		Vendor Subtotal:			94.00
1000-10-1221-65100	QUAD CITY TIMES & MUSC JOURN	Redemption - 1815 Schley	03/31/2026	0	85.95
1000-10-1221-65100	QUAD CITY TIMES & MUSC JOURN	Redemption - 1805 Bryan Ave	03/31/2026	0	80.22
1000-10-1221-65100	QUAD CITY TIMES & MUSC JOURN	Redemption - 2003 Breese	03/31/2026	0	83.66
1000-10-1221-65100	QUAD CITY TIMES & MUSC JOURN	Redemption - 1114 Nebraska	03/31/2026	0	82.51
1000-10-1221-65100	QUAD CITY TIMES & MUSC JOURN	Redemption - 0825154030	03/31/2026	0	84.81
1000-10-1221-65100	QUAD CITY TIMES & MUSC JOURN	Houser ReZoning	03/31/2026	0	30.10
1000-10-1221-65100	QUAD CITY TIMES & MUSC JOURN	Mittman ReZoning	03/31/2026	0	80.71
		Vendor Subtotal:			527.96
1000-10-1221-65275	VERIZON WIRELESS	February Cell Phones	03/31/2026	0	233.12
1000-10-1221-65275	VERIZON WIRELESS	January Cell Phones	03/31/2026	0	233.12

		Vendor Subtotal:			466.24
1000-10-1221-69800	POINT & PAY LLC	Credit Card Fees	03/31/2026	0	519.47
1000-10-1221-69800	POINT & PAY LLC	Credit Card Fees	03/31/2026	0	274.49
1000-10-1221-69800	POINT & PAY LLC	February Credit Card	03/31/2026	0	15.00
		Vendor Subtotal:			808.96
1000-10-1221-74200	AMAZON.COM	Calculator	03/30/2026	0	35.56
		Vendor Subtotal:			35.56
1000-15-1311-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	315.27
		Vendor Subtotal:			315.27
1000-15-1311-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	282.10
1000-15-1311-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March	03/31/2026	0	12.49
		Vendor Subtotal:			294.59
1000-15-1311-52300	GALLS LLC	Tactical Uniform	03/31/2026	0	208.00
		Vendor Subtotal:			208.00
1000-15-1311-52300	PANTHER UNIFORMS INC	Merit Awards	03/31/2026	0	203.00
		Vendor Subtotal:			203.00
1000-15-1311-52300	AMAZON.COM	Replacement Uniforms - D Wheeler	03/31/2026	0	87.73
1000-15-1311-52300	AMAZON.COM	Tactical Pant Replacement	03/31/2026	0	89.99
		Vendor Subtotal:			177.72
1000-15-1311-52890	MENARDS (MUSC)	Towels/Cleaner	03/31/2026	0	101.98
1000-15-1311-52890	MENARDS (MUSC)	Furring Strip/Screws	03/31/2026	0	125.81
1000-15-1311-52890	MENARDS (MUSC)	Batteries	03/31/2026	0	24.99

		Vendor Subtotal:			252.78
1000-15-1311-61520	OSF HEALTHCARE	Medical J Jirak DOS 3/31/25 Code: 7320	03/31/2026	0	1,320.00
1000-15-1311-61520	OSF HEALTHCARE	Medical J Jirak DOS 6/9/25 Code: 73030	03/30/2026	0	219.16
		Vendor Subtotal:			1,539.16
1000-15-1311-61520	HEARTLAND ANESTHESIA & CONS	Medical J Hesseling DOS 6/11/25 Code:	03/31/2026	0	315.00
		Vendor Subtotal:			315.00
1000-15-1311-61520	UNITY HEALTHCARE-HOSPITAL	Medical J Bryant DOS 3/31/25 Code: 73(	03/31/2026	0	47.90
		Vendor Subtotal:			47.90
1000-15-1311-61520	EQUIAN LLC	Medical Fee J Jirak DOS 6/9/25	03/30/2026	0	-54.79
		Vendor Subtotal:			-54.79
1000-15-1311-61520	UNITY HEALTHCARE - TRINITY MI	Medical R Buss DOS 2/19/26	03/30/2026	0	187.00
1000-15-1311-61520	UNITY HEALTHCARE - TRINITY MI	Medical R Buss DOS 2/19/26	03/30/2026	0	272.18
1000-15-1311-61520	UNITY HEALTHCARE - TRINITY MI	Medical W Pena DOS 2/23/26	03/30/2026	0	187.00
1000-15-1311-61520	UNITY HEALTHCARE - TRINITY MI	Medical W Pena DOS 2/23/26	03/30/2026	0	253.00
		Vendor Subtotal:			899.18
1000-15-1311-61550	OSF HEALTHCARE	Medical J Jirak DOS 5/29/25 Code: 2347	03/31/2026	0	5,957.89
1000-15-1311-61550	OSF HEALTHCARE	Medical J Jirak DOS 5/29/25 Code: 2347	03/31/2026	0	1,947.40
		Vendor Subtotal:			7,905.29
1000-15-1311-61660	IOWA ACTIVE MANAGEMENT	Training Speaker	03/31/2026	0	150.00
		Vendor Subtotal:			150.00
1000-15-1311-62370	LUPTON & TOYNE PRINTERS	Business Cards - Koch	03/31/2026	0	30.00

		Vendor Subtotal:				30.00
1000-15-1311-64200	MID-STATES ORGANIZED CRIME I	Surveillance Equipment Course B James	03/31/2026	0	5,200.00	
		Vendor Subtotal:				5,200.00
1000-15-1311-64700	DAVID HARRIS	Training - Wheeler/Schump	03/31/2026	0	875.00	
		Vendor Subtotal:				875.00
1000-15-1311-65210	MUSCATINE POWER & WATER	March Phones - PSB	03/27/2026	0	45.89	
		Vendor Subtotal:				45.89
1000-15-1311-65240	MUSCATINE POWER & WATER	Febraury Cameras	03/31/2026	0	850.00	
		Vendor Subtotal:				850.00
1000-15-1311-67320	ADVANCED BUSINESS SYSTEMS I	Copier	03/31/2026	0	75.01	
		Vendor Subtotal:				75.01
1000-15-1311-67320	SIGN WORKS OF MUSCATINE LLC	Re Letter 759	03/31/2026	0	167.00	
		Vendor Subtotal:				167.00
1000-15-1311-74200	APPLIED CONCEPTS INC	Stalker DSR 2 Antenna Radar Unit	03/31/2026	0	9,579.00	00032640
		Vendor Subtotal:				9,579.00
1000-15-1311-74200	HARPERS CYCLING & FITNESS	New Bike PD	03/31/2026	0	3,000.00	
		Vendor Subtotal:				3,000.00
1000-15-1312-61530	MUSCATINE VETERINARY HOSPIT	Vet Services - Coco	03/31/2026	0	20.50	
		Vendor Subtotal:				20.50

1000-15-1316-52500	SAMANTHA WHEELER	Reimb Dog Choke Collar		03/31/2026	0	9.99
			Vendor Subtotal:			9.99
1000-15-1316-61530	SAMANTHA WHEELER	Reimb Grooming		03/31/2026	0	75.00
			Vendor Subtotal:			75.00
1000-15-1317-65260	MUSCATINE CO ADMINISTRATION	March HIDTA Phones		03/31/2026	0	131.56
			Vendor Subtotal:			131.56
1000-20-1321-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	416.76
			Vendor Subtotal:			416.76
1000-20-1321-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	162.37
			Vendor Subtotal:			162.37
1000-20-1321-46700	MISSION SQUARE	P Gingerich RHS Retirement Contributio		03/31/2026	0	22,155.20
1000-20-1321-46700	MISSION SQUARE	E Hutmacher RHS Retirement Contributi		03/31/2026	0	20,481.90
			Vendor Subtotal:			42,637.10
1000-20-1321-51100	AMAZON.COM	Legal Pads		03/27/2026	0	10.95
1000-20-1321-51100	AMAZON.COM	Sticky Notes		03/30/2026	0	13.98
			Vendor Subtotal:			24.93
1000-20-1321-52300	FELD FIRE	Phenix Traditional Composite Fire Helm		03/31/2026	0	527.00 00032929
			Vendor Subtotal:			527.00
1000-20-1321-52300	PANTHER UNIFORMS INC	Sew Patch		03/27/2026	0	3.00 00033113
1000-20-1321-52300	PANTHER UNIFORMS INC	Embroider Logo		03/27/2026	0	8.00 00033113
1000-20-1321-52300	PANTHER UNIFORMS INC	Name/Rank Embroidered		03/27/2026	0	5.00 00033113
1000-20-1321-52300	PANTHER UNIFORMS INC	5-72534ABR720LT Jobshirt - NV L/Tall		03/27/2026	0	89.00 00033113

1000-20-1321-52300	PANTHER UNIFORMS INC	5-64369ABR72414R EMS Pants-Navy-	03/27/2026	0	228.00	00032998
1000-20-1321-52300	PANTHER UNIFORMS INC	Embroider Logo	03/27/2026	0	8.00	00032998
1000-20-1321-52300	PANTHER UNIFORMS INC	Long-Sleeve Button-up (Light Blue) sz 1	03/27/2026	0	72.95	00031938
1000-20-1321-52300	PANTHER UNIFORMS INC	Long-Sleeve Button-up (Light Blue) sz 1	03/27/2026	0	1.86	
1000-20-1321-52300	PANTHER UNIFORMS INC	Name/Rank Embroidered	03/27/2026	0	5.00	00032998
1000-20-1321-52300	PANTHER UNIFORMS INC	3730 Job Shirt Navy :M/R	03/27/2026	0	85.00	00032998
1000-20-1321-52300	PANTHER UNIFORMS INC	P824 LS Shirt - Navy 16-35	03/27/2026	0	62.95	00033113
1000-20-1321-52300	PANTHER UNIFORMS INC	Uniforms for Gess 5-74363ABR7243432	03/27/2026	0	228.00	00033113
1000-20-1321-52300	PANTHER UNIFORMS INC	New Hire - G Gess	03/31/2026	0	330.00	
1000-20-1321-52300	PANTHER UNIFORMS INC	Uniforms for Promotion - Lt. Paustian Sh	03/31/2026	0	102.95	00031940
1000-20-1321-52300	PANTHER UNIFORMS INC	Job Shirt (Navy) sz 3XL with 2 Embroid	03/31/2026	0	108.00	00031940
1000-20-1321-52300	PANTHER UNIFORMS INC	Long-Sleeve Button-Up (Light Blue) sz 2	03/31/2026	0	110.95	00031940
1000-20-1321-52300	PANTHER UNIFORMS INC	Promotion Uniform Shirt - J Verschoore	03/31/2026	0	69.95	
1000-20-1321-52300	PANTHER UNIFORMS INC	ELB-E2804R Pant - Navy	03/31/2026	0	65.00	00033112
1000-20-1321-52300	PANTHER UNIFORMS INC	5-72534ABR720LR Jobshirt - NV L/R	03/31/2026	0	89.00	00033112
1000-20-1321-52300	PANTHER UNIFORMS INC	Uniforms for Dylan Ruiz P824 LS Shirt	03/31/2026	0	62.95	00033112
1000-20-1321-52300	PANTHER UNIFORMS INC	Name/Rank Embroidered	03/31/2026	0	5.00	00033112
1000-20-1321-52300	PANTHER UNIFORMS INC	5-72534ABR720LR Jobshirt - NV L/R	03/31/2026	0	89.00	00033111
1000-20-1321-52300	PANTHER UNIFORMS INC	Sew Patch 3	03/31/2026	0	3.00	00033111
1000-20-1321-52300	PANTHER UNIFORMS INC	Name/Rank Embroidered	03/31/2026	0	5.00	00033111
1000-20-1321-52300	PANTHER UNIFORMS INC	Uniforms for Diego Rangel P834 SS Shir	03/31/2026	0	56.95	00033111
1000-20-1321-52300	PANTHER UNIFORMS INC	Embroider Logo	03/31/2026	0	8.00	00033111
1000-20-1321-52300	PANTHER UNIFORMS INC	Note Book Pocket	03/31/2026	0	16.00	00033112
1000-20-1321-52300	PANTHER UNIFORMS INC	5-74363ABR7243630 Pant - Navy 36x3(	03/31/2026	0	152.00	00033111
1000-20-1321-52300	PANTHER UNIFORMS INC	E2874R EMS Pant - Navy 36R	03/31/2026	0	77.95	00033111
1000-20-1321-52300	PANTHER UNIFORMS INC	5-74363ABR7243230 Pant - Navy 32x3(	03/31/2026	0	152.00	00033112
1000-20-1321-52300	PANTHER UNIFORMS INC	Sew Patch	03/31/2026	0	3.00	00033112
1000-20-1321-52300	PANTHER UNIFORMS INC	Embroider Logo	03/31/2026	0	8.00	00033112
1000-20-1321-52300	PANTHER UNIFORMS INC	Uniform Shirt - J Wilson	03/31/2026	0	76.95	
		Vendor Subtotal:			2,388.41	
1000-20-1321-52300	PHELPS CUSTOM IMAGE WEAR	Uniforms - Parkinson	03/27/2026	0	96.80	
1000-20-1321-52300	PHELPS CUSTOM IMAGE WEAR	Navy Firefighter Shirts for New Hires - S	03/31/2026	0	102.54	00033041
1000-20-1321-52300	PHELPS CUSTOM IMAGE WEAR	Navy Firefighter Shirts for New Hires - S	03/31/2026	0	102.54	00033041
		Vendor Subtotal:			301.88	
1000-20-1321-52300	PHELPS THE UNIFORM SPECIALIST	Dickies Mens' Diamond Quilted Jacket -	03/31/2026	0	113.89	00033148
1000-20-1321-52300	PHELPS THE UNIFORM SPECIALIST	Dickies Mens' Diamond Quilted Jacket -	03/31/2026	0	113.89	00033149
1000-20-1321-52300	PHELPS THE UNIFORM SPECIALIST	Dickies Mens' Diamond Quilted Jacket -	03/31/2026	0	113.89	00033149
1000-20-1321-52300	PHELPS THE UNIFORM SPECIALIST	Dickies Mens' Diamond Quilted Jacket -	03/31/2026	0	113.89	00033148

		Vendor Subtotal:			455.56	
1000-20-1321-52300	DINGES PARTNERS GROUP LLC	Repair Bunker Coat Tag Name Summitt	03/31/2026	0	271.68	00032832
		Vendor Subtotal:			271.68	
1000-20-1321-52750	MENARDS (MUSC)	LP Tank Exchange	03/30/2026	0	19.92	
		Vendor Subtotal:			19.92	
1000-20-1321-52840	MIDWEST BREATHING AIR LLC	Fill Station Replacement Pin Assembly	03/27/2026	0	112.32	00033123
		Vendor Subtotal:			112.32	
1000-20-1321-52890	MENARDS (MUSC)	Bowl Brush/Water	03/27/2026	0	78.78	
1000-20-1321-52890	MENARDS (MUSC)	Flange/Hex Bolt	03/30/2026	0	8.87	
		Vendor Subtotal:			87.65	
1000-20-1321-52890	AMAZON.COM	Battery	03/27/2026	0	57.82	
1000-20-1321-52890	AMAZON.COM	Foam Board/Poster Board	03/27/2026	0	67.15	
1000-20-1321-52890	AMAZON.COM	Energizer EN91 Industrial AA Batteries -	03/30/2026	0	128.14	00033131
1000-20-1321-52890	AMAZON.COM	Shammy	03/31/2026	0	29.97	
		Vendor Subtotal:			283.08	
1000-20-1321-53220	ARNOLD MOTOR SUPPLY	Filters	03/27/2026	0	59.64	
		Vendor Subtotal:			59.64	
1000-20-1321-61340	BOUND TREE MEDICAL LLC	ESO License	03/31/2026	0	1,947.00	
		Vendor Subtotal:			1,947.00	
1000-20-1321-61340	LEXIPOL LLC	Mobile Solution Contract Renewal	04/02/2026	0	4,811.04	
		Vendor Subtotal:			4,811.04	

1000-20-1321-61520	CARDIOVASCULAR MEDICINE PC	Medical N Welsch DOS 3/11/26 Code: 9	03/31/2026	0	207.00
1000-20-1321-61520	CARDIOVASCULAR MEDICINE PC	Medical K Hulme DOS 3/20/26	03/31/2026	0	167.00
1000-20-1321-61520	CARDIOVASCULAR MEDICINE PC	Medical K Hulme DOS 3/20/26 Code: 9	03/31/2026	0	40.00
		Vendor Subtotal:			414.00
1000-20-1321-61520	UNITY HEALTHCARE-HOSPITAL	Medical P Gingerich DOS 7/17/25 Code:	03/31/2026	0	104.00
		Vendor Subtotal:			104.00
1000-20-1321-61520	TMESYS LLC	Prescription - K McCarthy DOS 2/24/26	03/31/2026	0	15.37
1000-20-1321-61520	TMESYS LLC	Prescription - J Hall DOS 2/24/26	03/31/2026	0	62.32
1000-20-1321-61520	TMESYS LLC	Prescription - K McCarthy DOS 3/10/26	03/31/2026	0	88.48
		Vendor Subtotal:			166.17
1000-20-1321-61520	UNITY HEALTHCARE - TRINITY MI	Medical S Ripperger DOS 2/26/26	03/30/2026	0	157.00
1000-20-1321-61520	UNITY HEALTHCARE - TRINITY MI	Medical S Ripperger DOS 2/26/26	03/30/2026	0	107.00
1000-20-1321-61520	UNITY HEALTHCARE - TRINITY MI	Pre-Employment Testing D Clark	03/30/2026	0	1,459.18
		Vendor Subtotal:			1,723.18
1000-20-1321-61520	ANTHONY TATMAN	New Hire - N Welsh	03/31/2026	0	350.00
		Vendor Subtotal:			350.00
1000-20-1321-61550	CARDIOVASCULAR MEDICINE PC	Medical K Hulme DOS 2/27/26 Code: 93	03/31/2026	0	207.00
		Vendor Subtotal:			207.00
1000-20-1321-61560	UI HEALTH CARE MED CENTER	Medical J Hall DOS 9/22/25 Code 71045	03/27/2026	0	841.32
1000-20-1321-61560	UI HEALTH CARE MED CENTER	Medical 9/25 - 9/26 25 J Hall Code: 992	03/30/2026	0	2,042.10
1000-20-1321-61560	UI HEALTH CARE MED CENTER	Medical J Hall DOS 10/1/25 Code: 9923	03/30/2026	0	414.90
1000-20-1321-61560	UI HEALTH CARE MED CENTER	Medical J Hall DOS 9/16/25 Code: 9928	03/31/2026	0	784.80
1000-20-1321-61560	UI HEALTH CARE MED CENTER	Medical J Hall DOS 9/24/25 Code: 9330	03/31/2026	0	565.20
1000-20-1321-61560	UI HEALTH CARE MED CENTER	Medical J Hall DOS 9/24/25 Code: 7104	03/31/2026	0	37.72
1000-20-1321-61560	UI HEALTH CARE MED CENTER	Medical J Hall DOS 9/22/25 Code: 7104	03/31/2026	0	36.90
1000-20-1321-61560	UI HEALTH CARE MED CENTER	Medical J Hall DOS 9/22/25 Code: 7104	03/31/2026	0	36.90

		Vendor Subtotal:			4,759.84
1000-20-1321-61560	CARE AMBULANCE	Medical J Hall DOS 10/01/25 Code: A04	03/31/2026	0	320.68
1000-20-1321-61560	CARE AMBULANCE	Medical J Hall DOS 10/01/25 Code: A04	03/31/2026	0	539.85
		Vendor Subtotal:			860.53
1000-20-1321-61560	PSI HEALTH CARE INC	Medical J Hall DOS 12/8/25	03/27/2026	0	810.00
1000-20-1321-61560	PSI HEALTH CARE INC	Medical J Hall DOS 1/8/26	03/27/2026	0	810.00
1000-20-1321-61560	PSI HEALTH CARE INC	Medical J Hall DOS 2/8/26	03/27/2026	0	810.00
1000-20-1321-61560	PSI HEALTH CARE INC	Medical J Hall DOS 3/8/26	03/27/2026	0	810.00
1000-20-1321-61560	PSI HEALTH CARE INC	Medical J Hall DOS 10/8/25	03/27/2026	0	818.55
1000-20-1321-61560	PSI HEALTH CARE INC	Medical J Hall DOS 11/8/25	03/27/2026	0	810.00
		Vendor Subtotal:			4,868.55
1000-20-1321-61560	RADIOLOGY GROUP PC SC	Medical J Hall DOS 10/2/25 Code: 7104	03/27/2026	0	176.40
		Vendor Subtotal:			176.40
1000-20-1321-61560	EQUIAN LLC	Medical Fee J Hall DOS 10/02/25	03/27/2026	0	0.90
1000-20-1321-61560	EQUIAN LLC	Medical Fee J Hall DOS 9/20/25	03/27/2026	0	23.17
1000-20-1321-61560	EQUIAN LLC	Medical Fee J Hall DOS 9/25/25	03/30/2026	0	56.73
		Vendor Subtotal:			80.80
1000-20-1321-61560	TMESYS LLC	Prescription - K McCarthy DOS 3/6/26	03/30/2026	0	180.27
1000-20-1321-61560	TMESYS LLC	Prescription - J Barnhart DOS 3/2/26	03/30/2026	0	396.97
1000-20-1321-61560	TMESYS LLC	Prescription - T Eagle DOS 3/8/26	03/30/2026	0	250.06
		Vendor Subtotal:			827.30
1000-20-1321-62210	PHELPS THE UNIFORM SPECIALIST	Laundry - Fire	03/27/2026	0	34.62
		Vendor Subtotal:			34.62
1000-20-1321-62370	LUPTON & TOYNE PRINTERS	Business Cards - Rock	03/31/2026	0	58.00

		Vendor Subtotal:			58.00	
1000-20-1321-64200	IAPFC	Spring Conference	03/27/2026	0	20.00	
		Vendor Subtotal:			20.00	
1000-20-1321-64200	FIRE SERVICE TRAINING BUREAU	Registration for 2 Week Fire Investigator	03/31/2026	0	700.00	00033224
1000-20-1321-64200	FIRE SERVICE TRAINING BUREAU	Fire Investigator 2-Week Training Cours	03/31/2026	0	700.00	00033241
		Vendor Subtotal:			1,400.00	
1000-20-1321-64700	DAVID HARRIS	Training - Meredith/Collins	03/31/2026	0	875.00	
1000-20-1321-64700	DAVID HARRIS	Training - J Summitt	03/31/2026	0	437.50	
		Vendor Subtotal:			1,312.50	
1000-20-1321-65240	MUSCATINE POWER & WATER	March Phones - PSB	03/27/2026	0	42.79	
		Vendor Subtotal:			42.79	
1000-20-1321-67130	TANTARA TRANSPORTATION COR	Mechanical Labor Engine 311	03/27/2026	0	210.00	00032918
1000-20-1321-67130	TANTARA TRANSPORTATION COR	Mechanical Labor Engine 311	03/27/2026	0	157.50	00032918
1000-20-1321-67130	TANTARA TRANSPORTATION COR	Allison ATF Engine 311	03/27/2026	0	222.54	00032918
1000-20-1321-67130	TANTARA TRANSPORTATION COR	Fees Engine 311	03/27/2026	0	40.43	00032918
1000-20-1321-67130	TANTARA TRANSPORTATION COR	Sensor Nitrogen Oxide Engine 311	03/27/2026	0	683.64	00032918
		Vendor Subtotal:			1,314.11	
1000-20-1321-67320	MIDWEST BREATHING AIR LLC	Quarterly Testing	03/27/2026	0	326.75	
		Vendor Subtotal:			326.75	
1000-20-1321-67320	DRJ GROUP, LLC	SCBA Gasket - Specific	03/27/2026	0	774.00	00033176
1000-20-1321-67320	DRJ GROUP, LLC	Annual Hydrotest SCBA/Breathing Air C	03/27/2026	0	3,240.00	00033176
		Vendor Subtotal:			4,014.00	
1000-25-1115-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	3.44	

			Vendor Subtotal:			3.44
1000-25-1115-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	5.91
			Vendor Subtotal:			5.91
1000-25-1411-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	3.13
			Vendor Subtotal:			3.13
1000-25-1411-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March		03/31/2026	0	18.33
			Vendor Subtotal:			18.33
1000-25-1411-52400	MENARDS (MUSC)	Gloves		03/30/2026	0	14.99
			Vendor Subtotal:			14.99
1000-25-1411-52840	MENARDS (MUSC)	Safety Glasses		03/30/2026	0	27.54
			Vendor Subtotal:			27.54
1000-25-1411-53120	VAN METER INDUSTRIAL INC	Bulb		03/31/2026	0	25.82
1000-25-1411-53120	VAN METER INDUSTRIAL INC	Thermostat		03/31/2026	0	38.37
			Vendor Subtotal:			64.19
1000-25-1411-53220	MENARDS (MUSC)	Ratchet		03/30/2026	0	24.97
			Vendor Subtotal:			24.97
1000-25-1411-62210	PHELPS THE UNIFORM SPECIALIST	Laundry - Greenwood		03/31/2026	0	13.53
			Vendor Subtotal:			13.53
1000-25-1411-65310	ALLIANT ENERGY	February Gas - Greenwood		03/27/2026	0	348.58

		Vendor Subtotal:				348.58
1000-25-1411-67130	ACUREN	EQUIPMENT LIFT INSPECTION		03/31/2026	0	142.50 00032763
		Vendor Subtotal:				142.50
1000-25-1421-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	29.44
		Vendor Subtotal:				29.44
1000-25-1421-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	35.82
		Vendor Subtotal:				35.82
1000-25-1421-51300	AMAZON.COM	Return		03/31/2026	0	-103.99
1000-25-1421-51300	AMAZON.COM	Drum Cartridge		03/31/2026	0	103.99
1000-25-1421-51300	AMAZON.COM	108R01418 Xerox WorkCentre 6515 Dru		03/27/2026	0	103.99 00033055
		Vendor Subtotal:				103.99
1000-25-1421-65210	MUSCATINE POWER & WATER	March Base PRI		03/31/2026	0	70.50
		Vendor Subtotal:				70.50
1000-25-1421-69400	ASCAP	Music License		03/30/2026	0	407.00
		Vendor Subtotal:				407.00
1000-25-1422-38620	DENISE GAETA	Refund		03/31/2026	0	125.00
		Vendor Subtotal:				125.00
1000-25-1423-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	32.35
		Vendor Subtotal:				32.35
1000-25-1423-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	17.41

1000-25-1423-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March	03/31/2026	0	99.39	
		Vendor Subtotal:			116.80	
1000-25-1423-51300	AMAZON.COM	W21123 HP #206A Magenta Toner Cartı	03/30/2026	0	97.75	00033205
1000-25-1423-51300	AMAZON.COM	W2112A HP #206A Yellow Toner Cartri	03/30/2026	0	102.89	00033205
1000-25-1423-51300	AMAZON.COM	W2111A HP #206A Cyan Toner Cartridg	03/30/2026	0	102.89	00033205
1000-25-1423-51300	AMAZON.COM	W2110A HP #206A Black Toner Cartrid	03/30/2026	0	84.04	00033205
		Vendor Subtotal:			387.57	
1000-25-1423-52250	D & K PRODUCTS	GALLONS ROUNDUP PRO	03/31/2026	0	283.20	00032840
1000-25-1423-52250	D & K PRODUCTS	GALLONS VESSEL	03/31/2026	0	407.00	00032840
1000-25-1423-52250	D & K PRODUCTS	BAGS TREFLAN	03/31/2026	0	312.00	00032840
1000-25-1423-52250	D & K PRODUCTS	GALLONS RESOLUTE	03/31/2026	0	1,188.00	00032840
1000-25-1423-52250	D & K PRODUCTS	BAGS CASARON	03/31/2026	0	1,494.00	00032840
		Vendor Subtotal:			3,684.20	
1000-25-1423-52250	CLESENS	GALLONS CAPTAIN XTR	03/31/2026	0	340.00	00032841
1000-25-1423-52250	CLESENS	PINTS TREE0AGE R10	03/31/2026	0	2,095.60	00032841
		Vendor Subtotal:			2,435.60	
1000-25-1423-52300	MENARDS (MUSC)	Gloves	03/30/2026	0	15.99	
		Vendor Subtotal:			15.99	
1000-25-1423-52300	ROBERT PALMER	Reimb Shoes - Palmer	03/30/2026	0	75.00	
		Vendor Subtotal:			75.00	
1000-25-1423-52400	MENARDS (MUSC)	Degreaser	03/31/2026	0	12.39	
		Vendor Subtotal:			12.39	
1000-25-1423-52740	ARNOLD MOTOR SUPPLY	Oil	03/31/2026	0	17.58	
		Vendor Subtotal:			17.58	

1000-25-1423-52840	MENARDS (MUSC)	Gloves	03/31/2026	0	15.98
1000-25-1423-52840	MENARDS (MUSC)	Chemical Glove	03/30/2026	0	7.99
		Vendor Subtotal:			23.97
1000-25-1423-52860	ULINE	Sign	03/31/2026	0	31.50
1000-25-1423-52860	ULINE	Sign	03/31/2026	0	31.50
		Vendor Subtotal:			63.00
1000-25-1423-53110	MENARDS (MUSC)	Star Drive/Hardware	03/31/2026	0	90.08
1000-25-1423-53110	MENARDS (MUSC)	Nails/Shingles	03/30/2026	0	84.97
		Vendor Subtotal:			175.05
1000-25-1423-53110	MUSCATINE LUMBER	Roof Cement	03/27/2026	0	19.98
		Vendor Subtotal:			19.98
1000-25-1423-53120	MENARDS (MUSC)	Bulbs	03/31/2026	0	40.97
		Vendor Subtotal:			40.97
1000-25-1423-53220	ARNOLD MOTOR SUPPLY	Pipe/O-Ring	03/31/2026	0	47.30
1000-25-1423-53220	ARNOLD MOTOR SUPPLY	Oil Dri	03/30/2026	0	47.92
1000-25-1423-53220	ARNOLD MOTOR SUPPLY	Hose Clamps/Hose Ends	03/27/2026	0	16.31
		Vendor Subtotal:			111.53
1000-25-1423-62210	PHELPS THE UNIFORM SPECIALIST	Laundry - Weed Park	03/31/2026	0	14.40
1000-25-1423-62210	PHELPS THE UNIFORM SPECIALIST	Laundry - Weed Park	03/31/2026	0	35.40
1000-25-1423-62210	PHELPS THE UNIFORM SPECIALIST	Laundry - Weed Park	03/27/2026	0	15.41
		Vendor Subtotal:			65.21
1000-25-1423-64200	DAVID HARRIS	Training - Bolt	03/31/2026	0	437.50
1000-25-1423-64200	DAVID HARRIS	Training - Axley	03/31/2026	0	437.50

		Vendor Subtotal:			875.00
1000-25-1423-65210	MUSCATINE POWER & WATER	March Phones - River Center	03/31/2026	0	33.70
1000-25-1423-65210	MUSCATINE POWER & WATER	March Phones - River Center	03/31/2026	0	21.39
		Vendor Subtotal:			55.09
1000-25-1423-65275	VERIZON WIRELESS	March Cell Phones	03/31/2026	0	40.01
		Vendor Subtotal:			40.01
1000-25-1423-65310	ALLIANT ENERGY	February Gas - Weed Park	03/31/2026	0	554.03
		Vendor Subtotal:			554.03
1000-25-1423-65320	MUSCATINE POWER & WATER	February Electric - Park Comm	03/31/2026	0	19.62
1000-25-1423-65320	MUSCATINE POWER & WATER	March Electric - River Center	03/31/2026	0	61.16
		Vendor Subtotal:			80.78
1000-25-1423-65410	MUSCATINE POWER & WATER	March Water - River Center	03/31/2026	0	36.31
		Vendor Subtotal:			36.31
1000-25-1423-67130	ACUREN	EQUIPMENT LIFT INSPECTION	03/31/2026	0	142.50 00032763
		Vendor Subtotal:			142.50
1000-25-1423-67130	ARNOLD MOTOR SUPPLY	HYDRAULIC CYLINDER REPAIR	03/27/2026	0	99.99 00033141
		Vendor Subtotal:			99.99
1000-25-1423-67140	A-1 QUALITY TIRE & CAR CARE	Mount/Dismount	03/31/2026	0	28.56
		Vendor Subtotal:			28.56
1000-25-1423-67140	ARNOLD MOTOR SUPPLY	Sealer/Valve/Tire Repair Kit	03/30/2026	0	23.66

			Vendor Subtotal:			23.66
1000-25-1424-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	7.54
			Vendor Subtotal:			7.54
1000-25-1424-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March		03/31/2026	0	19.97
1000-25-1424-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	4.63
			Vendor Subtotal:			24.60
1000-25-1424-52300	BRIAN DERENGOWSKI	Reimb Shoes - B Derengowski		03/31/2026	0	75.00
			Vendor Subtotal:			75.00
1000-25-1424-52400	AMAZON.COM	CASES OF HANDSOAP		03/31/2026	0	129.98 00033231
			Vendor Subtotal:			129.98
1000-25-1424-53220	ARNOLD MOTOR SUPPLY	Spark Plugs		03/30/2026	0	22.60
1000-25-1424-53220	ARNOLD MOTOR SUPPLY	Spark Plug		03/30/2026	0	6.90
			Vendor Subtotal:			29.50
1000-25-1424-53220	DAVIS EQUIP CORPORATION	MASTER CYLINDER		03/31/2026	0	235.00 00033008
1000-25-1424-53220	DAVIS EQUIP CORPORATION	SHIPPING		03/31/2026	0	27.52 00033008
1000-25-1424-53220	DAVIS EQUIP CORPORATION	MASTER CYLINDER		03/31/2026	0	0.07
			Vendor Subtotal:			262.59
1000-25-1424-53220	LELAND LAMP MACHINE SHOP IN	Angle Iron		03/30/2026	0	30.00
			Vendor Subtotal:			30.00
1000-25-1424-53220	MENARDS (MUSC)	Knife/Glove/Cable Tie		03/30/2026	0	89.37
			Vendor Subtotal:			89.37

1000-25-1424-53220	SIGOURNEY TRACTOR & IMPLEME	Spark Plug		03/31/2026	0	15.98
			Vendor Subtotal:			15.98
1000-25-1427-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	10.70
			Vendor Subtotal:			10.70
1000-25-1427-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	4.63
1000-25-1427-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March		03/31/2026	0	37.36
			Vendor Subtotal:			41.99
1000-25-1427-52100	CLESENS	CHLORATHANIL		03/30/2026	0	524.80 00032889
			Vendor Subtotal:			524.80
1000-25-1427-52250	RIVER CITY TURF & ORNAMENTAI	AZOXYSTROBIN		03/31/2026	0	225.00 00032886
1000-25-1427-52250	RIVER CITY TURF & ORNAMENTAI	TANK CLEANER		03/31/2026	0	36.00 00032886
1000-25-1427-52250	RIVER CITY TURF & ORNAMENTAI	BLUEGRASS SEED		03/31/2026	0	438.00 00032886
			Vendor Subtotal:			699.00
1000-25-1427-52400	AMAZON.COM	CASES OF HANDSOAP		03/31/2026	0	129.98 00033231
			Vendor Subtotal:			129.98
1000-25-1427-53220	SIGOURNEY TRACTOR & IMPLEME	Files		03/30/2026	0	54.99
			Vendor Subtotal:			54.99
1000-25-1427-64200	DAVID HARRIS	Training - Kreuzenstein		03/31/2026	0	437.50
			Vendor Subtotal:			437.50
1000-25-1427-65210	CENTURYLINK	March Phones		03/27/2026	0	101.98

		Vendor Subtotal:				101.98
1000-25-1427-65210	MUSCATINE POWER & WATER	February Phones - Soccer	03/31/2026	0	64.57	
		Vendor Subtotal:				64.57
1000-25-1427-65260	VERIZON WIRELESS	February Cell Phones	03/31/2026	0	40.01	
		Vendor Subtotal:				40.01
1000-25-1427-67130	ACUREN	EQUIPMENT LIFT INSPECTION	03/31/2026	0	142.50	00032763
		Vendor Subtotal:				142.50
1000-25-1431-36120	MADISON THORPE	Refund	03/31/2026	0	30.00	
1000-25-1431-36120	MADISON THORPE	Refund	03/31/2026	0	30.00	
		Vendor Subtotal:				60.00
1000-25-1431-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	13.13	
		Vendor Subtotal:				13.13
1000-25-1431-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	15.07	
		Vendor Subtotal:				15.07
1000-25-1432-53120	GRAINGER DEPT 802675066	Swivel	03/31/2026	0	29.75	
		Vendor Subtotal:				29.75
1000-25-1432-53120	MENARDS (MUSC)	Swivel	03/30/2026	0	9.99	
		Vendor Subtotal:				9.99
1000-25-1432-53120	VAN METER INDUSTRIAL INC	Photo Cell	03/31/2026	0	41.37	
1000-25-1432-53120	VAN METER INDUSTRIAL INC	Return	03/31/2026	0	-41.37	

1000-25-1432-53120	VAN METER INDUSTRIAL INC	Photo Cell	03/31/2026	0	41.37
		Vendor Subtotal:			41.37
1000-25-1432-53220	MENARDS (MUSC)	Cable Clamp	03/31/2026	0	0.99
		Vendor Subtotal:			0.99
1000-25-1432-65210	MUSCATINE POWER & WATER	March Phones - Weed Park	03/31/2026	0	71.27
		Vendor Subtotal:			71.27
1000-25-1435-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	17.75
		Vendor Subtotal:			17.75
1000-25-1435-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	20.51
		Vendor Subtotal:			20.51
1000-25-1435-52810	MENARDS (MUSC)	Bath Mat/Fender Washer	03/30/2026	0	47.14
1000-25-1435-52810	MENARDS (MUSC)	Bath Mat/Fender Washer	03/30/2026	0	30.26
		Vendor Subtotal:			77.40
1000-25-1435-52890	MENARDS (MUSC)	Floor Scrub/Wipes/Pail	03/31/2026	0	32.17
1000-25-1435-52890	MENARDS (MUSC)	Strut/Washer/Hex Nut	03/30/2026	0	97.79
1000-25-1435-52890	MENARDS (MUSC)	Hammer Drill	03/30/2026	0	26.95
		Vendor Subtotal:			156.91
1000-25-1435-62210	PHELPS THE UNIFORM SPECIALIST	Laundry - Dome	03/31/2026	0	65.49
1000-25-1435-62210	PHELPS THE UNIFORM SPECIALIST	Laundry - Dome	03/31/2026	0	65.49
		Vendor Subtotal:			130.98
1000-25-1435-65210	CLEARFLY	March Phones	03/31/2026	0	61.57

			Vendor Subtotal:			61.57
1000-25-1435-65310	ALLIANT ENERGY	March Gas- Dome		03/31/2026	0	9,414.34
			Vendor Subtotal:			9,414.34
1000-30-1511-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	82.63
			Vendor Subtotal:			82.63
1000-30-1511-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	119.30
			Vendor Subtotal:			119.30
1000-30-1511-51300	THE TREE HOUSE, INC.	CF226A HP #26A Black Toner Cartridge		03/31/2026	0	134.40 00032948
1000-30-1511-51300	THE TREE HOUSE, INC.	CF281A HP #81A Black Toner Cartridg		03/31/2026	0	199.90 00032948
1000-30-1511-51300	THE TREE HOUSE, INC.	CF410X HP #410X Black Toner Cartrid		03/31/2026	0	166.70 00032948
1000-30-1511-51300	THE TREE HOUSE, INC.	CF281A HP #81A Black Toner Cartridge		03/31/2026	0	199.80 00033025
			Vendor Subtotal:			700.80
1000-30-1511-52890	AMAZON.COM	Labels/Cover Caps		03/31/2026	0	31.32
			Vendor Subtotal:			31.32
1000-30-1511-61340	ROBERT FIEDLER	Reimb Anthropic Fee		03/31/2026	0	20.00
			Vendor Subtotal:			20.00
1000-30-1511-61550	GENESIS HEALTH SYSTEM-OCC HI	MRO Services - M Rice		03/31/2026	0	40.00
			Vendor Subtotal:			40.00
1000-30-1511-62460	AMAZON.COM	Books		03/30/2026	0	71.92
1000-30-1511-62460	AMAZON.COM	Adult Book Club		03/31/2026	0	50.40
			Vendor Subtotal:			122.32

1000-30-1511-62460	EMERSON TAYLOR	Reimb Supplies	03/31/2026	0	34.19
		Vendor Subtotal:			34.19
1000-30-1511-62460	ANDREA MARTINEZ	Program Fees - Discovery Lab	03/31/2026	0	150.00
		Vendor Subtotal:			150.00
1000-30-1511-64500	FRAN DONELSON	Reimb Mileage 1/28/26 - 2/25/26	03/31/2026	0	24.05
		Vendor Subtotal:			24.05
1000-30-1511-65210	MUSCATINE POWER & WATER	March Phones - Library	03/31/2026	0	205.03
		Vendor Subtotal:			205.03
1000-30-1511-65240	MUSCATINE POWER & WATER	March Internet - Library	03/31/2026	0	595.00
		Vendor Subtotal:			595.00
1000-30-1511-74500	LIBRARY SYSTEMS & SERVICES L	Books/Materials	03/31/2026	0	4,777.36
		Vendor Subtotal:			4,777.36
1000-35-1521-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	43.63
		Vendor Subtotal:			43.63
1000-35-1521-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	62.07
		Vendor Subtotal:			62.07
1000-40-1151-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	23.96
		Vendor Subtotal:			23.96
1000-40-1151-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March	03/31/2026	0	41.90

1000-40-1151-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	18.51
		Vendor Subtotal:			60.41
1000-40-1151-51100	AMAZON.COM	File Folders	03/30/2026	0	11.49
		Vendor Subtotal:			11.49
1000-40-1151-52400	HD SUPPLY FACILITIES MAINT	Renown Toilet Seat Paper Cover	03/27/2026	0	39.80 00032843
		Vendor Subtotal:			39.80
1000-40-1151-52400	MENARDS (MUSC)	ZEP/Xtra	03/27/2026	0	32.45
1000-40-1151-52400	MENARDS (MUSC)	Tide/Extra/ZEP	03/27/2026	0	81.84
		Vendor Subtotal:			114.29
1000-40-1151-52400	ALL FLAGS LLC	3 x 5 Nylon Iowa Flags	03/27/2026	0	490.07 00033143
		Vendor Subtotal:			490.07
1000-40-1151-52830	MENARDS (MUSC)	Support Assembly	03/30/2026	0	15.79
		Vendor Subtotal:			15.79
1000-40-1151-52890	MENARDS (MUSC)	Screw Driver Set	03/31/2026	0	55.37
1000-40-1151-52890	MENARDS (MUSC)	Stove Bolt/Drill Bit/Bulb	03/30/2026	0	31.18
1000-40-1151-52890	MENARDS (MUSC)	Return	03/27/2026	0	-59.96
1000-40-1151-52890	MENARDS (MUSC)	WD-40	03/27/2026	0	57.36
1000-40-1151-52890	MENARDS (MUSC)	Door Knob	03/27/2026	0	59.96
		Vendor Subtotal:			143.91
1000-40-1151-53120	PLUMB SUPPLY COMPANY	Adapter/Thread Sealant/Primer PVC	03/31/2026	0	40.01
		Vendor Subtotal:			40.01
1000-40-1151-53120	VAN METER INDUSTRIAL INC	Light Bulbs	03/31/2026	0	95.54
1000-40-1151-53120	VAN METER INDUSTRIAL INC	Wire Marker	03/31/2026	0	27.35

1000-40-1151-53120	VAN METER INDUSTRIAL INC	T5 Light Bulbs		03/30/2026	0	365.04 00033069
			Vendor Subtotal:			487.93
1000-40-1151-53130	MENARDS (MUSC)	Faucet		03/27/2026	0	15.96
			Vendor Subtotal:			15.96
1000-40-1151-61550	LAJEK PEST CONTROL SOLUTIONS	Pre-Employ Drug Screen - A McAtee		03/31/2026	0	38.50
1000-40-1151-61550	LAJEK PEST CONTROL SOLUTIONS	Pre-Employ Drug Screen - M Rice		03/31/2026	0	38.50
			Vendor Subtotal:			77.00
1000-40-1151-61550	ROCK VALLEY PHYSICAL THERAP	Pre-Employment Drug - Rice		03/27/2026	0	140.00
			Vendor Subtotal:			140.00
1000-40-1151-62370	LUPTON & TOYNE PRINTERS	Business Cards - O'Brien		03/27/2026	0	30.00
			Vendor Subtotal:			30.00
1000-40-1151-65210	MUSCATINE POWER & WATER	March Phones		03/31/2026	0	61.32
1000-40-1151-65210	MUSCATINE POWER & WATER	March Base PRI		03/31/2026	0	186.62
1000-40-1151-65210	MUSCATINE POWER & WATER	March Phones		03/31/2026	0	22.39
1000-40-1151-65210	MUSCATINE POWER & WATER	March Phones		03/31/2026	0	35.90
1000-40-1151-65210	MUSCATINE POWER & WATER	February Phones - PW		03/27/2026	0	43.59
			Vendor Subtotal:			349.82
1000-40-1151-65310	ALLIANT ENERGY	March Gas - S Fire		03/31/2026	0	456.36
1000-40-1151-65310	ALLIANT ENERGY	February Gas - Art Center		03/31/2026	0	166.46
1000-40-1151-65310	ALLIANT ENERGY	February Gas - Library		03/31/2026	0	431.05
1000-40-1151-65310	ALLIANT ENERGY	February Gas - PSB		03/27/2026	0	332.39
1000-40-1151-65310	ALLIANT ENERGY	February Gas - City Hall		03/27/2026	0	1,159.41
1000-40-1151-65310	ALLIANT ENERGY	February Gas - Art Center		03/27/2026	0	915.30
1000-40-1151-65310	ALLIANT ENERGY	February Gas - Fire Lot 8		03/27/2026	0	80.84
			Vendor Subtotal:			3,541.81
1000-40-1151-67320	LUCAS COMMUNICATION INC	Phone Maintenance		03/31/2026	0	285.00

		Vendor Subtotal:				285.00
1000-40-1151-67320	MUSCATINE POWER & WATER	March Internet - PSB	03/27/2026	0	82.97	
		Vendor Subtotal:				82.97
1000-40-1151-67330	GRAINGER DEPT 802675066	Broan Exhaust Fan Motor	03/30/2026	0	245.04	00033133
		Vendor Subtotal:				245.04
1000-40-1151-67330	RAYNOR DOOR CO INC OF THE QU	Keypad Reprogramming	03/31/2026	0	425.00	
1000-40-1151-67330	RAYNOR DOOR CO INC OF THE QU	Damaged Door Wash Bay	03/31/2026	0	413.00	
1000-40-1151-67330	RAYNOR DOOR CO INC OF THE QU	Airport Garage Door Repair	03/27/2026	0	810.00	
		Vendor Subtotal:				1,648.00
1000-40-1151-67330	ROCK ISLAND ELECTRIC MOTOR F	New Motor & Pully for Public Works W	03/31/2026	0	850.00	00033223
1000-40-1151-67330	ROCK ISLAND ELECTRIC MOTOR F	Freight	03/31/2026	0	150.15	
		Vendor Subtotal:				1,000.15
1000-40-1611-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	37.42	
		Vendor Subtotal:				37.42
1000-40-1611-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	52.37	
		Vendor Subtotal:				52.37
1000-40-1611-52830	MENARDS (MUSC)	Hammer Drill Bit	03/30/2026	0	7.98	
1000-40-1611-52830	MENARDS (MUSC)	Hammer Drill	03/30/2026	0	19.98	
1000-40-1611-52830	MENARDS (MUSC)	Connector	03/30/2026	0	9.98	
1000-40-1611-52830	MENARDS (MUSC)	Connector/Strap	03/30/2026	0	7.72	
		Vendor Subtotal:				45.66
1000-40-1611-61420	MARTIN & WHITACRE SURVEYOR	Additional Surveying - Isett Ave	03/30/2026	0	9,900.00	00032826

		Vendor Subtotal:			9,900.00
1000-40-1611-64700	DAVID HARRIS	Training - J Hopkins	03/31/2026	0	437.50
		Vendor Subtotal:			437.50
1000-40-1611-65260	MUSCATINE POWER & WATER	February Phones - PW	03/27/2026	0	22.39
		Vendor Subtotal:			22.39
1000-40-1611-65275	VERIZON WIRELESS	February Cell Phones	03/31/2026	0	40.04
		Vendor Subtotal:			40.04
1000-40-1621-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	46.69
		Vendor Subtotal:			46.69
1000-40-1621-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	22.28
1000-40-1621-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March	03/31/2026	0	159.19
		Vendor Subtotal:			181.47
1000-40-1621-52100	MENARDS (MUSC)	Bucket/Seed	03/31/2026	0	21.35
		Vendor Subtotal:			21.35
1000-40-1621-52300	JESSE SPITZNOGLE	Reimb Uniforms - J Spitznolge	03/31/2026	0	50.00
		Vendor Subtotal:			50.00
1000-40-1621-52830	ARNOLD MOTOR SUPPLY	Gauge/Plug	03/30/2026	0	97.55
		Vendor Subtotal:			97.55
1000-40-1621-52830	FASTENAL COMPANY	Jobber	03/30/2026	0	2.37

		Vendor Subtotal:				2.37
1000-40-1621-52840	ARNOLD MOTOR SUPPLY	Gloves		03/31/2026	0	22.99
		Vendor Subtotal:				22.99
1000-40-1621-52890	MENARDS (MUSC)	Wipes/Cut Off		03/31/2026	0	29.21
		Vendor Subtotal:				29.21
1000-40-1621-53110	MENARDS (MUSC)	Landscape Block		03/30/2026	0	29.95
1000-40-1621-53110	MENARDS (MUSC)	Landscape Block		03/30/2026	0	23.96
		Vendor Subtotal:				53.91
1000-40-1621-53120	VAN METER INDUSTRIAL INC	In-Ground Electrical Quazite box 12 x 12		03/30/2026	0	257.30 00033062
		Vendor Subtotal:				257.30
1000-40-1621-53400	LOGAN CONTRACTORS SUPPLY IN	1" x 18" Dowels		03/31/2026	0	273.00 00033210
1000-40-1621-53400	LOGAN CONTRACTORS SUPPLY IN	5/8" x 24" Tie Bars		03/31/2026	0	79.20 00033210
1000-40-1621-53400	LOGAN CONTRACTORS SUPPLY IN	Cartridge of Ultrabond		03/31/2026	0	21.95 00033210
1000-40-1621-53400	LOGAN CONTRACTORS SUPPLY IN	DB Baskets for Dowels		03/31/2026	0	117.60 00033210
		Vendor Subtotal:				491.75
1000-40-1621-53400	JOHN HERRMAN	1/4" x 21' Sch40 Black Pipe		03/31/2026	0	120.96 00033118
		Vendor Subtotal:				120.96
1000-40-1621-64700	DAVID HARRIS	Training - Graham		03/31/2026	0	437.50
		Vendor Subtotal:				437.50
1000-40-1621-65210	MUSCATINE POWER & WATER	March Base PRI		03/31/2026	0	70.50
		Vendor Subtotal:				70.50

1000-40-1621-65275	MIDWEST WIRELESS LLC	April Radios		03/27/2026	0	510.30
			Vendor Subtotal:			510.30
1000-40-1621-65275	VERIZON WIRELESS	February Cell Phones		03/31/2026	0	80.08
			Vendor Subtotal:			80.08
1000-40-1621-65310	ALLIANT ENERGY	March Gas - PW		03/31/2026	0	486.93
1000-40-1621-65310	ALLIANT ENERGY	March Gas - PW		03/31/2026	0	452.70
1000-40-1621-65310	ALLIANT ENERGY	March Gas - Lower Lot		03/31/2026	0	174.44
1000-40-1621-65310	ALLIANT ENERGY	March Gas - PW		03/31/2026	0	166.69
1000-40-1621-65310	ALLIANT ENERGY	March Gas- Morgan		03/31/2026	0	344.31
1000-40-1621-65310	ALLIANT ENERGY	March Gas- DOT Bldg		03/31/2026	0	1,051.43
			Vendor Subtotal:			2,676.50
1000-40-1621-74200	MTM TRILER MFG	Drop Deck Trailer		03/27/2026	0	27,027.00 00031439
			Vendor Subtotal:			27,027.00
1000-40-1622-62470	JON BRAUNS	Snow Removal in Downtown Parking Lo		03/27/2026	0	1,750.00 00033156
			Vendor Subtotal:			1,750.00
1000-40-1622-67150	ARNOLD MOTOR SUPPLY	Paint for Plow # 120		03/30/2026	0	908.40 00033138
			Vendor Subtotal:			908.40
1000-40-1623-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	5.95
			Vendor Subtotal:			5.95
1000-40-1623-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March		03/31/2026	0	31.90
			Vendor Subtotal:			31.90
1000-40-1624-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	3.13

			Vendor Subtotal:			3.13
1000-40-1624-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March		03/31/2026	0	18.33
			Vendor Subtotal:			18.33
1000-40-1624-52860	WARNING LITES OF SOUTHERN IL	Galvanized 4' x 2 -1/4" x 2-1/4" Telspar I		03/31/2026	0	1,758.75 00032653
1000-40-1624-52860	WARNING LITES OF SOUTHERN IL	Galvanized 10' x 2" x 2" Telspar Posts		03/31/2026	0	1,867.50 00032653
			Vendor Subtotal:			3,626.25
1000-40-1624-52860	FASTENAL COMPANY	Nuts/Washers		03/30/2026	0	79.80
			Vendor Subtotal:			79.80
1000-40-1624-52860	IOWA PRISON INDUSTRIES	Washers		03/30/2026	0	95.00
			Vendor Subtotal:			95.00
1000-40-1624-52890	MENARDS (MUSC)	Pipe		03/31/2026	0	10.38
1000-40-1624-52890	MENARDS (MUSC)	Mounting Board		03/30/2026	0	36.47
1000-40-1624-52890	MENARDS (MUSC)	Pail		03/30/2026	0	23.88
			Vendor Subtotal:			70.73
1000-40-1624-65320	EASTERN IOWA LIGHT & POWER C	February Power - Hwy 61 & Mulberry		03/31/2026	0	146.93
			Vendor Subtotal:			146.93
1000-40-1641-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	29.33
			Vendor Subtotal:			29.33
1000-40-1641-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	35.14
			Vendor Subtotal:			35.14

1000-40-1641-51400	AMAZON.COM	Office Chair	03/27/2026	0	129.99	00033120
		Vendor Subtotal:			129.99	
1000-40-1641-62370	MARCO	Copier	03/27/2026	0	122.55	
		Vendor Subtotal:			122.55	
1000-40-1641-65210	MUSCATINE POWER & WATER	March Base PRI	03/31/2026	0	35.27	
		Vendor Subtotal:			35.27	
		Subtotal for FUND: 1000			266,416.20	
4158-40-4158-61660	BOLTON & MENK INC	Oregon Trail Railroad Crossing	03/27/2026	0	1,728.50	
4158-40-4158-61660	BOLTON & MENK INC	Oregon Trail Railroad Crossing	03/31/2026	0	426.00	
		Vendor Subtotal:			2,154.50	
		Subtotal for FUND: 4158			2,154.50	
4195-40-4199-61420	BOLTON & MENK INC	Carver Corner Roundabout	03/31/2026	0	40,568.50	
		Vendor Subtotal:			40,568.50	
		Subtotal for FUND: 4195			40,568.50	
4206-50-4206-61420	STANLEY CONSULTANTS INC	Priority Assets Project	03/27/2026	0	14,741.75	
		Vendor Subtotal:			14,741.75	
		Subtotal for FUND: 4206			14,741.75	
4275-40-4275-61420	STANLEY CONSULTANTS INC	Papoose Creek Pump Station Study	03/31/2026	0	10,000.00	
		Vendor Subtotal:			10,000.00	

			Subtotal for FUND: 4275			10,000.00
4276-40-4276-61420	STANLEY CONSULTANTS INC	WHSSP Phase 6	03/31/2026	0	105,345.00	
		Vendor Subtotal:			105,345.00	
4276-40-4276-61660	MARTIN & WHITACRE SURVEYOR	Permanent Easement & ROW Aqcuisitio	03/30/2026	0	26,000.00	00032555
4276-40-4276-61660	MARTIN & WHITACRE SURVEYOR	Permanent Easement & ROW Aqcuisitio	03/30/2026	0	1,500.00	
4276-40-4276-61660	MARTIN & WHITACRE SURVEYOR	Permanent Easement & ROW Aqcuisitio	03/30/2026	0	4,000.00	
		Vendor Subtotal:			31,500.00	
4276-40-4276-71200	SCOTT DAVIS	Easement 1205 Logan St	03/31/2026	0	1,468.35	
		Vendor Subtotal:			1,468.35	
4276-40-4276-71200	MUSCATINE COUNTY ABSTRACT	Property Title Searches for Easements on	03/30/2026	0	13,800.00	00032921
		Vendor Subtotal:			13,800.00	
4276-40-4276-73100	KE FLATWORK INC	WHSSP Phase 6D Pay App #16	03/31/2026	0	63,011.21	
		Vendor Subtotal:			63,011.21	
		Subtotal for FUND: 4276			215,124.56	
4298-40-4298-73100	HEUER CONSTRUCTION	Dredge Spoils Relocation Pay App #2	03/31/2026	0	89,598.69	
		Vendor Subtotal:			89,598.69	
		Subtotal for FUND: 4298			89,598.69	
4498-25-4498-74200	THE BASEBALL HOME	PROCAGE TRI-FOLD SCREEN	03/31/2026	0	816.50	00032052
4498-25-4498-74200	THE BASEBALL HOME	PROCAGE BLACK SERIES FUNGO S	03/31/2026	0	3,271.68	00032052
4498-25-4498-74200	THE BASEBALL HOME	SHIPPING	03/31/2026	0	500.00	00032052

			Vendor Subtotal:			4,588.18
			Subtotal for FUND: 4498			4,588.18
4842-00-0002-74200	AMAZON.COM	Elkay exH2O Bottle Filling Station With		03/31/2026	0	1,319.38 00033227
			Vendor Subtotal:			1,319.38
			Subtotal for FUND: 4842			1,319.38
4865-40-4865-73900	DEAN KIMREY	Runway Lighting Pay App #5		03/27/2026	0	67,552.41
			Vendor Subtotal:			67,552.41
			Subtotal for FUND: 4865			67,552.41
5211-40-5211-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	19.26
			Vendor Subtotal:			19.26
5211-40-5211-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March		03/31/2026	0	14.29
5211-40-5211-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	18.51
			Vendor Subtotal:			32.80
5211-40-5211-51100	AMAZON.COM	Sticky Notes		03/27/2026	0	8.54
			Vendor Subtotal:			8.54
5211-40-5211-52400	AMAZON.COM	Tape		03/27/2026	0	9.86
			Vendor Subtotal:			9.86
5211-40-5211-52860	IOWA PRISON INDUSTRIES	Parking Labels		03/31/2026	0	48.00
			Vendor Subtotal:			48.00

5211-40-5211-52890	MENARDS (MUSC)	Wipes		03/30/2026	0	44.36
			Vendor Subtotal:			44.36
5211-40-5211-61340	FOUNDERS SOFTWARE	Renewal for Text Messaging Reminders		03/31/2026	0	608.30 00033261
5211-40-5211-61340	FOUNDERS SOFTWARE	Renewal for Dispatch Software for One		03/31/2026	0	3,588.97 00033261
			Vendor Subtotal:			4,197.27
5211-40-5211-61550	ROCK VALLEY PHYSICAL THERAP	Pre-Employment Drug - M Watkins		03/27/2026	0	160.00
			Vendor Subtotal:			160.00
5211-40-5211-62530	DRJ GROUP, LLC	Fire Extinguisher Maintenance		03/31/2026	0	53.50
			Vendor Subtotal:			53.50
5211-40-5211-64120	AMY FORTENBACHER	Reimb Travel 3/11/2026		03/30/2026	0	36.95
5211-40-5211-64120	AMY FORTENBACHER	Reimb Travel 3/3/2026		03/30/2026	0	765.03
			Vendor Subtotal:			801.98
5211-40-5211-65100	QUAD CITY TIMES & MUSC JOURN	Public Hearing Transit		03/31/2026	0	45.14
			Vendor Subtotal:			45.14
5211-40-5211-65100	ICAN	Advertising		03/31/2026	0	406.00
			Vendor Subtotal:			406.00
5211-40-5211-65210	MUSCATINE POWER & WATER	March Base PRI		03/31/2026	0	70.50
			Vendor Subtotal:			70.50
5211-40-5211-65275	MIDWEST WIRELESS LLC	Radio		03/31/2026	0	264.60
5211-40-5211-65275	MIDWEST WIRELESS LLC	Radios		03/31/2026	0	264.60

		Vendor Subtotal:			529.20
5211-40-5211-65275	VERIZON WIRELESS	February Cell Phones	03/31/2026	0	76.96
5211-40-5211-65275	VERIZON WIRELESS	March Cell Phones	03/31/2026	0	76.96
		Vendor Subtotal:			153.92
5211-40-5211-65275	T-MOBILE	February Data	03/31/2026	0	129.42
5211-40-5211-65275	T-MOBILE	March Data	03/31/2026	0	129.42
		Vendor Subtotal:			258.84
5211-40-5211-65310	ALLIANT ENERGY	February Gas - Wash Bay	03/31/2026	0	819.41
5211-40-5211-65310	ALLIANT ENERGY	March Gas- Wash Bay	03/31/2026	0	365.37
5211-40-5211-65310	ALLIANT ENERGY	March Gas - Transit	03/31/2026	0	194.02
5211-40-5211-65310	ALLIANT ENERGY	March Gas - Transit	03/31/2026	0	208.68
5211-40-5211-65310	ALLIANT ENERGY	March Gas - Transit	03/31/2026	0	71.44
		Vendor Subtotal:			1,658.92
5211-40-5212-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	0.63
		Vendor Subtotal:			0.63
5211-40-5212-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March	03/31/2026	0	3.34
		Vendor Subtotal:			3.34
		Subtotal for FUND: 5211			8,502.06
5311-00-0000-23630	RELIANCE STANDARD LIFE INS CC	PR Batch 00002.02.2026 Optional Life	02/27/2026	0	1.81
5311-00-0000-23630	RELIANCE STANDARD LIFE INS CC	PR Batch 00001.02.2026 Optional Life	02/13/2026	0	1.82
		Vendor Subtotal:			3.63
5311-05-5311-38650	SANDRA VAZQUEZ LIMON	Reimb Parking Tkt OXL369	03/31/2026	0	10.00

		Vendor Subtotal:			10.00
5311-05-5311-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	7.23
		Vendor Subtotal:			7.23
5311-05-5311-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March	03/31/2026	0	6.01
5311-05-5311-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	9.87
		Vendor Subtotal:			15.88
5311-05-5311-61550	LAJEK PEST CONTROL SOLUTIONS	Pre-Employ Drug Screen - T Burke	03/31/2026	0	38.50
		Vendor Subtotal:			38.50
5311-05-5311-61550	GENESIS HEALTH SYSTEM-OCC HI	MRO Services - T Burke	03/31/2026	0	40.00
		Vendor Subtotal:			40.00
5311-05-5311-65275	VERIZON WIRELESS	March Cell Phones	03/31/2026	0	76.96
5311-05-5311-65275	VERIZON WIRELESS	February Cell Phones	03/31/2026	0	76.96
		Vendor Subtotal:			153.92
		Subtotal for FUND: 5311			269.16
5451-00-0000-23150	ILLINOIS DEPARTMENT OF REVEN	PR Batch 00003.03.2026 State Income T	03/27/2026	0	152.26
5451-00-0000-23150	ILLINOIS DEPARTMENT OF REVEN	PR Batch 00001.03.2026 State Income T	03/13/2026	0	160.24
		Vendor Subtotal:			312.50
5451-25-5451-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	11.20
		Vendor Subtotal:			11.20
5451-25-5451-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	9.27
5451-25-5451-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March	03/31/2026	0	17.34

		Vendor Subtotal:			26.61	
5451-25-5451-52100	VAN DIEST SUPPLY COMPANY	FLORASULUM (HERBICIDE #16)	03/30/2026	0	2,556.00	00032897
5451-25-5451-52100	VAN DIEST SUPPLY COMPANY	FLORASULUM (HERBICIDE #16)	03/30/2026	0	1.50	
		Vendor Subtotal:			2,557.50	
5451-25-5451-52100	CLESENS	PHOSPHITE (FUNGICIDE #45)	03/30/2026	0	840.00	00032896
5451-25-5451-52100	CLESENS	TREE-AGE (INSECTICIDE #54)	03/30/2026	0	838.24	00032896
5451-25-5451-52100	CLESENS	CAPTAIN (HERBICIDE #28)	03/30/2026	0	510.00	00032896
5451-25-5451-52100	CLESENS	CHLORATHANIL (FUNGICIDE #41)	03/30/2026	0	787.20	00032896
5451-25-5451-52100	CLESENS	70/30 BLUE-RYE GRASS SEED (SEEI	03/30/2026	0	354.00	00032896
		Vendor Subtotal:			3,329.44	
5451-25-5451-52250	D & K PRODUCTS	TEBUCONAZOLE (FUNGICIDE #47)	03/31/2026	0	366.00	00032899
5451-25-5451-52250	D & K PRODUCTS	ROUND UP (HERBICIDE #2)	03/31/2026	0	188.80	00032899
5451-25-5451-52250	D & K PRODUCTS	VESSEL (HERBICIDE #6)	03/31/2026	0	203.50	00032899
5451-25-5451-52250	D & K PRODUCTS	SHAKEDOWN (MISCELLANEOUS #2	03/31/2026	0	134.40	00032899
5451-25-5451-52250	D & K PRODUCTS	TREFLAN (HERBICIDE #4)	03/31/2026	0	156.00	00032899
5451-25-5451-52250	D & K PRODUCTS	25-5-15 (FERTILIZER #60)	03/31/2026	0	403.60	00032899
5451-25-5451-52250	D & K PRODUCTS	INDICATE (MISCELLANEOUS #30)	03/31/2026	0	49.44	00032899
5451-25-5451-52250	D & K PRODUCTS	T-NEX (MISCELLANEOUS #21)	03/31/2026	0	90.10	00032899
5451-25-5451-52250	D & K PRODUCTS	POND COLORANT (MISCELLANEOU	03/31/2026	0	504.00	00032899
		Vendor Subtotal:			2,095.84	
5451-25-5451-52250	RIVER CITY TURF & ORNAMENTAI	TANK CLEANER (MISCELLANEOUS	03/31/2026	0	36.00	00032898
5451-25-5451-52250	RIVER CITY TURF & ORNAMENTAI	PROXY (MISCELLANEOUS #24)	03/31/2026	0	289.50	00032898
		Vendor Subtotal:			325.50	
5451-25-5451-52300	BRETT PARCHER	Reimb Uniforms - B Parcher	03/31/2026	0	64.90	
		Vendor Subtotal:			64.90	
5451-25-5451-52750	HYDROTEX INC	CASE OF GREASE	03/31/2026	0	439.00	00032366
5451-25-5451-52750	HYDROTEX INC	CASE OF GREASE	03/31/2026	0	0.95	
5451-25-5451-52750	HYDROTEX INC	SHIPPING	03/31/2026	0	30.00	00032366

			Vendor Subtotal:			469.95
5451-25-5451-52890	MENARDS (MUSC)	Caulk/Gun		03/30/2026	0	27.97
			Vendor Subtotal:			27.97
5451-25-5451-53120	MENARDS (MUSC)	LIGHTS FOR PARKING LOT		03/30/2026	0	9.87
5451-25-5451-53120	MENARDS (MUSC)	LIGHTS FOR PARKING LOT		03/30/2026	0	170.00 00032951
			Vendor Subtotal:			179.87
5451-25-5451-53220	FASTENAL COMPANY	Lock Nut/Screws/Washers		03/31/2026	0	31.88
			Vendor Subtotal:			31.88
5451-25-5451-53220	VAN WALL EQUIPMENT INC.	HYDRAULIC OIL		03/30/2026	0	208.98 00032895
5451-25-5451-53220	VAN WALL EQUIPMENT INC.	SHAFT		03/31/2026	0	166.00 00032511
5451-25-5451-53220	VAN WALL EQUIPMENT INC.	SEAL KIT		03/31/2026	0	124.10 00032511
			Vendor Subtotal:			499.08
5451-25-5451-53220	SIGOURNEY TRACTOR & IMPLEME	Filters		03/31/2026	0	30.32
5451-25-5451-53220	SIGOURNEY TRACTOR & IMPLEME	Cable		03/31/2026	0	59.84
			Vendor Subtotal:			90.16
5451-25-5451-53220	CARQUEST OF MUSCATINE	Filter		03/30/2026	0	7.80
5451-25-5451-53220	CARQUEST OF MUSCATINE	Lubricant		03/30/2026	0	8.56
			Vendor Subtotal:			16.36
5451-25-5451-62210	PHELPS THE UNIFORM SPECIALIST	Laundry - Golf		03/31/2026	0	33.66
			Vendor Subtotal:			33.66
5451-25-5451-62230	GARY CURTIS JR	CARPET CLEANING		03/31/2026	0	750.00 00032903

		Vendor Subtotal:			750.00	
5451-25-5451-65210	MUSCATINE POWER & WATER	February Phones - Golf	03/31/2026	0	61.96	
5451-25-5451-65210	MUSCATINE POWER & WATER	February Phones - Shed	03/31/2026	0	27.99	
		Vendor Subtotal:			89.95	
5451-25-5451-65240	MUSCATINE POWER & WATER	Feb - Mar Machlink	03/31/2026	0	61.99	
		Vendor Subtotal:			61.99	
5451-25-5451-65310	ALLIANT ENERGY	February Gas - Golf	03/31/2026	0	387.58	
5451-25-5451-65310	ALLIANT ENERGY	February Gas - Golf	03/31/2026	0	451.86	
		Vendor Subtotal:			839.44	
5451-25-5451-65320	EASTERN IOWA LIGHT & POWER C	February Power - Golf	03/31/2026	0	461.08	
5451-25-5451-65320	EASTERN IOWA LIGHT & POWER C	February Power - Golf	03/31/2026	0	192.56	
		Vendor Subtotal:			653.64	
5451-25-5451-67130	ACUREN	EQUIPMENT LIFT INSPECTION	03/31/2026	0	142.50	00032763
		Vendor Subtotal:			142.50	
5451-25-5451-67130	VAN WALL EQUIPMENT INC.	Grind Reels	03/30/2026	0	2,165.93	00032647
		Vendor Subtotal:			2,165.93	
5451-25-5451-67320	HARRIS GOLF CARS	Cart Repair	03/31/2026	0	135.92	
5451-25-5451-67320	HARRIS GOLF CARS	Cart Repair	03/31/2026	0	108.43	
5451-25-5451-67320	HARRIS GOLF CARS	Cart Repair	03/31/2026	0	135.92	
5451-25-5451-67320	HARRIS GOLF CARS	Cart Repair	03/31/2026	0	135.92	
		Vendor Subtotal:			516.19	
5451-25-5452-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	15.50	

			Vendor Subtotal:			15.50
5451-25-5452-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	17.83
			Vendor Subtotal:			17.83
5451-25-5452-51300	AMAZON.COM	108R01420 Xerox Black Drum Cartridge		03/30/2026	0	103.99 00033197
			Vendor Subtotal:			103.99
5451-25-5452-52851	7G DISTRIBUTING LLC	Beer for Resale		03/31/2026	0	1,334.95
5451-25-5452-52851	7G DISTRIBUTING LLC	Beer for Resale		03/31/2026	0	550.45
			Vendor Subtotal:			1,885.40
5451-25-5452-52852	COCA-COLA BOTTLING COMPANY	Soda for Resale		03/31/2026	0	565.79
			Vendor Subtotal:			565.79
5451-25-5452-52852	PERFORMANCE FOOD SERVICE	Food for Resale		03/31/2026	0	730.70
5451-25-5452-52852	PERFORMANCE FOOD SERVICE	Food for Resale		03/31/2026	0	53.82
5451-25-5452-52852	PERFORMANCE FOOD SERVICE	Food for Resale		03/31/2026	0	589.04
5451-25-5452-52852	PERFORMANCE FOOD SERVICE	Food for Resale		03/31/2026	0	605.30
			Vendor Subtotal:			1,978.86
5451-25-5452-52853	BRIDGESTONE GOLF INC	BRIDGESTONE TOUR BALLS DOZEI		03/31/2026	0	445.00 00032503
5451-25-5452-52853	BRIDGESTONE GOLF INC	PITCH FIX DIVOT REPAIR TOOLS		03/31/2026	0	375.00 00032503
5451-25-5452-52853	BRIDGESTONE GOLF INC	SHIPPING		03/31/2026	0	18.51 00032503
			Vendor Subtotal:			838.51
5451-25-5452-52853	CALLAWAY GOLF COMPANY	CALLAWAY WEATHERSPANN GLO		03/31/2026	0	952.56 00032560
5451-25-5452-52853	CALLAWAY GOLF COMPANY	CALLAWAY WEATHERSPANN GLO		03/31/2026	0	20.54
5451-25-5452-52853	CALLAWAY GOLF COMPANY	CHROME SOFT DOZEN		03/31/2026	0	1,571.40 00032560
5451-25-5452-52853	CALLAWAY GOLF COMPANY	CHROME SOFT DOZEN		03/31/2026	0	4.79
5451-25-5452-52853	CALLAWAY GOLF COMPANY	CALLAWAY LOGO HEADWEAR		03/31/2026	0	745.20 00032559
5451-25-5452-52853	CALLAWAY GOLF COMPANY	CALLAWAY LOGO HEADWEAR		03/31/2026	0	26.05
5451-25-5452-52853	CALLAWAY GOLF COMPANY	SHIPPING		03/31/2026	0	50.00 00032559

5451-25-5452-52853	CALLAWAY GOLF COMPANY	CALLAWAY HEADWEAR	03/31/2026	0	650.16 00032559
5451-25-5452-52853	CALLAWAY GOLF COMPANY	SHIPPING	03/31/2026	0	1.34
5451-25-5452-52853	CALLAWAY GOLF COMPANY	SHIPPING	03/31/2026	0	100.00 00032560
5451-25-5452-52853	CALLAWAY GOLF COMPANY	SUPERSOFT DOZEN	03/31/2026	0	985.92 00032560
		Vendor Subtotal:			5,107.96
5451-25-5452-52853	TITLEIST	TITLEIST HEADWEAR	03/31/2026	0	210.00 00032505
5451-25-5452-52853	TITLEIST	AVX DOZEN BALLS	03/31/2026	0	480.00 00032505
5451-25-5452-52853	TITLEIST	AVX DOZEN BALLS	03/31/2026	0	12.24
		Vendor Subtotal:			702.24
5451-25-5452-65240	MUSCATINE POWER & WATER	Feb - Mar Machlink	03/31/2026	0	61.99
		Vendor Subtotal:			61.99
5451-25-5452-65510	MUSCATINE POWER & WATER	February Cable - Golf	03/31/2026	0	147.24
		Vendor Subtotal:			147.24
		Subtotal for FUND: 5451			26,717.37
5642-00-0000-23550	RELIANCE STANDARD LIFE INS CC	PR Batch 00002.02.2026 Life Insurance	02/27/2026	0	0.40
		Vendor Subtotal:			0.40
5642-00-0000-23630	RELIANCE STANDARD LIFE INS CC	PR Batch 00001.02.2026 Optional Life	02/13/2026	0	244.36
5642-00-0000-23630	RELIANCE STANDARD LIFE INS CC	PR Batch 00002.02.2026 Optional Life	02/27/2026	0	244.35
		Vendor Subtotal:			488.71
5642-45-5642-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	46.00
		Vendor Subtotal:			46.00
5642-45-5642-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	33.60
5642-45-5642-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March	03/31/2026	0	107.60

			Vendor Subtotal:			141.20
5642-45-5642-61310	MUSCATINE POWER & WATER	March Sanitation		03/27/2026	0	4,295.99
			Vendor Subtotal:			4,295.99
5642-45-5642-62245	REPUBLIC SERVICES OF IOWA LLC	February Recycling		03/30/2026	0	35,967.26
			Vendor Subtotal:			35,967.26
5642-45-5642-62280	LIBERTY TIRE SERVICE OF OHIO L	Recycling		03/27/2026	0	3,637.80
			Vendor Subtotal:			3,637.80
5642-45-5642-62285	MICHAEL WEIKERT JR	Scrap Appliance		03/30/2026	0	72.00
			Vendor Subtotal:			72.00
5642-45-5642-65240	MUSCATINE POWER & WATER	Feb - Mar Machlink		03/31/2026	0	61.99
			Vendor Subtotal:			61.99
5642-45-5642-65410	MUSCATINE POWER & WATER	February Water - Recycle		03/30/2026	0	37.24
			Vendor Subtotal:			37.24
5642-45-5642-65420	MUSCATINE POWER & WATER	February Sewer - Recycle		03/30/2026	0	15.51
5642-45-5642-65420	MUSCATINE POWER & WATER	February Sewer - Recycle		03/30/2026	0	20.38
			Vendor Subtotal:			35.89
5642-45-5642-74200	REHRIG PACIFIC COMPANY	(225) 95G Refuse Collection Carts		03/27/2026	0	13,831.00 00033089
			Vendor Subtotal:			13,831.00
5642-45-5643-62260	PS3 Enterprises Inc.	Temp Sanitation		03/27/2026	0	110.00

			Vendor Subtotal:			110.00
			Subtotal for FUND: 5642			58,725.48
5652-00-0000-23630	RELIANCE STANDARD LIFE INS CC	PR Batch 00002.02.2026 Optional Life		02/27/2026	0	41.15
5652-00-0000-23630	RELIANCE STANDARD LIFE INS CC	PR Batch 00001.02.2026 Optional Life		02/13/2026	0	41.14
			Vendor Subtotal:			82.29
5652-45-5652-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	10.84
			Vendor Subtotal:			10.84
5652-45-5652-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	12.50
			Vendor Subtotal:			12.50
5652-45-5652-52890	BLUE FLAME PROPANE LLC	Tank Rental		03/27/2026	0	100.00
			Vendor Subtotal:			100.00
5652-45-5652-53340	HARSCO METALS AMERICAS	2x1 Slag for Landfill		03/30/2026	0	1,320.00 00033014
5652-45-5652-53340	HARSCO METALS AMERICAS	2x1 Slag for Landfill		03/30/2026	0	130.62
			Vendor Subtotal:			1,450.62
5652-45-5652-61420	STEARNS, CONRAD AND SCHMIDT	FY26 Environmental Compliance		03/30/2026	0	5,725.00
5652-45-5652-61420	STEARNS, CONRAD AND SCHMIDT	FY26 On Call Support		03/30/2026	0	360.00
			Vendor Subtotal:			6,085.00
5652-45-5652-65320	EASTERN IOWA LIGHT & POWER C	February Power - Ward		03/30/2026	0	175.88
5652-45-5652-65320	EASTERN IOWA LIGHT & POWER C	February Power - Landfill		03/30/2026	0	155.97
			Vendor Subtotal:			331.85
5652-45-5652-67130	TIPTON ELECTRIC MOTORS INC	Rewind West Pump House Air Pump Mc		03/27/2026	0	260.15 00033134

		Vendor Subtotal:			260.15
		Subtotal for FUND: 5652			8,333.25
5658-45-5658-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	20.58
		Vendor Subtotal:			20.58
5658-45-5658-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	13.08
5658-45-5658-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March	03/31/2026	0	57.40
		Vendor Subtotal:			70.48
5658-45-5658-51100	AMAZON.COM	Rubber Bands/Binders	03/30/2026	0	93.11
		Vendor Subtotal:			93.11
5658-45-5658-52750	S.J. SMITH CO.	Propane	03/30/2026	0	95.20
		Vendor Subtotal:			95.20
5658-45-5658-52830	MENARDS (MUSC)	Driver Set/Drill Bit	03/27/2026	0	10.68
		Vendor Subtotal:			10.68
5658-45-5658-52830	AMAZON.COM	Saw Blades	03/27/2026	0	97.47
		Vendor Subtotal:			97.47
5658-45-5658-52840	DRJ GROUP, LLC	First Aid Supplies	03/30/2026	0	29.42
		Vendor Subtotal:			29.42
5658-45-5658-52890	ARNOLD MOTOR SUPPLY	Blower Motor	03/30/2026	0	61.22
5658-45-5658-52890	ARNOLD MOTOR SUPPLY	Mud Flap	03/30/2026	0	60.88
5658-45-5658-52890	ARNOLD MOTOR SUPPLY	Mud Flap	03/27/2026	0	24.48
5658-45-5658-52890	ARNOLD MOTOR SUPPLY	Mud Flap	03/27/2026	0	30.44

5658-45-5658-52890	ARNOLD MOTOR SUPPLY	Return		03/27/2026	0	-58.99
5658-45-5658-52890	ARNOLD MOTOR SUPPLY	Kit		03/27/2026	0	58.99
			Vendor Subtotal:			177.02
5658-45-5658-52890	LUPTON & TOYNE PRINTERS	Business Cards - Popp		03/27/2026	0	30.00
			Vendor Subtotal:			30.00
5658-45-5658-52890	MENARDS (MUSC)	Lock Nut/Connector		03/27/2026	0	9.55
			Vendor Subtotal:			9.55
5658-45-5658-52890	VAN METER INDUSTRIAL INC	Fuse		03/30/2026	0	61.34
			Vendor Subtotal:			61.34
5658-45-5658-52890	AMAZON.COM	Trailer Lights		03/30/2026	0	21.55
5658-45-5658-52890	AMAZON.COM	License Plate Light		03/30/2026	0	11.99
5658-45-5658-52890	AMAZON.COM	American Flag		03/27/2026	0	54.98
5658-45-5658-52890	AMAZON.COM	Pump Sprayer		03/27/2026	0	24.99
			Vendor Subtotal:			113.51
5658-45-5658-61340	RMH SYSTEMS, INC	PDOX Annual Support		03/30/2026	0	2,450.00 00033159
			Vendor Subtotal:			2,450.00
5658-45-5658-62210	PHELPS THE UNIFORM SPECIALIST	Laundry - Transfer		03/30/2026	0	12.91
5658-45-5658-62210	PHELPS THE UNIFORM SPECIALIST	Laundry - Transfer		03/27/2026	0	13.81
5658-45-5658-62210	PHELPS THE UNIFORM SPECIALIST	Laundry - Transfer		03/27/2026	0	13.81
			Vendor Subtotal:			40.53
5658-45-5658-62250	LAJEK PEST CONTROL SOLUTIONS	Pest Control		03/27/2026	0	48.00
			Vendor Subtotal:			48.00
5658-45-5658-62285	MICHAEL WEIKERT JR	Scrap Appliance		03/30/2026	0	342.00

		Vendor Subtotal:			342.00
5658-45-5658-62310	GORDON FLESCH COMPANY	Copier	03/27/2026	0	37.00
		Vendor Subtotal:			37.00
5658-45-5658-62410	TEAM STAFFING SOLUTIONS INC	Temp Employee Week Ending 3/8/25	03/30/2026	0	189.80
5658-45-5658-62410	TEAM STAFFING SOLUTIONS INC	Temp Employee Week Ending 3/15/26	03/27/2026	0	189.80
		Vendor Subtotal:			379.60
5658-45-5658-65210	MUSCATINE POWER & WATER	February Phone - Transfer	03/30/2026	0	124.96
		Vendor Subtotal:			124.96
5658-45-5658-65220	MUSCATINE POWER & WATER	February Phone - Transfer	03/30/2026	0	2.35
		Vendor Subtotal:			2.35
5658-45-5658-65320	MUSCATINE POWER & WATER	February Electric - Transfer	03/30/2026	0	2,392.50
		Vendor Subtotal:			2,392.50
5658-45-5658-65410	MUSCATINE POWER & WATER	February Water - Transfer	03/30/2026	0	97.93
		Vendor Subtotal:			97.93
5658-45-5658-65420	MUSCATINE POWER & WATER	February Sewer - Transfer	03/30/2026	0	15.51
5658-45-5658-65420	MUSCATINE POWER & WATER	February Sewer - Transfer	03/30/2026	0	209.58
		Vendor Subtotal:			225.09
5658-45-5658-69850	STATE OF IOWA - ELEVATOR SAFE	Annaul Inspection	03/30/2026	0	175.00
		Vendor Subtotal:			175.00
		Subtotal for FUND: 5658			7,123.32

5660-00-0000-23630	RELIANCE STANDARD LIFE INS CC	PR Batch 00002.02.2026 Optional Life		02/27/2026	0	258.53
5660-00-0000-23630	RELIANCE STANDARD LIFE INS CC	PR Batch 00001.02.2026 Optional Life		02/13/2026	0	258.53
			Vendor Subtotal:			517.06
5660-50-5661-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	7.75
			Vendor Subtotal:			7.75
5660-50-5661-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	13.26
			Vendor Subtotal:			13.26
5660-50-5661-51100	AMAZON.COM	Postcards		03/30/2026	0	57.42
5660-50-5661-51100	AMAZON.COM	Office Supplies		03/31/2026	0	24.30 00033195
			Vendor Subtotal:			81.72
5660-50-5661-51300	AMAZON.COM	Toner		03/31/2026	0	92.67 00033195
			Vendor Subtotal:			92.67
5660-50-5661-61310	MUSCATINE POWER & WATER	March Sewer		03/27/2026	0	4,339.45
			Vendor Subtotal:			4,339.45
5660-50-5661-62370	GORDON FLESCH COMPANY	Copier		03/30/2026	0	16.55
			Vendor Subtotal:			16.55
5660-50-5661-65240	MUSCATINE POWER & WATER	Feb - Mar Machlink		03/31/2026	0	61.99
			Vendor Subtotal:			61.99
5660-50-5662-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	65.76
			Vendor Subtotal:			65.76

5660-50-5662-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March	03/31/2026	0	86.34
5660-50-5662-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	57.61
		Vendor Subtotal:			143.95
5660-50-5662-52300	JACOB OTT	Reimb Shoes - J Ott	03/31/2026	0	150.00
		Vendor Subtotal:			150.00
5660-50-5662-52300	JEREMY POLZIN	Reimb Boots - J Polzin	03/31/2026	0	99.21
5660-50-5662-52300	JEREMY POLZIN	Reimb Uniforms - J Polzin	03/31/2026	0	45.11
		Vendor Subtotal:			144.32
5660-50-5662-52740	AMAZON.COM	Oil	03/30/2026	0	59.09
		Vendor Subtotal:			59.09
5660-50-5662-52830	AMAZON.COM	Tools	03/30/2026	0	17.98
5660-50-5662-52830	AMAZON.COM	Label Maker & Labels	03/31/2026	0	253.04 00033213
		Vendor Subtotal:			271.02
5660-50-5662-52840	AMAZON.COM	Eye Wash	03/27/2026	0	66.00
		Vendor Subtotal:			66.00
5660-50-5662-53130	PLUMB SUPPLY COMPANY	Coupling	03/30/2026	0	11.60
5660-50-5662-53130	PLUMB SUPPLY COMPANY	Coupling	03/30/2026	0	11.60
		Vendor Subtotal:			23.20
5660-50-5662-53210	ARNOLD MOTOR SUPPLY	V-Belt	03/27/2026	0	18.84
		Vendor Subtotal:			18.84
5660-50-5662-53210	UTILITY EQUIPMENT CO	Expansion Joint for Little Wet Well Pum	03/27/2026	0	941.87 00033184

		Vendor Subtotal:			941.87	
5660-50-5662-53210	ZIMMER & FRANCESCON INC	Backflow Actuators for Little Wet Well (	03/31/2026	0	1,710.00	00032865
		Vendor Subtotal:			1,710.00	
5660-50-5662-53210	AMAZON.COM	Air Purifier	03/30/2026	0	99.99	
5660-50-5662-53210	AMAZON.COM	Pump Adapter/Groove Hose	03/30/2026	0	88.95	
5660-50-5662-53210	AMAZON.COM	Fittings	03/30/2026	0	14.24	
		Vendor Subtotal:			203.18	
5660-50-5662-53210	TROJAN TECHNOLOGIES CORP	UV Bulbs & Sleeves	03/31/2026	0	10,296.56	00033158
		Vendor Subtotal:			10,296.56	
5660-50-5662-53220	ARNOLD MOTOR SUPPLY	V-Belt	03/27/2026	0	9.42	
5660-50-5662-53220	ARNOLD MOTOR SUPPLY	Clam Shell	03/30/2026	0	4.19	
		Vendor Subtotal:			13.61	
5660-50-5662-53220	GRAINGER DEPT 802675066	Mount/O-Ring	03/30/2026	0	68.56	
		Vendor Subtotal:			68.56	
5660-50-5662-53220	MENARDS (MUSC)	Water/Bounty/Plates/Bowls	03/30/2026	0	61.71	
		Vendor Subtotal:			61.71	
5660-50-5662-53220	AMAZON.COM	TV Mount	03/31/2026	0	23.92	
		Vendor Subtotal:			23.92	
5660-50-5662-61520	UNITYPOINT HEALTH AT WORK	Medical J Polzin DOS 3/9/26	03/31/2026	0	508.00	
		Vendor Subtotal:			508.00	

5660-50-5662-62210	PHELPS THE UNIFORM SPECIALIST	Laundry - WRRF		03/27/2026	0	289.01
5660-50-5662-62210	PHELPS THE UNIFORM SPECIALIST	Laundry - WRRF		03/30/2026	0	289.01
			Vendor Subtotal:			578.02
5660-50-5662-65100	QUAD CITY TIMES & MUSC JOURN	WRRF Public Notice - Kraft		03/31/2026	0	17.10
5660-50-5662-65100	QUAD CITY TIMES & MUSC JOURN	WRRF Public Notice - Hon Progress Par		03/31/2026	0	15.73
5660-50-5662-65100	QUAD CITY TIMES & MUSC JOURN	WRRF Public Notice - Union Tank		03/31/2026	0	15.73
			Vendor Subtotal:			48.56
5660-50-5662-65210	MUSCATINE POWER & WATER	February Phones - WRRF		03/30/2026	0	20.99
			Vendor Subtotal:			20.99
5660-50-5662-65260	VERIZON WIRELESS	February Cell Phones		03/30/2026	0	169.13
			Vendor Subtotal:			169.13
5660-50-5662-65275	MUSCATINE POWER & WATER	February Internet - WRRF		03/30/2026	0	62.97
			Vendor Subtotal:			62.97
5660-50-5662-65310	ALLIANT ENERGY	February Gas - WRRF		03/30/2026	0	7,393.86
5660-50-5662-65310	ALLIANT ENERGY	February Gas - Grit Bldg		03/30/2026	0	7,616.11
			Vendor Subtotal:			15,009.97
5660-50-5662-65320	MUSCATINE POWER & WATER	February Electric - W Bank		03/30/2026	0	21,572.42
5660-50-5662-65320	MUSCATINE POWER & WATER	February Electric - E Bank		03/30/2026	0	1,508.06
			Vendor Subtotal:			23,080.48
5660-50-5662-65410	MUSCATINE POWER & WATER	February Water - WRRF		03/30/2026	0	245.09
			Vendor Subtotal:			245.09
5660-50-5662-67130	CRAWFORD COMPANY INC	Labor/Material to Install to New Hydrant		03/30/2026	0	3,000.00 00032989
5660-50-5662-67130	CRAWFORD COMPANY INC	Labor/Material to Install to New Hydrant		03/30/2026	0	7,266.75

5660-50-5662-67130	CRAWFORD COMPANY INC	Labor/Materials to Jet Drain in DCB	03/30/2026	0	612.50 00033119
		Vendor Subtotal:			10,879.25
5660-50-5663-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	18.51
		Vendor Subtotal:			18.51
5660-50-5663-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March	03/31/2026	0	17.72
5660-50-5663-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	17.74
		Vendor Subtotal:			35.46
5660-50-5663-52750	MOTION INDUSTRIES INC	Anti Seize	03/27/2026	0	30.91
		Vendor Subtotal:			30.91
5660-50-5663-52830	AMAZON.COM	Grinder Cut Off Wheels	03/27/2026	0	29.96
		Vendor Subtotal:			29.96
5660-50-5663-53120	VAN METER INDUSTRIAL INC	Outlets	03/27/2026	0	97.62
		Vendor Subtotal:			97.62
5660-50-5663-53120	AMAZON.COM	Switches	03/31/2026	0	39.58
		Vendor Subtotal:			39.58
5660-50-5663-53130	GRAINGER DEPT 802675066	Nipple/Ball Valve	03/30/2026	0	88.52
		Vendor Subtotal:			88.52
5660-50-5663-53130	MENARDS (MUSC)	Drain Cleaner/Expanding Hose	03/27/2026	0	72.47
5660-50-5663-53130	MENARDS (MUSC)	Coupling/Fitting	03/27/2026	0	16.48
		Vendor Subtotal:			88.95

5660-50-5663-53130	AMAZON.COM	Nozzle/Hose Bib		03/27/2026	0	77.95
			Vendor Subtotal:			77.95
5660-50-5663-53210	GRAINGER DEPT 802675066	Hardware		03/27/2026	0	45.57
			Vendor Subtotal:			45.57
5660-50-5663-53210	AMAZON.COM	Hardware		03/27/2026	0	8.98
5660-50-5663-53210	AMAZON.COM	Hardware		03/27/2026	0	9.49
			Vendor Subtotal:			18.47
5660-50-5663-53220	GRAINGER DEPT 802675066	Hardware		03/27/2026	0	91.82
			Vendor Subtotal:			91.82
5660-50-5663-53220	MOTION INDUSTRIES INC	Bearings for Bar Screen at Papoose		03/30/2026	0	471.68 00033157
5660-50-5663-53220	MOTION INDUSTRIES INC	Bearings for Bar Screen at Papoose		03/30/2026	0	11.23
			Vendor Subtotal:			482.91
5660-50-5663-53220	AMAZON.COM	Fitting		03/27/2026	0	83.87
5660-50-5663-53220	AMAZON.COM	Hanging Folders		03/30/2026	0	34.35
5660-50-5663-53220	AMAZON.COM	2.5" Pipe for Papoose Bar Screen		03/31/2026	0	104.99 00033202
			Vendor Subtotal:			223.21
5660-50-5663-62530	ESCO AUTOMATION	Hooking up Fiber Optic to Canon, Isett a		03/31/2026	0	5,000.00 00032987
5660-50-5663-62530	ESCO AUTOMATION	Hooking up Fiber Optic to Canon, Isett a		03/31/2026	0	2,101.30
			Vendor Subtotal:			7,101.30
5660-50-5663-65260	VERIZON WIRELESS	February Cell Phones		03/30/2026	0	169.13
			Vendor Subtotal:			169.13
5660-50-5663-65275	MUSCATINE POWER & WATER	February Internet - Miles		03/27/2026	0	42.50
5660-50-5663-65275	MUSCATINE POWER & WATER	March Internet - Bond		03/27/2026	0	39.73

5660-50-5663-65275	MUSCATINE POWER & WATER	March Internet - Canon	03/27/2026	0	39.73
5660-50-5663-65275	MUSCATINE POWER & WATER	March Internet - Papoose	03/27/2026	0	39.72
5660-50-5663-65275	MUSCATINE POWER & WATER	March Internet - Schley	03/27/2026	0	39.72
5660-50-5663-65275	MUSCATINE POWER & WATER	March Internet - Spinning Wheel	03/27/2026	0	39.72
5660-50-5663-65275	MUSCATINE POWER & WATER	March Internet - Hershey	03/27/2026	0	39.72
5660-50-5663-65275	MUSCATINE POWER & WATER	February Internet - Mad Creek	03/30/2026	0	42.50
5660-50-5663-65275	MUSCATINE POWER & WATER	February Internet - Isett	03/30/2026	0	42.50
5660-50-5663-65275	MUSCATINE POWER & WATER	February Internet - Slough	03/30/2026	0	42.50
5660-50-5663-65275	MUSCATINE POWER & WATER	February Internet - 57th	03/30/2026	0	42.51
5660-50-5663-65275	MUSCATINE POWER & WATER	February Internet - Sampson	03/30/2026	0	42.50
5660-50-5663-65275	MUSCATINE POWER & WATER	February Internet - Progress	03/30/2026	0	42.50
5660-50-5663-65275	MUSCATINE POWER & WATER	February Internet - Tipton	03/30/2026	0	42.50
5660-50-5663-65275	MUSCATINE POWER & WATER	February Internet - Love's	03/30/2026	0	42.50
		Vendor Subtotal:			620.85
5660-50-5663-65310	ALLIANT ENERGY	March Gas - Stewart	03/27/2026	0	388.78
5660-50-5663-65310	ALLIANT ENERGY	February Gas - Love's	03/27/2026	0	667.71
5660-50-5663-65310	ALLIANT ENERGY	February Gas - Arbor Commons	03/30/2026	0	37.74
5660-50-5663-65310	ALLIANT ENERGY	March Gas- Bond	03/31/2026	0	85.08
5660-50-5663-65310	ALLIANT ENERGY	March Gas - Progress	03/31/2026	0	439.16
		Vendor Subtotal:			1,618.47
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Schley	03/27/2026	0	115.99
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Magnolia	03/27/2026	0	28.68
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Hershey	03/27/2026	0	138.84
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Hershey BU	03/27/2026	0	26.47
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Bond	03/27/2026	0	143.96
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Miles	03/27/2026	0	445.40
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Papoose	03/30/2026	0	2,651.07
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Isett	03/30/2026	0	2,250.40
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Mad Creek	03/30/2026	0	1,634.95
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Sunset	03/30/2026	0	158.71
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Stormwater	03/30/2026	0	141.59
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Slough	03/30/2026	0	26.66
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Progress	03/30/2026	0	780.15
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Sampson	03/30/2026	0	889.00
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Tipton	03/30/2026	0	508.67
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - 57th	03/30/2026	0	349.22
5660-50-5663-65320	MUSCATINE POWER & WATER	February Electric - Love's	03/30/2026	0	516.65

		Vendor Subtotal:			10,806.41	
5660-50-5663-65410	MUSCATINE POWER & WATER	February Water - Miles	03/27/2026	0	23.06	
5660-50-5663-65410	MUSCATINE POWER & WATER	February Water - Bond	03/27/2026	0	22.13	
5660-50-5663-65410	MUSCATINE POWER & WATER	February Water - Schley	03/27/2026	0	23.06	
5660-50-5663-65410	MUSCATINE POWER & WATER	February Water - Hershey	03/27/2026	0	25.83	
5660-50-5663-65410	MUSCATINE POWER & WATER	February Water - Isett	03/30/2026	0	310.69	
5660-50-5663-65410	MUSCATINE POWER & WATER	February Water - Mad Creek	03/30/2026	0	200.14	
5660-50-5663-65410	MUSCATINE POWER & WATER	February Water - Papoose	03/30/2026	0	777.06	
5660-50-5663-65410	MUSCATINE POWER & WATER	February Water - 57th	03/30/2026	0	22.13	
5660-50-5663-65410	MUSCATINE POWER & WATER	February Water - Sampson	03/30/2026	0	25.83	
5660-50-5663-65410	MUSCATINE POWER & WATER	February Water - Progress	03/30/2026	0	26.54	
5660-50-5663-65410	MUSCATINE POWER & WATER	February Water - Tipton	03/30/2026	0	22.13	
5660-50-5663-65410	MUSCATINE POWER & WATER	February Water - Love's	03/30/2026	0	35.39	
		Vendor Subtotal:			1,513.99	
5660-50-5663-67130	KONECRANES INC.	Inspection of Overhead Crane	03/30/2026	0	1,172.00	00033082
		Vendor Subtotal:			1,172.00	
5660-50-5663-67130	SCHMARJE	Mechanical Seal Sleeves & Machine Wo	03/30/2026	0	400.00	00033135
5660-50-5663-67130	SCHMARJE	Stuffing Box	03/30/2026	0	600.00	00033135
		Vendor Subtotal:			1,000.00	
5660-50-5663-73900	HY-BRAND INDUSTRIAL CONTRAC	Slough Upgrade Pay App #2	03/30/2026	0	2,931.70	
		Vendor Subtotal:			2,931.70	
5660-50-5665-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	30.52	
		Vendor Subtotal:			30.52	
5660-50-5665-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March	03/31/2026	0	50.88	
5660-50-5665-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	24.28	
		Vendor Subtotal:			75.16	

5660-50-5665-52210	AIRGAS USA LLC	Argon		03/31/2026	0	258.10 00033117
			Vendor Subtotal:			258.10
5660-50-5665-52210	AIRGAS NORTH CENTRAL	Argon		03/27/2026	0	270.56 00033019
5660-50-5665-52210	AIRGAS NORTH CENTRAL	Argon		03/30/2026	0	270.56 00033004
			Vendor Subtotal:			541.12
5660-50-5665-52210	FISHER SCIENTIFIC	Ricca Std., Cyanide		03/31/2026	0	113.34 00032747
			Vendor Subtotal:			113.34
5660-50-5665-52210	MIDLAND SCIENTIFIC INC	Lab Supplies		03/30/2026	0	1,579.69 00033071
5660-50-5665-52210	MIDLAND SCIENTIFIC INC	Lab Supplies		03/30/2026	0	3.18
			Vendor Subtotal:			1,582.87
5660-50-5665-52210	THERMO ELECTRON NORTH AMEF	063965	AS22 Eluent Concentrate	03/27/2026	0	396.00 00033129
5660-50-5665-52210	THERMO ELECTRON NORTH AMEF	060001	Electro. Regenerated Surpressor	03/27/2026	0	1,570.00 00033129
5660-50-5665-52210	THERMO ELECTRON NORTH AMEF	Shipping		03/27/2026	0	20.00
			Vendor Subtotal:			1,986.00
5660-50-5665-52210	ULINE	Lab Supplies		03/30/2026	0	66.00
			Vendor Subtotal:			66.00
5660-50-5665-52210	USA BLUE BOOK	Hach Replacement cao for LDO 0101		03/30/2026	0	244.29 00033098
5660-50-5665-52210	USA BLUE BOOK	Hach Replacement cao for LDO 0101		03/30/2026	0	0.11
			Vendor Subtotal:			244.40
5660-50-5665-52210	AMAZON.COM	Filters		03/27/2026	0	34.79
			Vendor Subtotal:			34.79
5660-50-5665-61340	AQUATIC INFORMATICS INC	Annual WIMS RIO Software Fee		03/27/2026	0	8,436.00 00032485

			Vendor Subtotal:			8,436.00
5660-50-5665-62510	ENVIRONMENTAL RESOURCE ASS	Testing		03/30/2026	0	561.58 00033152
			Vendor Subtotal:			561.58
5660-50-5665-62510	MICROBAC LABORATORIES INC	Testing		03/31/2026	0	95.25
			Vendor Subtotal:			95.25
5660-50-5665-63500	PHELPS THE UNIFORM SPECIALIST	Laundry - WRRF		03/27/2026	0	31.90
5660-50-5665-63500	PHELPS THE UNIFORM SPECIALIST	Laundry - WRRF		03/30/2026	0	29.82
			Vendor Subtotal:			61.72
5660-50-5665-69200	MAILBOXES & PARCEL DEPOT	Shipping		03/27/2026	0	17.68
			Vendor Subtotal:			17.68
5660-50-5666-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	9.39
			Vendor Subtotal:			9.39
5660-50-5666-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March		03/31/2026	0	56.10
			Vendor Subtotal:			56.10
5660-50-5666-52830	MENARDS (MUSC)	Tool Bag/Grabber		03/27/2026	0	89.91
			Vendor Subtotal:			89.91
5660-50-5666-53210	MSC INDUSTRIAL SUPPLY	Eyebolts		03/27/2026	0	75.36
			Vendor Subtotal:			75.36
5660-50-5666-53210	ELLICOTT DREDGE TECHNOLOGIE	4800" of 10" Layflat Hose T253 (400 1		03/27/2026	0	13,608.00 00033136
5660-50-5666-53210	ELLICOTT DREDGE TECHNOLOGIE	Hose		03/30/2026	0	5,267.34

			Vendor Subtotal:			18,875.34
5660-50-5666-53220	ELLICOTT DREDGE TECHNOLOGIE	Sight Glass		03/30/2026	0	74.49
			Vendor Subtotal:			74.49
5660-50-5666-62510	MICROBAC LABORATORIES INC	Testing		03/30/2026	0	755.50 00033126
			Vendor Subtotal:			755.50
5660-50-5666-65320	EASTERN IOWA LIGHT & POWER C	February Power - Musser		03/30/2026	0	111.46
			Vendor Subtotal:			111.46
5660-50-5666-67130	MILLS MARINE	Annual Tune Up and Inspection		03/30/2026	0	833.74 00033116
			Vendor Subtotal:			833.74
5660-50-5666-67140	A-1 QUALITY TIRE & CAR CARE	Tire Repair		03/27/2026	0	28.50
			Vendor Subtotal:			28.50
5660-50-5666-67150	SIGOURNEY TRACTOR & IMPLEME	PTO Drive Shaft for the 20' John Deere l		03/30/2026	0	1,509.43 00033110
5660-50-5666-67150	SIGOURNEY TRACTOR & IMPLEME	PTO Drive Shaft for the 20' John Deere l		03/30/2026	0	81.00
			Vendor Subtotal:			1,590.43
5660-50-5668-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	6.26
			Vendor Subtotal:			6.26
5660-50-5668-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March		03/31/2026	0	35.44
			Vendor Subtotal:			35.44
5660-50-5668-52830	GRAINGER DEPT 802675066	Sockets		03/27/2026	0	200.00 00033168

			Vendor Subtotal:			200.00
5660-50-5668-53120	AMAZON.COM	Thermostat		03/27/2026	0	48.50
			Vendor Subtotal:			48.50
5660-50-5668-53210	ARNOLD MOTOR SUPPLY	Grease Pack/Blade		03/30/2026	0	19.20
			Vendor Subtotal:			19.20
5660-50-5668-53210	AMAZON.COM	Return		03/30/2026	0	-177.24
			Vendor Subtotal:			-177.24
5660-50-5668-63300	BLUE FLAME PROPANE LLC	Tank Rental		03/27/2026	0	100.00
			Vendor Subtotal:			100.00
5660-50-5668-67130	CRAWFORD COMPANY INC	MAU Heat Repairs		03/30/2026	0	591.48 00033167
			Vendor Subtotal:			591.48
			Subtotal for FUND: 5660			135,726.18
5664-00-0000-23550	RELIANCE STANDARD LIFE INS CC	PR Batch 00002.02.2026 Life Insurance		02/27/2026	0	0.14
			Vendor Subtotal:			0.14
5664-40-5664-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	34.33
			Vendor Subtotal:			34.33
5664-40-5664-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	26.95
5664-40-5664-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March		03/31/2026	0	75.67
			Vendor Subtotal:			102.62

5664-40-5664-52840	GRAINGER DEPT 802675066	Carbon Monoxide Sensor	03/27/2026	0	396.36 00033097
		Vendor Subtotal:			396.36
5664-40-5664-52890	MENARDS (MUSC)	Bar Oil/File	03/27/2026	0	17.98
		Vendor Subtotal:			17.98
5664-40-5664-52890	SMITH SALES & SERVICE	Blade	03/27/2026	0	39.95
		Vendor Subtotal:			39.95
5664-40-5664-64200	DAVID HARRIS	Training - Shaw	03/31/2026	0	437.50
		Vendor Subtotal:			437.50
5664-40-5664-65240	MIDWEST WIRELESS LLC	April Radios	03/27/2026	0	75.60
		Vendor Subtotal:			75.60
5664-40-5664-65275	VERIZON WIRELESS	February Cell Phones	03/31/2026	0	40.04
		Vendor Subtotal:			40.04
5664-40-5664-67400	MACQUEEN EQUIPMENT, LLC	Sewer Camera Repair	03/27/2026	0	6,826.35 00033051
		Vendor Subtotal:			6,826.35
5664-50-5667-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	8.38
		Vendor Subtotal:			8.38
5664-50-5667-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	11.43
		Vendor Subtotal:			11.43
5664-50-5667-62530	PS3 Enterprises Inc.	Temp Sanitation	03/27/2026	0	180.00

			Vendor Subtotal:			180.00
			Subtotal for FUND: 5664			8,170.68
5711-10-5711-52710	JET AIR INC	Fuel		03/31/2026	0	91.49
			Vendor Subtotal:			91.49
5711-10-5711-61650	JET AIR INC	April 2026		04/02/2026	0	3,875.00
			Vendor Subtotal:			3,875.00
5711-10-5711-65310	ALLIANT ENERGY	March Gas - Airport		03/31/2026	0	233.35
			Vendor Subtotal:			233.35
5711-10-5711-67130	MIDWEST WIRELESS LLC	Install Radio		03/27/2026	0	202.13
			Vendor Subtotal:			202.13
			Subtotal for FUND: 5711			4,401.97
5811-20-5811-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	11.51
			Vendor Subtotal:			11.51
5811-20-5811-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	19.80
			Vendor Subtotal:			19.80
5811-20-5811-52300	AMAZON.COM	Super Auto Eject Cover		03/31/2026	0	56.25
			Vendor Subtotal:			56.25
5811-20-5811-52840	LIFE-ASSIST	Face Mask		03/31/2026	0	35.50
5811-20-5811-52840	LIFE-ASSIST	Uescope Disposable J3 Blade - Size 3		03/31/2026	0	203.76 00033239
5811-20-5811-52840	LIFE-ASSIST	Bougie-To-Go ET Tube Introducer		03/31/2026	0	119.40 00033239

5811-20-5811-52840	LIFE-ASSIST	SurgiLance Safety Lancets, 21G 2-2mm,	03/31/2026	0	30.00	00033239
5811-20-5811-52840	LIFE-ASSIST	Nasopharyngeal Airway PVC	03/27/2026	0	46.50	
5811-20-5811-52840	LIFE-ASSIST	Mask w/Nebulizer	03/27/2026	0	198.66	
		Vendor Subtotal:			633.82	
5811-20-5811-52840	BOUND TREE MEDICAL LLC	Oxygen Regulator Gasket	03/31/2026	0	17.80	
5811-20-5811-52840	BOUND TREE MEDICAL LLC	Endotracheal Tube	03/31/2026	0	15.70	
5811-20-5811-52840	BOUND TREE MEDICAL LLC	2712-29190 Masimo M-LNCS Sensor- P	03/31/2026	0	130.08	00033075
5811-20-5811-52840	BOUND TREE MEDICAL LLC	2712-25150 Masimo M-LNCS Sensor- N	03/31/2026	0	112.45	00033075
5811-20-5811-52840	BOUND TREE MEDICAL LLC	Noseclip	03/31/2026	0	31.50	
5811-20-5811-52840	BOUND TREE MEDICAL LLC	Adhesive Ear Sensors	03/31/2026	0	65.04	
5811-20-5811-52840	BOUND TREE MEDICAL LLC	2141-20153 IntuBrite Disposable Laryng	03/31/2026	0	31.56	00033207
5811-20-5811-52840	BOUND TREE MEDICAL LLC	2763-53050 Assure Prism Multi Blood G	03/31/2026	0	49.50	00033207
5811-20-5811-52840	BOUND TREE MEDICAL LLC	230005 Amu Sensor SP, Pediatric/Adult	03/31/2026	0	412.00	00033207
5811-20-5811-52840	BOUND TREE MEDICAL LLC	Cloth Wipes	03/31/2026	0	79.68	
5811-20-5811-52840	BOUND TREE MEDICAL LLC	Ear Sensors/Sensor w/Tape	03/31/2026	0	89.15	
5811-20-5811-52840	BOUND TREE MEDICAL LLC	Gauze/Oxygen Mask	03/31/2026	0	91.70	
5811-20-5811-52840	BOUND TREE MEDICAL LLC	Bandaids	03/31/2026	0	49.28	
5811-20-5811-52840	BOUND TREE MEDICAL LLC	1613-86222 Curaplex CuraSlide BC Safe	03/31/2026	0	149.50	00033240
5811-20-5811-52840	BOUND TREE MEDICAL LLC	IV Catheter	03/27/2026	0	87.25	
5811-20-5811-52840	BOUND TREE MEDICAL LLC	Tourniquet/Chart Paper	03/27/2026	0	39.62	
5811-20-5811-52840	BOUND TREE MEDICAL LLC	1613-862202 Curaplex CuraSlide BC Sa	03/27/2026	0	299.00	00033163
5811-20-5811-52840	BOUND TREE MEDICAL LLC	1012-47134 Curaplex TritonGrip TE Exa	03/27/2026	0	137.90	00033163
5811-20-5811-52840	BOUND TREE MEDICAL LLC	Gauze Sponge	03/27/2026	0	25.74	
5811-20-5811-52840	BOUND TREE MEDICAL LLC	Dressing	03/27/2026	0	35.78	
5811-20-5811-52840	BOUND TREE MEDICAL LLC	2146-03236 Single Use Blade for UESC	03/27/2026	0	203.97	00033125
		Vendor Subtotal:			2,154.20	
5811-20-5811-52840	S.J. SMITH CO.	Oxygen	03/27/2026	0	217.68	
5811-20-5811-52840	S.J. SMITH CO.	Oxygen Tank Rental	03/31/2026	0	102.48	
		Vendor Subtotal:			320.16	
5811-20-5811-52840	AMAZON.COM	Ear Thermometer Probe Covers	03/30/2026	0	18.39	
		Vendor Subtotal:			18.39	
5811-20-5811-52840	UNITYPOINT HEALTH	Ambulance Re-Stock February	03/30/2026	0	272.50	

		Vendor Subtotal:			272.50	
5811-20-5811-53220	STECKER GRAPHICS	Vinyl Graphics Base Color Wrap for Rep	03/27/2026	0	4,900.00	00033029
		Vendor Subtotal:			4,900.00	
5811-20-5811-53220	ARNOLD MOTOR SUPPLY	Lift Support	03/31/2026	0	39.68	
5811-20-5811-53220	ARNOLD MOTOR SUPPLY	Oil Filter for Service on 352	03/27/2026	0	15.94	00033200
5811-20-5811-53220	ARNOLD MOTOR SUPPLY	Oil for Service on 352	03/27/2026	0	107.97	00033200
5811-20-5811-53220	ARNOLD MOTOR SUPPLY	Air Filter for Service on 352	03/27/2026	0	19.21	00033200
		Vendor Subtotal:			182.80	
5811-20-5811-53220	MENARDS (MUSC)	Hook/Lock Nut/Switch Box	03/31/2026	0	63.56	
		Vendor Subtotal:			63.56	
5811-20-5811-61140	PCC INC	December 2025 Ambulance Billing	03/31/2026	0	3,116.55	
5811-20-5811-61140	PCC INC	January 2026 Ambulance Billing	03/31/2026	0	6,996.14	
		Vendor Subtotal:			10,112.69	
5811-20-5811-62220	STERICYCLE INC	Medical Waste Hauling	03/31/2026	0	259.49	
		Vendor Subtotal:			259.49	
5811-20-5811-62370	SYCAMORE PRINTING INC	Certificate of Exemplary Service - N Pax	03/27/2026	0	7.00	
		Vendor Subtotal:			7.00	
5811-20-5811-64200	EASTERN IA COMMUNITY COLLEC	PALS Contract Renewal	03/27/2026	0	140.00	
		Vendor Subtotal:			140.00	
5811-20-5811-64600	EASTERN IA COMMUNITY COLLEC	PALS Class - Hickenbottom/Martin	03/27/2026	0	400.00	
		Vendor Subtotal:			400.00	

5811-20-5811-65240	MUSCATINE POWER & WATER	March Internet - S Fire		03/27/2026	0	255.00
			Vendor Subtotal:			255.00
5811-20-5811-65260	T-MOBILE	March Cell Phones		03/31/2026	0	242.01
			Vendor Subtotal:			242.01
5811-20-5811-67140	A-1 QUALITY TIRE & CAR CARE	Mount/Dismount		03/31/2026	0	45.00 00033093
5811-20-5811-67140	A-1 QUALITY TIRE & CAR CARE	Passenger Tire Balance		03/31/2026	0	45.00 00033093
5811-20-5811-67140	A-1 QUALITY TIRE & CAR CARE	225/75R16 C/10 Gen Grabber Tires for 3		03/31/2026	0	1,350.00 00033093
5811-20-5811-67140	A-1 QUALITY TIRE & CAR CARE	Labor		03/31/2026	0	62.00 00033103
5811-20-5811-67140	A-1 QUALITY TIRE & CAR CARE	225/70R19.5 Continental HSR5 A/P Tire		03/31/2026	0	710.00 00033103
			Vendor Subtotal:			2,212.00
5811-20-5811-67310	ADVANCED BUSINESS SYSTEMS I	Copier		03/27/2026	0	56.14
			Vendor Subtotal:			56.14
5811-20-5811-67310	ADVANCED BUSINESS SYSTEMS I	Copier		03/31/2026	0	200.70
			Vendor Subtotal:			200.70
5811-20-5811-67320	STECKER GRAPHICS	Vinyl graphics - Reflective, Roof and Sp		03/27/2026	0	2,700.00 00033028
			Vendor Subtotal:			2,700.00
5811-20-5811-69400	DIVISION OF EMS & HWY SAFETY I	Illinois Paramedic Licence - B Krieger		03/31/2026	0	135.00
5811-20-5811-69400	DIVISION OF EMS & HWY SAFETY I	Illinois Paramedic Licence - C Christians		03/31/2026	0	135.00
5811-20-5811-69400	DIVISION OF EMS & HWY SAFETY I	Illinois Paramedic Licence - C Hendrix		03/31/2026	0	135.00
			Vendor Subtotal:			405.00
5811-20-5811-69400	AARON MEREDITH	Reimb for Paramedic Renewal		03/31/2026	0	25.00
			Vendor Subtotal:			25.00

5811-20-5811-69400	SKYLAR DUNCAN	Reimb Paramedic Renewal		03/31/2026	0	25.00
			Vendor Subtotal:			25.00
			Subtotal for FUND: 5811			25,673.02
7625-00-0000-23630	RELIANCE STANDARD LIFE INS CC	PR Batch 00002.02.2026 Optional Life		02/27/2026	0	47.00
7625-00-0000-23630	RELIANCE STANDARD LIFE INS CC	PR Batch 00001.02.2026 Optional Life		02/13/2026	0	47.00
			Vendor Subtotal:			94.00
7625-40-7625-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March		03/31/2026	0	22.39
			Vendor Subtotal:			22.39
7625-40-7625-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24		03/31/2026	0	18.51
7625-40-7625-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March		03/31/2026	0	36.50
			Vendor Subtotal:			55.01
7625-40-7625-52400	ARNOLD MOTOR SUPPLY	Gloves		03/27/2026	0	45.98
7625-40-7625-52400	ARNOLD MOTOR SUPPLY	Gloves		03/30/2026	0	22.99
			Vendor Subtotal:			68.97
7625-40-7625-52720	HARMS OIL COMPANY	Gas for Tank #2		03/31/2026	0	23,327.82 00033252
			Vendor Subtotal:			23,327.82
7625-40-7625-52730	BLICK & BLICK OIL INC	Diesel for Tank #1		03/27/2026	0	23,659.92 00033160
7625-40-7625-52730	BLICK & BLICK OIL INC	Diesel for Tank #1		03/27/2026	0	44.64
			Vendor Subtotal:			23,704.56
7625-40-7625-53210	ARNOLD MOTOR SUPPLY	Filters		03/27/2026	0	18.42
7625-40-7625-53210	ARNOLD MOTOR SUPPLY	Filters		03/30/2026	0	87.23
7625-40-7625-53210	ARNOLD MOTOR SUPPLY	Filter		03/30/2026	0	57.46
7625-40-7625-53210	ARNOLD MOTOR SUPPLY	Connector		03/30/2026	0	44.37
7625-40-7625-53210	ARNOLD MOTOR SUPPLY	Filters for Stock		03/30/2026	0	188.18 00033161

7625-40-7625-53210	ARNOLD MOTOR SUPPLY	Connectors	03/30/2026	0	26.38
7625-40-7625-53210	ARNOLD MOTOR SUPPLY	Filter	03/30/2026	0	79.96
7625-40-7625-53210	ARNOLD MOTOR SUPPLY	Wiper Blades	03/30/2026	0	23.88
7625-40-7625-53210	ARNOLD MOTOR SUPPLY	Filter	03/30/2026	0	13.27
7625-40-7625-53210	ARNOLD MOTOR SUPPLY	Wiper Blades	03/30/2026	0	59.70
7625-40-7625-53210	ARNOLD MOTOR SUPPLY	Filters for Stock	03/31/2026	0	193.61 00033271
7625-40-7625-53210	ARNOLD MOTOR SUPPLY	Filter/Wipes	03/31/2026	0	20.60
7625-40-7625-53210	ARNOLD MOTOR SUPPLY	Gasket Oil Seal Kit	03/31/2026	0	12.86
		Vendor Subtotal:			825.92
7625-40-7625-53210	AMAZON.COM	Batteries	03/27/2026	0	36.76
		Vendor Subtotal:			36.76
7625-40-7625-53210	RDO TRUCK CENTERS	Brake Kleen	03/27/2026	0	71.52
		Vendor Subtotal:			71.52
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Return	03/27/2026	0	-107.13
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Glue	03/27/2026	0	9.90
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Filter/Wipers	03/27/2026	0	38.97
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Coupler	03/27/2026	0	13.59
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Grease Hose	03/27/2026	0	15.09
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Hose for 438	03/27/2026	0	138.29 00033165
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	FIlters	03/27/2026	0	107.13
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Fittings	03/30/2026	0	29.95
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Connectors	03/30/2026	0	4.19
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Belt #61	03/30/2026	0	22.00
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Dye #440	03/30/2026	0	44.08
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Mixing Cups	03/30/2026	0	3.84
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Core Return	03/30/2026	0	-140.00
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Core Return	03/30/2026	0	-140.00
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Return	03/30/2026	0	-20.71
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Belt 261	03/30/2026	0	29.97
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Rear Brake Calipers for #258	03/30/2026	0	304.50 00033121
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Rear Brake Calipers for #258	03/30/2026	0	44.01
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Acetolene Tank	03/30/2026	0	143.48 00033101
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Filters	03/31/2026	0	60.14
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Hoses	03/31/2026	0	96.92
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Ignition Coil	03/31/2026	0	39.26
7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Metric Kit/Gasket	03/31/2026	0	65.89

7625-40-7625-53220	ARNOLD MOTOR SUPPLY	Microfiber Towel		03/31/2026	0	27.68
			Vendor Subtotal:			831.04
7625-40-7625-53220	AUTOZONE	Starter for Unit 938		03/31/2026	0	252.83 00033140
7625-40-7625-53220	AUTOZONE	Credit on Account		03/31/2026	0	-12.54
			Vendor Subtotal:			240.29
7625-40-7625-53220	ELLIOTT EQUIPMENT COMPANY	Winch Hook		03/27/2026	0	84.72
7625-40-7625-53220	ELLIOTT EQUIPMENT COMPANY	Grippers for 440		03/31/2026	0	246.15 00033228
			Vendor Subtotal:			330.87
7625-40-7625-53220	HENDERSON PRODUCTS INC.	Skid Shoes for 129b		03/27/2026	0	309.94 00033187
7625-40-7625-53220	HENDERSON PRODUCTS INC.	Skid Shoes for 129b		03/27/2026	0	87.81
7625-40-7625-53220	HENDERSON PRODUCTS INC.	Shoes for Plow		03/30/2026	0	364.64 00033085
7625-40-7625-53220	HENDERSON PRODUCTS INC.	Shoes for Plow		03/30/2026	0	30.48
			Vendor Subtotal:			792.87
7625-40-7625-53220	NORTH CENTRAL INTERNATIONAL	Bus Part for #264		03/27/2026	0	274.19 00033132
7625-40-7625-53220	NORTH CENTRAL INTERNATIONAL	Shipping		03/27/2026	0	14.94
7625-40-7625-53220	NORTH CENTRAL INTERNATIONAL	Door Switches for 263 and 264		03/31/2026	0	370.88 00033065
7625-40-7625-53220	NORTH CENTRAL INTERNATIONAL	Shipping		03/31/2026	0	25.88
			Vendor Subtotal:			685.89
7625-40-7625-53220	GTG PETERBILT - DAVENPORT	Exhaust Mount		03/27/2026	0	138.66 00033198
			Vendor Subtotal:			138.66
7625-40-7625-53220	REEVES BATTERY SALES	Battery for 811		03/27/2026	0	130.00 00033203
7625-40-7625-53220	REEVES BATTERY SALES	Battery for 70		03/27/2026	0	140.00 00033221
7625-40-7625-53220	REEVES BATTERY SALES	Battery for Unit 153		03/31/2026	0	280.00 00033145
7625-40-7625-53220	REEVES BATTERY SALES	Battery for 608		03/31/2026	0	130.00 00033270
			Vendor Subtotal:			680.00
7625-40-7625-53220	TRUCK COUNTRY OF IOWA	Shocks for Unit #106		03/31/2026	0	203.02 00033102

		Vendor Subtotal:			203.02	
7625-40-7625-53220	TRUCKS UNLIMITED INC	Hood Latch #153	03/31/2026	0	33.90	
		Vendor Subtotal:			33.90	
7625-40-7625-53220	SIGOURNEY TRACTOR & IMPLEME	Filter #40	03/31/2026	0	61.17	
		Vendor Subtotal:			61.17	
7625-40-7625-53220	EMAG MUSCATINE FD LLC	Passenger Side Mirror Unit #262	03/27/2026	0	499.20	00033104
7625-40-7625-53220	EMAG MUSCATINE FD LLC	Tune Up Kit for 260	03/27/2026	0	202.80	00033212
7625-40-7625-53220	EMAG MUSCATINE FD LLC	Return	03/27/2026	0	-187.75	
7625-40-7625-53220	EMAG MUSCATINE FD LLC	Return	03/27/2026	0	-527.35	
7625-40-7625-53220	EMAG MUSCATINE FD LLC	Lever/Plunger/Tube/Pin #257	03/27/2026	0	187.75	
7625-40-7625-53220	EMAG MUSCATINE FD LLC	Rebuild Steering Shaft 257	03/27/2026	0	527.35	00033201
7625-40-7625-53220	EMAG MUSCATINE FD LLC	Rebuild Steering Shaft 257	03/27/2026	0	527.35	
7625-40-7625-53220	EMAG MUSCATINE FD LLC	Alternator for 261	03/31/2026	0	848.00	00033049
		Vendor Subtotal:			2,077.35	
7625-40-7625-53220	EMAG MUSCATINE CBG LLC	Pump	03/27/2026	0	24.68	
		Vendor Subtotal:			24.68	
7625-40-7625-53220	ZARNOTH BRUSH WORKS INC	3 Sets of Gutter Brushes	03/31/2026	0	531.00	00032904
		Vendor Subtotal:			531.00	
7625-40-7625-62530	ACUREN	Crane, Lift Inspections	03/31/2026	0	650.00	00032736
7625-40-7625-62530	ACUREN	Crane, Lift Inspections	03/31/2026	0	40.00	
		Vendor Subtotal:			690.00	
7625-40-7625-67130	COURTESY FORD	Check	03/31/2026	0	195.30	
		Vendor Subtotal:			195.30	

7625-40-7625-67130	MIDTOWN TOWING & REPAIR LLC	Tow #106		03/27/2026	0	300.00
			Vendor Subtotal:			300.00
7625-40-7625-67130	SAFETY-KLEEN, INC	Paint Gun Cleaner		03/31/2026	0	261.10
			Vendor Subtotal:			261.10
7625-40-7625-67130	TRUCKS UNLIMITED INC	Repair Brakes #439		03/31/2026	0	1,471.37
7625-40-7625-67130	TRUCKS UNLIMITED INC	Brake Repair #RC14		03/31/2026	0	3,078.84
7625-40-7625-67130	TRUCKS UNLIMITED INC	Diagnose and Repair DEF Lights on 106		03/31/2026	0	2,038.06 00033253
			Vendor Subtotal:			6,588.27
7625-40-7625-67140	A-1 QUALITY TIRE & CAR CARE	Tire Repair #759		03/27/2026	0	25.95
7625-40-7625-67140	A-1 QUALITY TIRE & CAR CARE	Tire Repair #402		03/27/2026	0	88.50
7625-40-7625-67140	A-1 QUALITY TIRE & CAR CARE	Repairs for RC14, 400		03/31/2026	0	131.00 00033219
7625-40-7625-67140	A-1 QUALITY TIRE & CAR CARE	Tires for 402		03/31/2026	0	370.00 00033193
7625-40-7625-67140	A-1 QUALITY TIRE & CAR CARE	Tire Repairs #759		03/31/2026	0	71.32
7625-40-7625-67140	A-1 QUALITY TIRE & CAR CARE	Tire Repairs RC13		03/31/2026	0	145.50
7625-40-7625-67140	A-1 QUALITY TIRE & CAR CARE	Tire Repairs RC13		03/31/2026	0	85.00
7625-40-7625-67140	A-1 QUALITY TIRE & CAR CARE	Tire Repairs #440		03/31/2026	0	115.95
7625-40-7625-67140	A-1 QUALITY TIRE & CAR CARE	Tire Repair		03/31/2026	0	105.95
7625-40-7625-67140	A-1 QUALITY TIRE & CAR CARE	Mount Tires #718		03/31/2026	0	85.68
			Vendor Subtotal:			1,224.85
			Subtotal for FUND: 7625			64,097.21
7650-00-7650-61120	TANNER CONSULTING	509A Actuarial Report for 2025		03/31/2026	0	1,035.00 00033196
			Vendor Subtotal:			1,035.00
			Subtotal for FUND: 7650			1,035.00
7921-00-7921-69900	RELIANCE STANDARD LIFE INS CC	Refund Hutmacher		03/31/2026	0	-94.00
7921-00-7921-69900	RELIANCE STANDARD LIFE INS CC	Refund Romagnoli		03/31/2026	0	-24.60
7921-00-7921-69900	RELIANCE STANDARD LIFE INS CC	Refund Lanfier		03/31/2026	0	-10.80

		Vendor Subtotal:			-129.40
7921-00-7921-69900	SUNSET PARK	Former Tenant A/R Received C Dyer	03/31/2026	0	225.00
7921-00-7921-69900	SUNSET PARK	Former Tenant A/R Received	03/31/2026	0	12,577.15
		Vendor Subtotal:			12,802.15
7921-00-7921-69900	CLINTON PUBLIC LIBRARY	Reimb Escaping Peril	03/31/2026	0	22.00
		Vendor Subtotal:			22.00
7921-00-7921-69900	SECTION 8 PROGRAM CITY OF MUS	Set Off Collections - B Santiago	03/31/2026	0	1,130.00
7921-00-7921-69900	SECTION 8 PROGRAM CITY OF MUS	Set Off Collections - S Lerma	03/31/2026	0	136.75
		Vendor Subtotal:			1,266.75
7921-00-7921-69900	DAVENPORT PUBLIC LIBRARY	Reimb - The Nature of LIfe and Death	03/31/2026	0	27.00
		Vendor Subtotal:			27.00
		Subtotal for FUND: 7921			13,988.50
7940-00-7940-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	24.15
7940-00-7940-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	7.69
7940-00-7940-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	17.90
7940-00-7940-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	15.49
		Vendor Subtotal:			65.23
7940-00-7940-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March	03/31/2026	0	8.62
7940-00-7940-46600	RELIANCE STANDARD LIFE INS CC	BW LTD March	03/31/2026	0	8.62
7940-00-7940-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	32.32
7940-00-7940-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	32.09
7940-00-7940-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	20.76
		Vendor Subtotal:			102.41
7940-00-7940-65100	QUAD CITY TIMES & MUSC JOURN	Housing Plan	03/31/2026	0	25.99

		Vendor Subtotal:			25.99
7940-00-7940-65210	MUSCATINE POWER & WATER	March Base PRI	03/31/2026	0	70.50
		Vendor Subtotal:			70.50
7940-00-7940-65240	MUSCATINE POWER & WATER	Feb - Mar Machlink	03/31/2026	0	123.98
		Vendor Subtotal:			123.98
		Subtotal for FUND: 7940			388.11
8146-10-8146-61660	MARTIN GARDNER ARCHITECTUR	Muscatine Downtown Historic Revitaliza	03/31/2026	0	5,778.50
		Vendor Subtotal:			5,778.50
		Subtotal for FUND: 8146			5,778.50
8148-10-8148-46200	RELIANCE STANDARD LIFE INS CC	Life Ins March	03/31/2026	0	16.84
		Vendor Subtotal:			16.84
8148-10-8148-46600	RELIANCE STANDARD LIFE INS CC	LTD March 24	03/31/2026	0	26.92
		Vendor Subtotal:			26.92
8148-10-8148-65260	VERIZON WIRELESS	February Cell Phones	03/31/2026	0	80.02
8148-10-8148-65260	VERIZON WIRELESS	March Cell Phones	03/31/2026	0	80.02
		Vendor Subtotal:			160.04
8148-10-8148-68300	KYLIE ALLEN	Lead Project Stipend	03/31/2026	0	1,250.00
		Vendor Subtotal:			1,250.00
		Subtotal for FUND: 8148			1,453.80

8149-10-8149-68300	MUSCATINE CENTER SOCIAL ACT	February 2026 Charges	03/31/2026	0	6,599.63
		Vendor Subtotal:			6,599.63
		Subtotal for FUND: 8149			6,599.63
8370-00-8370-73900	BRIGHTLY SOFTWARE, INC	Assest Essentials Core Implementation	03/31/2026	0	11,942.45
		Vendor Subtotal:			11,942.45
		Subtotal for FUND: 8370			11,942.45
9002-90-9020-41100	CITY OF MUSCATINE HOUSING RE	Admin Full-Time Wages 3/27/26	03/31/2026	0	3,805.90
9002-90-9020-41100	CITY OF MUSCATINE HOUSING RE	Admin Longevity 3/27/26	03/31/2026	0	5.20
9002-90-9020-41100	CITY OF MUSCATINE HOUSING RE	Admin Longevity 3/13/26	03/31/2026	0	5.20
9002-90-9020-41100	CITY OF MUSCATINE HOUSING RE	Admin Full-Time Wages 3/13/26	03/31/2026	0	4,182.66
		Vendor Subtotal:			7,998.96
9002-90-9020-41500	CITY OF MUSCATINE HOUSING RE	Auto Allowance	03/31/2026	0	37.50
		Vendor Subtotal:			37.50
9002-90-9020-41902	CITY OF MUSCATINE HOUSING RE	Xerox Feb Copies	03/31/2026	0	10.73
		Vendor Subtotal:			10.73
9002-90-9020-41904	CITY OF MUSCATINE HOUSING RE	Phone Allowance	03/31/2026	0	4.50
9002-90-9020-41904	CITY OF MUSCATINE HOUSING RE	MPW Feb Base PRI	03/31/2026	0	13.40
		Vendor Subtotal:			17.90
9002-90-9020-41904	US CELLULAR	March Cell Phones	03/31/2026	0	71.84
		Vendor Subtotal:			71.84
9002-90-9020-41910	CROSSROADS INC.	Shredding	03/31/2026	0	11.33

		Vendor Subtotal:				11.33
9002-90-9020-41914	CITY OF MUSCATINE HOUSING RE	MPW - Jan - Feb Machlink	03/31/2026	0	23.55	
		Vendor Subtotal:				23.55
9002-90-9020-44100	CITY OF MUSCATINE HOUSING RE	Maint Longevity 3/27/26	03/31/2026	0	14.30	
9002-90-9020-44100	CITY OF MUSCATINE HOUSING RE	Maint Full-Time Wages 3/27/26	03/31/2026	0	3,060.61	
9002-90-9020-44100	CITY OF MUSCATINE HOUSING RE	Maint Part-Time Wages 3/27/26	03/31/2026	0	1,653.60	
9002-90-9020-44100	CITY OF MUSCATINE HOUSING RE	Maint Part-Time Wages 3/13/26	03/31/2026	0	1,297.44	
9002-90-9020-44100	CITY OF MUSCATINE HOUSING RE	Maint Longevity 3/13/26	03/31/2026	0	14.30	
9002-90-9020-44100	CITY OF MUSCATINE HOUSING RE	Maint Full-Time Wages 3/13/26	03/31/2026	0	3,060.61	
		Vendor Subtotal:				9,100.86
9002-90-9020-44201	MENARDS (MUSC)	Mop Head/Scour Pad	03/30/2026	0	86.55	
		Vendor Subtotal:				86.55
9002-90-9020-44202	CITY OF MUSCATINE HOUSING RE	February Fuel	03/31/2026	0	56.62	
		Vendor Subtotal:				56.62
9002-90-9020-44204	MICHAEL W SCHULTE	Glass Replacement	03/31/2026	0	442.88	
		Vendor Subtotal:				442.88
9002-90-9020-44204	MENARDS (MUSC)	Foil Duct/Elbow/Plastic Clamp	03/30/2026	0	40.46	
		Vendor Subtotal:				40.46
9002-90-9020-44204	AMAZON.COM	CH Door Handle Replacements: Grade 2	03/27/2026	0	464.95	00033078
		Vendor Subtotal:				464.95
9002-90-9020-44205	HD SUPPLY FACILITIES MAINT	Replacement Lens	03/31/2026	0	81.78	

			Vendor Subtotal:			81.78
9002-90-9020-44205	VAN METER INDUSTRIAL INC	Lighting		03/27/2026	0	99.92
			Vendor Subtotal:			99.92
9002-90-9020-44206	PLUMB SUPPLY COMPANY	Sink		03/31/2026	0	87.23
			Vendor Subtotal:			87.23
9002-90-9020-44206	AMAZON.COM	Return		03/31/2026	0	-69.68
9002-90-9020-44206	AMAZON.COM	Sink Replacement		03/30/2026	0	69.68
			Vendor Subtotal:			0.00
9002-90-9020-44207	MENARDS (MUSC)	Orange Peal Spray		03/27/2026	0	95.00
9002-90-9020-44207	MENARDS (MUSC)	Drop Cloth/Paint		03/27/2026	0	76.79
			Vendor Subtotal:			171.79
9002-90-9020-44215	MENARDS (MUSC)	PVC Panel/Power Grab		03/30/2026	0	56.92
			Vendor Subtotal:			56.92
9002-90-9020-44301	CITY OF MUSCATINE	CH Refuse April		04/02/2026	0	182.32
			Vendor Subtotal:			182.32
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	DOS 3-26-26 CH 600 & 304		03/31/2026	0	200.00 00033214
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	DOS 3-26-26 CH 1105, 1100 & 706		03/31/2026	0	300.00 00033214
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	Pest Control #1001		03/31/2026	0	20.00
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	Pest Control #802		03/31/2026	0	20.00
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	DOS 3-12-26 CH 304		03/31/2026	0	100.00
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	Pest Control #1001		03/31/2026	0	20.00 00033094
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	DOS 3-12-26 CH 706, 600 & 405		03/31/2026	0	300.00 00033094
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	DOS 3-12-26 CH 1107, 1105 & 1100		03/31/2026	0	300.00 00033094
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	Pest Control #802		03/31/2026	0	20.00
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	Pest Control #900		03/31/2026	0	20.00
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	DOS 3-19-26 CH 704 & 204		03/27/2026	0	200.00 00033150

9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	Pest Control #404	03/27/2026	0	20.00	
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	DOS 3-19-26 CH 805 Initial	03/27/2026	0	430.00	00033150
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	DOS 3-19-26 CH 805 Initial	03/27/2026	0	48.00	
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	Pest Control #508	03/27/2026	0	20.00	
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	Pest Control #511	03/27/2026	0	20.00	
9002-90-9020-44303	THOMAS L SPANN JR & SONYA CO	DOS 3-19-26 CH 1103, 804 & 705	03/27/2026	0	300.00	00033150
		Vendor Subtotal:			2,338.00	
9002-90-9020-44305	JOHNSON CONTROLS SECURITY S(	4/1/26 - 6/30/26 Alarms	04/02/2026	0	5,627.27	
		Vendor Subtotal:			5,627.27	
9002-90-9020-44306	CITY OF MUSCATINE HOUSING RE	Verizon - Feb GPS	03/31/2026	0	17.45	
		Vendor Subtotal:			17.45	
9002-90-9020-44309	KELLY HEATING COOLING & PLBC	Emergency Repairs	03/31/2026	0	450.00	
9002-90-9020-44309	KELLY HEATING COOLING & PLBC	CH Heating Boiler Repair Parts: Lochin	03/31/2026	0	1,307.67	00032801
9002-90-9020-44309	KELLY HEATING COOLING & PLBC	CH Heating Boiler Repair Parts: Lochin	03/31/2026	0	637.00	00032801
9002-90-9020-44309	KELLY HEATING COOLING & PLBC	CH Heating Boiler Repair Parts: Lochin	03/31/2026	0	1,028.00	00032801
		Vendor Subtotal:			3,422.67	
9002-90-9020-44311	KELLY HEATING COOLING & PLBC	Emergency Repairs	03/31/2026	0	338.54	
		Vendor Subtotal:			338.54	
9002-90-9020-44315	SAMUEL ANDERSON	CH 706 Paint Walls: Natural Linen(main	03/27/2026	0	500.00	00032252
		Vendor Subtotal:			500.00	
9002-90-9020-44317	TRI-STATE AUTOMATIC SPRINKLE	CH Sprinkler Repairs: 1. Replace the Ho	03/27/2026	0	6,775.00	00032404
		Vendor Subtotal:			6,775.00	
9002-90-9020-44318	WEIKERT APPLIANCE SALES & SEI	Repair Washer	03/31/2026	0	84.11	
		Vendor Subtotal:			84.11	

9002-90-9020-45103	CITY OF MUSCATINE HOUSING RE Unemployemnt 3/27/26		03/31/2026	0	18.94
9002-90-9020-45103	CITY OF MUSCATINE HOUSING RE Unemployment 3/13/26		03/31/2026	0	23.41
		Vendor Subtotal:			42.35
9002-90-9020-45401	CITY OF MUSCATINE HOUSING RE FICA 3/27/26		03/31/2026	0	616.60
9002-90-9020-45401	CITY OF MUSCATINE HOUSING RE FICA 3/13/26		03/31/2026	0	646.27
		Vendor Subtotal:			1,262.87
9002-90-9020-45402	CITY OF MUSCATINE HOUSING RE IPERS 3/27/26		03/31/2026	0	806.12
9002-90-9020-45402	CITY OF MUSCATINE HOUSING RE IPERS 3/13/26		03/31/2026	0	808.06
		Vendor Subtotal:			1,614.18
9002-90-9020-45403	CITY OF MUSCATINE HOUSING RE Health Insurance 3/27/26		03/31/2026	0	3,818.36
		Vendor Subtotal:			3,818.36
9002-90-9020-45404	CITY OF MUSCATINE HOUSING RE Life Insurance 3/27/26		03/31/2026	0	24.15
		Vendor Subtotal:			24.15
9002-90-9020-45405	CITY OF MUSCATINE HOUSING RE Dental Insurance 3/27/26		03/31/2026	0	81.11
		Vendor Subtotal:			81.11
9002-90-9020-45406	CITY OF MUSCATINE HOUSING RE LTD Insurance 3/27/26		03/31/2026	0	32.09
9002-90-9020-45406	CITY OF MUSCATINE HOUSING RE LTD BW Insurance 3/27/26		03/31/2026	0	8.62
		Vendor Subtotal:			40.71
9002-90-9020-75400	BURNS & SON'S DIRECT APPLIANC CH 509 Refrigerator: Model # FFHT182		03/31/2026	0	579.99 00032969
		Vendor Subtotal:			579.99
		Subtotal for FUND: 9002			45,610.85

9006-90-9060-41100	CITY OF MUSCATINE HOUSING RE	Admin Longevity 3/13/26	03/31/2026	0	2.60
9006-90-9060-41100	CITY OF MUSCATINE HOUSING RE	Admin Full-Time Wages 3/13/26	03/31/2026	0	1,952.68
9006-90-9060-41100	CITY OF MUSCATINE HOUSING RE	Admin Full-Time Wages 3/27/26	03/31/2026	0	2,132.16
9006-90-9060-41100	CITY OF MUSCATINE HOUSING RE	Admin Longevity 3/27/26	03/31/2026	0	2.60
		Vendor Subtotal:			4,090.04
9006-90-9060-41500	CITY OF MUSCATINE HOUSING RE	Auto Allowance	03/31/2026	0	25.00
		Vendor Subtotal:			25.00
9006-90-9060-41904	CITY OF MUSCATINE HOUSING RE	MPW Feb Base PRI	03/31/2026	0	6.35
9006-90-9060-41904	CITY OF MUSCATINE HOUSING RE	Phone Allowance	03/31/2026	0	3.00
		Vendor Subtotal:			9.35
9006-90-9060-41904	US CELLULAR	March Cell Phones	03/31/2026	0	35.39
		Vendor Subtotal:			35.39
9006-90-9060-41910	CROSSROADS INC.	Shredding	03/31/2026	0	11.33
		Vendor Subtotal:			11.33
9006-90-9060-41914	CITY OF MUSCATINE HOUSING RE	MPW - Jan - Feb Machlink	03/31/2026	0	11.16
		Vendor Subtotal:			11.16
9006-90-9060-43100	MUSCATINE POWER & WATER	February Water - 2812 Apt E	03/31/2026	0	20.87
9006-90-9060-43100	MUSCATINE POWER & WATER	February Water - 2904 Apt A	03/31/2026	0	16.33
9006-90-9060-43100	MUSCATINE POWER & WATER	February Water - 2806 Apt F	03/31/2026	0	25.62
9006-90-9060-43100	MUSCATINE POWER & WATER	February Water - 2708 Apt D	03/31/2026	0	16.40
		Vendor Subtotal:			79.22
9006-90-9060-43200	MUSCATINE POWER & WATER	February Electric - 2812 Apt E	03/31/2026	0	34.76
9006-90-9060-43200	MUSCATINE POWER & WATER	February Electric - 2904 Apt A	03/31/2026	0	38.66
9006-90-9060-43200	MUSCATINE POWER & WATER	February Electric - 2806 Apt F	03/31/2026	0	247.34
9006-90-9060-43200	MUSCATINE POWER & WATER	February Electric - 2708 Apt D	03/31/2026	0	28.37

		Vendor Subtotal:			349.13
9006-90-9060-43700	ALLIANT ENERGY	February Gas - 2904 Apt A	03/27/2026	0	55.63
9006-90-9060-43700	ALLIANT ENERGY	February Gas - 2708 Apt D	03/27/2026	0	51.47
9006-90-9060-43700	ALLIANT ENERGY	February Gas - 2812 Apt E	03/31/2026	0	119.14
		Vendor Subtotal:			226.24
9006-90-9060-43900	MUSCATINE POWER & WATER	February Sewer - 2812 Apt E	03/31/2026	0	41.88
9006-90-9060-43900	MUSCATINE POWER & WATER	February Sewer - 2904 Apt A	03/31/2026	0	29.90
9006-90-9060-43900	MUSCATINE POWER & WATER	February Sewer - 2806 Apt F	03/31/2026	0	35.89
9006-90-9060-43900	MUSCATINE POWER & WATER	February Sewer - 2708 Apt D	03/31/2026	0	35.89
		Vendor Subtotal:			143.56
9006-90-9060-44100	CITY OF MUSCATINE HOUSING RE	Maint Part-Time Wages 3/13/26	03/31/2026	0	1,653.60
9006-90-9060-44100	CITY OF MUSCATINE HOUSING RE	Maint Longevity 3/13/26	03/31/2026	0	21.45
9006-90-9060-44100	CITY OF MUSCATINE HOUSING RE	Maint Full-Time Wages 3/13/26	03/31/2026	0	2,430.60
9006-90-9060-44100	CITY OF MUSCATINE HOUSING RE	Maint Full-Time Wages 3/27/26	03/31/2026	0	2,430.59
9006-90-9060-44100	CITY OF MUSCATINE HOUSING RE	Maint Part-Time Wages 3/27/26	03/31/2026	0	1,272.00
9006-90-9060-44100	CITY OF MUSCATINE HOUSING RE	Maint Longevity 3/27/26	03/31/2026	0	21.45
		Vendor Subtotal:			7,829.69
9006-90-9060-44202	CITY OF MUSCATINE HOUSING RE	February Fuel	03/31/2026	0	27.89
		Vendor Subtotal:			27.89
9006-90-9060-44204	MICHAEL W SCHULTE	Screen Repair	03/31/2026	0	84.40
		Vendor Subtotal:			84.40
9006-90-9060-44204	MENARDS (MUSC)	Popcorn Texture	03/27/2026	0	97.02
		Vendor Subtotal:			97.02
9006-90-9060-44206	PLUMB SUPPLY COMPANY	SS 2904A Toilet: Model: GEGVP31512 (	03/27/2026	0	236.25 00033122

		Vendor Subtotal:			236.25	
9006-90-9060-44206	AMAZON.COM	Fixtures	03/31/2026	0	65.37	
9006-90-9060-44206	AMAZON.COM	Reverisble Sleeve/Balancing Cartridge	03/31/2026	0	82.43	
		Vendor Subtotal:			147.80	
9006-90-9060-44208	AMAZON.COM	SS 2700 B Bath Fan Motor Replacement	03/27/2026	0	167.88	00033063
9006-90-9060-44208	AMAZON.COM	SSP Spare Bath Fan Motor Replacement	03/27/2026	0	167.88	00033063
9006-90-9060-44208	AMAZON.COM	SS Bath Fan Motor Replacements:Broan	03/27/2026	0	402.87	00033095
9006-90-9060-44208	AMAZON.COM	Return	03/27/2026	0	-503.64	
9006-90-9060-44208	AMAZON.COM	SS 2812D Bath Fan Motor Replacement	03/27/2026	0	167.88	00033063
		Vendor Subtotal:			402.87	
9006-90-9060-44215	MENARDS (MUSC)	PVC Panel	03/30/2026	0	67.90	
		Vendor Subtotal:			67.90	
9006-90-9060-44218	HD SUPPLY FACILITIES MAINT	Surface Element	03/31/2026	0	79.96	
		Vendor Subtotal:			79.96	
9006-90-9060-44218	PDQ SUPPLY INC	Fridge Gasket	03/31/2026	0	76.47	
		Vendor Subtotal:			76.47	
9006-90-9060-44301	CITY OF MUSCATINE	SS Refuse April	04/02/2026	0	320.00	
		Vendor Subtotal:			320.00	
9006-90-9060-44303	THOMAS L SPANN JR & SONYA CO	Pest Control #2700D	03/27/2026	0	20.00	
9006-90-9060-44303	THOMAS L SPANN JR & SONYA CO	Pest Control #2900A	03/27/2026	0	20.00	
9006-90-9060-44303	THOMAS L SPANN JR & SONYA CO	DOS 3-12-26 2908C BB 2nd Follow Up	03/31/2026	0	100.00	00033094
9006-90-9060-44303	THOMAS L SPANN JR & SONYA CO	DOS 3-26-26 2908C 2nd Follow Up	03/31/2026	0	100.00	00033214
		Vendor Subtotal:			240.00	

9006-90-9060-44306	CITY OF MUSCATINE HOUSING RE	Verizon - Feb GPS		03/31/2026	0	17.45
			Vendor Subtotal:			17.45
9006-90-9060-44308	KELLY HEATING COOLING & PLBC	2812 E Repair		03/31/2026	0	90.00
			Vendor Subtotal:			90.00
9006-90-9060-44315	SAMUEL ANDERSON	SS 2904A Paint Walls Rehab: Color: Nat		03/31/2026	0	700.00 00032913
			Vendor Subtotal:			700.00
9006-90-9060-45103	CITY OF MUSCATINE HOUSING RE	Unemployment 3/13/26		03/31/2026	0	16.62
9006-90-9060-45103	CITY OF MUSCATINE HOUSING RE	Unemployment 3/27/26		03/31/2026	0	13.44
			Vendor Subtotal:			30.06
9006-90-9060-45401	CITY OF MUSCATINE HOUSING RE	FICA 3/13/26		03/31/2026	0	457.03
9006-90-9060-45401	CITY OF MUSCATINE HOUSING RE	FICA 3/27/26		03/31/2026	0	419.50
			Vendor Subtotal:			876.53
9006-90-9060-45402	CITY OF MUSCATINE HOUSING RE	IPERS 3/13/26		03/31/2026	0	572.17
9006-90-9060-45402	CITY OF MUSCATINE HOUSING RE	IPERS 3/27/26		03/31/2026	0	553.10
			Vendor Subtotal:			1,125.27
9006-90-9060-45403	CITY OF MUSCATINE HOUSING RE	Health Insurance 3/27/26		03/31/2026	0	3,444.06
			Vendor Subtotal:			3,444.06
9006-90-9060-45404	CITY OF MUSCATINE HOUSING RE	Life Insurance 3/27/26		03/31/2026	0	15.49
			Vendor Subtotal:			15.49
9006-90-9060-45405	CITY OF MUSCATINE HOUSING RE	Dental Insurance 3/27/26		03/31/2026	0	54.62
			Vendor Subtotal:			54.62

9006-90-9060-45406	CITY OF MUSCATINE HOUSING RE	LTD Insurance 3/27/26	03/31/2026	0	20.76	
9006-90-9060-45406	CITY OF MUSCATINE HOUSING RE	LTD BW Insurance 3/27/26	03/31/2026	0	8.62	
		Vendor Subtotal:			29.38	
9006-90-9060-75200	MENARDS (MUSC)	SS 2812C Range Replacement Model# A	03/31/2026	0	429.00	00033035
		Vendor Subtotal:			429.00	
9006-90-9060-75400	BURNS & SON'S DIRECT APPLIANC	SS 2708C Refrigerator Replacement: Mo	03/31/2026	0	579.99	00032968
		Vendor Subtotal:			579.99	
		Subtotal for FUND: 9006			21,982.52	
9007-00-0000-23530	JACK HARRIS	FSS Payment for Used Car	03/31/2026	0	1,500.00	
		Vendor Subtotal:			1,500.00	
9007-00-0000-23530	JASHIRA LOPEZ	FSS Escrow Graduation Withdrawl	03/31/2026	0	16,170.43	
		Vendor Subtotal:			16,170.43	
9007-90-9070-33001	JASHIRA LOPEZ	Escrow Interest	03/31/2026	0	56.44	
		Vendor Subtotal:			56.44	
9007-90-9070-41100	CITY OF MUSCATINE HOUSING RE	Admin Full-Time Wages 3/13/26	03/31/2026	0	5,567.72	
9007-90-9070-41100	CITY OF MUSCATINE HOUSING RE	Admin Longevity 3/13/26	03/31/2026	0	9.10	
9007-90-9070-41100	CITY OF MUSCATINE HOUSING RE	Admin Longevity 3/27/26	03/31/2026	0	9.10	
9007-90-9070-41100	CITY OF MUSCATINE HOUSING RE	Admin Full-Time Wages 3/27/26	03/31/2026	0	5,654.04	
		Vendor Subtotal:			11,239.96	
9007-90-9070-41500	CITY OF MUSCATINE HOUSING RE	Auto Allowance	03/31/2026	0	12.50	
		Vendor Subtotal:			12.50	

9007-90-9070-41500	JODI ROYAL-GOODWIN	Reimb Travel 3/7/26 - 3/11/26	03/31/2026	0	1,872.23
		Vendor Subtotal:			1,872.23
9007-90-9070-41901	AMAZON.COM	Batteries/Correction Tape	03/31/2026	0	34.44
		Vendor Subtotal:			34.44
9007-90-9070-41902	LUPTON & TOYNE PRINTERS	Envelopes	03/31/2026	0	94.00
		Vendor Subtotal:			94.00
9007-90-9070-41904	CITY OF MUSCATINE HOUSING RE	MPW Feb Base PRI	03/31/2026	0	50.79
9007-90-9070-41904	CITY OF MUSCATINE HOUSING RE	Phone Allowance	03/31/2026	0	1.50
		Vendor Subtotal:			52.29
9007-90-9070-41904	MUSCATINE POWER & WATER	March Phones	03/31/2026	0	22.39
		Vendor Subtotal:			22.39
9007-90-9070-41905	CITY OF MUSCATINE HOUSING RE	February Postage	03/31/2026	0	221.14
		Vendor Subtotal:			221.14
9007-90-9070-41910	CROSSROADS INC.	Shredding	03/31/2026	0	22.66
		Vendor Subtotal:			22.66
9007-90-9070-41914	CITY OF MUSCATINE HOUSING RE	MPW - Jan - Feb Machlink	03/31/2026	0	89.27
		Vendor Subtotal:			89.27
9007-90-9070-45103	CITY OF MUSCATINE HOUSING RE	Unemployment 3/13/26	03/31/2026	0	15.96
9007-90-9070-45103	CITY OF MUSCATINE HOUSING RE	Unemployment 3/27/26	03/31/2026	0	15.45
		Vendor Subtotal:			31.41

9007-90-9070-45401	CITY OF MUSCATINE HOUSING RE	FICA 3/13/26	03/31/2026	0	411.66
9007-90-9070-45401	CITY OF MUSCATINE HOUSING RE	FICA 3/27/26	03/31/2026	0	392.31
		Vendor Subtotal:			803.97
9007-90-9070-45402	CITY OF MUSCATINE HOUSING RE	IPERS 3/13/26	03/31/2026	0	526.49
9007-90-9070-45402	CITY OF MUSCATINE HOUSING RE	IPERS 3/27/26	03/31/2026	0	534.61
		Vendor Subtotal:			1,061.10
9007-90-9070-45403	CITY OF MUSCATINE HOUSING RE	Health Insurance 3/27/26	03/31/2026	0	4,069.52
		Vendor Subtotal:			4,069.52
9007-90-9070-45404	CITY OF MUSCATINE HOUSING RE	Life Insurance 3/27/26	03/31/2026	0	17.90
		Vendor Subtotal:			17.90
9007-90-9070-45405	CITY OF MUSCATINE HOUSING RE	Dental Insurance 3/27/26	03/31/2026	0	86.07
		Vendor Subtotal:			86.07
9007-90-9070-45406	CITY OF MUSCATINE HOUSING RE	LTD Insurance 3/27/26	03/31/2026	0	32.32
		Vendor Subtotal:			32.32
9007-90-9070-47150	JNB WELCH HOTEL LLC	New HAP S Brewer Full March	03/31/2026	0	570.00
		Vendor Subtotal:			570.00
9007-90-9070-47150	MICHAEL E LAKE	New HAP B Green Full March	03/31/2026	0	577.00
		Vendor Subtotal:			577.00
9007-90-9070-47150	ETHAN ANDERSON	Abatement Ends A Titus	03/31/2026	0	710.00
		Vendor Subtotal:			710.00

9007-90-9070-47150	HARRISON LOFTS LLC	New HAP J Jordan 16 of 31 Days March	03/31/2026	0	528.00
		Vendor Subtotal:			528.00
9007-90-9070-47150	MARISOL OLIVA-SANTANA	New HAP D Moore 5 of 31 Days March	03/31/2026	0	78.00
		Vendor Subtotal:			78.00
9007-90-9070-47150	MUSCATINE HOUSING SOLUTIONS	New HAP J Colon 9 of 31 Days March	03/31/2026	0	369.00
		Vendor Subtotal:			369.00
9007-90-9071-41100	CITY OF MUSCATINE HOUSING RE	Admin Full-Time Wages 3/13/26	03/31/2026	0	1,574.80
9007-90-9071-41100	CITY OF MUSCATINE HOUSING RE	Admin Longevity 3/13/26	03/31/2026	0	6.50
9007-90-9071-41100	CITY OF MUSCATINE HOUSING RE	Admin Longevity 3/27/26	03/31/2026	0	6.50
9007-90-9071-41100	CITY OF MUSCATINE HOUSING RE	Admin Full-Time Wages 3/27/26	03/31/2026	0	1,574.79
		Vendor Subtotal:			3,162.59
9007-90-9071-45103	CITY OF MUSCATINE HOUSING RE	Unemployment 3/13/26	03/31/2026	0	4.77
9007-90-9071-45103	CITY OF MUSCATINE HOUSING RE	Unemployment 3/27/26	03/31/2026	0	2.15
		Vendor Subtotal:			6.92
9007-90-9071-45401	CITY OF MUSCATINE HOUSING RE	FICA 3/13/26	03/31/2026	0	117.22
9007-90-9071-45401	CITY OF MUSCATINE HOUSING RE	FICA 3/27/26	03/31/2026	0	110.41
		Vendor Subtotal:			227.63
9007-90-9071-45402	CITY OF MUSCATINE HOUSING RE	IPERS 3/13/26	03/31/2026	0	149.25
9007-90-9071-45402	CITY OF MUSCATINE HOUSING RE	IPERS 3/27/26	03/31/2026	0	149.27
		Vendor Subtotal:			298.52
9007-90-9071-45403	CITY OF MUSCATINE HOUSING RE	Health Insurance 3/27/26	03/31/2026	0	1,063.77
		Vendor Subtotal:			1,063.77

9007-90-9071-45404	CITY OF MUSCATINE HOUSING RE Life Insurance 3/27/26	03/31/2026	0	7.69
	Vendor Subtotal:			7.69
9007-90-9071-45405	CITY OF MUSCATINE HOUSING RE Dental Insurance 3/27/26	03/31/2026	0	16.55
	Vendor Subtotal:			16.55
	Subtotal for FUND: 9007			45,105.71
	Report Total:			1,213,688.94

BILLS FOR APPROVAL SUMMARY
April 8, 2026

Computer Bill Lists			
Regular Bills 4/8/26		$	1,213,688.94
Special Ck Run 3/19/26	Operating		4,085.00
Special Ck Run 3/20/26	Operating		1,000.00
Special Ck Run 3/24/26	Operating		1,250.00
Payroll Vendor Checks 3/27/26			44,575.24
Payroll Vendor ACH Payments 3/27/26			99,817.75
	Subtotal	$	1,364,416.93
ACH Debit Memo Payments			
Wellmark Insurance	Health/Dental Insurance Mar	$	83,000.00
Wellmark Insurance	Health/Dental Insurance Mar		83,000.00
Wellmark Insurance	Health/Dental Insurance Mar		83,000.00
Payroll Account	Transfer		494.38
Payroll Account	Transfer		1,233.14
Payroll Account	Transfer		475,293.97
Treasurer State of Iowa	State Tax Withholding		21.34
Treasurer State of Iowa	State Tax Withholding		22,704.51
Treasurer State of Iowa	Sales Tax		28,533.91
Internal Revenue Service	Federal Withholding		91.68
Internal Revenue Service	Federal Withholding		123,104.26
Iowa Insurance Division	509A Filing Fee		101.59
	Subtotal	$	900,578.78
Voucher Program			
Various Landlords	Actual April Rent	$	(7,899.44)
		$	(7,899.44)
Voids			
Void Checks 3/19/26	Operating	$	(5,594.50)
Void Checks 3/20/26	Operating		(1,000.00)
Void Checks 3/24/26	Operating		(397.75)
Void Checks 3/24/26	Operating		(1,250.00)
	Subtotal	$	(8,242.25)
	Total Expenditures	$	2,248,854.02

3/27/2026	ACH PAYROLL	MISSION SQUARE ICMA RETIRE	11,929.29
3/27/2026	ACH PAYROLL	MISSION SQUARE ICMA RC	2,198.53
3/27/2026	ACH PAYROLL	MUNICIPAL FIRE & POLICE RETIRE	82,434.93
3/27/2026	ACH PAYROLL	NATIONWIDE	3,255.00
3/27/2026	PAYROLL CHECKS	AFA FLEX BILLING	4,190.21
3/27/2026	PAYROLL CHECKS	AFLAC	525.88
3/27/2026	PAYROLL CHECKS	ALLSTATE	14.94
3/27/2026	PAYROLL CHECKS	AMERICAN FIDELITY	3,457.67
3/27/2026	PAYROLL CHECKS	CITY OF MUSCATINE	33,886.79
3/27/2026	PAYROLL CHECKS	IDAHO CHILD SUPPORT	99.12
3/27/2026	PAYROLL CHECKS	POLK COUNTY	294.14
3/27/2026	PAYROLL CHECKS	STATE OF IL	198.40
3/27/2026	PAYROLL CHECKS	UNITED WAY	75.00
3/27/2026	PAYROLL CHECKS	VSP INSURANC	1,833.09
3/19/2026	SPECIAL CHECKS	ALADTEC	3,847.00
3/19/2026	SPECIAL CHECKS	MICHAEL SYMMONDS	100.00
3/19/2026	SPECIAL CHECKS	VAN DIEST	138.00
3/20/2026	SPECIAL CHECKS	UNITED RENTALS	1,000.00
3/24/2026	SPECIAL CHECKS	JACK HARRIS	1,250.00

City of Muscatine

ITEM NUMBER

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Andrew Fangman, Senior Planner

SUBJECT

Public hearing on proposed zoning changes, City of Muscatine, Iowa (2021 Houser St., northeast corner of Houser St. & Cedar Plaza Drive intersection)

EXECUTIVE SUMMARY

Corey and Tara Smith have submitted a request to rezone a 0.17-acre property located at the 2021 Houser Street (northeast corner of the Houser Street and Cedar Plaza Drive intersection), from R-5 Multi-Family Residence to C-1 Neighborhood and General Commercial. The applicants intend to develop a drive-through only coffee shop on this property.

STAFF RECOMMENDATION

N/A

BACKGROUND/DISCUSSION

Corey and Tara Smith have submitted a request to rezone a 0.17-acre property located at the 2021 Houser Street (northeast corner of the Houser Street and Cedar Plaza Drive intersection), from R-5 Multi-Family Residence to C-1 Neighborhood and General Commercial.

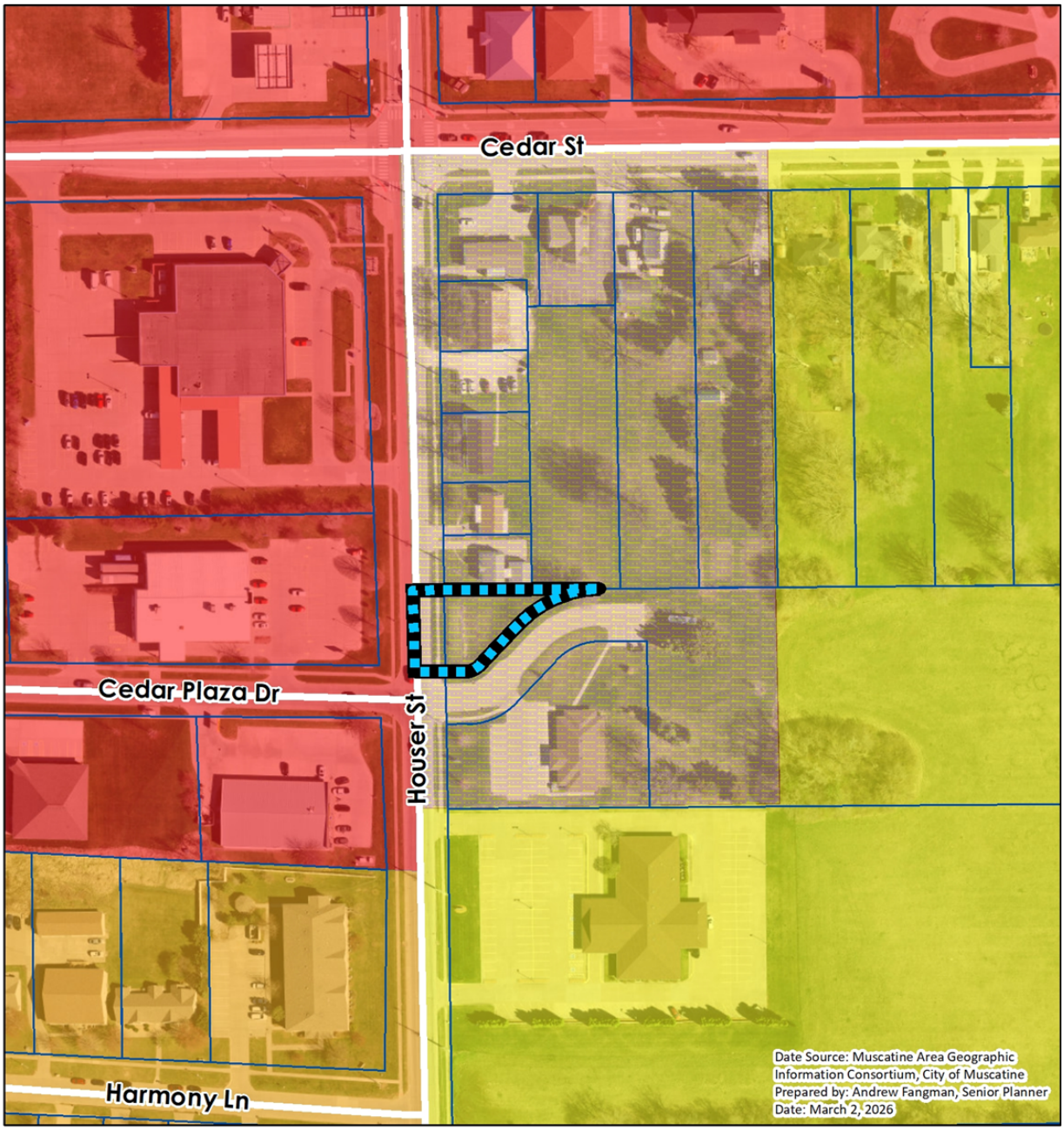
The applicants intend to develop a drive-through only coffee shop on this property. Access will be provided via the existing private drive adjoining the parcel, utilizing separate entry and exit points. Drive-through traffic will be one-way only: vehicles will enter from the east side from the private drive, proceed through the drive-through window, and exit on the westerly portion of the parcel back onto the private drive toward Houser Street. The exact layout and design of this will require review and approval by the City Engineer as part of the required site plan review process, which must occur prior to construction.

To accommodate the proposed development, the existing stormwater basin on this parcel will be reworked and potentially partially relocated onto an adjoining vacant parcel also owned by the applicant. The redesign of the stormwater management infrastructure must adequately serve both the proposed coffee shop and the existing dental office at 2011 Houser Street. Any such modifications must be approved by the City Engineer to ensure all requirements are met

The property is currently zoned R-5 Multi-Family Residence, which does not permit the development of a coffee shop. Therefore, rezoning to a district such as C-1, which allows clinics, is necessary for this project to proceed.

The Future Land Use Plan is a key component of the Comprehensive Plan adopted in late 2025. This plan serves as a tool to provide guidance when considering rezoning requests. Because the Plan designates the subject area as commercial, the requested rezoning is fully supported by the Comprehensive Plan.

Commercial development exists across Houser Street and to the south of the subject area, making the rezoning request consistent and compatible with the existing land use of the area. A six-foot-high privacy fence will be constructed along the north property line, beginning 25 feet behind the Houser Street sidewalk. Compared to the existing stormwater basin, this fence will provide superior screening between the adjoining residence to the north and the proposed commercial development. This new buffer will significantly improve the transition between commercial and residential uses along this stretch of Houser Street.



MUSCATINE

Rezoning - Houser & Cedar Plaza

Current Zonning Districts

- C-3 Planned Commercial
- R-3 Residential
- R-5 Residential
- RL Large Scale Residential
- S-3 Mixed Use

- Area Proposed to be Rezoned as C-1 Neighborhood & General Commercial
- Parcel Lines

0 150 300 600 Feet

N

CITY FINANCIAL IMPACT

None.

ATTACHMENTS

City of Muscatine

ITEM NUMBER

DATE: 4/7/2026

AGENDA ITEM SUMMARY

STAFF

Andrew Fangman, Senior Planner

SUBJECT

Public hearing regarding a voluntary annexation application and zoning request for approximately 153.5 acres of land located near the southwest corner of Mittman Road and the U.S. 61 Bypass, to be designated as an M-2 General Industrial Zoning District

EXECUTIVE SUMMARY

Blackhawk Capital Investments LLC has submitted a voluntary annexation application to the City of Muscatine for approximately 153.5 acres of land. Located near the southwest corner of Mittman Road and the U.S. 61 Bypass, the applicant seeks annexation to increase the property's marketability for future development. The land is currently zoned by Muscatine County as I-2 Heavy Industrial; the applicant is requesting an equivalent City designation, M-2 General Industrial, as part of the annexation process. A public hearing must be conducted before Council may act on this request.

STAFF RECOMMENDATION

BACKGROUND/DISCUSSION

Blackhawk Capital Investments LLC has submitted a voluntary annexation application to the City of Muscatine for approximately 153.5 acres of land. Located near the southwest corner of Mittman Road and the U.S. 61 Bypass, the applicant seeks annexation to increase the property's marketability for future development. The land is currently zoned by Muscatine County as I-2 Heavy Industrial; the applicant is requesting an equivalent City designation, M-2 General Industrial, as part of the annexation process.

The subject area currently consists exclusively of croplands. The farmhouse and the immediately surrounding 2.25 acres, located on the applicant's property at the southwest corner of the Mittman/U.S. 61 Bypass, are not included in this annexation request.

The subject area has a number of characteristics that make it an attractive site for development. It has excellent access, adjoining U.S. 61 with two established access points at

Mittman Road and Loves Way. The extremely flat topography of the subject area is an attractive feature for any possible future development.

The extension of water and sewer infrastructure necessitated by the development of the Loves Travel Stop at the U.S. 61/Grandview intersection was designed and built with a capacity that would allow for them to be extended to support the development of nearby areas, such as the area that is the subject of this voluntary annexation request. The ability to easily extend water and sewer services to the property significantly increases the attractiveness of this area for development.

The applicant desires to annex the subject area into the City to further increase its suitability and marketability for development. This is because access to City infrastructure, such as the sanitary sewer system and other City services, requires the property to be located within City limits. Annexation will allow the property to be marketed with these City amenities, which would make it significantly more developable.

Muscatine City Code dictates that annexed property is automatically placed in the Agriculture Zoning district, unless action is taken to assign a different district concurrently with the annexation. The applicant has requested that the annexed area be zoned in a manner equivalent to its current designation within unincorporated Muscatine County.

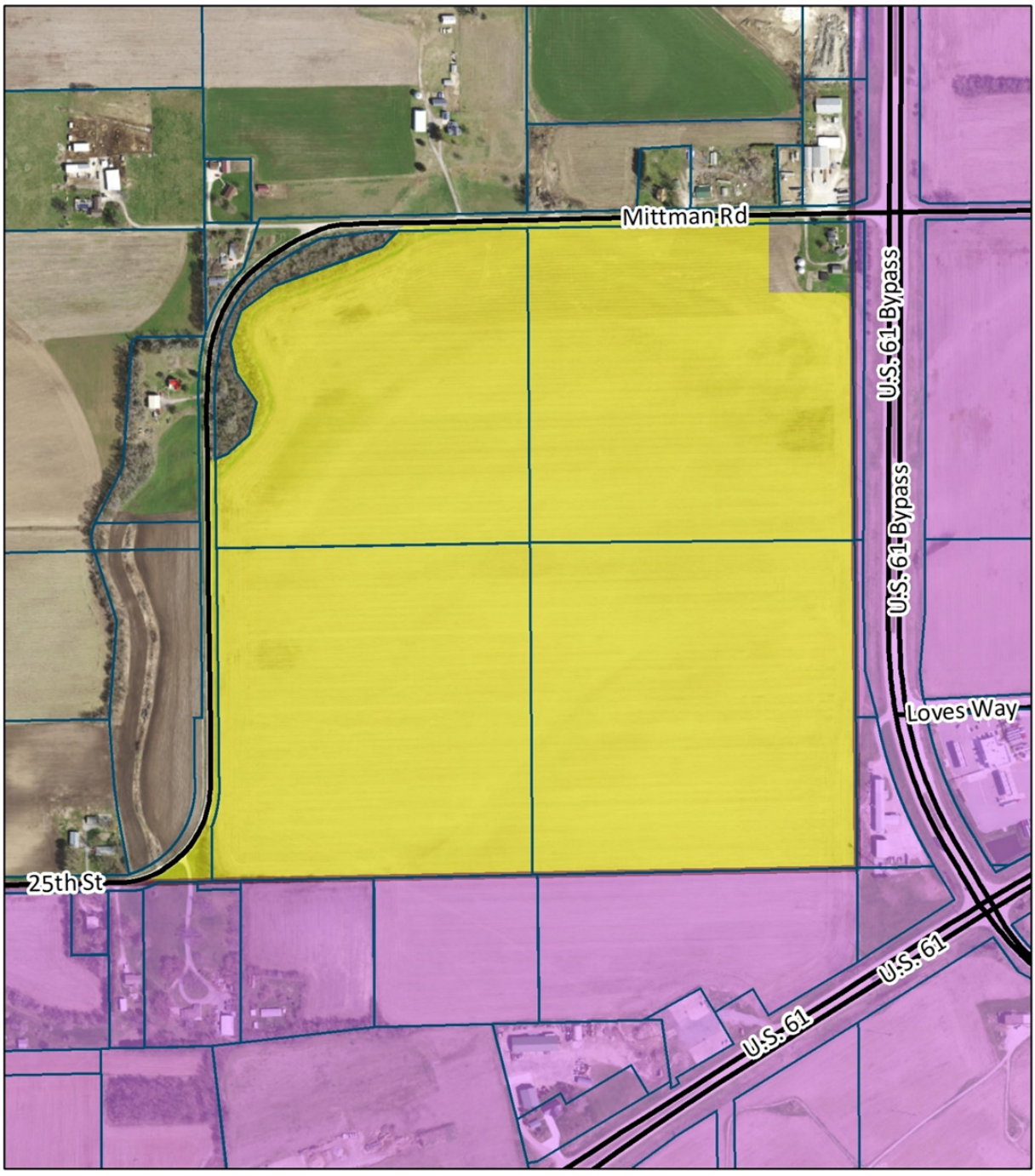
The subject area is currently zoned by Muscatine County as I-2 Heavy Industrial. The County's I-2 district is nearly identical to the M-2 General Industrial District defined within the City of Muscatine Zoning Ordinance. In the M-2 district, nearly all types of non-residential uses are permitted by right. However, industrial uses with the potential to be offensive to surrounding properties are only allowed through the issuance of a conditional use permit, which is granted at the discretion of the Zoning Board of Adjustment following a public hearing.

Staff recommends approval of this voluntary annexation request, with the annexed property being placed in the M-2 Zoning District.

The newly adopted Comprehensive Plan directs that property annexations into the City of Muscatine focus on areas already served by infrastructure or serviceable by the extension of public infrastructure from nearby properties; the subject area meets these criteria. Incorporating this property into the Muscatine city limits would bolster economic development efforts, as the site would be one of only a few available parcels exceeding 40 acres that feature flat topography, nearby utilities, highway access, and industrial or commercial zoning. Having such sites available as opportunities arise is vital to the economic vitality of the community.

An M-2 zoning for the subject area is supportable because it is equivalent to current County zoning and compatible with existing zoning and land use in the area. A transition from County I-2 to City M-2 does not result in a meaningful change to the permitted activities. The existing zoning in the area is nearly all industrial, consisting of a mix of M-1 (Light Industrial) and M-2 within city limits, and I-2 to the north and west in unincorporated Muscatine County.

The Fruitland Township Board of Trustees was notified of this proposed voluntary annexation. The trustees expressed opposition to the proposal, citing the loss of both current and potential future property tax revenue. Based on FY 25–26 valuations, rollbacks, and tax rates, the annexation of these 153 acres would result in an annual revenue loss of $137.36 for Fruitland Township.



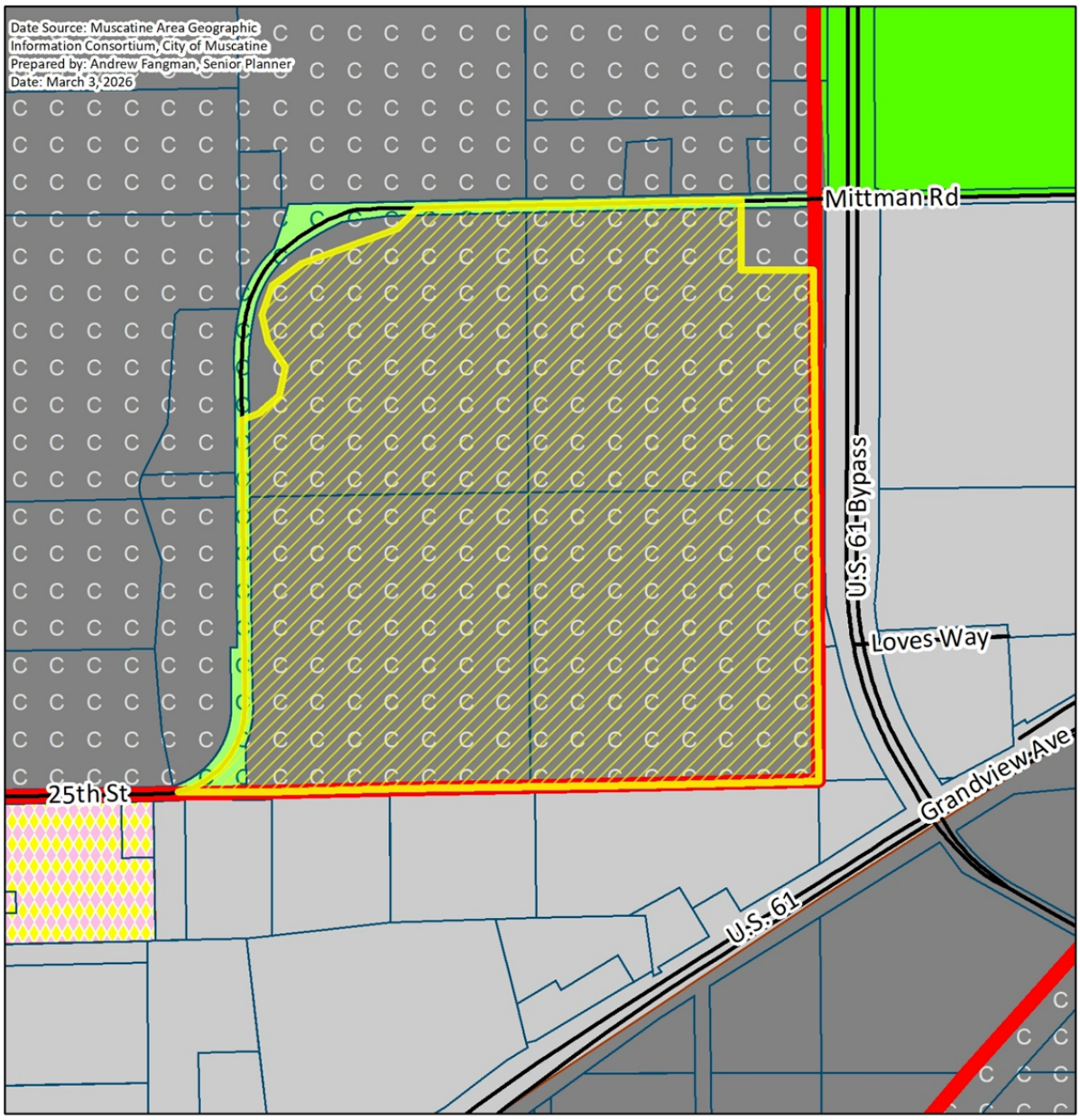
Legend

Existing City Limits

Proposed Annexation Area

Parcel Lines

0 400 800 1,600 Feet



MUSCATINE **Proposed Voluntary Annexation**

Proposed Annexation Area
Existing City Limits
Parcel Lines

Existing City Zoning
AG-Agricultural
M-1 Light Industrial
M-2 General Industrial
R-1 Single-Family Residence

Existing County Zoning
C Muscatine County-Agriculture
C Muscatine County-Heavy Industrial

N

0 400 800 1,600 Feet

CITY FINANCIAL IMPACT

None.

ATTACHMENTS

City of Muscatine

ITEM NUMBER

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Kevin Coon, City Engineer
Brian Stineman, Public Works Director

SUBJECT

Public hearing to review the plans and specifications for the City Parking Lot #7 Pavement Restoration Project.

EXECUTIVE SUMMARY

Public Hearing to review the plans and specifications for City Parking Lot #7 Pavement Restoration Project

STAFF RECOMMENDATION

Staff recommends adoption of the resolution.

BACKGROUND/DISCUSSION

For the past year the City has received multiple complaints on the condition of the parking lot across from City Hall on 3rd Street (city lot #7). The parking lot is shown to have multiple cracks and settling of the pavement and permeable pavers throughout. These issues have created significant tripping hazards for both daily users and the Farmers Market. Staff has devised a plan to replace a significant portion of the drive lane closest to 3rd street and replace broken and sunken permeable pavers in the center section.

CITY FINANCIAL IMPACT

Funds are available from the remaining funds from the 2nd Street Streetscape Project.

ATTACHMENTS

City of Muscatine

ITEM NUMBER

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Kevin Coon, City Engineer
Brian Stineman, Public Works Director

SUBJECT

Public hearing to review the plans and specifications for the West Hill Sewer Separation Phase 6E

EXECUTIVE SUMMARY

Public Hearing to review the plans and specifications for Phase 6E of the West Hill Sewer Separation Project

STAFF RECOMMENDATION

BACKGROUND/DISCUSSION

The West Hill Sewer Separation Phase 6E Project includes approximately 7,000 feet of sanitary sewer replacement and lining, along with 4000 feet of roadway replacement on Newell Ave between Lucas St and Broadway Street, 1225 feet of roadway replacement on Climer Street between Lucas Street and Logan Street, 375 feet of replacement on Maiden Lane between Newell Ave and Broadway Street, 450 feet of roadway replacement on Logan Street from Climer Street to Newell Ave, 130 feet of roadway replacement on Lucas Street in front of the Greenwood Cemetery Chapel, and replacement of all storm sewer on the aforementioned streets. The project also includes off-road sewer improvements in an area on the south side of Hagerman Street and the southwest side of Terrace Heights Drive, along with sewer lining and manhole replacement on Fletcher Avenue from Lucas to a point 150 feet past Bridgeman Street.

CITY FINANCIAL IMPACT

Funds for this project are available from the Local Option Sales Tax and a State Revolving Fund loan.

ATTACHMENTS

City of Muscatine

ITEM NUMBER 2026-0120

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Andrew Fangman, Senior Planner

SUBJECT

First Reading of an Ordinance amending Chapter 5, Title 3; and Chapters 1 and 14, Title 7 of the City Code to establish regulations for the use of electric bikes and other electric mobility devices - Public Hearing A

EXECUTIVE SUMMARY

Modern electric bikes and scooters are becoming increasingly popular in Muscatine; however, they are currently prohibited on trails and sidewalks under existing city code. Recognizing that many low-powered electric devices share similar weights and operating speeds with traditional bicycles, this ordinance proposes to amend the City Code to permit their use in the same locations where traditional bicycles are currently allowed.

This change is intended to enhance community mobility, particularly for seniors and individuals with physical limitations. To ensure the regulations remain easy to follow, the proposal provides a straightforward list of prohibited vehicles and establishes clear, consistent "rules of the road" for operating bicycles, electric bicycles, and other mobility devices

STAFF RECOMMENDATION

Staff recommends approval.

BACKGROUND/DISCUSSION

Breakthroughs in lithium-ion battery technology have enabled a new class of small, lightweight transportation devices designed for short-distance travel. This includes electric bicycles (e-bikes), which use a motor for pedal assistance or throttle power, as well as a similar group of motorized micromobility devices such as electric scooters, electric skateboards, hoverboards, and electric unicycles. Continuing technological advances have led to a surge in popularity as these devices become more affordable, even as their range and performance improve. Consequently, there is an ever-increasing presence of these devices on the trails, sidewalks, and streets of Muscatine.

The increasing presence of e-bikes and other electric motorized micromobility devices on

Muscatine's trails and sidewalks constitutes a direct violation of current City Code, which prohibits all motorized vehicles in these locations. While the Code permits human-powered bicycles on all trails and on sidewalks outside of the downtown area, it remains silent regarding the operation of e-bikes and similar devices on public streets.

These existing provisions are based on the assumption that the speed, weight, noise, and operational characteristics of motorized vehicles create an unacceptable risk when used in close proximity to pedestrians. In contrast, the current code is built on the premise that human-powered bicycles and pedestrians can safely share the same space, provided that appropriate rules are followed.

Muscatine's regulations prohibiting all types of motorized vehicles on trails and sidewalks have remained unchanged for decades. Until recently, these rules mirrored a broad national consensus found in most communities. However, the development and widespread adoption of lightweight electric transportation devices have led a growing number of jurisdictions to move away from a total ban. Instead, they are adopting a more nuanced approach that allows certain electric devices, provided their performance characteristics and impact on other users are similar to those of human-powered bicycles.

The logic behind shifting the regulation of motorized vehicles on trails and sidewalks is twofold. First, many new electric transportation devices are functionally identical to human-powered bicycles; their maximum speeds, weights, and noise levels are virtually the same. An increasing number of jurisdictions have concluded that the power source, whether a battery or a rider's muscles, is an insufficient reason to regulate these vehicles differently.

Second, allowing the widespread use of certain electric devices provides significant benefits to the community. By offering a motorized boost, they make cycling and scooting accessible to a wider demographic, including older adults and individuals with physical limitations who might otherwise avoid traditional bicycles.

The most challenging aspect of this policy change is establishing clear, enforceable standards to distinguish which devices can safely share space with pedestrians and traditional cyclists. This distinction is primarily based on kinetic energy, which is the product of a vehicle's speed and weight.

Many electric devices weigh between 50 and 70 pounds and are capped at speeds of approximately 20 miles per hour. This performance is similar to that of a traditional bicycle, allowing for safer reaction times. Conversely, some electric bikes function more like motorcycles; these vehicles are significantly heavier, often weighing well over 100 pounds, and are capable of reaching speeds exceeding 50 miles per hour.

These high-performance devices pose a substantial safety risk to pedestrians and traditional cyclists. Because their impact force is significantly greater than that of a standard bicycle, and reaction times are shortened, they are unsuitable for use on trails and sidewalks.

In 2021, the State Legislature amended the State Code to permit specifically defined types of compatible electric devices to operate in any location where a human-powered bicycle is allowed. Under this amendment, these devices are subject to the same rules and regulations that apply to human powered bicycles. However, this portion of the State Code is structured such that it does not supersede locally adopted rules regarding the use of trails and sidewalks. Consequently, the City Code's current prohibition on the operation of all motorized vehicles on trails and sidewalks remains applicable.

The proposed ordinance mirrors the approach taken by the State and various Iowa communities by regulating human-powered bicycles, compatible electric bicycles, and other electric mobility devices under a unified framework. These regulations, detailed below, are designed to be easy to understand, simple to enforce, and representative of current best practices. Furthermore, they reflect the consensus reached by the Council during the in-depth discussion on this topic at the February meeting.

7-14-1 General Regulations

Riders operating a bicycles, electric bicycle, or other electric mobility device shall be subject to the following regulations:

A. Careless and Dangerous Riding Prohibited

1. A rider shall not use a bicycle, electric bicycle, or other electric mobility device to carry more persons at one time than the number of persons for which the bicycles, electric bicycle, or other electric mobility device is designed and equipped.

2. Riders shall keep the bicycle, electric bicycle, or other electric mobility device under directional, speed, and stopping control at all times.

3. No rider shall operate a bicycle, electric bicycle, or other electric mobilitydevice in an irregular or reckless manner so as to disregard the safety of the operator, others, or property.

4. Riders shall not ride at such at a speed greater than is careful and prudent at a rate of speed no greater than is reasonable and proper under the conditions existing at the point of operation, taking into account the surroundings and environment, such as inclement weather, infrastructure conditions, and grade.

B. Lamps: Reflective Devices

1. Every bicycle, electric bicycle, or other electric mobility device when in use between sunset to sunrise and when weather conditions provide insufficient lighting to render clearly discernible persons and vehicles on the road at a distance of 300 feet ahead, shall be equipped with a lamp on the front emitting a white light visible from a distance of at least 300 feet to the front and with a lamp on the rear exhibiting a red light visible from a distance of 300 feet to the rear, except that a red reflector on the rear, may be used in lieu of a rear light.

2. The lamps or reflector may be attached to the rider of the device rather than the bicycle, electric bicycle, or other electric mobility device itself provided the visibility requirements are met.
3. Equivalent equipment such as headlamps and red-light attachments to the head, back, arm, or leg may be used in lieu of a lamp on the front and a red light on the rear of the device.

7-14-1 Riding on Streets
Riders operating a bicycles, electric bicycle, or other electric mobility device shall be subject to the following regulations:

A. *Every person, riding a bicycles, electric bicycle, or other electric mobility device upon a roadway or in a bicycle lane shall be granted all of the rights and shall be subject to all of the duties applicable to the driver of a vehicle by the laws of the State declaring rules of the road applicable to vehicles or by applicable portions of City Code to the driver of a vehicle, except as to those provisions that by their nature can have no application or those for which specific exceptions have been set forth regarding police bicycles. This does not apply to the use of a bicycle, electric bicycle, or other electric mobility device in a parade authorized by proper permit.*

B. *Riders shall not ride more than 2 abreast.*

7-14-3 Riding on Sidewalks and Trails
Bicycles, electric bicycle, or other electric mobility devices may be operated upon trails and sidewalks subject to the following regulations:

A. Prohibited Types of Vehicles on Trails and Sidewalks:
1. Any vehicle equipped with an internal combustion engine.

2. Any vehicle equipped with an electric motor of more than 750 watts.

3. Any vehicle that is capable of speeds greater than 20 miles per hour when solely powered by the electric propulsion system.

4. These prohibitions do not apply to the use of ADA compliant power assisted devices, as defined in Section, 216E.1 of State Code, intended for personal transport.

B. Downtown Business Area
1. For the purpose of this section, the Downtown Business Area shall encompass an area bounded by and including Mississippi Drive, Mulberry Avenue, Fourth Street, and Pine Street.

2. Bicycles, electric bicycles, or other electric mobility devices, shall not be ridden on the sidewalks in the Downtown Business Area.

3. Law enforcement officers while on duty may operate bicycle, electric bicycle, or other electric mobility device on sidewalks anywhere in the City.

4. No person shall park any bicycles, electric bicycle, or other electric mobility device upon the sidewalks in the Downtown business area.

***C.** Riders shall yield the right of way to pedestrians.*

***D**. Riders shall not ride more than 2 abreast when on a trail or sidewalk that is at least 10 feet in width, and not more than single file on a trail or sidewalk that is less than 10 feet in width.*

***E**. When passing a pedestrian, a rider shall:*

1. When approaching a pedestrian from behind, slow to a reasonable and safe speed to prevent startling or endangering the pedestrian;

2. Provide an audible signal, such as a bell or verbal warning (e.g., "On your left");

3. Such warning must be given at a sufficient distance to allow the pedestrian time to react; and

4. Maintain of a distance of at least 3 feet while passing a pedestrian or come to a near stop if such a distance is not feasible.

CITY FINANCIAL IMPACT

None.

ATTACHMENTS

1. Ord_2026-0120 (2)

CITY OF MUSCATINE
ORDINANCE 2026-0120

AN ORDINANCE AMENDING CHAPTER 5, TITLE 3; AND CHAPTERS 1 AND 14, TITLE 7 OF THE CITY CODE TO ESTABLISH REGULATIONS FOR THE USE OF ELECTRIC BIKES AND OTHER ELECTRIC MOBILITY DEVICES

WHEREAS, Advances in lithium-ion battery technology have enabled a new class of small, lightweight transportation devices designed for short-distance travel. This includes electric bicycles (e-bikes), as well as a similar group of motorized mobility devices such as electric scooters, electric skateboards, hoverboards, and electric unicycles;

WHEREAS, Continuing technological advances have led to a surge in popularity as these devices become more affordable, even as their range and performance improve;

WHEREAS, There is an ever-increasing presence of these devices on the trails, sidewalks, and streets of Muscatine;

WHEREAS, Currently the use of such devices on Muscatine's trails and sidewalks violates City Code, which prohibits the use of all motorized vehicles on trails and sidewalks;

WHEREAS, Permitting the use of certain electric devices that are compatible with shared pedestrian spaces would significantly benefit the community. By offering a motorized boost, they make cycling and scooting accessible to a wider demographic, including older adults and individuals with physical limitations who might otherwise avoid traditional bicycles;

WHEREAS, Most jurisdictions, including the State of Iowa, are replacing total bans on the operation of motorized vehicles on sidewalks and trails with performance-based regulations. This framework permits electrically propelled devices, specifically those weighing less than 70 pounds and capped at 20 mph, to operate wherever bicycles are allowed. This shift recognizes that such devices are functionally equivalent to human-powered cycles regarding speed, weight, and noise characteristics, and should be regulated as such;

WHEREAS, The proposed amendment adopts clear, enforceable rules for electric bicycles and other electric mobility devices on sidewalks and trails. These regulations are in harmony with existing standards for human-powered cycles;

WHEREAS, current City Code requires bicycle registration, the program is currently inactive. Furthermore, State Code prohibits mandatory registration for electric bicycles and similar mobility devices. Therefore, this ordinance seeks to repeal bicycle registration requirements.

WHEREAS, a public hearing before the City Council on these proposed changes was held on April 7, 2026.

NOW THEREFORE, be it ordained by the City Council of the City of Muscatine, in

the State of Iowa, as follows:

SECTION 1: **REPEAL** "7-14-1 Registration Required" of the Muscatine Municipal Code is hereby *repealed* as follows:

REPEAL

~~7-14-1 Registration Required~~ *(Repealed)*

~~Every person who shall own a bicycle in the City shall register such bicycle as provided in this Chapter.~~

~~*(Code of Iowa, Section 321.236[10])*~~

SECTION 2: **REPEAL** "7-14-2 Application" of the Muscatine Municipal Code is hereby *repealed* as follows:

REPEAL

~~7-14-2 Application~~ *(Repealed)*

~~The owner of any bicycle shall apply to the Police Department for registration of such bicycle and such registration shall be on a form furnished and prescribed by the Police Department and shall provide a full description of the bicycle, such as name and address of owner, type, color, manufacturer, and serial number.~~

~~*(Code of Iowa, Section 321.236[10])*~~

SECTION 3: **REPEAL** "7-14-3 License Type" of the Muscatine Municipal Code is hereby *repealed* as follows:

REPEAL

~~7-14-3 License Type~~ *(Repealed)*

~~The Bicycle License shall be of a type designated by the Police Chief.~~

SECTION 4: **REPEAL** "7-14-4 Second Hand Sales Report" of the Muscatine Municipal Code is hereby *repealed* as follows:

REPEAL

~~7-14-4 Second Hand Sales Report~~ *(Repealed)*

~~All persons buying or selling second hand bicycles shall notify the Police Department within five (5) days of the purchase or sale.~~

SECTION 5: **REPEAL** "7-14-5 Destroying Frame Number Or License" of the Muscatine Municipal Code is hereby *repealed* as follows:

REPEAL

~~7-14-5 Destroying Frame Number Or License~~ *(Repealed)*

~~No person shall willfully or maliciously remove or destroy any frame number or license.~~

SECTION 6: **REPEAL** "7-14-6 Lost Or Destroyed License" of the Muscatine Municipal Code is hereby *repealed* as follows:

REPEAL

~~7-14-6 Lost Or Destroyed License~~ *(Repealed)*

~~In the event that an owner of a bicycle should lose a license or that such license should be destroyed or stolen, the owner shall report the same to the Police Department and there shall be furnished to the owner a new bicycle license at the cost as set by resolution of the Council.~~

SECTION 7: **REPEAL** "7-14-7 License Fees" of the Muscatine Municipal Code is hereby *repealed* as follows:

REPEAL

~~7-14-7 License Fees~~ *(Repealed)*

~~The bicycle license fee shall be as determined by resolution of the City Council and is listed in~~

~~the Schedule of Permit and Other Licensing Requirements in Appendix B to this Code of Ordinances.~~

~~*(Code of Iowa, Section 321.236[10])*~~

SECTION 8: **REPEAL** "7-14-8 Riding On Sidewalks" of the Muscatine Municipal Code is hereby *repealed* as follows:

REPEAL

~~7-14-8 Riding On Sidewalks~~ *(Repealed)*

~~Bicycles may be operated on sidewalks in the City, except in the downtown business area, however, Muscatine police officers while on duty may operate bicycles on sidewalks anywhere in the City. For the purpose of this Section, the downtown business area shall encompass an area bounded by and including Mississippi Drive, Mulberry Avenue, Fourth Street, and Pine Street. Under all circumstances, a driver of a bicycle shall yield the right-of-way to pedestrians using the sidewalk and due and proper care shall at all times be exercised by the driver of the bicycle for pedestrians.~~

~~*(Code of Iowa, Section 321.236[10])*~~

SECTION 9: **REPEAL** "7-14-9 Parking On Sidewalks (Business District)" of the Muscatine Municipal Code is hereby *repealed* as follows:

REPEAL

~~7-14-9 Parking On Sidewalks (Business District)~~ *(Repealed)*

~~No person shall park any bicycle upon the sidewalks in the business district; the business district is that area as defined in Section 7-14-8 of this Chapter.~~

SECTION 10: **REPEAL** "7-14-10 Number Of Persons" of the Muscatine Municipal Code is hereby *repealed* as follows:

REPEAL

~~7-14-10 Number Of Persons~~ *(Repealed)*

~~Only one person shall ride a bicycle at any time, unless it is of the tandem type.~~

SECTION 11: **REPEAL** "7-14-11 Riding Two Abreast" of the Muscatine Municipal Code is hereby *repealed* as follows:

REPEAL

~~7-14-11 Riding Two Abreast~~ *(Repealed)*

~~Bicyclists riding upon any street shall not ride more than two (2) abreast.~~

SECTION 12: **REPEAL** "7-14-12 Method Of Riding; Rate Of Speed" of the Muscatine Municipal Code is hereby *repealed* as follows:

REPEAL

~~7-14-12 Method Of Riding; Rate Of Speed~~ *(Repealed)*

~~When riding upon the streets, bicyclists shall at all times keep both hands on the handle bars of the bicycle, except to make hand signals and at no time shall ride at such a rate of speed as to endanger the person or property of others.~~

SECTION 13: **REPEAL** "7-14-13 Lamps: Reflective Devices" of the Muscatine Municipal Code is hereby *repealed* as follows:

REPEAL

~~7-14-13 Lamps: Reflective Devices~~ *(Repealed)*

~~Every bicycle operated within the City during the period from one-half hour after sunset to one-half hour before sunrise and at any other time when there is not sufficient light to render clearly discernible persons and vehicles at a distance of three hundred feet (300') ahead shall be equipped with a lighted white lamp on the front thereof of such bicycle. Every bicycle shall also be equipped with a reflex mirror reflector or lamp on the rear, visible under like conditions from a distance of at least three hundred feet (300') to the rear of such bicycle.~~

SECTION 14: **AMENDMENT** "CHAPTER 7-14 BICYCLES" of the Muscatine Municipal Code is hereby *amended* as follows:

AMENDMENT

CHAPTER 7-14 BICYCLES, ELECTRIC BICYCLES, AND OTHER ELECTRIC MOBILITY DEVICES

SECTION 15: **REPEAL** "7-14-14 Traffic Regulations" of the Muscatine Municipal Code is hereby *repealed* as follows:

REPEAL

~~7-14-14 Traffic Regulations~~ *(Repealed)*

~~All persons riding bicycles upon any street shall observe the traffic laws of the City and of the State insofar as the same may apply to the riding of bicycles and specifically, but without limitation, shall include traffic rules as to traffic lights, highway stop signs, signaling change of direction of the course of travel, traveling on the right-hand side of the street, no turns to the right or left in traffic except at the regular intersection of streets or alleys and no weaving in and out of traffic.~~

SECTION 16: **ADOPTION** "7-14-1 General Regulations" of the Muscatine Municipal Code is hereby *added* as follows:

ADOPTION

7-14-1 General Regulations*(Added)*

Riders operating a bicycles, electric bicycle, or other electric mobility device shall be subject to the following regulations:

A. Careless and Dangerous Riding Prohibited
   1. A rider shall not use a bicycle, electric bicycle, or other electric mobility device to carry more persons at one time than the number of persons for which the bicycles, electric bicycle, or other electric mobility device is designed and equipped.
   2. Riders shall keep the bicycle, electric bicycle, or other electric mobility device under directional, speed, and stopping control at all times.
   3. No rider shall operate a bicycle, electric bicycle, or other electric mobility device in an irregular or reckless manner so as to disregard the safety of the operator, others, or property.
   4. Riders shall not ride at such at a speed greater than is careful and prudent at a

rate of speed no greater than is reasonable and proper under the conditions existing at the point of operation, taking into account the surroundings and environment, such as inclement weather, infrastructure conditions, and grade.

B. Lamps: Reflective Devices
   1. Every bicycle, electric bicycle, or other electric mobility device when in use between sunset to sunrise and when weather conditions provide insufficient lighting to render clearly discernable persons and vehicles on the road at a distance of 300 feet ahead, shall be equipped with a lamp on the front emitting a white light visible from a distance of at least 300 feet to the front and with a lamp on the rear exhibiting a red light visible from a distance of 300 feet to the rear, except that a red reflector on the rear, may be used in lieu of a rear light.
   2. The lamps or reflector may be attached to the rider of the device rather than the bicycle, electric bicycle, or other electric mobility device itself provided the visibility requirements are met
   3. Equivalent equipment such as headlamps and red-light attachments to the head, back, arm, or leg may be used in lieu of a lamp on the front and a red light on the rear of the device.

SECTION 17: **ADOPTION** "7-14-2 Riding on Streets" of the Muscatine Municipal Code is hereby *added* as follows:

A D O P T I O N

7-14-2 Riding on Streets*(Added)*

A. Every person, riding a bicycles, electric bicycle, or other electric mobility device upon a roadway or in a bicycle lane shall be granted all of the rights and shall be subject to all of the duties applicable to the driver of a vehicle by the laws of the State declaring rules of the road applicable to vehicles or by applicable portions of City Code to the driver of a vehicle, except as to those provisions that by their nature can have no application or those for which specific exceptions have been set forth regarding police bicycles. This does not apply to the use of a bicycle, electric bicycle, or other electric mobility device in a parade authorized by proper permit.
B. Riders shall not ride more than 2 abreast.

SECTION 18: **ADOPTION** "7-14-3 Riding On Sidewalks And Trails" of the Muscatine Municipal Code is hereby *added* as follows:

A D O P T I O N

7-14-3 Riding On Sidewalks And Trails*(Added)*

Bicycles, electric bicycle, or other electric mobility device upon may be operated on trails and sidewalks subject to the following regulations:

A. Prohibited Types of Vehicles on Trails and Sidewalks:
    1. Any vehicle equipped with an internal combustion engine.
    2. Any vehicle equipped with an electric motor of more than 750 watts.
    3. Any vehicle that is capable of speeds greater than 20 miles per hour when solely powered by the electric propulsion system.
    4. These prohibitions do not apply to the use of ADA compliant power assisted devices, as defined in Section, 216E.1 of State Code, intended for personal transport.
B. Downtown Business Area
    1. For the purpose of this section, the Downtown Business Area shall encompass an area bounded by and including Mississippi Drive, Mulberry Avenue, Fourth Street, and Pine Street.
    2. Bicycles, electric bicycles, or other electric mobility devices, shall not be ridden on the sidewalks in the Downtown Business Area.
    3. Law enforcement officers while on duty may operate bicycle, electric bicycle, or other electric mobility device on sidewalks anywhere in the City.
    4. No person shall park any bicycles, electric bicycle, or other electric mobility device upon the sidewalks in the Downtown business area.
C. Riders shall yield the right of way to pedestrians.
D. Riders shall not ride more than 2 abreast when on a trail or sidewalk that is at least 10 feet in width, and not more than single file on a trail or sidewalk that is less than 10 feet in width.
E. When passing a pedestrian, a rider shall:
    1. When approaching a pedestrian from behind, slow to a reasonable and safe speed to prevent startling or endangering the pedestrian;
    2. Provide an audible signal, such as a bell or verbal warning (e.g., "On your left");
    3. Such warning must be given at a sufficient distance to allow the pedestrian time to react; and
    4. Maintain of a distance of at least 3 feet while passing a pedestrian or come to a near stop if such a distance is not feasible.

SECTION 19: **AMENDMENT** "7-1-1 Definitions" of the Muscatine Municipal Code is hereby *amended* as follows:

AMENDMENT

7-1-1 Definitions

Unless otherwise expressly stated or the context clearly indicates a different intention, the

following words and phrases when used in this Title shall have the meanings respectively ascribed to them in this Section:

A. “Bicycle” shall mean every device solely propelled by human power upon which any person may ride, having two (2) tandem wheels, and including any device generally recognized as a bicycle though equipped with two (2) front or two (2) rear wheels.
B. “Central Business or Traffic District” shall mean:
    1. The central business or traffic district shall consist of such streets and areas as shall from time to time be designated by motion of the Council.
    2. The following streets and alleys, and areas intersecting and adjacent thereto, are hereby designated as the central business or traffic district: Mississippi Drive from Oak Street to the theoretical intersection of Spruce Street; Second Street from Poplar Street to Pine Street; Third Street from Oak Street to Chestnut Street; Fourth Street from Poplar Street to Chestnut Street; Oak Street from Mississippi Drive to Fourth Street; Orange Street from Mississippi Drive to Fourth Street; Mulberry Avenue from Mississippi Drive to Seventh Street; Walnut Street from Mississippi Drive to Fourth Street; Cedar Street from Mississippi Drive to Fourth Street; Sycamore Street from Mississippi Drive to Fifth Street; Iowa Avenue from Mississippi Drive to Fourth Street; Chestnut Street from Mississippi Drive to Third Street; Pine Street from Mississippi Drive to Third Street.
C. “Curb Loading Zone” shall mean a space adjacent to a curb reserved for the exclusive use of vehicles during loading or unloading of passengers or materials.
D. "Electric Bicycle" shall mean a device meeting the definition, contained within the Code of Iowa of a "low-speed electric bicycle".
E. "Other Electric Mobility Device" shall mean a self-balancing, nontandem two-wheeled device powered by an electric propulsion system that averages seven hundred fifty watts and is designed to transport one person, with a maximum speed on a paved level surface of less than twenty miles per hour. The maximum speed shall be calculated based on operation of the device by a person who weighs one hundred seventy pounds when the device is powered solely by the electric propulsion system. This definition does not include an assistive device as defined in section 216E.1 of the Code of Iowa.
F. "Primary Road(s)” shall mean those roads and streets both inside and outside the boundaries of the City of Muscatine that are under the Iowa Department of Transportation jurisdiction.

    (Iowa Code, Section 306.3)
G. “Roadway” shall mean that portion of a street or highway improved, designed, or ordinarily used for vehicular travel. In the event a highway includes two (2) or more separate roadways, the term “roadway” as used in this Chapter shall refer to any such roadway separately but not to all such roadways collectively.
H. “Sidewalk" shall mean any paved path designated for pedestrian use that runs parallel to a roadway or through a public space. To qualify under this definition, the path must be located within the public right-of-way or on City property. Outside of the

downtown business area—specifically the region bounded by and including Mississippi Drive, Mulberry Avenue, Fourth Street, and Pine Street—a path must be less than eight feet in width to be classified as a sidewalk.

I. "Stop" shall mean complete cessation of movement when required.

J. "Stop, Stopping, or Standing" shall mean, when prohibited, any stopping or standing of a vehicle whether occupied or not, except when necessary to avoid conflict with other traffic or in compliance with the direction of a Police Officer or traffic control sign or signal.

K. "Traffic" shall mean pedestrians, ridden or herded animals, vehicles, and other conveyances, either singly or together, while using any street for purposes of travel.

L. "Trail" shall mean a path, of at least eight feet in width, designed for shared use by pedestrians, cyclists, and other non-motorized users, which includes electric bicycles and other electric mobility devices.

SECTION 20: **AMENDMENT** "3-5-8 Traffic" of the Muscatine Municipal Code is hereby *amended* as follows:

AMENDMENT

3-5-8 Traffic

No person in a park shall:

A. Ride or drive an automobile, motorcycle, moped, mini-bike, go-cart, snowmobile, or other vehicle, except upon the established roads and ways.

B. Exceed a speed limit of fifteen (15) miles per hour at any time or such lower speed limits as posted in designated areas of the parks.

(Code of Iowa, Sec. 321.236[5])

C. Fail to obey all posted traffic signs.

D. Leave a motor vehicle unattended in any park after closing. Any motor vehicle left unattended in any park after closing shall be deemed abandoned and the City of Muscatine shall cause the same to be towed from the Park and the same shall not be redeemed by the owner or the person responsible therefore until reasonable towing and storage charges are paid.

E. Parking of trucks that are wider than eighty inches (80"), self-propelled motor homes, buses, mobile homes, or any motor vehicle with trailer attached are prohibited in Weed Park from nine o'clock (9:00) A.M. on Friday to eleven o'clock (11:00) P.M. on Sunday.

F. Operate or park semi-tractors and/or semi-trailers at any time, except when engaged in delivery, pick-up, loading, or unloading equipment and goods as approved by the Department of Parks and Recreation.

G. Operate a bicycle, bicycle, electric bicycle, or other electric mobility device on

sidewalk or trail within a park in manner contrary to the regulations for the operation of bicycles, electric bicycles, or other electric mobility devices as set forth in Chapter 14 of Title 7 of City Code.

SECTION 21: **REPEALER CLAUSE** All ordinances or resolutions or parts thereof, which are in conflict herewith, are hereby repealed.

SECTION 22: **SEVERABILITY CLAUSE** Should any part or provision of this Ordinance be declared by the courts to be unconstitutional or invalid, such decision shall not affect the validity of the Ordinances a whole or any part thereof other than the part so declared to be unconstitutional or invalid.

SECTION 23: **EFFECTIVE DATE** This Ordinance shall be in full force and effect from _____ and after the required approval and publication according to law.

SECTION 24:
First Reading:
Second Reading:
Third Reading:
Publication:

PASSED AND ADOPTED BY THE CITY OF MUSCATINE CITY COUNCIL _____.

Presiding Officer	Attest
_____	_____
Dr. Brad Bark, Mayor, City of Muscatine	Cinda Hilger, City Clerk, City of Muscatine

City of Muscatine

ITEM NUMBER 2026-0121

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Andrew Fangman, Senior Planner

SUBJECT

First reading of an ordinance amending the zoning ordinance of the City of Muscatine, Iowa (2021 Houser St., northeast corner of Houser St. & Cedar Plaza Dr. intersection) Public Hearing B

EXECUTIVE SUMMARY

Corey and Tara Smith have submitted a request to rezone a 0.17-acre property located at the 2021 Houser Street (northeast corner of the Houser Street and Cedar Plaza Drive intersection), from R-5 Multi-Family Residence to C-1 Neighborhood and General Commercial. The applicants intend to develop a drive-through only coffee shop on this property.

STAFF RECOMMENDATION

On March 16, the Planning and Zoning Commission voted 4–0 to recommend approval of this rezoning. Staff concurs with this recommendation.

BACKGROUND/DISCUSSION

Corey and Tara Smith have submitted a request to rezone a 0.17-acre property located at the 2021 Houser Street (northeast corner of the Houser Street and Cedar Plaza Drive intersection), from R-5 Multi-Family Residence to C-1 Neighborhood and General Commercial.

The applicants intend to develop a drive-through only coffee shop on this property. Access will be provided via the existing private drive adjoining the parcel, utilizing separate entry and exit points. Drive-through traffic will be one-way only: vehicles will enter from the east side from the private drive, proceed through the drive-through window, and exit on the westerly portion of the parcel back onto the private drive toward Houser Street. The exact layout and design of this will require review and approval by the City Engineer as part of the required site plan review process, which must occur prior to construction.

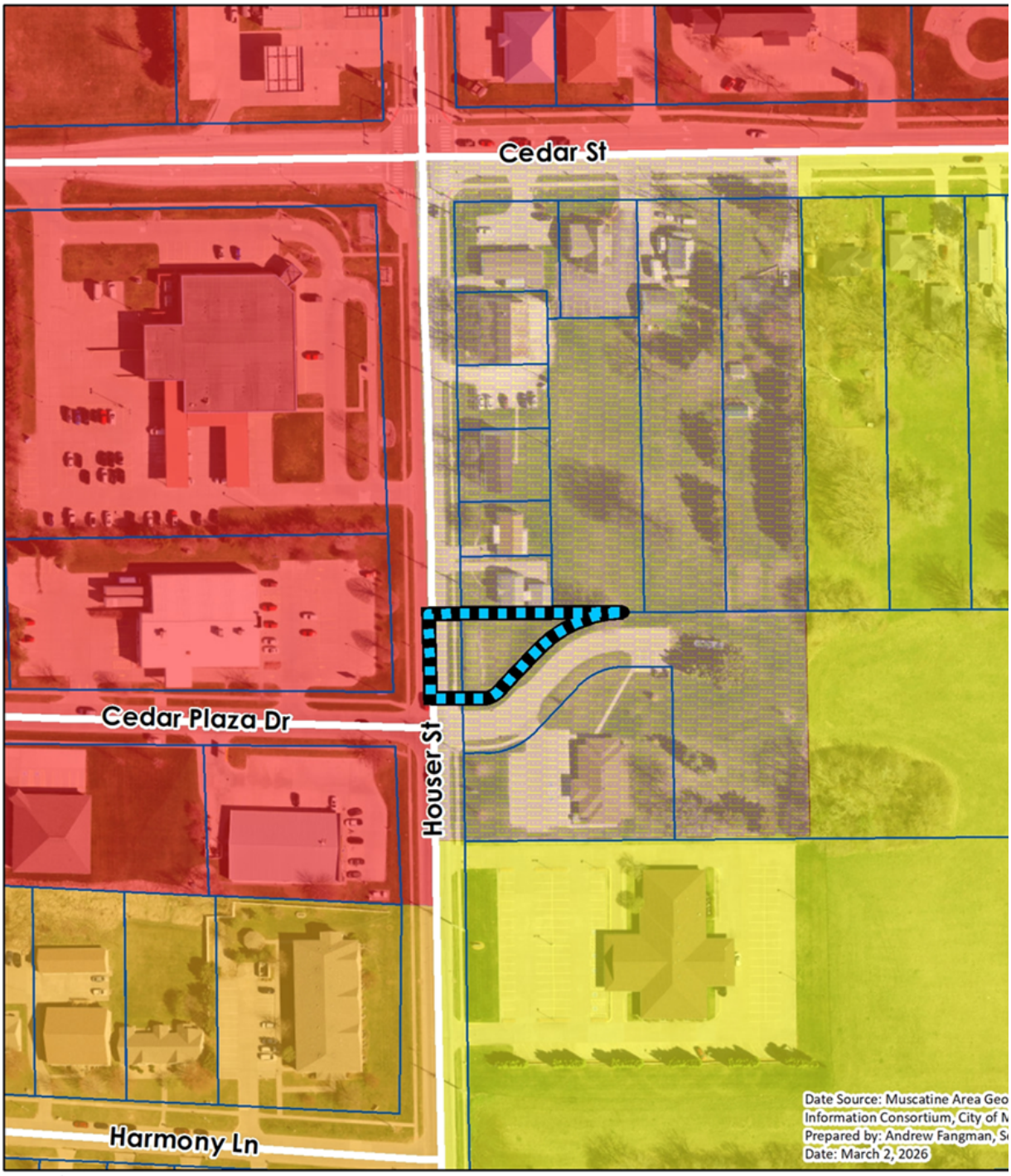
To accommodate the proposed development, the existing stormwater basin on this parcel will be reworked and potentially partially relocated onto an adjoining vacant parcel also owned by the applicant. The redesign of the stormwater management infrastructure must adequately

serve both the proposed coffee shop and the existing dental office at 2011 Houser Street. Any such modifications must be approved by the City Engineer to ensure all requirements are met

The property is currently zoned R-5 Multi-Family Residence, which does not permit the development of a coffee shop. Therefore, rezoning to a district such as C-1 is necessary for this project to proceed.

The Future Land Use Plan is a key component of the Comprehensive Plan adopted in late 2025. This plan serves as a tool to provide guidance when considering rezoning requests. Because the Plan designates the subject area as commercial, the requested rezoning is fully supported by the Comprehensive Plan.

Commercial development exists across Houser Street and to the south of the subject area, making the rezoning request consistent and compatible with the existing land use of the area. A six-foot-high privacy fence will be constructed along the north property line, beginning 25 feet behind the Houser Street sidewalk. Compared to the existing stormwater basin, this fence will provide superior screening between the adjoining residence to the north and the proposed commercial development. This new buffer will significantly improve the transition between commercial and residential uses along this stretch of Houser Street.



MUSCATINE **Rezoning - Houser & Cedar P**

Current Zonning Districts

- C-3 Planned Commercial
- R-3 Residential
- R-5 Residential
- RL Large Scale Residential
- S-3 Mixed Use

Area Proposed to be Rezoned as C-1 Neighborhood & General Com

Parcel Lines

0 150 300 600 Feet

CITY FINANCIAL IMPACT

The development facilitated by this rezoning would positively impact property tax revenue.

ATTACHMENTS

1. Rezoning Ordinance (3)

ORDINANCE NO. 2026-0121

AN ORDINANCE AMENDING THE ZONING ORDINANCE OF THE CITY OF MUSCATINE, IOWA (2021 HOUSER ST., NORTHEAST CORNER OF HOUSER ST. & CEDAR PLAZA DR. INTERSECTION)

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA AS FOLLOWS:

Section 1. That the boundaries of the District Map, being a part of the Zoning Ordinance, which is Title Ten of the Ordinance of the City of Muscatine, Iowa, be and the same are, hereby amended to rezone the following described real estate, situated in the City and County of Muscatine, and State of Iowa, to-wit:

Outlot A of Lifetime Subdivision of the City of Muscatine, Iowa; and the easterly half of the Houser Street right of way that adjoins said Outlot A.

Said real estate shall be rezoned from R-5 Multi-Family Residential to C-1 Neighborhood and General Commercial.

Section 2. That all ordinances or parts of ordinances in conflict herewith are hereby repealed and this Ordinance shall be in full force and effect from and after its passage and publication as provided by law.

PASSED, APPROVED, AND ADOPTED this 7th day of April, 2026.

CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA

Attest:

By_____
Dr. Brad Bark, Mayor

_____
Cinda Hilger, City Clerk

1st Reading _____
2nd Reading _____
Publication _____

City of Muscatine

ITEM NUMBER 2026-0126

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Andrew Fangman, Senior Planner

SUBJECT

First reading of an ordinance amending the zoning ordinance of the City of Muscatine, Iowa (approximately 153.5 acres of land located near the southwest corner of Mittman Road and the U.S. 61 bypass, to be designated as an M-2 general industrial zoning district upon completion of annexation) Public Hearing C

EXECUTIVE SUMMARY

Blackhawk Capital Investments LLC has submitted a voluntary annexation application to the City of Muscatine for approximately 153.5 acres of land. Located near the southwest corner of Mittman Road and the U.S. 61 Bypass, the applicant seeks annexation to increase the property's marketability for future development. The City Council will be asked to act on a resolution approving this voluntary annexation at its May 5th meeting.

The land is currently zoned by Muscatine County as I-2 Heavy Industrial; the applicant is requesting an equivalent City designation, M-2 General Industrial, as part of the annexation process. City Code specifies that all newly annexed territory be initially placed in the Agriculture zoning district; as such, a rezoning action is required to place it in the M-2 district.

A rezoning ordinance requires multiple readings. The intent of conducting the first reading of this rezoning tonight is to allow for the final reading of the ordinance to be placed on the agenda immediately after the resolution finalizing the annexation at the May 5th meeting.

STAFF RECOMMENDATION

On March 16, the Planning and Zoning Commission voted 4–0 to recommend approval of this rezoning. Staff concurs with this recommendation.

BACKGROUND/DISCUSSION

Blackhawk Capital Investments LLC has submitted a voluntary annexation application to the City of Muscatine for approximately 153.5 acres of land. Located near the southwest corner of Mittman Road and the U.S. 61 Bypass, the applicant seeks annexation to increase the property's marketability for future development. The land is currently zoned by Muscatine

County as I-2 Heavy Industrial; the applicant is requesting an equivalent City designation, M-2 General Industrial, as part of the annexation process.
The subject area consists exclusively of croplands. The farmhouse and the immediately surrounding 2.25 acres, located on the applicant's property at the southwest corner of the Mittman/U.S. 61 Bypass, are not included in this annexation request.

The subject area has a number of characteristics that make it an attractive site for development. It has excellent access, adjoining U.S. 61 with two established access points at Mittman Road and Loves Way. The extremely flat topography of the subject area is an attractive feature for any possible future development.

The extension of water and sewer infrastructure necessitated by the development of the Loves Travel Stop at the U.S. 61/Grandview intersection was designed and built with a capacity that would allow for them to be extended to support the development of nearby areas, such as the area that is the subject of this voluntary annexation request. The ability to easily extend water and sewer services to the property significantly increases the attractiveness of this area for development.

The applicant desires to annex the subject area into the City to further increase its suitability and marketability for development. This is because of access to City infrastructure, such as the sanitary sewer system and other City services, requires the property to be located within City limits. Annexation will allow the property to be marketed with these available City amenities, which would make it significantly more developable.

Muscatine City Code dictates that annexed property is automatically placed in the Agriculture Zoning district, unless action is taken to assign a different district concurrently with the annexation. The applicant has requested that the annexed area be zoned in a manner equivalent to its current designation within unincorporated Muscatine County.

The subject area is currently zoned by Muscatine County as I-2 Heavy Industrial. The County’s I-2 district is nearly identical to the M-2 General Industrial District defined within the City of Muscatine Zoning Ordinance. In the M-2 district, nearly all types of non-residential uses are permitted by right. However, industrial uses with the potential to be offensive to surrounding properties are only allowed through the issuance of a conditional use permit, which is granted at the discretion of the Zoning Board of Adjustment following a public hearing.

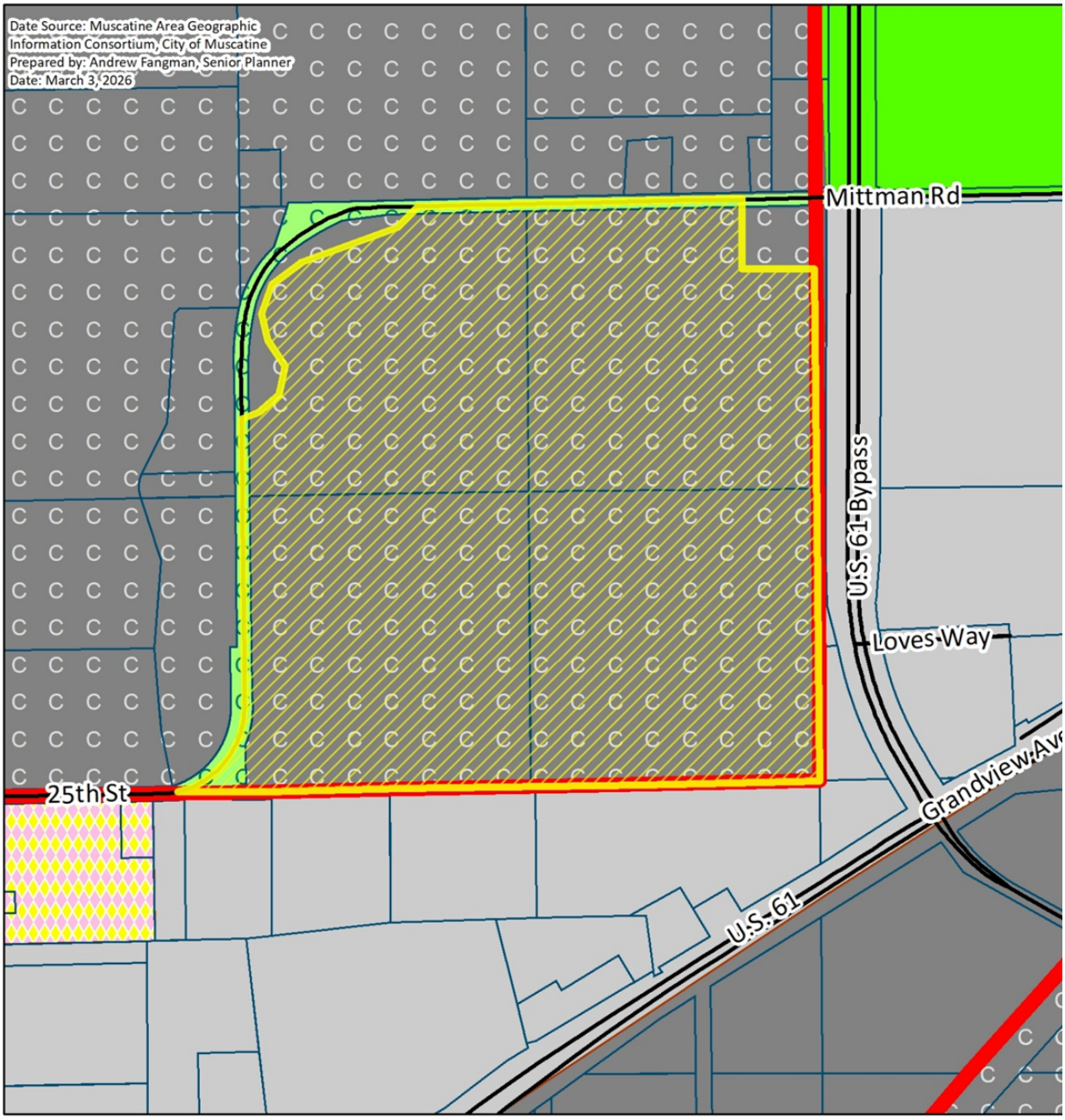
Staff recommends approval of this voluntary annexation request, with the annexed property being placed in the M-2 Zoning District.

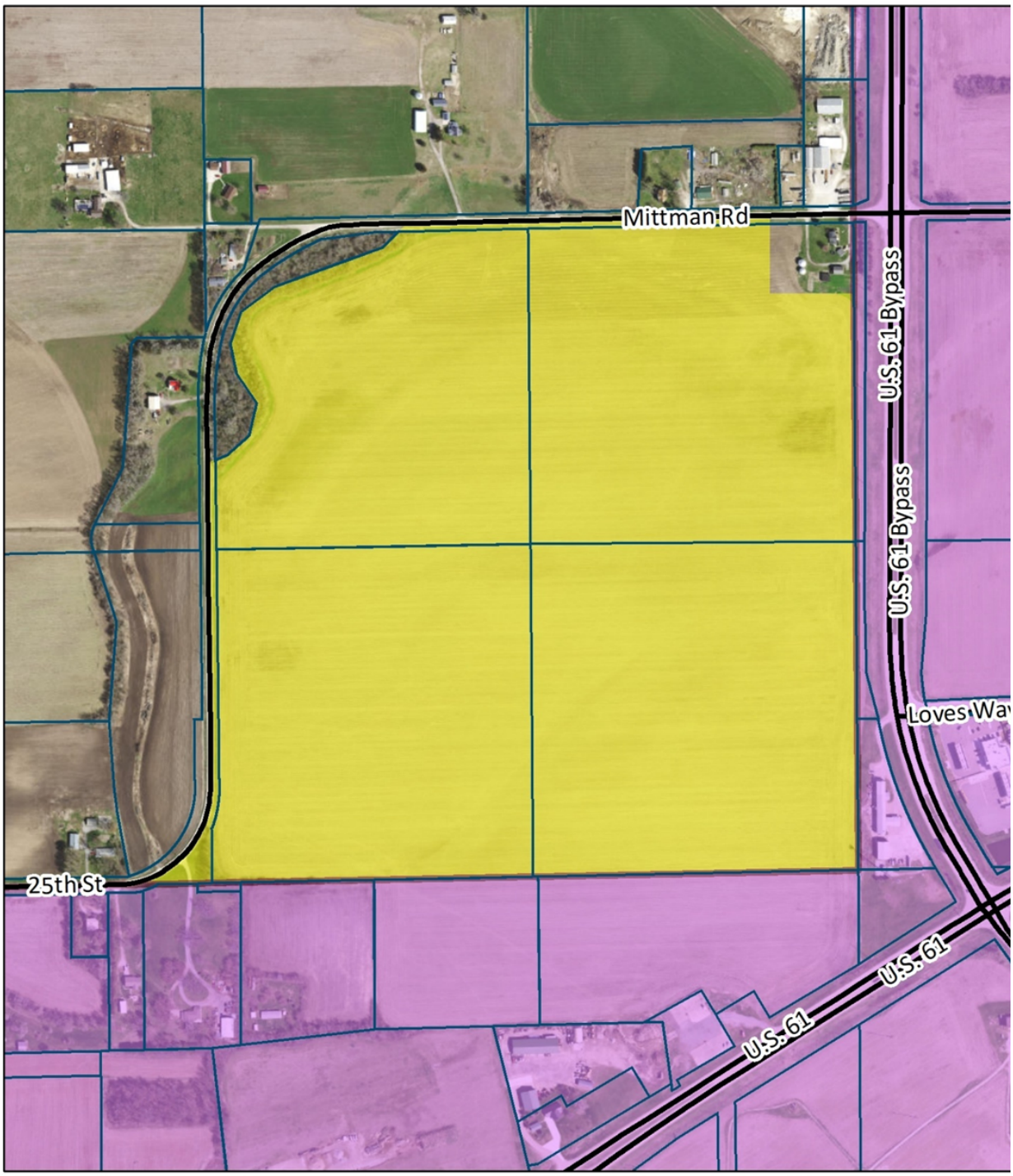
The newly adopted Comprehensive Plan directs that property annexations into the City of Muscatine should focus on areas already served by infrastructure or serviceable by the extension of public infrastructure from nearby properties; the subject area meets these criteria. Incorporating this property into the Muscatine city limits would bolster economic

development efforts, as the site would be one of only a few available parcels exceeding 40 acres that feature flat topography, nearby utilities, highway access, and industrial or commercial zoning. Having such sites available as opportunities arise is vital to the economic vitality of the community.

An M-2 zoning for the subject area is supportable because it is equivalent to current County zoning and compatible with existing zoning and land use in the area. A transition from County I-2 to City M-2 does not result in a meaningful change to the permitted activities. The existing zoning in the area is nearly all industrial, consisting of a mix of M-1 (Light Industrial) and M-2 within city limits, and I-2 to the north and west in unincorporated Muscatine County.

The Fruitland Township Board of Trustees was notified of this proposed voluntary annexation. The trustees expressed opposition to the proposal, citing the loss of both current and potential future property tax revenue. Based on FY 25–26 valuations, rollbacks, and tax rates, the annexation of these 153 acres would result in an annual revenue loss of $137.36 for Fruitland Township.


Date Source: Muscatine Area Geographic Information Consortium, City of Muscatine
Prepared by: Andrew Fangman, Senior Planner
Date: March 3, 2026
Mittman Rd
U.S. 61 Bypass
Loves Way
25th St
Grandview Ave
U.S. 61
MUSCATINE
Proposed Voluntary Annexation
Proposed Annexation Area
Existing City Limits
Parcel Lines
Existing City Zoning
AG-Agricultural
M-1 Light Industrial
M-2 General Industrial
R-1 Single-Family Residence
Existing County Zoning
C Muscatine County-Agriculture
C Muscatine County-Heavy Industrial
0 400 800 1,600 Fee



Legend

Existing City Limits

Proposed Annexation Area

Parcel Lines

0 400 800 1,600 Feet

N

CITY FINANCIAL IMPACT

Annexation and the eventual development of the subject area will increase property tax revenue.

ATTACHMENTS

1. Rezoning Ordinance (4) (2)

ORDINANCE NO. 2026-0126

AN ORDINANCE AMENDING THE ZONING ORDINANCE OF THE CITY OF MUSCATINE, IOWA (APPROXIMATELY 153.5 ACRES OF LAND LOCATED NEAR THE SOUTHWEST CORNER OF MITTMAN ROAD AND THE U.S. 61 BYPASS, TO BE DESIGNATED AS AN M-2 GENERAL INDUSTRIAL ZONING DISTRICT UPON COMPLETION OF ANNEXATION)

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA AS FOLLOWS:

Section 1. That the boundaries of the District Map, being a part of the Zoning Ordinance, which is Title Ten of the Ordinance of the City of Muscatine, Iowa, be and the same are, hereby amended to rezone the following described real estate, situated in the City and County of Muscatine, and State of Iowa, to-wit:

Commencing at the northwest corner of the southwest quarter of Section 9, Township 76 North, Range 2 west of the 5th Principal Meridian, Muscatine County, Iowa, thence North Eighty-nine Degrees (89°) Ten Minutes (10') East 830.0 Feet to the point of beginning. Beginning at said point of beginning, thence South Forty-one Degrees and Fifty-nine Minutes (41°59') West 134.5 feet; thence South Seventy-two Degrees and Thirty-one Minutes (72°31') West 469.6 feet; thence South Fifty-six Degrees and Fifty-one Minutes (56°51') West 179.2 feet; thence South Twenty-two Degrees and Twenty-seven Minutes (22°27') West 149.3 feet; thence South Sixteen Degrees and Fifty-eight Minutes (16°58') East 99.3 feet; thence South Thirty-one Degrees and Twenty-one Minutes (31°21') East 149.9 feet; thence South Fourteen Degrees and Fifty-six Minutes (14°56') West 139.7 feet; thence South Thirty-five Degrees and Twenty-five Minutes (35°25') West 110.4 feet; thence South Fifty-one Degrees and Thirty-three Minutes (51°33') West to the centerline of Mittman Road; thence southerly and southwesterly along the centerline of Mittman Road to an intersection with the centerline of 25th Street South; thence southwesterly and westerly along the centerline of 25th Street South to an intersection with the south line of Section 8, Township 76 North, Range 2 west of the 5th Principal Meridian, Muscatine County, Iowa; thence easterly along the south line of said Section 8 to an intersection with the southeast corner of Section 9, Township 76 North, Range 2 west; thence easterly along the south line of the southwest quarter of Section 9 to the southeast corner of said southwest quarter; thence northerly along the east line of said southwest quarter to the southeast corner of the northeast quarter of the northeast quarter of the southwest quarter of Section 9; thence westerly along the south line of the northeast quarter of the northeast quarter of the southwest quarter of Section 9 to southwest corner of the of the northeast quarter of the northeast quarter of the southwest quarter of Section 9; thence northerly along the west line of the northeast quarter of the northeast quarter of the southwest quarter of Section 9 to an intersection with centerline of Mittman Road; and thence westerly along the centerline of Mittman Road to the point of beginning..

Said real estate shall be rezoned from Street I-2 Heavy Industrial (Muscatine County Zoning District) to M-2 General Industrial (City of Muscatine Zoning District.

Section 2. That all ordinances or parts of ordinances in conflict herewith are hereby repealed and this Ordinance shall be in full force and effect from and after its passage and publication as provided by law.

PASSED, APPROVED, AND ADOPTED this 7th day of April, 2026.

CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA

Attest:

By_____
Dr. Brad Bark, Mayor

_____
Cinda Hilger, City Clerk

1st Reading _____
2nd Reading _____
3rd Reading _____
Publication _____

City of Muscatine

ITEM NUMBER 2026-0119

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Amy Fortenbacher, Transit Supervisor
Brian Stineman, Public Works Director

SUBJECT

Resolution to approve Federal and State Transit 2027 Consolidated Funding Application.

EXECUTIVE SUMMARY

Presented for the City Council's consideration is a resolution to approve the Consolidated Funding Application for Federal Fiscal Year 2027 (FFY27). The City of Muscatine (MuscaBus) applies annually for Federal and State Transit Funds through the Consolidated Funding Application. The funds are applied to transit's operating and capital expenses.

STAFF RECOMMENDATION

It is the recommendation of the Public Works/Transit staff to approve the ConsolidatedFunding Application.

BACKGROUND/DISCUSSION

The Iowa Department of Transportation requests that we conduct a Public Hearing and publish a public notice of the Public Hearing "approximately 30 days" in advance of the hearing for the Consolidated Funding Application. On March 3, 2026, a Public Hearing was requested, approved, and set for April 7, 2026. Transit annually applies for the Consolidated Funding to request federal operating and capital grants to fund our public transit system and to purchase one low floor mini-bus and one conversion van for FFY27. Transit also applies for a state operating grant to fund our system in this same grant application.

CITY FINANCIAL IMPACT

The City will receive $512,680.00 (please note that this is a revision from the $549,458.00 estimate provided by IowaDOT prior to the public hearing) in Federal Funding for the Federal Fiscal Year 2027 (FFY27). The contract date will be July 1, 2026 to June 30, 2027. The State

Funding for FFY27 is $330,221.00 (please note that this is a revision from the $356,537.00 estimate provided by IowaDOT prior to the public hearing). The application also includes a request for one low floor mini-bus in the amount of $229,600.00 (85% federally funded or $195,160.00, 15% locally funded or $34,440.00) and one conversion van in the amount of $106,000.00 (85% federally funded or $90,100.00, 15% locally funded or $15,900.00).

ATTACHMENTS

1. 2027 Labor Protection Agreements
2. Public Resolution 2027 at Public Hearing for Consolidated Funding Application Approval
3. 2027 Authorizing Resolution 4-1-26

MUSCATINE

1459 Washington St.
Muscatine, IA 52761-5040
(563) 263-8933
Fax (563) 263-2127

Public Works

City Transit 263-8152
Equipment Maintenance
Roadway Maintenance
Collection & Drainage
Building & Grounds
Engineering
Solid Waste
Airport

Labor Protection Agreements

The City of Muscatine - Transit (MuscaBus)
(Legal Name of Applicant)

as an applicant for federal non-urbanized area public transit funding, agrees that in the absence of a waiver by the Department of Labor, the terms and conditions of the Special Warranty Arrangement for Application to Other Than Urbanized and Over-the-Road Bus Accessibility Projects pursuant to Section 5333(b) of Title 49 of the U.S. Code, Chapter 53 (hereinafter referred to as "Warranty"), shall apply for the protection of the employees of any employer providing transportation services assisted by the Project and the employees of any other surface public transportation providers in the transportation service area of the Project. The Warranty shall be made part of the contract of assistance with the Iowa Department of Transportation and shall be binding and enforceable by and upon the parties thereto, by any covered employee or his/her representative.

Pursuant to the Department of Labor's procedures for application of the Warranty, included with this submission is a listing of all transportation providers which will be recipients of transportation assistance funded by the Project, a listing of other transportation providers in the geographic area of such Project, and any labor organization representing the employees of such providers.

Additionally, the Applicant agrees that in the absence of a waiver by the Department of Labor, the terms and conditions of the Nonunion Protective Arrangement pursuant to Section 5333(b) of Title 49 of the U.S. Code (hereinafter referred to as "Arrangement") shall apply as intended for the benefit of transit employees in the service area of the Project, who are considered third-party beneficiaries to the employee protective arrangements incorporated by reference in the grant contract between the U.S. Department of Transportation and the Iowa Department of Transportation and between the Iowa Department of Transportation and the Applicant.

I further certify that I have read and understand the terms and conditions of the Warranty, which can be found at https://www.dol.gov/agencies/olms/regs/compliance/transit/07_Special_Warranty, and of the Arrangement, which can be found at https://www.dol.gov/sites/dolgov/files/OLMS/regs/compliance/transit/Nonunion_Protective_Arrangement.pdf.

Signature

Matthew Mardesen
Print Name

City Administrator
Title

City of Muscatine
Name of Organization

April 07, 2026
Date Signed

RESOLUTION NO. 2026-0119

APPROVE ANNUAL APPLICATION FOR
STATE AND FEDERAL TRANSIT FUNDS

WHEREAS, the City Council of the City of Muscatine, Iowa has heretofore granted preliminary approval of the proposed Fiscal Year 2027 Application for State and Federal transit funds; and

WHEREAS, the proposed project is to be paid for out of funds legally available for that purpose;

NOW, THEREFORE, be it resolved by this Council that:

SECTION I: On April 7, 2026 at 6:00 p.m. in the City Council Chambers at City Hall, Muscatine, Iowa, this Council shall hold a public hearing of the plans, specifications, form of contract, and cost estimates for these proposed projects.

SECTION II: The City Council will vote on the approval of the Fiscal Year 2027 Application for State and Federal transit funding Grant.

PASSED, APPROVED, AND ADOPTED THIS 7th DAY OF APRIL 2026.

CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA

_____
Brad Bark, Mayor

ATTEST:

_____
Cinda Hilger, City Clerk

MUSCATINE

1459 Washington St.
Muscatine, IA 52761-5040
(563) 263-8933
Fax (563) 263-2127

Public Works

City Transit 263-8152
Equipment Maintenance
Roadway Maintenance
Collection & Drainage
~~Building & Grounds~~
Engineering
~~Solid Waste~~
Airport

Authorizing Resolution

We, hereby, authorize Matthew Mardesen
(Name of Authorized Signatory)

on behalf of City of Muscatine - Transit (MuscaBus)
(Legal Name of Applicant)

to apply for financial assistance as noted below and to enter into related contract(s) with the Iowa Department of Transportation.

From the State Transit Assistance Program:

1.67 % of formula funds;

$ 0 of Special Project funds

From federal funds for transit in non-urbanized areas and/or for transit serving primarily elderly persons and person with disabilities:

$ 512,680.00

From statewide federal capital assistance for transit:

$ 335,600.00

We understand acceptance of federal transit assistance involves an agreement to comply with certain labor protection provisions.

We certify that City of Muscatine - Transit (MuscaBus)
(Legal Name of Applicant)

has sufficient non-federal funds to provide required local match for capital projects and at time of delivery will have the funds to operate and maintain vehicles and equipment purchased under this project.

We request that State Transit Assistance formula funding be advanced as allowed by law, to improve transit system cash flow.

Adopted the 7th day of April, 2026

Name: City of Muscatine
(Applicant's Governing Body)

By: Matthew Mardesen
(Signature of Chief Executive Officer)

(Printed Name of Chief Executive Officer)

Title: City Administrator

Address: 215 Sycamore St, Muscatine, IA 52761

Telephone: 563-264-1550 E-mail Address: mmardesen@muscatineiowa.gov
(E-mail Address of Chief Executive Officer)

City of Muscatine

ITEM NUMBER 2026-0134

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Kevin Coon, City Engineer
Brian Stineman, Public Works Director

SUBJECT

Resolution to approve the plans and specifications for the City Parking Lot #7 Pavement Restoration Project. Public Hearing E.

EXECUTIVE SUMMARY

Presented for council consideration is a resolution to approve the plans and specifications for the City Parking #7 Lot Pavement Restoration Project.

STAFF RECOMMENDATION

Staff recommends adoption of the resolution

BACKGROUND/DISCUSSION

This project incorporates large scale pavement replacement in the drivelane and parking spaces located closest to 3rd Street, along with re-installation of the edge courses of the permeable pavers located in the second drivelane. These areas have settled significantly and have caused issues related to tripping and overall site maintenance. The project is expected to be completed by June of 2026. The project is to be done through a competitive quote process and thus does not have a letting date.

CITY FINANCIAL IMPACT

Funds are available through the remaining funds from the 2nd Street Streetscape Project.

ATTACHMENTS

1. Resolution Approving Plans and Specs City Parking Lot #7
2. FINAL PLANS
3. Parking Lot Front End Docs

RESOLUTION NO. _____

APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT, AND COST ESTIMATE FOR THE CITY PARKING LOT #7 PAVEMENT RESTORATION PROJECT

WHEREAS, there is on file in the Public Works Department a copy of the plans, specifications, form of contract, and notice to bidders for the proposed City Parking Lot #7 Pavement Restoration Project; and

WHEREAS, said plans, specifications, form of contract, and cost estimate have been examined by this Council;

NOW, THEREFORE, be it resolved by this Council that:

1. All objections to the foregoing plans, specifications, form of contract, notice to bidders, and cost estimate are overruled.

2. The foregoing plans, specifications, form of contract, and cost estimate are finally approved.

PASSED, APPROVED, AND ADOPTED THIS 7th DAY OF APRIL, 2026.

CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA

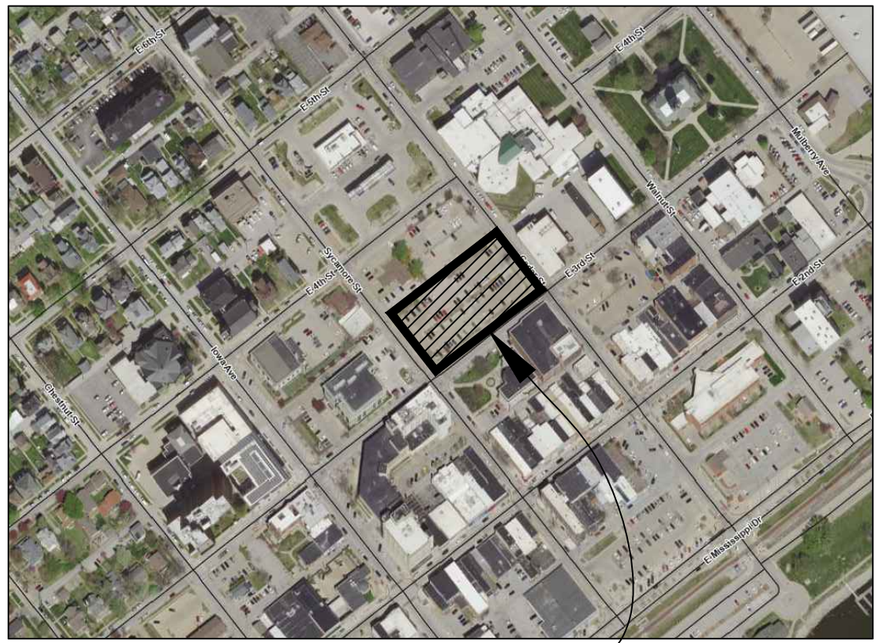
_____
Brad Bark, Mayor

ATTEST:

_____
Cinda Hilger, City Clerk

CITY HALL PARKING LOT
PAVEMENT RESTORATION
MUSCATINE, IOWA

Project Location Map



Project Area

Location Map Not To Scale

Sheet Index

A.01	TITLE SHEET
B.01	STANDARD DETAILS
C.01	ESTIMATED PROJECT QUANTITIES & NOTES
D.01	PLAN VIEW PAVERS
D.02	PLAN VIEW PARKING LOT
L.01	JOINTING & DIMENSIONS
L.02	JOINTING & DIMENSIONS

UTILITIES

THE CONTRACTOR SHALL NOTIFY IOWA ONE CALL AT 811 OR 800/292-8989 NO LESS THAN 48 HRS. IN ADVANCE OF ANY DIGGING OR EXCAVATION.

IOWA 811 ONE CALL SM

WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.

LICENSED PROFESSIONAL ENGINEER
KEVIN J. COON 26366
IOWA

SEAL

I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

_____ 20___

KEVIN J. COON, P.E. Iowa Lic. No. 26366

My license renewal date is December 31, 20___.

Pages or sheets covered by this seal:

_____

_____

_____

Date	Revision

TITLE SHEET

CITY HALL PARKING LOT

MUSCATINE

1459 Washington St.
Muscatine, Iowa 52761
(319) 351-8282
www.muscatineiowa.gov

ENGINEERING DEPT.

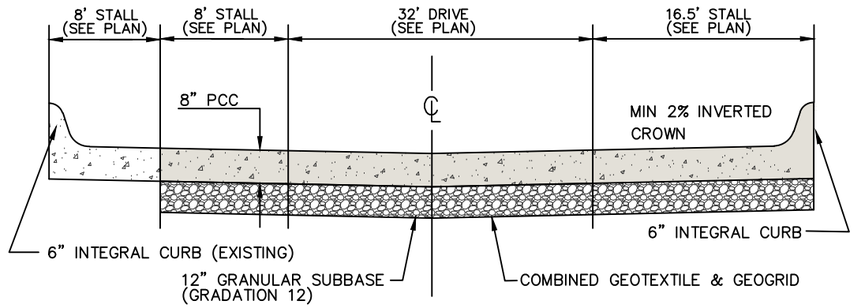
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Checked:	AAE	Sheet No:	A.01
Date:	4/2/2026		
Project No:	L-2026-01	of:	7

PAVING CONSTRUCTION NOTES

1. PAVEMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH I.D.O.T. SPECIFICATION SECTION 2301.
2. I.D.O.T. CLASS C–4 CONCRETE SHALL BE USED, UNLESS NOTED OTHERWISE.
3. PAVEMENT JOINTS SHALL CONFORM TO I.D.O.T. STANDARD ROAD PLAN PV–101.
4. SUBGRADE UNDER PROPOSED PAVEMENT SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY, TO A DEPTH OF SIX (6) INCHES. UNLESS NOTED OTHERWISE.
5. ALL SAWED PAVEMENT JOINTS SHALL BE SEALED IMMEDIATELY FOLLING THE SAW CUT ACTIVITY
6. ALL JOINTS ABUTTING EXISTING PAVEMENT SHALL BE TIED WITH ¾" REBAR 18" OC.
7. ALL SUBGRADE IS TO BE TREATED WITH GEOTEXTILE OVERLAYED WITH GEOGRID.

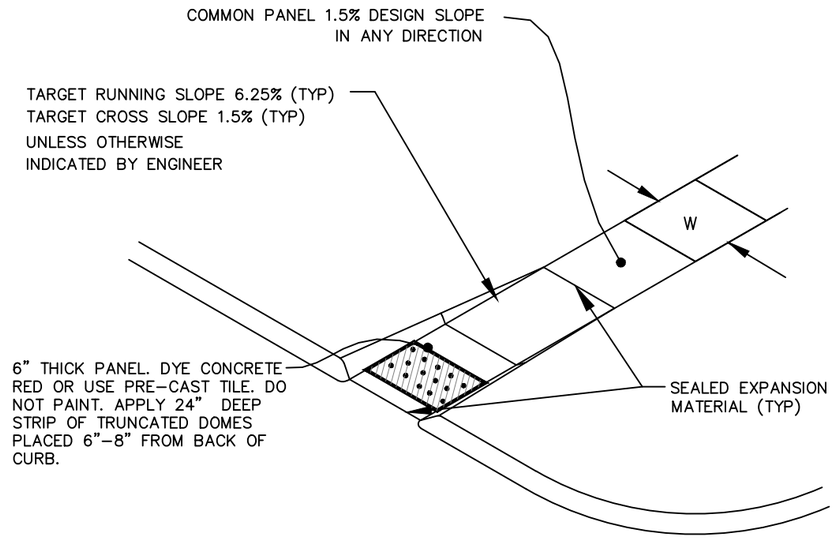
TYPICAL DRIVE/PARKING SECTION

N.T.S.



CURB DROP FOR SIDEWALK

N.T.S.



NOTE: THE PAVING CONTRACTOR SHALL PROVIDE CURB DROPS AT ALL INTERSECTIONS AS SHOWN ON THIS SHEET

Date	Revision

STANDARD DETAILS

CITY HALL PARKING LOT

MUSCATINE

1459 Washington St.
Muscatine, Iowa 52761
(319) 351-8282
www.muscatineiowa.gov

ENGINEERING DEPT.

Designed:	KJC	Scale:	N.T.S.
Drawn:	KJC		
Checked:	AAE	Sheet No:	B.01
Date:	4/2/2026		
Project No:	L-2026-01	of:	7

PROJECT QUANTITIES

ITEM NO.	SUDAS	DESCRIPTION	UNIT	ESTIMATED QUANTITIES
1	2010-E	EXCAVATION, CLASS 10	CY	295
2	2010-I	SUBGRADE TREATMENT, GEOGRID, TYPE 1	SY	758
3	2010-J	SUBBASE, MODIFIED, 12-INCH	SY	253
4	2010-XX	3/8IN CHIPS	CY	4
5	7010-A	PAVEMENT, PCC, 8-INCH	SY	758
6	7030-E	SIDEWALK, PCC, 6-INCH	SY	40
7	7030-G	DETECTABLE WARNINGS (CAST IRON)	SF	20
8	7040-H	PAVEMENT REMOVAL	SY	798
9	7080-F	PERMEABLE PAVERS, REMOVE, SALVAGE, AND REPLACE	EA	743
10	7080-F	PERMEABLE PAVERS, REPLACE (FULL BLOCK)	EA	140
11	7080-F	PERMEABLE PAVERS, REPLACE (HALF BLOCK)	EA	103

ESTIMATE REFERENCE NOTES

ITEM NO.	SUDAS	UNIT	DESCRIPTION
1	2010-E	CY	**EXCAVATION, CLASS 10** A. REFER TO SHEET D2 FOR LAYOUT. B. THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, COST TO EXCAVATE, LOAD, HAUL AND PROPERLY DISPOSE OF COMMONLY ENCOUNTERED EXCAVATED MATERIALS. **THIS ITEM IS USED FOR REMOVAL OF AGGREGATE MATERIAL UNDER EXISTING PARKING LOT**. C. MEASUREMENT SHALL BE PLAN QUANTITY UNLESS ADDITIONAL AREA IS ADDED TO THE PROJECT OR EXISTING PAVEMENT THICKNESS IS INCORRECT. D. QUANTITY IS ESTIMATED BASED ON A NOMINAL 6-INCH THICKNESS UNDER REMOVED PAVEMENT TO PROVIDE DEPTH FOR PLACEMENT OF GRANULAR SUBBASE
2	2010-I	SY	**SUBGRADE TREATMENT, GEOGRID, TYPE 1, AND GEOTEXTILE** A. ITEM SHALL BE TENSAR INTERAX FILTERGRID OR APPROVED EQUAL
3	2010-J	SY	**SUBBASE, MODIFIED, 12-INCH DEPTH** A. REFER TO SUDAS SECTION 2010; 2.04, D, 2; IOWA DOT SPECIFICATION 4121 B. QUANTITY ESTIMATE INCLUDES UP TO A MAXIMUM OF 2 FEET HORIZONTALLY OF SUBBASE BEYOND PAVEMENT EDGE. CONTRACTOR WILL NOT BE PAID FOR EXCESS SUBBASE BEYOND THE MAXIMUM STATED. ITEM ALSO INCLUDES SUBGRADE PREPARATION. MANIPULATION, COMPACTION, SHAPING, AND TRIMMING TO PREPARE FOR SUBBASE PLACEMENT AND LOADING AND HAULING OF SUBBASE. C. SUBBASE AGGREGATE SHALL BE GRADATION 12A OR 12B OR 14 ACCORDING TO DOT TABLE 4109.02-1. SEE TYPICAL SECTIONS ON DRAWING B.01. D. SUBBASE COMPACTION TESTING SHALL BE PROVIDED BY CONTRACTOR IN ACCORDANCE WITH SUDAS SECTION 2010, 3.09. E. SUBGRADE SHALL BE PROOF-ROLLED. PROOF-ROLLING MUST BE WITNESSED AND APPROVED BY THE CITY. F. THIS MATERIAL IS CONTRACTOR FURNISHED AGGREGATE USED FOR SUBBASE UNDER PCC PAVEMENT.
4	2010-XX	CY	**3/8TH CHIPS** A. 3/8IN CHIPS SHALL BE USED AS A LEVELING COURSE UNDER THE REMOVED PAVERS. B. CHIPS SHALL BE CLEAN AND THE SOURCE SHALL BE APPROVED BY CITY PRIOR TO USE.
5	7010-A	SY	**PAVEMENT, PCC, 8-INCH** A. REFER TO SHEET D.02 FOR LAYOUT, AND L.01-L.02 FOR JOINTING DETAILS. B. IOWA DOT C4 CONCRETE MIX SHALL BE USED. SUBSTITUTE MIX DESIGNS TO BE APPROVED BY CITY ENGINEER. MIXES WITH FLY ASH AND SLAG MAYBE ACCEPTABLE UPON APPROVAL. C. PAYMENT FOR THIS ITEM WILL BE SUBJECT TO LIMITATIONS OUTLINED AS FOLLOWS: a. NO PAYMENT WILL BE MADE FOR PAVEMENT REPLACEMENT OUTSIDE THE LIMITS SHOWN ON PLANS UNLESS AUTHORIZED BY CITY ENGINEER. b. COLD WEATHER AND RAIN PROTECTION IS INCIDENTAL TO PAVEMENT REPLACEMENT AND NO ADDITIONAL PAYMENT WILL BE MADE WHEN PROTECTION IS REQUIRED. SEE SECTION 7010. 3.04. c. ITEM INCLUDES QUANTITIES FOR CURB AND GUTTER SECTIONS CONNECTED TO PAVEMENT. d. ITEM INCLUDES ALL LABOR AND MATERIALS FOR INSTALLATION OF REINFORCEMENT. SEE FIGURE 7010. 11 FOR JOINT DETAILS. 8" PCC SHALL HAVE TYPE L-1, KT-1, OR BT-1 LONGITUDINAL JOINTS DEPENDING ON PAVING SEQUENCE. 8" PCC TRANSVERSE JOINTS SHALL HAVE EPOXY COATED DOWELS. e. REFER TO 1.08 FOR MEASUREMENT AND PAYMENT DESCRIPTION. D. CITY WILL PERFORM ALL PCC PAVEMENT SAMPLES AND TESTING.
6	7030-E	SY	**SIDEWALK, PCC, 6-INCH** A. INCLUDES ITEMS LISTED IN 1.08. B. SEE D.01 FOR LIMITS OF SIDEWALK PLACEMENT. C. PAYMENT WILL BE BASED ON THE ACTUAL AREA INSTALLED UP TO THE MAXIMUM LIMITS SHOWN ON THE DRAWINGS UNLESS ADDITIONAL SIDEWALK REPLACEMENT IS AUTHORIZED BY CITY ENGINEER. D. COLD WEATHER AND RAIN PROTECTION IS INCIDENTAL. NO ADDITIONAL PAYMENT WILL BE MADE WHEN REQUIRED. E. SIDEWALK SHALL BE THICKENED AT LOCATIONS OF DETECTABLE WARNING TILE INSTALLATIONS.
7	7030-G	SF	**DETECTABLE WARNINGS** A. INCLUDES ITEMS LISTED IN 1.08. B. SEE D.01 FOR LIMITS OF DETECTABLE WARNINGS. C. SEE SUDAS DETAILS FOR PLACEMENT AND REQUIREMENTS. D. NEENAH FOUNDRYS, EJ FOUNDRYS, OR APPROVED EQUAL. ITEM SHALL BE BRICK RED IN COLOR AND CAST IRON.
8	7040-H	SY	**PAVEMENT REMOVAL, CONCRETE** A. REFER TO SUDAS SECTION 7040, 1.08, H; AND 3.08. B. REMOVED CONCRETE SHALL BE SALVAGED, HAULED AND UNLOADED AT THE CITY LOT ON WASHINGTON STREET. C. PAYMENT WILL BE MADE FOR THE ACTUAL QUANTITY OF PAVEMENT REMOVED UP TO THE MAXIMUM LIMITS SHOWN ON DRAWINGS. NO PAYMENT WILL BE MADE FOR PAVEMENT REMOVED OUTSIDE THE LIMITS SHOWN ON THE DRAWINGS UNLESS AUTHORIZED BY THE CITY ENGINEER.
9	7080-F	EA	**PERMEABLE PAVERS, REMOVE, SALVAGE, AND REPLACE** A. EXISTING PAVERS SHOWN ON SHEET D.01 SHALL BE REMOVED, STOCKPILED, AND REPLACED FOLLOWING APPLICATION OF A 3/8" CLEAN CHIPS AS A LEVELING COURSE.
10	7080-F	EA	**PERMEABLE PAVERS, REPLACE (FULL BLOCK)** A. ALL ITEMS DESCRIBED UNDER PERMEABLE PAVERS, REMOVE, SALVAGE AND REPLACE APPLY TO THIS ITEM. B. REPLACEMENT BLOCKS FOR THIS ITEM ARE TO BE PROVIDED BY THE CITY. C. ALL BLOCKS REMOVED UNDER THIS ITEM ARE TO BE DELIVERED TO THE PUBLIC WORKS LOWER LOT
11	7080-F	EA	**PERMEABLE PAVERS, REPLACE (HALF BLOCK)** A. ALL ITEMS DESCRIBED UNDER PERMEABLE PAVERS, REMOVE, SALVAGE AND REPLACE APPLY TO THIS ITEM. B. REPLACEMENT BLOCKS FOR THIS ITEM ARE TO BE PROVIDED BY THE CITY. C. ALL BLOCKS REMOVED UNDER THIS ITEM ARE TO BE DELIVERED TO THE PUBLIC WORKS LOWER LOT

Date	Revision

ESTIMATED PROJECT QUANTITIES

CITY HALL PARKING LOT

MUSCATINE

1459 Washington St.
Muscatine, Iowa 52761
(319) 351-8282
www.muscatineiowa.gov

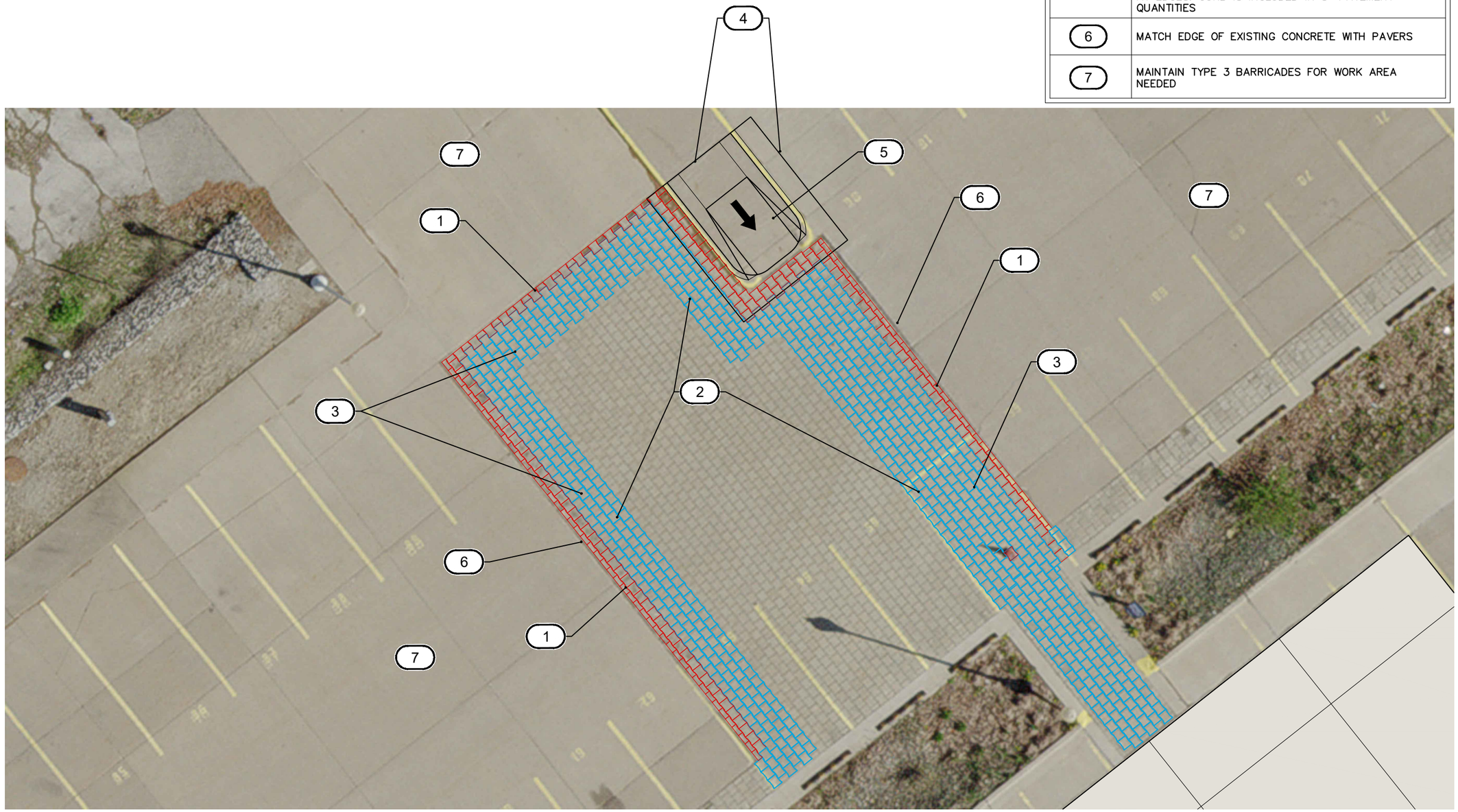
ENGINEERING DEPT.

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Drawn:	KJC		
Checked:	AAE	Sheet No:	C.01
Date:	4/2/2026		
Project No:	L-2026-01	of:	7

NOTES

1. PAVERS ARE THE PAVEDRAIN SYSTEM. INFORMATION CAN BE FOUND ON THE PAVEDRAIN WEBSITE FOR REMOVAL AND INSTALLATION DIRECTIONS.
2. INTENDED WORK IS TO BE COMPLETED AT A SEPERATE TIME FROM THE PRIMARY PAVING OPERATION.
3. OVERALL INTENTION OF THE PAVER PORTION OF THE PROJECT IS TO ELIMINATE TRIPPING HAZARDS AND REPLACE DAMAGED BLOCK.

KEYNOTES	
NUMBER	KEYNOTE
1	REMOVE PAVERS AND HAUL TO PUBLIC WORKS LOWER LOT (IN RED). REPLACE WITH OWNER PROVIDED PAVERS
2	REMOVE, SALVAGE, AND REINSTALL PAVERS (IN BLUE)
3	PLACE ⅜" CHIPS LEVELING COURSE UNDER REMOVED PAVERS.
4	SAWCUT CONCRETE, REMOVE AND HAUL TO PUBLIC WORKS LOWER LOT.
5	INSTALL 6", 5FT BY 8FT LONG ADA RAMP WITH LANDING PAD AT TOP AND CURB FLARES. TYPICAL RUNNING SLOPE OF 6.25%. MATCH EXISTING CONCRETE AT EDGES. CURB IS INCLUDED IN 8" PAVEMENT QUANTITIES
6	MATCH EDGE OF EXISTING CONCRETE WITH PAVERS
7	MAINTAIN TYPE 3 BARRICADES FOR WORK AREA NEEDED



Date	Revision

PLAN VIEW PAVERS

CITY HALL PARKING LOT

MUSCATINE
1459 Washington St.
Muscatine, Iowa 52761
(319) 351-8282
www.muscatineiowa.gov
ENGINEERING DEPT.

Designed:	KJC	Scale:	1"=10
Drawn:	KJC		
Checked:	AAE	Sheet No:	D.01
Date:	4/2/2026		
Project No:	L-2026-01	of:	7

NOTES

1. ALL STEEL TRACKED EQUIPMENT TO BE UNLOADED USING CONVEYOR BELT, TIRES, OR OTHER MEANS AS NECESSARY AS TO PROTECT EXISTING CONCRETE THAT IS TO BE LEFT IN PLACE.
2. OVERALL INTENTION OF THE CONCRETE PORTION OF THE PROJECT IS TO ELIMINATE TRIPPING HAZARDS AND REPLACE DAMAGED AND SETTLING PANELS.

KEYNOTES	
NUMBER	KEYNOTE
1	REMOVE EXISTING PAVEMENT AROUND STORMWATER AND SANITARY STRUCTURES. PROTECT DURING CONSTRUCTION. INSTALL BOXOUTS PER JOINTING PLAN WITH EXPANSION
2	REMOVE, PREP GRADE PER DETAIL, AND REPOUR CONCRETE. REMOVALS TO BE TAKEN TO THE PUBLIC WORKS LOWER LOT
3	SAWCUT CONCRETE, REMOVE AND HAUL TO PUBLIC WORKS LOWER LOT.
4	INSTALL 6", 5FT BY 8FT LONG ADA RAMP WITH LANDING PAD AT TOP AND CURB FLARES. TYPICAL RUNNING SLOPE OF 6.25%. MATCH EXISTING CONCRETE AT EDGES. CURB IS INCLUDED IN 8" PAVEMENT QUANTITIES. FILL IN CONCRETE IS INCLUDED IN SIDEWALK QUANTITIES
5	MAINTAIN TYPE 3 BARRICADES FOR WORK AREA NEEDED



Date	Revision

PLAN VIEW
PARKING LOT

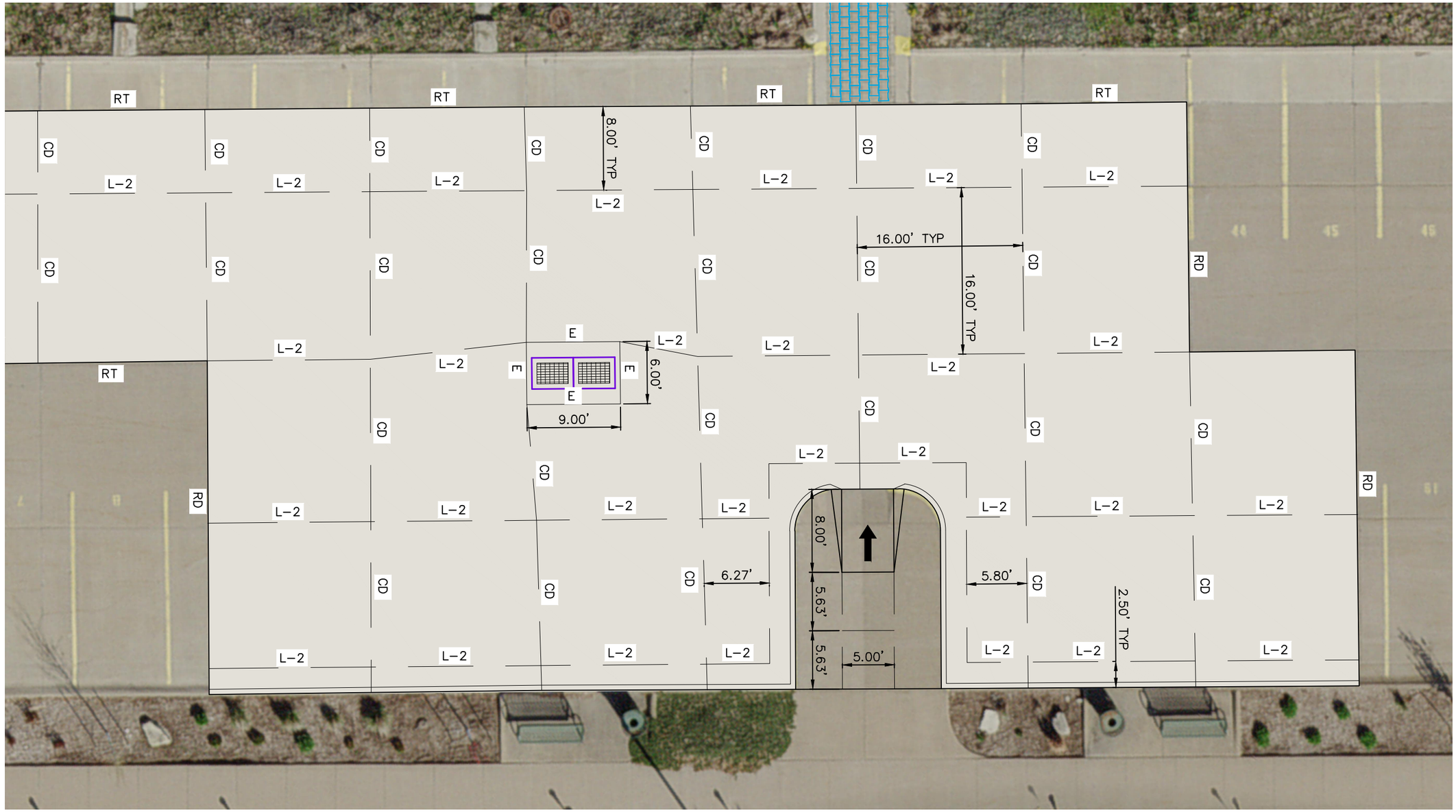
CITY HALL
PARKING LOT

MUSCATINE
1459 Washington St.
Muscatine, Iowa 52761
(319) 351-8282
www.muscatineiowa.gov
ENGINEERING DEPT.

Designed:	KJC	Scale:	1"=20
Drawn:	KJC		
Checked:	AAE	Sheet No:	D.02
Date:	4/2/2026		
Project No:	L-2026-01	of:	7

JOINTING NOTES

1. L–2 JOINTS SHALL BE #5 BAR, 36" LONG AT 30" CENTERS
2. CD JOINTS SHALL BE 1.25" SOLID DOWEL BASKETS 18" LONG ON 12" CENTERS
3. RD JOINTS SHALL BE 0.75" SOLID DOWEL 18" LONG ON 12" CENTERS
4. RT JOINTS SHALL BE #6 BAR, 24" LONG ON 30" CENTERS



Date	Revision

JOINTING & DIMENSIONS

CITY HALL PARKING LOT

MUSCATINE

1459 Washington St.
Muscatine, Iowa 52761
(319) 351-8282
www.muscatineiowa.gov

ENGINEERING DEPT.

Designed:	KJC	Scale:	1"=10
Drawn:	KJC		
Checked:	AAE	Sheet No:	L.01
Date:	4/2/2026		
Project No:	L-2026-01	of:	7

JOINTING NOTES

1. L–2 JOINTS SHALL BE #5 BAR, 36" LONG AT 30" CENTERS
2. CD JOINTS SHALL BE 1.25" SOLID DOWEL BASKETS 18" LONG ON 12" CENTERS
3. RD JOINTS SHALL BE 0.75" SOLID DOWEL 18" LONG ON 12" CENTERS
4. RT JOINTS SHALL BE #6 BAR, 24" LONG ON 30" CENTERS



Date	Revision

JOINTING & DIMENSIONS

CITY HALL PARKING LOT

MUSCATINE

1459 Washington St.
Muscatine, Iowa 52761
(319) 351-8282
www.muscatineiowa.gov

ENGINEERING DEPT.

Designed:	KJC	Scale:	1"=10
Drawn:	KJC		
Checked:	AAE	Sheet No:	L.02
Date:	4/2/2026		
Project No:	L-2026-01	of:	7

MUSCATINE CITY HALL PARKING LOT PATCHING

CITY OF MUSCATINE
MUSCATINE, IOWA

PREPARED BY:

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

Kevin J. Coon, PE — 4-2-2026 DATE

REGISTRATION NO. 26366

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2027

PAGES OR SHEETS COVERED BY THIS SEAL: ALL

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Instructions to Quoters.....5

Form of Proposal.....9

Quote Form.....11

Form of Contract 16

Performance, Payment & Maintenance Bond.....18

Special Provisions.....22

Detailed Specifications 32

Estimated Reference Notes..... ITEM-1 to ITEM-11

PUBLIC NOTICE

NOTICE OF TIME AND PLACE OF PUBLIC HEARING ON THE MUSCATINE CITY HALL PARKING LOT PATCHING PROJECT

Public Notice is hereby given that the City Council of the City of Muscatine, Iowa will hold a Public Hearing to hear objections to the plans, specifications, form of contract, and cost estimate for the proposed MUSCATINE CITY HALL PARKING LOT PATCHING PROJECT on March 3, 2026 at 5:30 p.m. in the City Council Chambers at Muscatine City Hall. All interested persons are invited to attend and will be given an opportunity to be heard relative to this matter.

_____

Matthew Mardesen, City Administrator

INSTRUCTIONS TO QUOTERS

TABLE OF CONTENTS

01 - QUOTER'S KNOWLEDGE

02 - QUOTER'S QUALIFICATIONS

03 - METHOD OF QUOTING

04 - SUBMISSION OF QUOTES

05 - EVALUATION OF QUOTES

06 - SALES TAX EXEMPTION

07 - DISQUALIFICATION OF QUOTERS

08 - QUANTITIES

09 - COMPLETION DATE

10 - GUARANTEE

11 - QUESTIONS AND ADDENDA

12 - PRECONSTRUCTION CONFERENCE

13 - SUB-CONTRACTORS

IB-01 QUOTER'S KNOWLEDGE

The proposed sewer lining improvements are located throughout the City of Muscatine, Iowa. Contractor shall familiarize themselves with the specifications and existing conditions, which will affect the construction. Specific items relating to the preparation of quotes and the submission thereof are listed elsewhere in these Contract Documents. It will be the responsibility of the Contractor to examine all Contract Documents and to make a personal examination of the job site and the physical conditions, which may affect quoting and performance under the contract.

IB-02 QUOTER'S QUALIFICATIONS

The Contractor may be required to satisfy the Owner as to his integrity, experience, equipment, personnel and financial ability to perform the work.

If the successful Contractor is a non-Iowa corporation, he shall submit proof to the Owner, prior to the execution of the contract, of authorization by the Secretary of State to do business in Iowa.

IB-03 METHOD OF QUOTING

Contractor shall submit unit prices as required for the work covered by the specifications. Prices shall cover complete work and include all costs incidental thereto, unless otherwise indicated.

The Engineer may change location, quantities, and combination of units as required during the progress of construction.

Contractor will be computed using quantities shown in the proposal. The project quantities are approximate and only for comparison of quotes.

In the event of discrepancies between unit prices and unit price extensions listed in Contractor's proposal, unit prices shall govern.

IB-04 SUBMISSION OF QUOTES

The quotes shall be submitted in a sealed envelope to the City of Muscatine Public Works Office at 1459 Washington Street. Quotes shall be opened at 2 p.m. April 21st.

The quote shall be signed by a legally authorized representative of the Contractor.

Do not submit plans and/or specifications with the quote.

IB-05 EVALUATION OF QUOTES

The Owner may consider such factors as quote price, experience and responsibility of Contractor, and similar factors in determining which quote deems to be the best interest of the Owner for the project.

The Owner reserves the right to reject any quote if the evidence submitted by, or investigation of, such Contractor fails to satisfy the Owner that such Contractor is properly qualified to carry out the obligations of the agreement and to complete the work contemplated therein.

The Owner may reject any or all quotes, waive informalities or technicalities in any quote, and accept that quote which it deems to be in its best interest.

IB-06 SALES TAX EXEMPTION

The City of Muscatine will provide prime contractor and all subcontractors for this project with a certificate of exemption and an authorization letter which can be presented to material suppliers which will allow the contractor/subcontractor to purchase building materials used in this contract exempt from Iowa sales tax and any applicable local option sales tax and school infrastructure local option tax. Complete information on qualifying materials and supplies can be found at www.state.ia.us/tax, the Iowa Department of Revenue and Finance (IDRF) web site. Links can be found in the Business Taxes and Local Government categories. Quotes submitted for this project should be submitted on this basis.

IB-07 DISQUALIFICATION OF QUOTERS

Attention of quoters is directed to Section 553.23 of the current Code of Iowa, regarding unlawful activity in making public contracts.

IB-8 QUANTITIES

Estimated quantities shown on the proposal form are provided solely for the Contractor's information and shall not be construed as being necessarily accurate or complete.

Contractors must satisfy themselves of the accuracy of the estimated quantities in the quote tabulation included in the Form of Proposal by examination of the site and a review of the contract documents including addenda. After quotes have been submitted, the Contractor shall not assert that there was a misunderstanding concerning the quantities of work or of the nature of the work to be done. This contract is an indefinite quantity, indefinite delivery contract. See special provisions SP-19 Description of Contract.

IB-9 COMPLETION DATE

All work must be completed as described in special provisions.

Should the Contractor fail to complete the construction work within the time specified, they shall reimburse the Owner for any extra engineering and inspection costs deemed necessary by the Owner necessitated by the continuance of the work beyond the time herein specified for completion. Such extra engineering costs, not included in the liquidated damages, charged to the Contractor as hereby agreed to in no way constitute a penalty, but said costs represent additional expense to the Owner caused by delayed prosecution of the work by the Contractor. Such additional expense will be deducted from the monies due the Contractor at the time of final payment, recognizing any extensions of time granted by the Owner.

IB-10 GUARANTEE

The Contractor shall furnish a maintenance bond, subject to the Owner's approval, guaranteeing to keep all work constructed under this contract in good repair for a period of two (2) years from date of final acceptance. Good repair shall be construed to mean free from any functional or structural deterioration, except that caused from ordinarily reasonable use and acts of God, which appreciably reduces the effectiveness of the improvement for the purpose intended or any serious departure from the standards or original construction.

If, in the opinion of the Owner, such deterioration takes place, they shall so notify the Contractor in writing to the address or email address given in the Contractor's proposal and send a copy of such notice to the bonding company, which notice is mutually agreed to be sufficient and adequate. If the Contractor shall not proceed to remedy such defects as are called to his attention in the notice within twenty (20) days, the City shall cause the repairs to be made as it deems best, and the entire cost thereof shall be paid by the Contractor or his sureties unless the City and Contractor mutually agree to extend the 20 days due to extenuating circumstances.

IB-11 QUESTIONS AND ADDENDA

If any person contemplating submitting a quote for the proposed work, material or equipment is in doubt as to the true meaning of any part of the plans, specifications or other Contract Documents, he may request an interpretation thereof. The person submitting the request will be responsible for its prompt delivery.

Questions concerning interpretation or intent of the Contract Documents should be directed to:

Kevin Coon, P.E.
Public Works Building
1459 Washington Street
Muscatine, IA 52761
Phone 563-263-8933
Fax 563-263-2127

Any oral interpretation given will be valid only if confirmed by written addendum. Information obtained from an officer, agent, or employee of the Owner shall not affect the risks or obligations assumed by the Contractor or relieve him from fulfilling any of the conditions of the contract.

The Owner reserves the right to revise or amend the Contract Documents, prior to the date set for receipt of quotes. Such revisions and amendments, if any, will be announced by an addendum or addenda to the Contract Documents.

Copies of such addenda as may be issued will be furnished to all holders of specifications.

Contractors are required to acknowledge receipt of all addenda by listing such addenda in the Form of Proposal.

IB-12 PRECONSTRUCTION CONFERENCE

Following the award of contract, the Contractor and his subcontractors will be required to attend a preconstruction meeting at a time and place designated by the Owner.

IB-13 SUB-CONTRACTORS

The prime contractor shall submit to the Owner, in writing, the names of all sub-contractors along with the items and amounts to be sublet. The prime contractor shall not sublet more than 49% of the estimated dollar amount of the contract. All sub-contractors shall be approved by the Owner before work is begun.

CITY HALL PARKING LOT PAVEMENT RESTORATION PROJECT, CITY OF MUSCATINE - MUSCATINE, IOWA

FORM OF PROPOSAL

NOTE TO QUOTERS: Please use the Form of Proposal included in the contract documents of the specifications. Separate copies of this proposal will be furnished to Contractors upon application to the Owner.

Name of Quoter _____

Address of Quoter _____

TO: The Honorable Mayor
and City Council
City Hall
Muscatine, Iowa 52761

QUOTER:

B. The undersigned Contractor, having examined the contract documents, specifications, Notice to Contractors, the location and sites of the proposed work, the nature of the work to be done, extent and condition of existing pavements affecting, or affected by the proposed work, and being fully advised as to the extent and character of the work and all existing local conditions, relative to construction difficulties, hazards, labor transportation, hauling, trucking, plant sites, and other factors affected by or affecting the work covered by this proposal as outlined in the specifications and plans, including Addenda _____ and _____.

HEREBY PROPOSES to furnish all materials, tools, appliances, plant and equipment; and to perform all necessary labor required for the complete construction of the City Hall Parking Lot Pavement Restoration Project for the City of Muscatine, Iowa and all items incidental thereto and to perform all work in accordance with the plans and specifications for said project, including all items to expense and profit, as follows:

1. To do all extra work which may be required to complete the work contemplated at unit price or lump sum, to be agreed upon prior to starting such work.

2. To execute the form of contract with ten (10) days after Notice of Award is received and to complete all work as stated in the special provisions.

C. Attached, hereto, is an affidavit in proof that the undersigned Contractor has not colluded with any person in respect to this quote or any other quotes or the submitting of quotes for the

contract for which this quote is submitted.

D. The undersigned Contractor states that this proposal is made in conformity with the Contract Documents and agrees that, in the event of any discrepancies or differences between any conditions of his proposal and the Contract Documents prepared by the Owner, the provisions of the latter shall prevail.

E. The total quote is based on estimated quantities, and the actual amount will be adjusted in accordance with the final determination of quantities involved. In case of error in the item totals as quoted, the proper figure based on the estimated quantities and the unit prices as quoted shall govern, and contractor's quote will be modified as needed to reflect this revised cost.

F. The undersigned Contractor is prepared to submit the Quoters' Qualifications statement upon request.

Firm: _____

By: _____

_____
(Title)

_____
(Business Address)

(Seal - if quote is by a corporation)

QUOTE FORM

ITEM NO.	SUDAS	Description	EST. QTY.	UNIT	UNIT PRICE $	TOTAL PRICE $
1	2010-E	EXCAVATION CLASS 10	295	CY		
2	2010-I	SUBGRADE TREATMENT, GEOGRID, TYPE 1	758	SY		
3	2010-J	SUBBASE, MODIFIED, 12-INCH	253	SY		
4	2010-XX	3/8-INCH CHIPS	4	CY		
5	7010-A	PAVEMENT, PCC, 8-INCH	758	SY		
6	7030-E	SIDEWALK, PCC, 6-INCH	40	SY		
7	7030-G	DETECTABLE WARNINGS	20	SF		
8	7040-H	PAVEMENT REMOVAL	798	SY		
9	7080-F	PERMEABLE PAVERS, REMOVE, SALVAGE, AND REPLACE	743	EA		
10	7080-F	PERMEABLE PAVERS, REPLACE (FULL BLOCK)	120	EA		
11	7080-F	PERMEABLE PAVERS, REPLACE (HALF BLOCKS)	103	EA		
		TOTAL QUOTE				

Contractor_____ Date_____

NONCOLLUSION AFFIDAVIT OF PRIME QUOTER

EXHIBIT A

State of _____)
) ss.
County of _____)

_____, being first duly sworn, deposes and says that:

(1) He is the _____ of _____, the Quoter that has submitted the attached quote:

(2) He is fully informed respecting the preparation and contents of the attached quote and of all pertinent circumstances respecting such quote;

(3) Such quote is genuine and is not a collusive or sham quote;

(4) Neither the said Quoter nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Quoter, firm or person to submit a collusive or sham quote in connection with the Contract for which the attached quote has been submitted or to refrain from quoting in connection with such Contract, or has in any manner, directly or indirectly, sought by agreement, or collusion or communication or conference with any other Quoter, firm, or person to fix the price or prices in the attached quote or of any Quoter, or, to fix any, overhead, profit, or cost element of the quote price or the quote price of any other Quoter, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against the City of Muscatine or any person interested in the proposed Contract; and

(5) The price or prices quoted in the attached Quote are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Quoter or any of its agents, representatives, owners, employees, or parties in interest, including this affiant (Signed)

(Signed) _____

_____
Title

Subscribed and sworn to before me
this _____ day of _____, 2025.

_____

_____
Title

My commission expires _____

NONCOLLUSION AFFIDAVIT OF SUBCONTRACTOR
EXHIBIT B

State of _____)
) ss.
County of _____)

_____, being first duly sworn, deposes and says that:

(1) He is the _____ of _____ _____, hereinafter referred to as the "Subcontractor";

(2) He is fully informed respecting the preparation and contents of the Subcontractor's Proposal submitted by the Subcontractor to _____, the Contractor for certain work in connection with the _____ Contract pertaining to the _____ Project in Muscatine, Iowa;

(3) Such Subcontractor's Proposal is genuine and is not a collusive or sham quote;

(4) Neither the Subcontractor nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Quoter, firm or person to submit a collusive or sham quote in connection with the Contract for which the attached quote has been submitted or to refrain from quoting in connection with such Contract, or has in any manner, directly or indirectly, sought by agreement, or collusion or communication or conference with any other Quoter, firm, or person to fix the price or prices in the attached quote or of any Quoter, or, to fix any overhead, profit, or cost element of the quote price or the quote price of any other Quoter, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against the City of Muscatine or any person interested in the proposed Contract; and

(5) The price or prices quoted in the Subcontractor's Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Quoter or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

(Signed) _____

_____
Title

Subscribed and sworn to before me
this _____ day of _____, 2025

_____

_____
Title

My commission expires _____

STATEMENT OF QUOTER'S QUALIFICATIONS

EXHIBIT C

All questions must be answered and the data given must be clear and comprehensive. The statement must be notarized. If necessary, questions may be answered on separate attached sheets. The Contractor may submit any additional information he desires.

1. Name of Quoter.

2. Permanent main office address, including City, State & Zip Code.

3. When organized.

4. If a corporation, where incorporated.

5. How many years have you engaged in construction work under your present firm or trade name?

6. Contracts on Hand: Show each contract and the anticipated dates of completion.

7. General character of work performed by your company.

8. Have you ever failed to complete any work awarded to you? If so, where and why?

9. Have you ever defaulted on a contract? If so, where and why?

10. List the more important contracts recently completed by you, stating the final dollar value for each, and the month and year completed.

11. Will you upon request, fill out a detailed financial statement and furnish any other information that may be required by the City of Muscatine?

12. (a) Have you ever been a party to or otherwise involved in any action or legal proceeding involving matters related to race, color, nationality or religion? If so, give full details.

    (b) Have you ever been accused of discrimination based upon race, color, nationality, or religion in any action or legal proceeding, including any proceeding related to any Federal Agency? If so, give full details.

13. The undersigned hereby authorizes and requests any person, firm or corporation to furnish any information requested by the City of Muscatine in verification of the recitals comprising this Statement of Quoter's Qualifications.

Dated at _____ this _____ of _____
_____, 2025.

_____
(Name of Quoter)

By _____

Title _____

State of _____)
) ss
County of _____)

_____ being duly sworn, deposes and says that he is the _____ of _____ _____ and that the answers to the foregoing questions and all statements therein contained are true and correct.

Subscribed and sworn to before me this _____ day of _____, 2025.

_____
Notary Public

My Commission expires _____.

FORM OF CONTRACT

THIS AGREEMENT, made and entered into this ____ day of _____, 2026, by and between the City of Muscatine, Iowa, party of the first part, hereinafter referred to as the "City" and _____, party of the second part, hereinafter referred to as the "Contractor".

WITNESSETH

That the Contractor and the City for the consideration stated herein mutually agree as follows:

ARTICLE 1: Statement of work. The Contractor shall furnish all supervision, technical, personnel, labor, materials, machinery, tools, equipment, and services, including utility and transportation services and perform all work required for the construction of the City Hall Parking Lot Pavement Restoration Project, Muscatine, Iowa, all in strict accordance with the Contract Documents prepared by the City of Muscatine, Department of Public Works.

ARTICLE 2. The City will pay the Contractor for the performance of the contract, from funds legally available for that purpose. Payment will be made on the basis of an estimate equal to ninety-seven (97) percent of the contract price, including materials, subject to approval of the City. The balance of the three (3) percent due to the Contractor will be made no earlier than thirty (30) days from the final acceptance of said work by the City.

The Contractor shall provide surety bond in the amount of 100% of the contract and shall guarantee the maintenance of the improvement for a period of two (2) years after its completion and acceptance by the City.

Completion Dates: All work shall be completed by May 31st, 2026.

The contract amount is $_____.

ARTICLE 3. Contract: The executed contract documents shall consist of the following:

a. This Agreement
b. Addenda Numbers _____
c. Contract Documents
d. Instruction to Quoters
e. Signed Copy of Proposal
f. Special Provision
g. Detailed Specifications Referenced
h. Standard Specifications Referenced
i. General Conditions

THIS AGREEMENT, together with other documents enumerated in this ARTICLE 3, with said other documents are as fully a part of the contract as if hereto attached or herein repeated, forms the contract between the parties hereto. In the event that any provision in any component part of this contract conflicts with any provision of any other component part, the provision of the component part first enumerated in this ARTICLE 3 shall govern, except as otherwise specifically stated.

IN WITNESS WHEREOF, the parties thereto have caused this AGREEMENT to be executed in triplicate original copies on the date and year first above written.

CITY OF MUSCATINE, IOWA

By: Mayor Brad Bark

ATTEST:
By: Matthew Mardesen, City Administrator

_____
CONTRACTOR

_____
BY

_____
TITLE

ATTEST:_____

_____
TITLE

SURETY BOND NO. _____

PERFORMANCE, PAYMENT, AND MAINTENANCE BOND

KNOW ALL BY THESE PRESENTS:

That we, _____, as Principal (hereinafter the "Contractor" or "Principal" and _____, as Surety are held and firmly bound unto _____ , as Obligee (hereinafter referred to as "the Jurisdiction"), and to all persons who may be injured by any breach of any of the conditions of this Bond in the penal sum of _____ dollars ($_____), lawful money of the United States, for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, legal representatives and assigns, jointly or severally, firmly by these presents.

The conditions of the above obligations are such that whereas said Contractor entered into a contract with the Jurisdiction, bearing date the _____ day of _____, _____, hereinafter the "Contract") wherein said Contractor undertakes and agrees to construct the following described improvements:

CITY HALL PARKING LOT PAVEMENT RESTORATION PROJECT

and to faithfully perform all the terms and requirements of said Contract within the time therein specified, in a good and workmanlike manner, and in accordance with the Contract Documents. Provided, however, that one year after the date of acceptance as complete of the work under the above referenced Contract, the maintenance portion of this Bond shall continue in force but the penal sum for maintenance shall be reduced to the sum of _____DOLLARS ($_____), which is the cost associated with those items shown on the proposal and in the Contract that require a maintenance bond period in excess of one year.

It is expressly understood and agreed by the Contractor and Surety in this bond that the following provisions are a part of this Bond and are binding upon said Contractor and Surety, to-wit:

1. PERFORMANCE: The Contractor shall well and faithfully observe, perform, fulfill, and abide by each and every covenant, condition, and part of said Contract and Contract Documents, by reference made a part hereof, for the above referenced improvements, and shall indemnify and save harmless the Jurisdiction from all outlay and expense incurred by the Jurisdiction by reason of the Contractor's default of failure to perform as required. The Contractor shall also be responsible for the default or failure to perform as required under the Contract and Contract Documents by all its subcontractors, suppliers, agents, or employees furnishing materials or providing labor in the performance of the Contract.

2. PAYMENT: The Contractor and the Surety on this Bond hereby agreed to pay all just claims submitted by persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the performance of the Contract on account of which this Bond is given, including but not limited to claims for all amounts due for labor, materials, lubricants, oil, gasoline, repairs on machinery, equipment, and tools, consumed or used by the Contractor or any subcontractor, wherein the same are not satisfied out of the portion of the contract price the Jurisdiction is required to retain until completion of the improvement, but the Contractor and Surety shall not be liable to said persons, firms, or corporations unless the claims of said claimants against said portion of the contract price shall have been established as provided by law. The Contractor and Surety hereby bind themselves to the obligations and conditions set forth in Chapter 573 of the Iowa Code, which by this reference is made a part hereof as though fully set out herein.

3. MAINTENANCE: The Contractor and the Surety on this Bond hereby agree, at their own expense:

A. To remedy any and all defects that may develop in or result from work to be performed under the Contract within the period of _____ year (s) from the date of acceptance of the work under the Contract, by reason of defects in workmanship or materials used in construction of said work;

B. To keep all work in continuous good repair; and

C. To pay the Jurisdiction's reasonable costs of monitoring and inspection to assure that any defects are remedied, and to repay the Jurisdiction all outlay and expense incurred as a result of Contractor's and Surety's failure to remedy any defect as required by this section.

4. GENERAL: Every Surety on this Bond shall be deemed and held bound, any contract to the contrary notwithstanding, to the following provisions:

A. To consent without notice to any extension of time to the Contractor in which to perform the Contract;

B. To consent without notice to any change in the Contract or Contract Documents, which thereby increases the total contract price and the penal sum of this bond, provided that all such changes do not, in the aggregate, involve an increase of more than 20% of the total contract price, and that this bond shall then be released as to such excess increase; and

C. To consent without notice that this Bond shall remain in full force and effect until the Contract is completed, whether completed within the specified contract period, within an extension thereof, or within a period of time after the contract period has elapsed and the liquidated damage penalty is being charged against the Contractor.

D. That no provision of this Bond or of any other contract shall be valid that limits to less that five years after the acceptance of the work under the Contract the right to sue on this Bond.

E. That as used herein, the phrase "all outlay and expense" is not to be limited in any way, but shall include the actual and reasonable costs and expenses incurred by the Jurisdiction including interest, benefits, and overhead where applicable. Accordingly, "all outlay and expense" would include but not be limited to all contract or employee expense, all equipment usage or rental, materials, testing, outside experts, attorneys fees (including overhead expenses of the Jurisdiction's staff attorneys), and all costs and expenses of litigation as they are incurred by the Jurisdiction. It is intended the Contractor and Surety will defend and indemnify the Jurisdiction on all claims made against the Jurisdiction on account of Contractor's failure to perform as required in the Contract and Contract Documents, that all agreements and promises set forth in the Contract and Contract Documents, in approved change orders, and in this Bond will be fulfilled, and that the Jurisdiction will be fully indemnified so that it will be put into the position it would have been in had the Contract been performed in the first instance as required.

In the event the Jurisdiction incurs any "outlay and expense" in defending itself against any claim as to which the Contractor or Surety should have provided the defense, or in the enforcement of the promises given by the Contractor in the Contract, Contract Documents, or approved change orders, or in the enforcement of the promises given by the Contractor and Surety in this Bond, the Contractor and Surety agree that they will make the Jurisdiction whole for all such outlay and expense, provided that the Surety's obligation under this bond shall not exceed 125% of the penal sum of this bond.

In the event that any actions or proceedings are initiated regarding this Bond, the parties agree that the venue thereof shall be _____ County, State of Iowa. If legal action is required by the Jurisdiction to enforce the provisions of this Bond or to collect the monetary obligation incurring to the benefit of the Jurisdiction, the Contractor and the Surety agree, jointly, and severally, to pay the Jurisdiction all outlay and expense incurred therefor by the Jurisdiction. All rights, powers, and remedies of the Jurisdiction hereunder shall be cumulative and not alternative and shall be in addition to all rights, powers, and remedies given to the Jurisdiction, by law. The Jurisdiction may proceed against surety for any amount guaranteed hereunder whether action is brought against the Contractor or whether Contractor is joined in any such action(s) or not.

NOW THEREFORE, the condition of this obligation is such that if said Principal shall faithfully perform all the promises of the Principal, as set forth and provided in the Contract, in the Contract Documents, and in this Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect.

When a work, term, or phrase is used in this Bond, it shall be interpreted or construed first as defined in this Bond, the Contract, or the Contract Documents; second, if not defined in the Bond, Contract, or Contract Documents, it shall be interpreted or construed as defined in applicable provisions of the Iowa Code; third, if not defined in the Iowa Code, it shall be interpreted or construed according to its generally accepted meaning in the construction industry; and fourth, if it has no generally accepted meaning in the construction industry, it shall be interpreted or construed according to its common or customary usage.

Failure to specify or particularize shall not exclude terms or provisions not mentioned and shall not limit liability hereunder. The Contract and Contract Documents are hereby made a part of this Bond.

Project No. _____

(CON'T – PERFORMANCE, PAYMENT, AND MAINTENANCE BOND)

PRINCIPAL:

_____
Contractor

By _____
Signature

_____
Title

SURETY:

_____
Surety Company

By _____
Signature Attorney-in-Fact Officer

_____
Printed Name of Attorney-in-Fact Officer

_____
Company Name

_____
Company Address

_____
City, State, Zip Code

_____
Company Telephone Number

FORM APPROVED BY:

_____
Attorney for Jurisdiction

NOTE:

1. **All signatures on this performance, payment, and maintenance bond must be original signatures in ink; copies, facsimile, or electronic signatures will not be accepted.**
2. **This bond must be sealed with the Surety's raised, embossing seal.**
3. **The Certificate or Power of Attorney accompanying this bond must be valid on its face and sealed with the Surety's raised, embossing seal.**
4. **The name and signature of the Surety's Attorney-in-Fact/Officer entered on this bond must be exactly as listed on the Certificate or Power of Attorney accompanying this bond.**

SPECIAL PROVISIONS
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SP-01 FORM OF DETAILED SPECIFICATIONS

The Detailed Specifications are of the abbreviated or outline type and the Contractor must supply omitted words or phrases by interference. Omissions of words or phrases such as "the contractor shall", "in conformance with", "shall be", "as noted on the plans", "according to the plans", "a", "an", "the", and "all" are intentional.

SP-02 DEFINITIONS

OWNER:	City of Muscatine, Iowa which is the Party of the First Part in the accompanying contract, acting through its authorized representatives, and referred to in these proceedings as "City" or "Owner".
ENGINEER:	A City Engineer of Muscatine, Iowa, or his authorized representative.
INSPECTOR:	The authorized representative of the Owner, assigned to the detailed inspection of the work or materials therefore, and to such other duties as may be delegated to him in these specifications.
CONTRACTOR:	The Party of the Second Part in the accompanying contract for the improvement covered by these specifications or his authorized representative.
SUBCONTRACTOR:	Any person, firm, or corporation who has, with the approval of the Owner, contracted with the Prime Contractor to execute and perform in his stead all, or any part, of the contract.
SPECIFICATIONS:	The documents that set forth manner in which the proposed work is to be accomplished, which have been prepared by the Department of Public Works and approved by the Owner, official copies of which are now on file with the City Clerk.
PLANS:	Drawings that may indicate manner, materials, or requirements of this contract and are made a part of the Contract as if bound into the specifications.

SP-03 NOTICE TO PROCEED

The Contractor shall not commence work before receiving written notice to proceed and must begin within twenty (20) days after such notice.

SP-04 MAINTENANCE AND CONTROL OF TRAFFIC

The Contractor shall conduct his work as to assure the least possible obstruction to access by the residents along the project. Suitable access shall mean a roadway of sufficient width, free from ruts, potholes and mud holes, and capable of carrying emergency traffic without damage to the vehicles. When access must be denied due to construction, the Contractor shall provide suitable access within 24 hours after responsible construction is completed. Whenever construction is stopped due to inclement weather, weekends, holidays or other reasons, suitable access shall be provided for all property owners.

Emergency vehicles shall be provided access at all times.

The Contractor shall maintain all equipment within the gross weight limits as licensed by the State of Iowa. Damage to existing sealcoat or concrete streets as a result of excessive loads shall be the Contractor's responsibility to repair.

All open excavations, machinery, material or other items on the project that could constitute a hazard to the travelling public shall be marked by lighted barricades to ensure the safety of the public.

The Contractor shall furnish the name and telephone number of at least one individual who shall be responsible and available 24/7 for maintaining project signs and barricades at night, weekends and any time workers are not present.

SP-05 COPIES OF PLANS & SPECIFICATIONS

After award of contract, the Owner will furnish the Contractor three (3) sets of contract documents. Additional sets will be available upon request. Paper plans may be provided at the Contractor's request.

SP-06 RIGHT-OF-WAY

All construction activity will be on rights-of-way provided by Owner.

SP-07 CONSTRUCTION FACILITIES

Limited storage space for materials and equipment will be available within portions of the right-of-way provided for construction.

All additional storage areas used or proposed by the contractor will be subject to approval.

The Contractor will arrange for any utilities required for construction facilities, and all expense will be borne by the Contractor. No utilities or facilities are required by the City for this contract.

SP-08 INSURANCE

The Contractor shall purchase and maintain throughout the construction period, insurance in the following minimum requirements, and the coverage must be written in a company that has a Best's rating of B+ or better:

(1) Worker's compensation insurance including Employer's Liability and Occupation disease covering all Iowa employees for statutory Iowa benefits who perform any of the obligations assumed by the Contractor under the contract. The policy will contain broad form all states endorsement.

(2) Comprehensive General Liability, including independent contractors, completed operations and products, contractual liability, broad form property damage, personal injury, and X, C, and U coverage; coverages must meet the following limits. Deductibles on bodily injury are not acceptable:

COVERAGE	MINIMUM LIMITS
Bodily Injury or Death	$1,000,000 each occurrence $2,000,000 aggregate
Property Damage	$1,000,000 each occurrence
Combined Single Limit	$1,000,000 each occurrence
Umbrella Liability Coverage	$2,000,000 Total

(3) Comprehensive General Automobile liability insurance on all self-propelled vehicles not covered under general liability and used in connection with the Contract, whether owner, non-owner, or hired:

COVERAGE	MINIMUM LIMITS
Bodily Injury or Death	$1,000,000 each occurrence
Property Damage	$1,000,000 each occurrence
Option: Combined Single Limit	$1,000,000 each occurrence

The Owner shall have the right at any time to require public liability insurance and property damage liability insurance greater than those required in the above paragraphs. In any such event, the additional premium or premiums payable solely as the result of such additional insurance shall be the City's responsibility to pay.

Any reductions in limits or coverages or exceptions to the insurance requirements can be made if requested in writing and mutually agreed to.

The Contractor shall furnish to the Owner, Certificates of Insurance evidencing compliance with the foregoing requirements before commencing any operations under this contract. (These Certificates shall contain a provision that the coverage afforded under the policies will not be canceled or materially changed until at least thirty (30) days prior written notice has been given to the Owner and Engineer).

SP-09 CONTRACT TERMINATION

Provisions contained in Chapter 573A Code of Iowa providing for the termination of contracts in construction of public improvements when construction is stopped because of national emergency shall apply to and be a part of this contract and binding on all parties including subcontractors and sureties upon any bond given or filed in connection therewith.

SP-10 CODES AND STANDARDS

a. Comply with all applicable laws, 2025 SUDAS, building and construction codes, and requirements of governmental agencies under those jurisdiction work is being performed; fees for permits and licenses shall be paid by Contractor.

b. Unless specifically noted to the contrary, conform with and test in accordance with applicable sections of latest revisions of codes and standards listed in Detailed Specifications.

c. Conflicts:

1. Between referenced codes and standards: code or standard establishing more stringent

requirements shall be followed.

2. Between referenced codes and standards and specifications and/or plans: one establishing more stringent requirements shall be followed.

3. Between specifications and plans: plans shall govern.

d. All work included under this Contract shall be done in accordance with the Occupational Safety and Health Act of 1970 (Williams-Steiger Act) as amended and enforced by the governmental authority responsible for the local enforcement of the Act. Enforcement and responsibility for fulfilling this provision of the specifications shall rest solely with the contractor, his superintendents, and his foreman, and in no way shall rest with the Owner or the Engineer.

e. All work included under this contract shall be done in accordance with the Secretary of Labor's Safety and Health Standards established under PL 31-54.

SP-11 MATERIAL TEST AND CERTIFICATION

Material tests or certification will be required on all materials incorporated in the project. Such testing and certification costs shall be paid for by the Contractor. Two (2) copies of the test results or certification should be filed with the Engineer prior to the material usage.

SP-12 PAYMENT

Separate payment will be made for only those items specifically listed in the proposal. Payment will be made for the quantities of work completed.

SP-13 COORDINATION OF CONSTRUCTION BY THE CONTRACTOR

Coordinate work with other contractors, Owner, MPW, and Engineer to assure orderly and expeditious progress of work.

Select order of work and establish schedule of working hours for construction, subject to approval of Owner and Engineer.

Maintain existing water systems, sewer systems, gas systems, electrical utilities, highways and railroads in substantially continuous operation during construction, unless specifically permitted otherwise by Engineer or other authority.

Perform work hazardous to operation of existing water systems, sewer systems, gas systems, electrical utilities, railroads and highways, or which will require interruption of service, at times specifically approved by Owner and Engineer, or authority in charge of specific utility or service involved.

The Contractor shall be responsible for giving advance notice to all public and private utility

companies of his work and use all necessary precautions to prevent damage to all utilities. The Contractor shall be held responsible for all damages and will bear the cost of any repairs or damages caused by his neglect.

Make any temporary connections necessary for maintaining service during course of work and continued operation of sewer system at Contractor's expense.

Make temporary connections in workmanlike manner; avoid hazards to personnel or service.

Remove temporary connections after permanent connections are made.

Schedule construction to minimize interruptions to utility service or use of street barricades and detours.

SP-14 SANITARY FACILITIES

Sanitary facilities shall be provided by Contractor for use of all construction personnel, including those of other contractors, for the duration of the project, as follows:

Facilities shall consist of chemical units, complete with weather-tight enclosure adequately ventilated, and equipped with latching door.

Chemical units shall be maintained weekly or at lesser periods if determined necessary. Chemical units shall be in accordance with the rules and regulations of the locality of the project (state, county or city).

Contractor shall furnish toilet paper for the chemical units and shall replenish supply whenever required.

Sanitary facilities remain property of the Contractor and, upon completion of the work, shall be removed from the site.

SP-15 MINOR WORK

Any minor work not specifically mentioned in the specifications or shown on the plans but obviously necessary for the proper completion of the work shall be considered as being a part of and included in the contract and shall be executed in the proper manner and the contractor shall **not** be entitled to extra or additional compensation for same.

SP-16 SITE CLEANUP

The Contractor shall be responsible for removal of all debris, dirt, and dust remaining at the project site, which is the result of the various construction operations. The final cleanup of the project site must be completed to the satisfaction of the Owner and Engineer before final payment will be made.

SP-17 FINAL INSPECTION AND ACCEPTANCE

The Contractor shall notify the Engineer when work is considered to be complete and ready for final inspection.

The Engineer, after determining that the work is ready for final inspection and giving ten (10) days notice to the Contractor, will make final inspection and tests he deems necessary to determine that provisions of the specifications are satisfied.

The Owner will not accept work or make final payment to the Contractor until the Engineer has certified that the work of the Contractor is complete and in conformance with the specifications.

SP-18 LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

The Contractor assumes full responsibility for the safekeeping of all materials and equipment and for all unfinished work until final acceptance by the Owner, and if any of it be damaged or be destroyed from any cause, he shall replace it at his own expense.

The Contractor shall indemnify and save harmless the Owner against any liens for nonpayment of his bills in connection with the contract work. The Contractor shall furnish the Owner satisfactory evidence that all persons who have done work or furnished materials, equipment, or service of any type under this contract have been fully paid prior to the acceptance of the work by the Owner.

Contractor will indemnify, defend, keep and save harmless, Owner, its agents, officials and employees against all suits or claims that may be based on bodily injury to persons or damage to property of others, or personal injury including libel and slander that is the result of an error, omission or negligent act of Contractor or any person employed by the Contractor, sub-contractor or any person employed by the Contractor, sub-contractor or agent of either.

SP-19 DESCRIPTION OF CONTRACT

This contract is for the lining of sewer pipes at multiple locations within the City of Muscatine. This project will operate based on an indefinite quantity, indefinite delivery task order contract. There is an estimated $125,000.00 worth of work to be completed by May 31, 2026. While it is unknown as to the exact number of locations and quantities, locations and estimated quantities have been provided to aid in the quoting process.

SP-20 DESCRIPTION AND COMPLETION OF WORK

The proposed improvements consist replacing and relaying permeable pavers along with replacing a significant amount of parking lot pavement in the City Hall parking lot for the City of Muscatine. Said work also includes two sidewalk ramps. It is to be understood that

the quantities given are estimated quantities and that payment is based upon units of work satisfactorily completed, multiplied by the contract unit prices.

All work on this project, shall be completed on or before May 31, 2026. Liquidated damages shall be $200.00 per day for days used after May 31, 2026. If any additional work is added to the contract, additional days will be added accordingly.

SP-21 LIMITATIONS OF OPERATIONS AND ACCESS

The Contractor shall conduct the work so as to create a minimum amount of inconvenience to traffic. Work shall be staged so that either the pavers area or the primary parking lane area is open in order to accommodate the Farmers Market. Every effort shall be made to maintain access to all businesses and residences.

SP-22 CITY SIGNS

The Contractor shall be responsible for providing notice to the Street Maintenance Supervisor or his representative of any street signs or traffic control signs that will conflict with construction operations. The Street Department shall remove and collect said signs. The City will replace them when construction is complete.

Without proper notification the Contractor shall be responsible for the cost associated with the replacement of City signs which will be deducted from the monthly pay application.

Payment for this work shall be considered incidental to this contract.

SP-23 GENERAL PARKING REQUIREMENTS

The Contractor shall place temporary “No Parking” signs for the project as necessary. These signs may be obtained from the Public Works Department at 1459 Washington Street. The Contractor shall be responsible for providing standards and placing the signs on each day’s work, not less than twenty four (24) hours before work commences, and removing them after work has been completed on that segment of the program or for that day. The cost of erecting and maintaining said signs shall be considered incidental to this contract.

If, after proper no parking notice has been given, parked cars are still interrupting construction operations, the Engineer or his representative may authorize additional measures to be taken. All temporary “No Parking” signs must be placed twenty four (24) hours prior to their effective time in order for police enforcement to occur.

The Contractor shall photograph the placement of the temporary “No Parking” as well as a means of documenting the date and time in the photo.

SP-24 FINAL CLEANUP

Before final acceptance of the work, the Contractor shall remove all unused material and rubbish from the site of the work, clean out intakes, catch basins and manholes of all debris

within the project limits, remedy any objectionable conditions the Contractor may have created on private property, and leave the right-of-way in a clean condition. The Contractor shall not make any agreement, which allows salvaged or unused material to remain on private property without prior approval of Engineer.

All ground occupied by the Contractor in connection with the work shall be restored. Restoration shall include appropriate smoothing to its original condition and may include making the area suitable for cultivation and, where vegetation has been disturbed, sodding of the area. All material removed from the work site due to final cleaning shall become the property of the Contractor, except for clean concrete which can go to the Washington Street storage lot.

Final cleanup shall be subject to approval of the Engineer and in accordance with applicable regulations.

CITY HALL PARKING LOT PAVEMENT RESTORATION PROJECT

PART 1 GENERAL

1.01 SUMMARY

A. The intent of this work is to provide replacement pavement and permeable pavers for the Muscatine City Hall Parking Lot. The current condition of said parking lot has multiple trip hazards and settling. The end goal of the project is to have an extended-life pavement free of hazards to the public.

PART 2 EXECUTION

3.01 PREPARATION

A. All prep work for construction shall be done in accordance with SUDAS section 7010.

3.04 FIELD QUALITY CONTROL

A. Testing – City Inspectors shall test concrete, subgrade, subbase, and any and all other items herein the contract in accordance with SUDAS 2025.

3.05 CLEANING AND RESTORATION

A. General Clean Up - At completion of the work, the Contractor shall remove rubbish, debris, dirt, equipment and excess material from site. The Contractor shall also clean and restore adjacent surfaces soiled by and during course of the work and shall immediately clean any track-out upon notice.

PART 3 DELIVERABLES AND PAYMENTS

4.01 MEASUREMENT

A. Measurement shall be done per SUDAS standards for the item unless otherwise noted in the Estimate Reference Notes.

4.02 ACCEPTANCE

A. Defective Work – Within sixty (60) days of the final delivery, the Engineer will notify the Contractor of any defective work. Defective work (if any) will be corrected by the Contractor within sixty (60) days of receipt of this written notification.

4.03 PAYMENTS

A. Pay Estimates - Pay estimates will be submitted on a regularly scheduled basis to the Engineer by the Contractor.

B. Approval of Quantities - The Engineer shall review the quantities submitted by the Contractor, and shall immediately inform the Contractor of its certification or disallowing of any quantities submitted for payment. If the quantities of work in question by the Engineer can't be immediately resolved to the satisfaction of both parties, the pay estimate shall move forward without those quantities included. Said denied quantities may be resolved and submitted on the next pay estimate.

END OF SECTION

ESTIMATE REFERENCE NOTES			
ITEM NO.	SUDAS	UNIT	DESCRITION
1	2010-E	CY	EXCAVATION, CLASS 10
			A. REFER TO SHEET D2 FOR LAYOUT. B. THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, COST TO EXCAVATE, LOAD, HAUL AND PROPERLY DISPOSE OF COMMONLY ENCOUNTERED EXCAVATED MATERIALS. THIS ITEM IS USED FOR REMOVAL OF AGGREGATE MATERIAL UNDER EXISTING PARKING LOT. C. MEASUREMENT SHALL BE PLAN QUANTITY UNLESS ADDITIONAL AREA IS ADDED TO THE PROJECT OR EXISTING PAVEMENT THICKNESS IS INCORRECT. D. QUANTITY IS ESTIMATED BASED ON A NOMINAL 6-INCH THICKNESS UNDER REMOVED PAVEMENT TO PROVIDE DEPTH FOR PLACEMENT OF GRANULAR SUBBASE
2	2010-I	SY	SUBGRADE TREATMENT, GEOGRID, TYPE 1, AND GEOTEXTILE
			A. ITEM SHALL BE TENSAR INTERAX FILTERGRID OR APPROVED EQUAL
3	2010-J	SY	SUBBASE, MODIFIED, 12-INCH DEPTH
			A. REFER TO SUDAS SECTION 2010; 2.04, D, 2; IOWA DOT SPECIFICATION 4121 B. QUANTITY ESTIMATE INCLUDES UP TO A MAXIMUM OF 2 FEET HORIZONTALLY OF SUBBASE BEYOND PAVEMENT EDGE. CONTRACTOR WILL NOT BE PAID FOR EXCESS SUBBASE BEYOND THE MAXIMUM STATED. ITEM ALSO INCLUDES SUBGRADE PREPARATION. MANIPULATION, COMPACTION, SHAPING, AND TRIMMING TO PREPARE FOR SUBBASE PLACEMENT AND LOADING AND HAULING OF SUBBASE. C. SUBBASE AGGREGATE SHALL BE GRADATION 12A OR 12B OR 14 ACCORDING TO DOT TABLE 4109.02-1. SEE TYPICAL SECTIONS ON DRAWING B.01. D. SUBBASE COMPACTION TESTING SHALL BE PROVIDED BY CONTRACTOR IN ACCORDANCE WITH SUDAS SECTION 2010, 3.09. E. SUBGRADE SHALL BE PROOF-ROLLED. PROOF-ROLLING MUST BE WITNESSED AND APPROVED BY THE CITY. F. THIS MATERIAL IS CONTRACTOR FURNISHED AGGREGATE USED FOR SUBBASE UNDER PCC PAVEMENT.
4	2010-XX	CY	3/8TH CHIPS
			A. 3/8IN CHIPS SHALL BE USED AS A LEVELING COURSE UNDER THE REMOVED PAVERS. B. CHIPS SHALL BE CLEAN AND THE SOURCE SHALL BE APPROVED BY CITY PRIOR TO USE.
5	7010-A	SY	PAVEMENT, PCC, 8-INCH

			A. REFER TO SHEET D.02 FOR LAYOUT, AND L.01-L.02 FOR JOINTING DETAILS. B. IOWA DOT C4 CONCRETE MIX SHALL BE USED. SUBSTITUTE MIX DESIGNS TO BE APPROVED BY CITY ENGINEER. MIXES WITH FLY ASH AND SLAG MAYBE ACCEPTABLE UPON APPROVAL. C. PAYMENT FOR THIS ITEM WILL BE SUBJECT TO LIMITATIONS OUTLINED AS FOLLOWS: a. NO PAYMENT WILL BE MADE FOR PAVEMENT REPLACEMENT OUTSIDE THE LIMITS SHOWN ON PLANS UNLESS AUTHORIZED BY CITY ENGINEER. b. COLD WEATHER AND RAIN PROTECTION IS INCIDENTAL TO PAVEMENT REPLACEMENT AND NO ADDITIONAL PAYMENT WILL BE MADE WHEN PROTECTION IS REQUIRED. SEE SECTION 7010. 3.04. c. ITEM INCLUDES QUANTITIES FOR CURB AND GUTTER SECTIONS CONNECTED TO PAVEMENT. d. ITEM INCLUDES ALL LABOR AND MATERIALS FOR INSTALLATION OF REINFORCEMENT. SEE FIGURE 7010. 11 FOR JOINT DETAILS. 8" PCC SHALL HAVE TYPE L-1, KT-1, OR BT-1 LONGITUDINAL JOINTS DEPENDING ON PAVING SEQUENCE. 8" PCC TRANSVERSE JOINTS SHALL HAVE EPOXY COATED DOWELS. e. REFER TO 1.08 FOR MEASUREMENT AND PAYMENT DESCRIPTION. D. CITY WILL PERFORM ALL PCC PAVEMENT SAMPLES AND TESTING.
6	7030-E	SY	SIDEWALK, PCC, 6-INCH
			A. INCLUDES ITEMS LISTED IN 1.08. B. SEE D.01 FOR LIMITS OF SIDEWALK PLACEMENT. C. PAYMENT WILL BE BASED ON THE ACTUAL AREA INSTALLED UP TO THE MAXIMUM LIMITS SHOWN ON THE DRAWINGS UNLESS ADDITIONAL SIDEWALK REPLACEMENT IS AUTHORIZED BY CITY ENGINEER. D. COLD WEATHER AND RAIN PROTECTION IS INCIDENTAL. NO ADDITIONAL PAYMENT WILL BE MADE WHEN REQUIRED. E. SIDEWALK SHALL BE THICKENED AT LOCATIONS OF DETECTABLE WARNING TILE INSTALLATIONS.
7	7030-G	SF	DETECTABLE WARNINGS
			A. INCLUDES ITEMS LISTED IN 1.08. B. SEE D.01 FOR LIMITS OF DETECTABLE WARNINGS. C. SEE SUDAS DETAILS FOR PLACEMENT AND REQUIREMENTS. D. NEENAH FOUNDRYS, EJ FOUNDRYS, OR APPROVED EQUAL. ITEM SHALL BE BRICK RED IN COLOR AND CAST IRON.
8	7040-H	SY	PAVEMENT REMOVAL, CONCRETE
			A. REFER TO SUDAS SECTION 7040, 1.08, H; AND 3.08. B. REMOVED CONCRETE SHALL BE SALVAGED, HAULED AND UNLOADED AT THE CITY LOT ON WASHINGTON STREET. C. PAYMENT WILL BE MADE FOR THE ACTUAL QUANTITY OF PAVEMENT REMOVED UP TO THE MAXIMUM LIMITS SHOWN ON DRAWINGS. NO PAYMENT WILL BE MADE FOR PAVEMENT REMOVED OUTSIDE THE LIMITS SHOWN ON THE DRAWINGS UNLESS AUTHORIZED BY THE CITY ENGINEER.
9	7080-F	EA	PERMEABLE PAVERS, REMOVE, SALVAGE, AND REPLACE
			A. EXISTING PAVERS SHOWN ON SHEET D.01 SHALL BE REMOVED, STOCKPILED, AND REPLACED FOLLOWING APPLICATION OF A 3/8" CLEAN CHIPS AS A LEVELING COURSE.
10	7080-F	EA	PERMEABLE PAVERS, REPLACE (FULL BLOCK)

			A. ALL ITEMS DESCRIBED UNDER PERMEABLE PAVERS, REMOVE, SALVAGE AND REPLACE APPLY TO THIS ITEM. B. REPLACEMENT BLOCKS FOR THIS ITEM ARE TO BE PROVIDED BY THE CITY. C. ALL BLOCKS REMOVED UNDER THIS ITEM ARE TO BE DELIVERED TO THE PUBLIC WORKS LOWER LOT
11	7080-F	EA	PERMEABLE PAVERS, REPLACE (HALF BLOCK)
			A. ALL ITEMS DESCRIBED UNDER PERMEABLE PAVERS, REMOVE, SALVAGE AND REPLACE APPLY TO THIS ITEM. B. REPLACEMENT BLOCKS FOR THIS ITEM ARE TO BE PROVIDED BY THE CITY. C. ALL BLOCKS REMOVED UNDER THIS ITEM ARE TO BE DELIVERED TO THE PUBLIC WORKS LOWER LOT

END OF SECTION

City of Muscatine

ITEM NUMBER 2026-0133

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Kevin Coon, City Engineer
Brian Stineman, Public Works Director

SUBJECT

Resolution to approve the plans and specifications for the West Hill Sewer Separation Phase 6E Project. Public Hearing F.

EXECUTIVE SUMMARY

Presented for council consideration is a resolution to approve the plans and specifications for the West Hill Sewer Separation Phase 6E Project.

STAFF RECOMMENDATION

Staff recommends adoption of the resolution.

BACKGROUND/DISCUSSION

West Hill Phase 6E is the final phase of the neighborhood separation portion of the West Hill Sewer Separation Project. There are improvements to the Papoose Creek Lift Station that need to be made that will be a separate project, but will not disturb city streets. The West Hill Phase 6E scope includes new sanitary sewer, new storm sewer, new roadway, and portions of new water main. The work area includes Logan Street from the Newell Avenue intersection to the Climer Street intersection, Climer Street between Logan Street and Lucas Street, Maiden Lane between Newell Avenue and Broadway Street, Lucas Street in front of the Greenwood Cemetery Chapel, Fletcher Avenue between Logan Street to a point in front of 306 Fletcher (underground work only, no roadway repaving), and various smaller backyard areas along the West Hill corridor. The project is expected to be completed in late November of 2028. The letting date is April 24th. Total construction cost is estimated to be $8,822,313.00.

CITY FINANCIAL IMPACT

Funds are available for this project through the State Revolving Fund and the Local Option Sales Tax.

ATTACHMENTS

1. Resolution Approving Plans and Specs West Hill Phase 6E
2. 6E-Drawings_Final_3-30-26
3. ProjectManual - West Hill Area Phase 6E - Final 03-30-2026

RESOLUTION NO. ___2026-0133_____

APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT, AND COST ESTIMATE FOR PHASE 6 E OF THE WEST HILL SEWER SEPARATION PROJECT

WHEREAS, there is on file in the Public Works Department a copy of the plans, specifications, form of contract, and notice to bidders for the proposed Phase 6 E of the West Hill Sewer Separation Project; and

WHEREAS, said plans, specifications, form of contract, and cost estimate have been examined by this Council;

NOW, THEREFORE, be it resolved by this Council that:

1. All objections to the foregoing plans, specifications, form of contract, notice to bidders, and cost estimate are overruled.

2. The foregoing plans, specifications, form of contract, and cost estimate are finally approved.

3. Date for Receipt of Bids is set for April 24, 2026 at 2:00 pm

PASSED, APPROVED, AND ADOPTED THIS 7th DAY OF APRIL, 2026.

CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA

_____
Brad Bark, Mayor

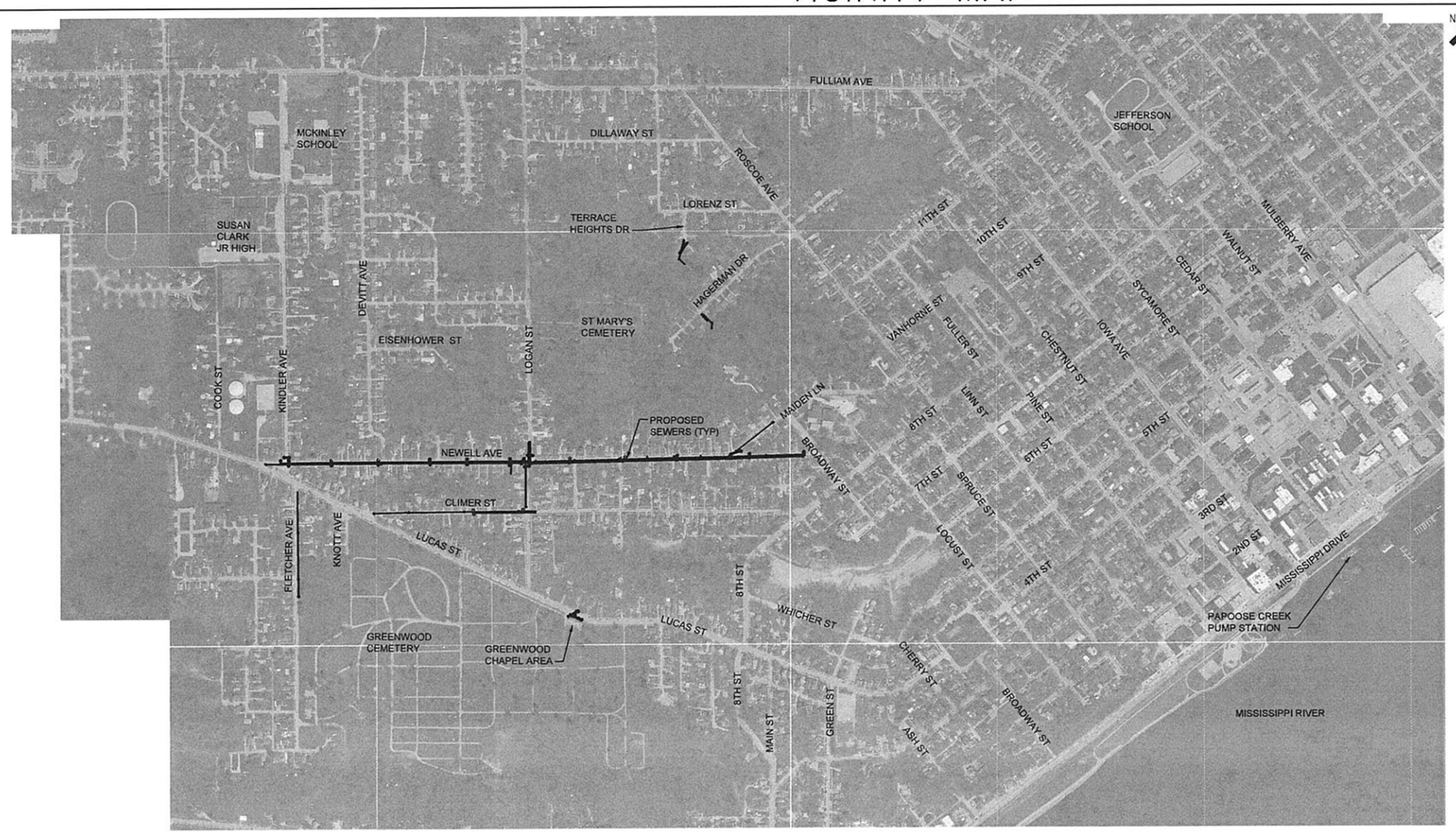
ATTEST:

_____
Cinda Hilger, City Clerk

WEST HILL AREA
SANITARY AND STORM SEWER
SEPARATION - PHASE 6E

CITY OF MUSCATINE, IOWA

VICINITY MAP





LOCATION MAP

IOWA ONE CALL
1-800-292-8989
www.iowaonecall.com
811

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

PATRICK M. JOHNSON P26366 IOWA — LICENSED PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT REVISION 0 TO THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.
Patrick M. Johnson 3-30-26
PATRICK M. JOHNSON 03-30-2026
MY LICENSE RENEWAL DATE IS 12-31-27
PAGES OR SHEETS COVERED BY THIS SEAL
C.17 - C.19, G.01, J.01
ALL B, D, L, R, S, W

KARMEN K. HEIM P17381 IOWA — LICENSED PROFESSIONAL ENGINEER

I HEREBY CERTIFY THAT REVISION 0 TO THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.
Karmen K. Heim 3-30-26
KARMEN K. HEIM 03-30-2026
MY LICENSE RENEWAL DATE IS 12-31-26
PAGES OR SHEETS COVERED BY THIS SEAL
ALL A, M, MSA, MWM, RR
C.01 - C.16, CE.01, G.03 - G.04, J.02, J.03

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

COVER SHEET

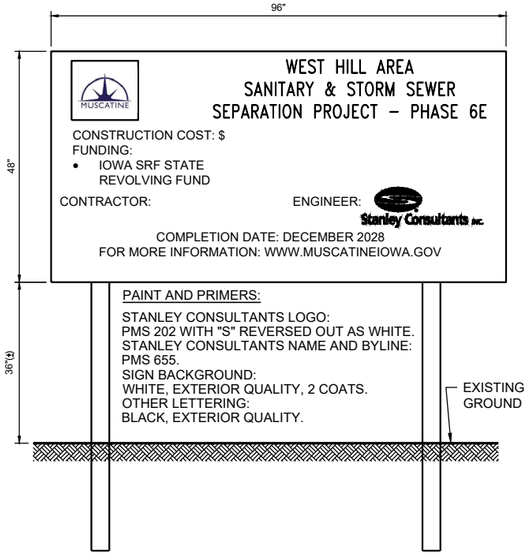
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE AS NOTED
NO. 17660.60.40
REV. 0
A.01

CADD D3-R5

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MWM.00	WATER MAIN ELEVATION DATA	
R.00	DEMOLITION OVERALL KEY PLAN	
R.01	DEMOLITION PLAN	LOGAN STREET & NEWELL AVENUE
R.02	DEMOLITION PLAN	NEWELL AVENUE - SHEET 2
R.03	DEMOLITION PLAN	NEWELL AVENUE - SHEET 3
R.04	DEMOLITION PLAN	NEWELL AVENUE - SHEET 4
R.05	DEMOLITION PLAN	NEWELL AVENUE - SHEET 5
R.06	DEMOLITION PLAN	CLIMER STREET - SHEET 1
R.07	DEMOLITION PLAN	CLIMER STREET & FLETCHER AVENUE
R.08	DEMOLITION PLAN - FLETCHER	AVENUE & GREENWOOD CHAPEL
R.09	DEMOLITION PLAN - HAGERMAN	MAIDEN & TERRACE HEIGHTS DRIVE
R.10	DEMOLITION PLAN	MAIDEN LANE
RR.00	OVERALL EROSION CONTROL	& KEY PLAN
RR.01	PLAN - SHEET 1	LOGAN STREET
RR.02	PLAN - SHEET 2	NEWELL AVENUE
RR.03	PLAN - SHEET 3	NEWELL AVENUE
RR.04	PLAN - SHEET 4	NEWELL AVENUE
RR.05	PLAN - SHEET 5	NEWELL AVENUE
RR.06	PLAN - SHEET 6	NEWELL AVENUE
RR.07	PLAN - SHEET 7	NEWELL AVENUE
RR.08	PLAN - SHEET 8	NEWELL AVENUE
RR.09	PLAN - SHEET 9	NEWELL AVENUE
RR.10	PLAN - SHEET 10	NEWELL AVENUE
RR.11	PLAN - SHEET 11	CLIMER STREET
RR.12	PLAN - SHEET 12	CLIMER STREET
RR.13	PLAN - SHEET 13	CLIMER STREET
RR.14	PLAN - SHEET 14	FLETCHER AVENUE
RR.15	PLAN - SHEET 15	FLETCHER AVENUE
RR.16	PLAN - SHEET 16	GREENWOOD CHAPEL AREA
RR.17	PLAN - SHEET 17	HAGERMAN DRIVE
RR.18	PLAN - SHEET 18	TERRACE HEIGHTS DRIVE
RR.19	PLAN - SHEET 19	IOWA AVENUE
RR.21	PLAN - SHEET 20	MAIDEN LANE
S.00	ADA SIDEWALK KEY PLAN	
S.01	ADA SIDEWALK IMPROVEMENTS	KINDLER AVE & NEWELL AVE
S.02	ADA SIDEWALK IMPROVEMENTS	DEVITT AVE & NEWELL AVE
S.03	ADA SIDEWALK IMPROVEMENTS	SIEGEL ST & NEWELL AVE
S.04	ADA SIDEWALK IMPROVEMENTS	LOGAN ST & NEWELL AVE
S.05	ADA SIDEWALK IMPROVEMENTS	NIEDIG ST, HIGH ST & NEWELL AVE
S.06	ADA SIDEWALK IMPROVEMENTS	MAIDEN LN & NEWELL AVE
S.07	ADA SIDEWALK IMPROVEMENTS	LUCAS ST & CLIMER ST
S.08	ADA SIDEWALK IMPROVEMENTS	LOGAN ST & CLIMBER ST
W.01	LOGAN ST	(NORTH)
W.02	LOGAN ST	(SOUTH) SHEET 1
W.03	LOGAN ST	(SOUTH) SHEET 2
W.04	NEWELL AVE	SHEET 1
W.05	NEWELL AVE	SHEET 2
W.06	NEWELL AVE	SHEET 3
W.07	NEWELL AVE	SHEET 4
W.08	NEWELL AVE	SHEET 5
W.09	NEWELL AVE	SHEET 6
W.10	NEWELL AVE	SHEET 7
W.11	NEWELL AVE	SHEET 8
W.12	NEWELL AVE	SHEET 9
W.13	NEWELL AVE	SHEET 10
W.14	NEWELL AVE	SHEET 11
W.15	NEWELL AVE	SHEET 12
W.16	NEWELL AVE	SHEET 13
W.17	NEWELL AVE	SHEET 14
W.18	NEWELL AVE	SHEET 15
W.19	NEWELL AVE	SHEET 16
W.20	NEWELL AVE	SHEET 17
W.21	NEWELL AVE	SHEET 18
W.22	NEWELL AVE	SHEET 19
W.23	NEWELL AVE	SHEET 20
W.24	CLIMER ST	SHEET 1
W.25	CLIMER ST	SHEET 2
W.26	CLIMER ST	SHEET 3
W.27	CLIMER ST	SHEET 4
W.28	CLIMER ST	SHEET 5
W.29	CLIMER ST	SHEET 6
W.30	CLIMER ST	SHEET 7
W.31	MAIDEN LANE	SHEET 1
W.32	MAIDEN LANE	SHEET 2



PROJECT SIGN DETAIL

SCALE: NONE

NOTES:

1. CONTRACTOR TO PROVIDE TWO PROJECT SIGNS ON OPPOSITE ENDS OF PROJECT. SEE SECTION 01 50 00 FOR SPECIFIC REQUIREMENTS. SEE ITEM "SPECIAL SIGNAGE" FOR PAYMENT AND REQUIREMENTS.
2. CONTRACTOR TO PROTECT AND RELOCATE SIGN AS NEEDED TO PREVENT DAMAGE.

NOTES

1. SEE PROJECT MANUAL FOR PROJECT MILESTONE REQUIREMENTS. SEE SHEET J.03 FOR STAGING PLAN.
2. THE PROPOSED IMPROVEMENTS INCLUDED IN THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2026 EDITION IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS MANUALS (SUDAS). REFER TO CONTRACT DOCUMENTS; DRAWINGS AND PROJECT MANUAL, FOR PROJECT SPECIFIC REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR CALLING UTILITY ONE-CALL BEFORE ANY EXCAVATION OCCURS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING FEATURES AND RESTORING UNPLANNED DAMAGED FEATURES TO EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE CITY.
4. SEE WATER MAIN DRAWINGS FOR REPLACEMENT WORK INCLUDED IN THIS CONTRACT.
5. PROJECT IS FUNDED BY IOWA STATE REVOLVING FUND LOAN MONIES. SEE SPECIFICATION FOR DAVIS BACON WAGES AND AMERICAN IRON AND STEEL REQUIREMENTS.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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225 Iowa Avenue, Muscatine, Iowa 52761-3764
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

INDEX SHEET

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: AS NOTED

NO. 17660.60.40	REV.
A.02	0

CADD D3-R5
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GENERAL

VIEW MARKERS

A-G01 — DESIGNATES CUTTING PLANE OF SECTION

B-G01 — DESIGNATES DIRECTION FROM WHICH PLAN OR ELEVATION IS VIEWED

C-G01 — DESIGNATES LOCATION OF DETAIL

SECTION A-G01 (G01,G02)

ELEVATION B-G01 (G01) — VIEW IDENTIFICATION NUMBER; DRAWING NUMBER(S) ON WHICH VIEWS CUT OR CALLED OUT

DETAIL C-G01 (G01)

EL 100.00' — ELEVATION DESIGNATION

1 A — REVISION IDENTIFICATION SYMBOL:
THE NUMBER IN THE TRIANGLE INDICATES THE REVISION NUMBER IDENTIFIED. THE LETTER "A" IMMEDIATELY TO THE RIGHT OF THE TRIANGLE INDICATES THE REVISION IS PART OF A CONTRACT ADDENDUM. WHEN REVISIONS INVOLVE LESS THAN ENTIRE DRAWING, PRINCIPAL ASPECTS OF REVISIONS ARE "CLOUDED".

1 | 2 — CONTRACT IDENTIFICATION:
LEFT HAND NUMBER INDICATES CONTRACTOR FURNISHING, RIGHT HAND NUMBER INDICATES CONTRACTOR INSTALLING

ABBREVIATIONS

ASPH	ASPHALT
AVE	AVENUE
BM	BENCH MARK
BOC	BACK OF CURB
BOT	BOTTOM
C/CBS	COMBINED SEWER
CB	CATCH BASIN
CIP	CAST IRON PIPE
CIPP	CURED IN PLACE PIPE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CP	CONTROL POINT
CTR	CENTER
D/DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DRIVE
DWG	DRAWING
DWL	DOWEL
EF	EACH FACE
EG	EXISTING GRADE
EST	ESTIMATE
EXP	EXPANSION
EXST/EX	EXISTING
FG	FINISHED GRADE
FO	FIBER OPTICS
FT	FEET
G	GAS
HDPE	HIGH DENSITY POLYETHYLENE
HORIZ	HORIZONTAL
IDOT	IOWA DEPARTMENT OF TRANSPORTATION
IE	INVERT ELEVATION
IF	INSIDE FACE
IN	INCHES
INV	INVERT
IP	INTAKE POINT
JT	JOINT
LF	LINEAR FEET
LWBS	LOWER WEST BRANCH SEWER
MH	MANHOLE
MAX	MAXIMUM
MIN	MINIMUM
MPW	MUSCATINE POWER AND WATER
NA	NOT APPLICABLE
OC	ON CENTER
OE/OHE	OVERHEAD ELECTRIC
OF	OUTSIDE FACE
P	PLASTIC
PC	PORTLAND CEMENT
PCC	PORTLAND CEMENT CONCRETE
PCS	PAPOOSE CREEK SEWER
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REQD	REQUIRED
ROW	RIGHT-OF-WAY
S	STEEL
SAN	SANITARY SEWER
SS	SANITARY SEWER
SST	STAINLESS STEEL
ST	STORM SEWER/STREET
SUDAS	STATEWIDE URBAN DESIGN AND SPECIFICATIONS
TDC	TREE DECIDUOUS
TEL	TELEPHONE
TEV	TREE EVERGREEN
THK	THICK
TOP	TOP OF PIPE
TYP	TYPICAL
UAC	USE AS CONSTRUCTED
UNO	UNLESS NOTED OTHERWISE
UWBS	UPPER WEST BRANCH SEWER
VERT	VERTICAL
W	WATER
WSI	WEST SIDE INTERCEPTOR

DIMENSIONS AND SCALE

DIMENSIONS AND/OR ELEVATIONS MARKED THUS (*) ARE APPROXIMATE. OBTAIN FINAL DIMENSIONS FOR CONSTRUCTION FROM THE ENGINEER.

DIMENSIONS AND/OR ELEVATIONS MARKED THUS (▯) ARE ASSUMED AND MAY BE VARIED BY THE CONTRACTOR TO SUIT EQUIPMENT FURNISHED. FINAL DIMENSIONS ARE SUBJECT TO THE REVIEW OF THE ENGINEER.

DIMENSIONS AND/OR ELEVATIONS MARKED THUS (±) MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

DIMENSIONS ARE GENERALLY TO SCALE, BUT SHOULD NOT BE SCALED. USE DIMENSIONS SHOWN. NTS (NOT TO SCALE) IS SHOWN ONLY WHERE DIMENSION IS OBVIOUSLY OUT OF SCALE.

NUMERIC SCALE VALUES (1/4 "=1'-0", ETC) APPLY ONLY AT FULL SCALE.

GENERAL SYMBOLS

- EXISTING
- NEW
- CENTER LINE
- SURFACE BREAK LINE
- MATERIAL BREAK LINE
- MATCH LINE

℄ OR CL	CENTER LINE
Ø	DIAMETER OR ROUND
PL	PROPERTY LINE
W/	WITH
W/O	WITH OUT

CIVIL

- CONCRETE
- EARTH
- FIRE HYDRANT
- UTILITY POLE
- LIGHT POLE
- TELEPHONE PEDESTAL
- EXISTING GAS VALVE
- FENCE
- CO — EXISTING CLEANOUT
- EXISTING ELECTRICAL BOX
- EXISTING MANHOLE
- H — EXISTING HAND HOLE
- EXISTING WATER VALVE
- EXISTING SIGN
- EXISTING SEWERS
- EXISTING INLET
- EXISTING SEWERS TO BE ABANDONED. REMOVE AS NEEDED WHERE IN CONFLICT WITH NEW WORK. PLUG ENDS OF PIPE LEFT IN PLACE WITH CONCRETE
- SAN — PROPOSED SANITARY SEWER
- ST — PROPOSED STORM SEWER
- PROPOSED MANHOLE
- CO — PROPOSED CLEANOUT
- PROPOSED INLET

SAN	SANITARY
ST	STORM
SD	SUBDRAIN
C	COMBINED
FM	FORCE MAIN
E	ELECTRICAL
G	GAS
W	WATER
T	TELEPHONE
COMM	COMMUNICATIONS
TD	TELEPHONE DUCT
FO	FIBER OPTICS
OE, OHE	OVERHEAD ELECTRIC

- CONTROL POINT
- CONSTRUCTION LIMIT/TEMPORARY EASEMENT
- PERMANENT EASEMENT
- PROPERTY LINE
- SILT FENCE
- PROPOSED GRADE ON PROFILES
- EXISTING GROUND ON PROFILES
- CREEKS & STREAMS
- ROW ACQUISTION
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- EXISTING PERMANENT EASEMENT

SUDAS DETAILS

SUDAS NO.	DETAIL NAME
2010.102	DESIGNATIONS OF ROADWAY EARTHWORK ITEMS
3010.101	TRENCH BEDDING AND BACKFILL ZONES
3010.102	RIGID GRAVITY PIPE TRENCH BEDDING
3010.103	FLEXIBLE GRAVITY PIPE TRENCH BEDDING
3010.104	PRESSURE PIPE TRENCH BEDDING
3010.901	SEWER SUPPORT OVER EXISTING UTILITY LINE
3010.902	REINFORCED PCC BEAM UTILITY LINE SUPPORT
4010.201	SANITARY SEWER SERVICE STUB
4010.203	SANITARY SEWER CLEANOUT
4020.222	CIRCULAR CONCRETE APRONS
4020.224	CONCRETE PIPE APRON GUARD
4020.231	SUBDRAINS
4020.233	SUBDRAIN OUTLETS
4030.221	RCP APRON SECTION FOOTING
6010.301	CIRCULAR SANITARY SEWER MANHOLE
6010.303	SANITARY SEWER MANHOLE OVER EXISTING SEWER
6010.401	CIRCULAR STORM SEWER MANHOLE
6010.501	SINGLE GRATE INTAKE
6010.507	SINGLE OPEN-THROAT CURB INTAKE, SMALL BOX
6010.509	DOUBLE OPEN-THROAT CURB INTAKE, SMALL BOX
6010.545	SINGLE OPEN-THROAT CURB INTAKE WITH EXTENDED OPENING
7010.101	JOINTS
7010.102	PCC CURB DETAILS
7010.103	MANHOLE BOXOUTS IN PCC PAVEMENT
7010.901	PCC PAVEMENT JOINTING
7010.904	TYPICAL JOINTING LAYOUT
7030.101	CONCRETE DRIVEWAY, TYPE A
7030.103	DRIVEWAY GRADING
7030.104	ROW GRADING
7030.201	CLASSES OF SIDEWALKS
7030.202	CURB DETAILS FOR CLASS A SIDEWALK
7030.204	GENERAL FEATURES OF AN ACCESSIBLE SIDEWALK
7030.205	GENERAL SIDEWALK AND CURB RAMP DETAILS
7030.206	CURB RAMPS OUTSIDE OF INTERSECTION RADIUS
7030.207	CURB RAMP FOR CLASS B OR C SIDEWALK
7030.208	ALTERNATIVE CURB RAMP FOR CLASS B OR C SIDEWALK
7030.209	CURB RAMPS FOR CLASS A SIDEWALK
7030.210	DETECTABLE WARNING PLACEMENT
7040.101	FULL DEPTH PCC PATCHES LESS THAN OR EQUAL TO 15' LONG
7040.102	FULL DEPTH PCC PATCHES GREATER THAN 15' LONG
8030.101	TEMPORARY TRAFFIC CONTROL GENERAL INFORMATION
8030.111	LANE CLOSEURE AT AN INTERSECTION
8030.116	STREET OR ROAD CLOSURE
8030.117	SIDEWALK DETOUR
8030.119	CLOSURE OF MARKED OR UNMARKED CROSSWALK
9040.102	FILTER BERM AND FILTER SOCK
9040.105	WATTLE
9040.119	SILT FENCE
9040.120	STABILIZED CONSTRUCTION EXIT
9080.101	TYPE A CONCRETE STEPS WITH HANDRAIL
9080.102	TYPE B CONCRETE STEPS WITH HANDRAIL
11030.101	TEMPORARY MAILBOXES
11040.101	TEMP. GRANULAR SIDEWALK/TEMP RESIDENTIAL ACCESS
11040.102	TEMPORARY PEDESTRIAN CHANNELIZING DEVICE

NOTES:
1. SUDAS DETAILS FROM THE LATEST 2026 VERSION (CURRENT AT THE TIME OF BID) SHALL BE USED FOR ENTIRE PROJECT DURATION. SEE PROJECT MANUAL FOR A COPY OF SUDAS FIGURES LISTED.
2. OTHER DETAILS MAY BE APPLICABLE OTHER THAN THOSE LISTED HERE.

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

NOTES

1. ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS LEGEND MAY NOT APPEAR IN THIS SET OF DRAWINGS.
2. SEE INDIVIDUAL LEGENDS ON D, J, R AND S SERIES SHEETS.
3. SEE TOPOGRAPHIC SURVEY LEGEND ON G.04.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

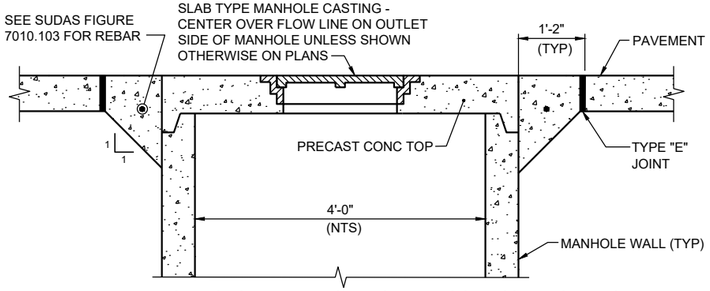
LEGEND AND NOTES

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: AS NOTED
NO. 17660.60.40 — REV. 0
A.03

I CADD D3-R5

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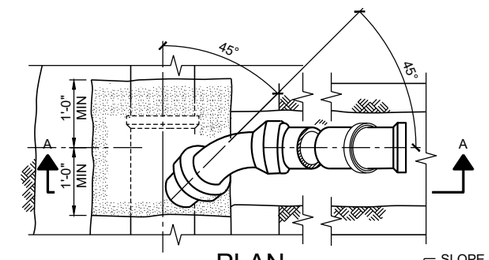
NOTE: FOR SIMILAR MANHOLE BASE DETAILS SEE ECCENTRIC MANHOLE

NOTE:

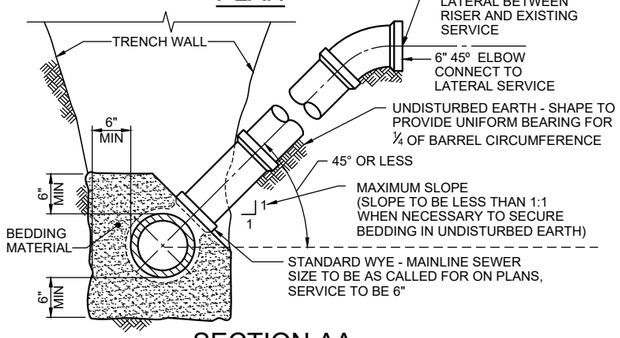
1. USE ONLY WHERE PIPING TO/FROM MANHOLE DOES NOT ALLOW ENOUGH ROOM UNDER PAVEMENT TO PERMIT INSTALLATION OF STANDARD MANHOLE CASTING.
2. CASTING: EAST JORDAN 2870A WITH MACHINED BEARING SURFACES, SOLID COVER AND DROP HANDLES.
3. PRECAST TOP DESIGNED FOR H20 LOADING.

DETAIL - FLAT TOP MANHOLE (LOW HEADROOM)

SCALE: 3/4" = 1'-0"



PLAN



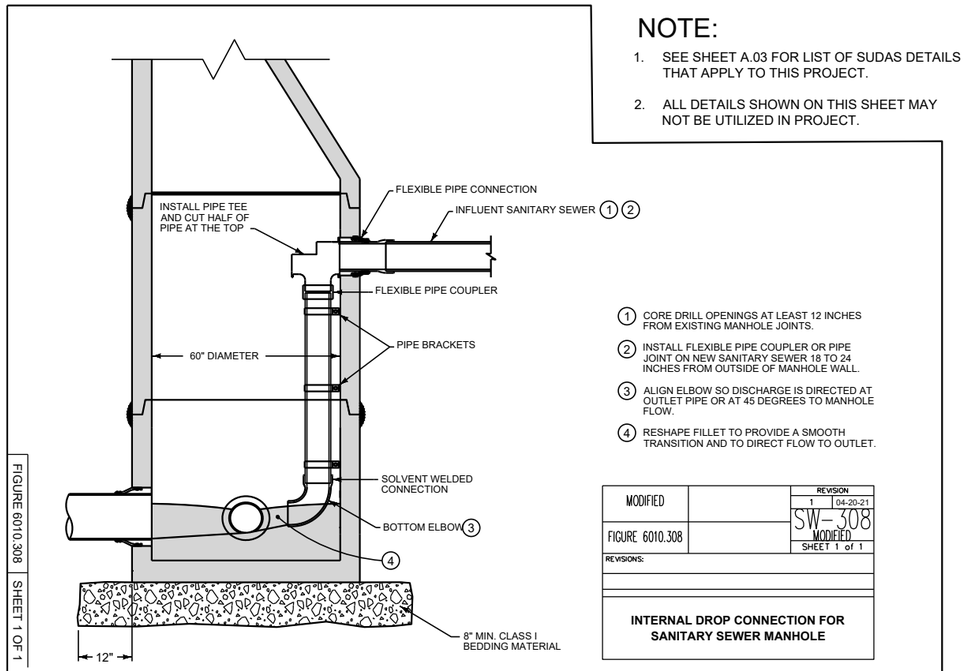
SECTION AA

NOTES:

1. FOR PIPE AND BEDDING MATERIAL SEE SPECIFICATIONS.

SEWER RISER

NO SCALE



NOTE:

1. SEE SHEET A.03 FOR LIST OF SUDAS DETAILS THAT APPLY TO THIS PROJECT.
2. ALL DETAILS SHOWN ON THIS SHEET MAY NOT BE UTILIZED IN PROJECT.

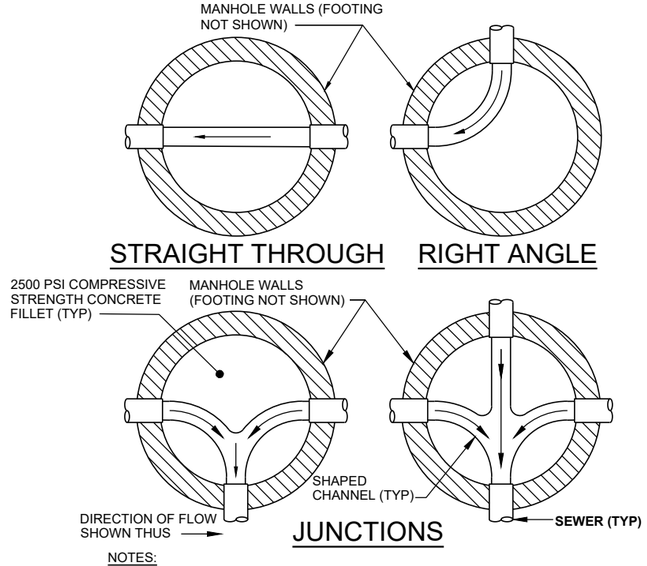
1. CORE DRILL OPENINGS AT LEAST 12 INCHES FROM EXISTING MANHOLE JOINTS.
2. INSTALL FLEXIBLE PIPE COUPLER OR PIPE JOINT ON NEW SANITARY SEWER 18 TO 24 INCHES FROM OUTSIDE OF MANHOLE WALL.
3. ALIGN ELBOW SO DISCHARGE IS DIRECTED AT OUTLET PIPE OR AT 45 DEGREES TO MANHOLE FLOW.
4. RESHAPE FILLET TO PROVIDE A SMOOTH TRANSITION AND TO DIRECT FLOW TO OUTLET.

MODIFIED		REVISION 1 04-20-21
FIGURE 6010.308		SW-308 MODIFIED SHEET 1 of 1

REVISIONS:

INTERNAL DROP CONNECTION FOR SANITARY SEWER MANHOLE

FIGURE 6010.308 SHEET 1 OF 1

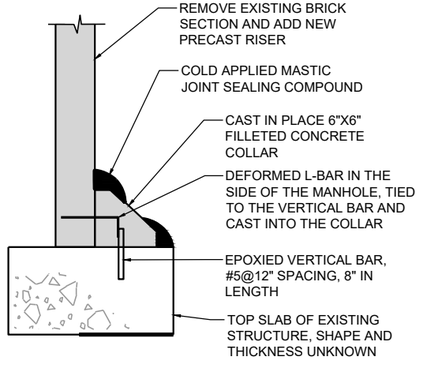


NOTES:

DEPTH OF ALL CHANNELS TO BE 3/4 X DIAMETER OF THE LARGEST SEWER ENTERING OR LEAVING MANHOLE.

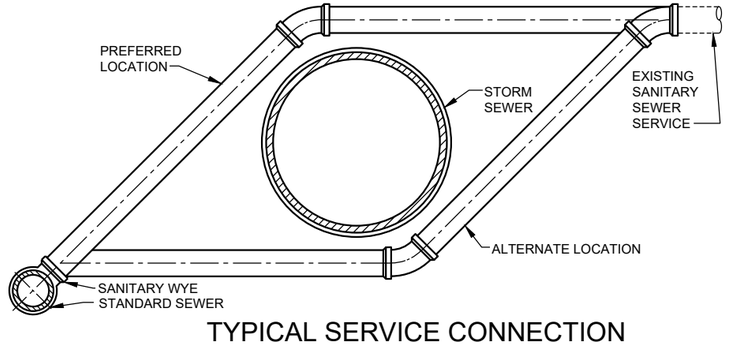
MANHOLE BOTTOMS

SCALE: NONE



RISER CONNECTION DETAIL

SCALE: NONE



TYPICAL SERVICE CONNECTION

NO SCALE

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PIPE DETAILS

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: AS NOTED

NO. 17660.60.40	REV.
A.04	0

AT FULL SIZE

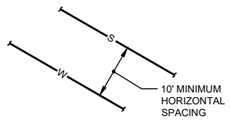
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5

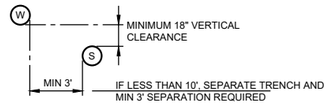
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STATE OF IOWA HORIZONTAL GRAVITY SEWER & WATERMAIN SEPARATION CRITERIA

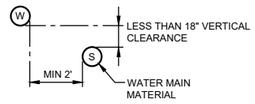
1. HORIZONTAL SEPARATION OF WATER MAINS FROM GRAVITY SEWERS. WATER MAINS SHALL BE SEPARATED FROM GRAVITY SEWERS BY HORIZONTAL DISTANCE OF AT LEAST 10 FEET.



2. IF 10' SEPARATION IS NOT POSSIBLE, A LESSER DISTANCE MAY BE CONSIDERED IF; THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER; AND THE WATER MAIN IS PLACED IN EITHER A SEPARATE TRENCH OR IN THE SAME TRENCH ON A BENCH OF UNDISTURBED EARTH, AT A MINIMUM HORIZONTAL SEPARATION OF THREE FEET FROM THE SEWER.



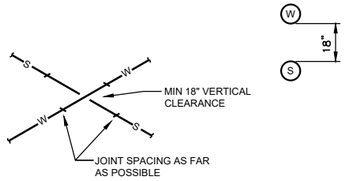
3. IF IT IS NOT POSSIBLE TO OBTAIN THE REQUIRED HORIZONTAL CLEARANCE OF THREE FEET AND VERTICAL SEPARATION OF 18 INCHES BETWEEN THE WATER MAIN AND SEWER, THE SEWER MUST BE CONSTRUCTED OF WATER MAIN MATERIALS MEETING A MINIMUM PRESSURE RATING OF 150 PSI. A LINEAR SEPARATION OF AT LEAST TWO FEET SHALL BE PROVIDED.



4. GRAVITY SEWER AND WATER MAIN SEPARATION REQUIREMENTS SUMMARIZED HERE CAN BE FOUND IN SUDAS SPECIFICATION SECTION 4010 AND SECTION 5010, IOWA WASTEWATER FACILITIES DESIGN STANDARDS CHAPTER 12, AND 567 IOWA ADMINISTRATIVE CODE CHAPTER 43.

STATE OF IOWA WATERMAIN AND SEWER CROSSING CRITERIA

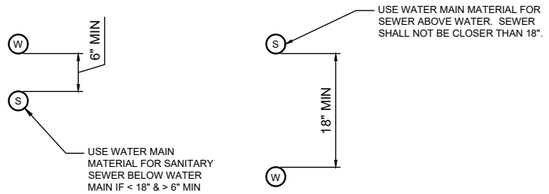
1. PREFERRED CROSSINGS WITH SEWERS: (SANITARY, COMBINED OR STORM)
   - VERTICAL SEPARATION OF WATER MAINS CROSSING OVER ANY SEWER SHALL BE AT LEAST 18-INCHES WHEN MEASURED FROM THE BOTTOM OF THE WATER MAIN TO THE TOP OF THE SEWER.
   - ALL JOINTS SHALL BE PLACED AS FAR AS POSSIBLE FROM THE POINT OF CROSSING.
   - PIPES SHALL BE ADEQUATELY SUPPORTED
   - JOINTS SHALL BE WATERTIGHT
   - LOW PERMEABILITY SOIL SHALL BE USED FOR BACKFILL MATERIAL WITHIN 10-FEET OF POINT OF CROSSING.

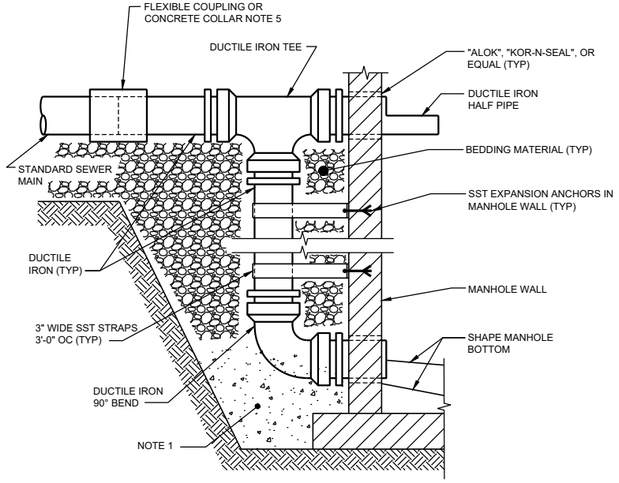


2. ALTERNATIVE ALLOWABLE CROSSING VERICAL SEPARATION:

   IF PHYSICAL CONDITIONS PROHIBIT PREFERRED CROSSING CONFIGURATION:
   - SEWER SHALL NOT BE PLACED CLOSER THAN 6-INCHES BELOW A WATER MAIN; OR,
   - SEWER SHALL NOT BE PLACED CLOSER THAN 18-INCHES ABOVE WATER MAIN.

   USE WATER MAIN MATERIAL FOR SEWER WHEN:
   - SANITARY SEWER CROSSES BELOW WATER MAIN AND VERTICAL SEPARATION IS LESS THAN 18-INCHES AND GREATER THAN 6-INCHES.
   - SANITARY SEWER CROSSES ABOVE WATER MAIN AND VERTICAL SEPARATION IS GREATER THAN 18-INCHES.
   - STORM SEWERS CROSSING ABOVE WATER MAIN WITH 18" (MINIMUM CLEARANCE) MAY BE CONSTRUCTED OF GASKETTED RCP OR WATER MAIN MATERIAL.
   - STORM SEWERS CROSSING BELOW WATER MAIN AND SEPARATION IS LESS THAN 18-INCHES AND GREATER THAN 6-INCHES, STORM SEWER CONSTRUCTED OF GASKETED RCP OR WATER MAIN MATERIAL.

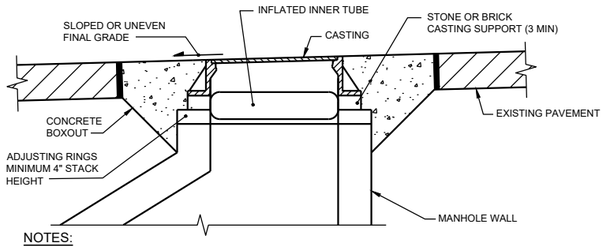




NOTES:
1. SUPPORT 90° BEND ON CONCRETE THRUST BLOCK WITH 2500 PSI COMPRESSIVE STRENGTH CONCRETE. ENCASE ELBOW IN CONCRETE, 12-INCHES MINIMUM ON ALL SIDES.
2. ALL JOINTS SHALL BE RESTRAINED.
3. EXTERNAL DROP CONNECTION ONLY USED WHERE INDICATED ON DRAWINGS. ALL OTHER DROP CONNECTIONS SHALL BE INTERNAL DROP CONNECTIONS.
4. MINIMIZE BY USING SHORTEST WORKABLE HORIZONTAL PIPE SPOOLS.
5. JOINT SHALL BE OUTSIDE OF DEEP EXCAVATION, MINIMUM 8'.
6. DUCTILE IRON PIPE FOR DROP DOES NOT REQUIRE SPECIAL LINING FOR SANITARY SEWERS. USE STANDARD CEMENT MORTAR LINING WITH SEAL COAT.

EXTERNAL DROP CONNECTION DETAIL

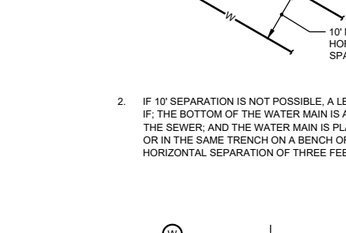
NO SCALE



NOTES:
1. ADJUST CASTING ELEVATION USING A MINIMUM OF 3 STONES, BRICKS OR OTHER SUITABLE SUPPORT.
2. INSTALL INNER TUBE AS SHOWN AND INFLATE TO PROVIDE "FORM" FOR CONCRETE INSTALLATION.
3. POUR CONCRETE BOXOUT AROUND MANHOLE TOP AS DETAILED AND WORK CONCRETE UNDER CASTING AND AROUND SUPPORT.
4. REMOVE TUBE AFTER CONCRETE SETS.
5. INSTALL INTERIOR INFILTRATION BARRIER SEAL (SANITARY MANHOLES ONLY).
6. CITY STAFF IS AVAILABLE TO DEMONSTRATE THIS METHOD.
7. SEE SUDAS DETAIL 7010-103 FOR MANHOLE BOXOUT REQUIREMENTS IN PCC PAVEMENT.
8. SEE SUDAS SECTION 6010 FOR ADJUSTMENT OF CASTINGS.

DETAIL-FLUSH CASTING INSTALLATION

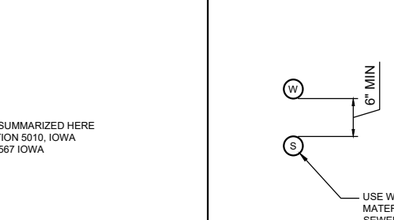
SCALE: 3/4" = 1'-0"



EXISTING SERVICE BELOW PROPOSED SEWER

NO SCALE

NOTE:
1. SERVICE MAY BE RELOCATED OVER PROPOSED SEWER IF 18" SEPARATION AND 5' OF COVER CAN BE OBTAINED. EXCAVATE TO UNCOVER EXISTING SERVICE TO DETERMINE SEPARATION DISTANCE.



EXISTING SERVICE IN CONFLICT WITH PROPOSED SEWER

NO SCALE

NOTE:
1. SERVICE MAY BE RELOCATED OVER PROPOSED SEWER IF 18" SEPARATION AND 5' OF COVER CAN BE OBTAINED.

EXISTING SERVICE ABOVE PROPOSED SEWER

NO SCALE

WATER SERVICE RELOCATION DETAILS

NO SCALE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

MICELLANEOUS SEWER DETAILS

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: AS NOTED

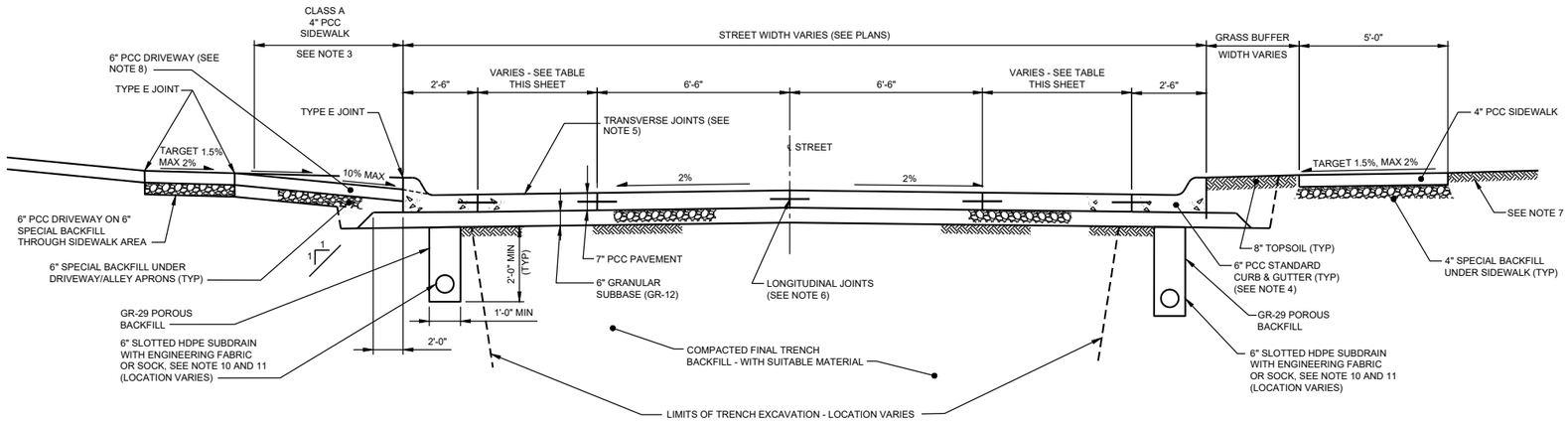
NO. 17660.60.40

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CADD D3-R5

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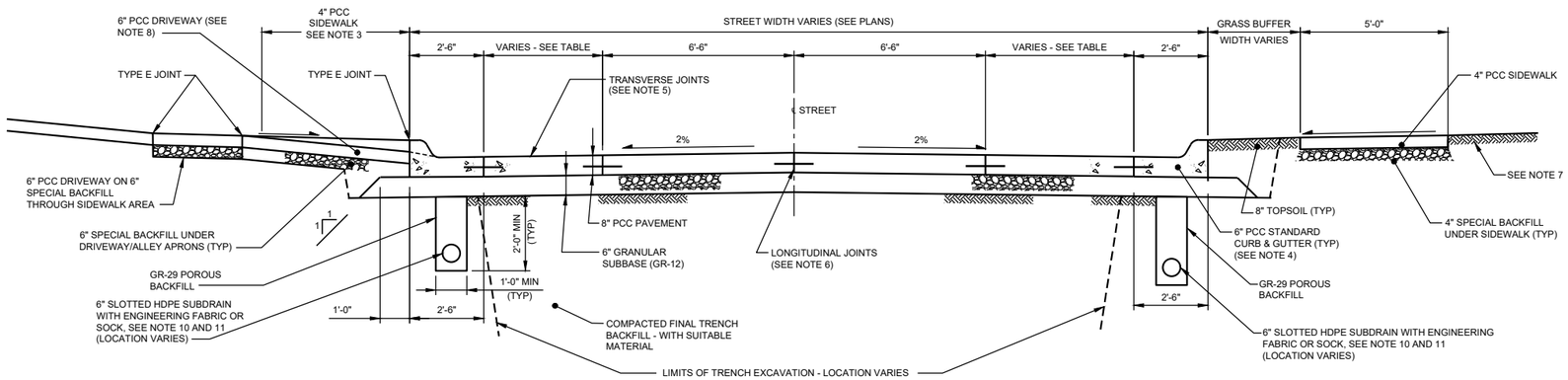


7" PCC TYPICAL SECTION

APPLIES TO: LOGAN STREET, CLIMER STREET, AND MAIDEN LANE

VARIABLE LONGITUDINAL JOINT

STREET WIDTH	JOINT DIMENSION
25' B-B	NO QUARTER JOINT (12' TRANSVERSE JOINT SPACING)
27' B-B	NO QUARTER JOINT (12' TRANSVERSE JOINT SPACING)
33' B-B	7.5' QUARTER JOINT (12' TRANSVERSE JOINT SPACING)
35' B-B	8.5' QUARTER JOINT (12' TRANSVERSE JOINT SPACING)



8" PCC TYPICAL SECTION

APPLIES TO: NEWELL AVENUE AND LUCAS STREET

NOTES

1. LIMITS OF SIDEWALK AND DRIVEWAY/ALLEY REMOVAL AND REPLACEMENT VARY. SEE PLANS.
2. PAVEMENT CONSTRUCTION WHERE NEW PAVEMENT BUTTS UP TO EXISTING BRICK BASE PAVEMENT SHALL USE "B" JOINT FROM SUDAS DETAIL 7010.101.
3. INSTALL CLASS A SIDEWALK WHEN SIDEWALK IS ALONG BACK OF CURB PER SUDAS DETAIL 7030.201. 5' MINIMUM WIDTH SEE PLANS FOR LOCATIONS AND SIDEWALK WIDTHS. TRANSVERSE SIDEWALK ISOLATION JOINTS SHALL BE LOCATED AT INTERVALS NOT MORE THAN 100' IN LENGTH OF SIDEWALK. LOCATE TO CREATE LEAST VISUAL DETRACTION POSSIBLE.
4. SEE SUDAS DETAIL 7010.102 FOR 6" STANDARD CURB AND GUTTER DETAIL.
5. TRANSVERSE JOINTS: 7" PCC SHALL HAVE TYPE "CD" TRANSVERSE JOINTS AT 15' MAXIMUM INTERVAL. 7" PCC DOWELED CONTRACTION JOINTS SHALL BE 3/4" DOWEL DIAMETER. 8" PCC DOWELED CONTRACTION JOINTS SHALL BE 1-1/4" DOWEL DIAMETER.
6. LONGITUDINAL JOINTS: 7" PCC SHALL HAVE TYPE L-1, KT-1, OR BT-1 LONGITUDINAL JOINTS DEPENDING ON THE PAVING SEQUENCE. 8" PCC SHALL HAVE SHALL HAVE TYPE L-2, KT-2 OR BT-2 LONGITUDINAL JOINTS DEPENDING ON PAVING SEQUENCE. SEE SUDAS DETAIL 7010.101 FOR BAR SIZES.
7. SLOPE BEHIND SIDEWALK VARIES. GRADE UNIFORMLY BETWEEN BACK OF SIDEWALK AND GRADING LIMITS. 3:1 MAXIMUM.
8. SEE SUDAS DETAIL 7030.101 FOR DRIVEWAY/ALLEY OPENINGS AND DROP CURB HEIGHT.
9. SEE W SERIES SHEETS FOR PROPOSED CROSS SECTIONS. DROP CURB HEIGHT: 1.5".
10. WHEN SUBDRAIN IS IN CONFLICT WITH LONGITUDINAL STORM SEWER PIPE, ELIMINATE SUBDRAIN.
11. SEE SUDAS DETAIL 4040.231 FOR SUBDRAIN LOCATION OPTIONS AND SECTION REQUIREMENTS.
12. PAVING MUST BE DONE USING A SLIP FORM PAVER, HAND POUR, OR OTHER SUDAS APPROVED METHOD. POWER/LASER SCREED WILL NOT BE ALLOWED ON MAINLINE DRIVING SURFACE.
13. TRANSITION PAVEMENT CROSS SLOPE TO MATCH EXISTING CROSS SLOPE OVER 24 FEET MINIMUM.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT TYPICAL SECTIONS

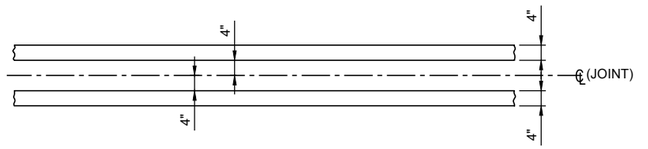
AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

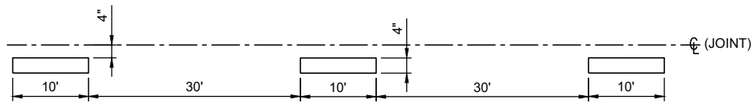
SCALE: AS NOTED
NO. 17660.60.40
REV. 0
B.01

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CADD D3-R5



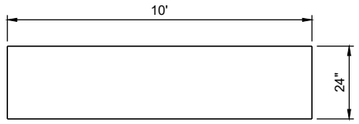
DCY4 DOUBLE CENTER LINE (YELLOW)



BCY4 BROKEN CENTER LINE (YELLOW)



SLW2 STOP LINE (WHITE)



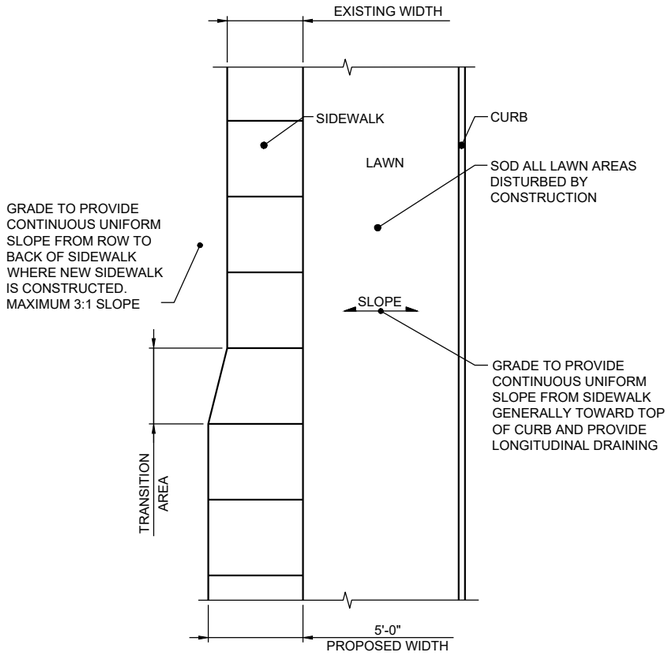
CBW6 CROSSWALK BAR LINE (WHITE)

GENERAL NOTE

1. CONTRACTOR SHALL INSTALL ALL PAVEMENT MARKINGS AS APPROVED BY THE CITY OF MUSCATINE. PAVEMENT MARKINGS SHALL CONFORM TO IOWA DOT AND MUTCD REQUIREMENTS.

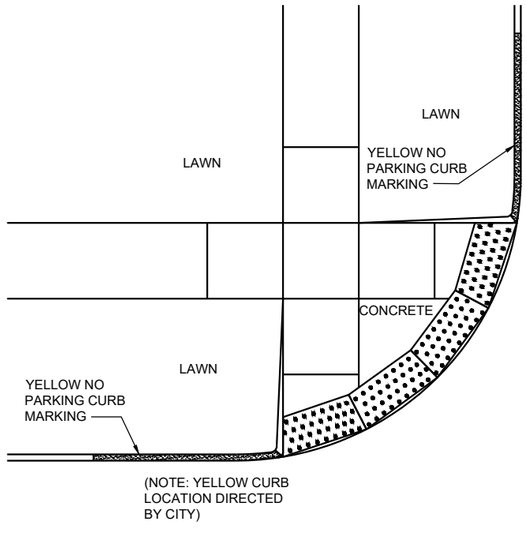
STANDARD TYPES OF PAVEMENT MARKINGS

NO SCALE



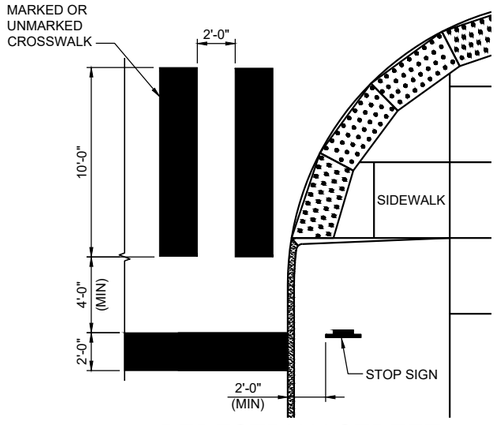
SIDEWALK-LAWN AREAS TRANSITION FROM PROPOSED TO EXISTING

NO SCALE



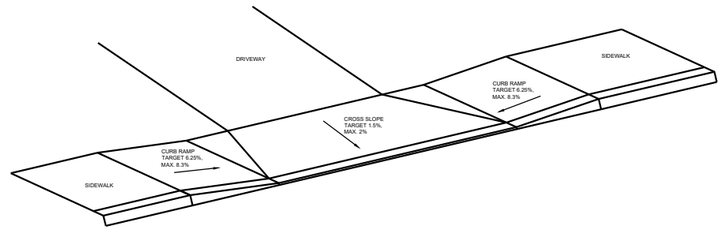
NO PARKING CURB MARKING (YELLOW)

NO SCALE



PEDESTRIAN STREET CROSSING

NO SCALE



CLASS A SIDEWALK DRIVEWAY CROSSING

NO SCALE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT DETAILS

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: AS NOTED

NO. 17660.60.40	REV.
B.02	0

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PHASE 6E - ESTIMATED PROJECT QUANTITIES

ITEM NO	SUDAS ITEM CODE	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	2010-A	CLEARING AND GRUBBING BY UNITS	UNIT	783.2
2	2010-D-1	TOPSOIL, ON-SITE TOPSOIL	CY	162
3	2010-D-3	TOPSOIL, OFF-SITE TOPSOIL, CONTRACTOR PROVIDED	CY	1836
4	2010-D-3	TOP SOIL, OFF-SITE TOPSOIL, OWNER PROVIDED	CY	204
5	2010-E	CLASS 10 EXCAVATION	CY	4048
6	2010-E	CLASS 13 EXCAVATION - DEBRIS REMOVAL AND DISPOSAL	TONS	120
7	2010-H	GRANULAR STABILIZATION, 12" GRANULAR SUBBASE	SY	6060
8	2010-I	SUBGRADE TREATMENT, GEOTEXTILE	SY	6060
9	2010-J	GRANULAR SUBBASE - 6" (UNDER ROADWAY PAVEMENT) (CONTRACTOR PROVIDED)	SY	14544
10	2010-J	GRANULAR SUBBASE - 6" (UNDER ROADWAY PAVEMENT) (CITY FURNISHED CRUSHED CONCRETE)	SY	9696
11	2010-J	SPECIAL BACKFILL - CONTACTOR PROVIDED MATERIAL - 6" (UNDER DRIVEWAY/ALLEY)	SY	2923
12	2010-J	SPECIAL BACKFILL - CONTRACTOR PROVIDED MATERIAL - 4" (UNDER SIDEWALKS)	SY	1422
13	2010-J	TEMPORARY GRANULAR SURFACE	TONS	200
14	2010-K-3	REMOVALS, PIPES	LF	25
15	2010-L-1	FILLING AND PLUGGING OF PIPE	LF	2402
16	2010-L-1	FILLING AND PLUGGING MANHOLE	EA	4
17	3010-C	TRENCH FOUNDATION (1-INCH CLEAN)	CY	300
18	3010-C	STABLIZED (FOUNDATION) MATERIALS	CY	50
19	3010-XX	SHEETING LEFT IN PLACE	SF	400
20	3010-XX	EXPLORATORY TRENCH AND TEST DIGS	LF	100
21	4010-A-1	SANITARY SEWER SERVICE, 4" OR 6" PVC (ASTM D3034)	LF	1222
22	4010-A-1	SANITARY SEWER SERVICE, 4" OR 6" PVC (ASTM D3034), CITY STOCK	LF	630
23	4010-A-1	SANITARY SEWER SERVICE, 4" OR 6" PVC (ASTM D3034) OUTSIDE OF ROW	LF	908
24	4010-A-1	SANITARY SEWER SERVICE, TRENCHLESS	LF	50
25	4010-A-1	SANITARY SEWER, SOLID WALL POLYVINYL CHLORIDE PIPE (PVC), SDR 26 - 8"	LF	3654
26	4010-A-1	SANITARY SEWER, POLYVINYL CHLORIDE COMPOSITE PIPE (TRUSS TYPE PVC), 8", CITY STOCK	LF	515
27	4010-A-1	SANITARY SEWER, SOLID WALL POLYVINYL CHLORIDE PIPE (PVC), SDR 26 - 12"	LF	1982
28	4010-A-2	SANITARY SEWER, TRENCHLESS, 8" WITH CASING PIPE	LF	138
29	4010-E	SANITARY SEWER SERVICE CONNECTIONS TO MAIN, 6"	EA	137
30	4010-I	SANITARY SEWER CLEANOUT	EA	1
31	4010-XX	SANITARY SEWER INTERNAL HOME REPLUMBING	LS	1
32	4010-A	SEWER, DIP, WATER MAIN MATERIAL, FOR CONFLICTS, 8"	LF	30
33	4010-A	SEWER, DIP, WATER MAIN MATERIAL, FOR CONFLICTS,12"	LF	30
34	4010-A	SEWER, DIP, WATER MAIN MATERIAL, FOR CONFLICTS,16"	LF	30
35	4020-A-1	STORM SEWER, 12", CLASS IV RCP	LF	25
36	4020-A-1	STORM SEWER, 12", CLASS IV RCP, CITY STOCK	LF	33
37	4020-A-1	STORM SEWER, 15", CLASS IV RCP	LF	3410
38	4020-A-1	STORM SEWER, 15", CLASS IV RCP, CITY STOCK	LF	160
39	4020-A-1	STORM SEWER, 18", CLASS IV RCP	LF	1072
40	4020-A-1	STORM SEWER, 24", CLASS IV RCP	LF	193
41	4020-A-1	STORM SEWER, 30", CLASS IV RCP	LF	102
42	4020-A-1	STORM SEWER INLET PIPING, 12" PVC (ASTM F949)	LF	20
43	4020-A-1	STORM SEWER INLET PIPING, 15" PVC (ASTM F949)	LF	20
44	4020-A-1	STORM SEWER, 8", PVC WATER MAIN	LF	55
45	4020-A-1	STORM SEWER, 10", PVC WATER MAIN	LF	19
46	4020-A-1	STORM SEWER, 12", PVC WATER MAIN	LF	165
47	4020-A-1	STORM SEWER, 14", PVC WATER MAIN	LF	139
48	4020-A-1	STORM SEWER, 16", PVC WATER MAIN	LF	20
49	4020 A-1	STORM SEWER. 12", HDPE	LF	47
50	4020 A-1	STORM SEWER. 18", HDPE	LF	74
51	4020-B-2	STORM SEWER, TRENCHLESS,12" WITH CASING PIPE	LF	64
52	4020-C	LINEAR TRENCH DRAIN	LF	24
53	4030-B	PIPE APRON, FOOTING, AND APRON GUARD	EA	2
54	4040-A	TYPE 1 SUBDRAINS (LONGITUDINAL) CORRUGATED PE, 6"	LF	12626
55	4040-D-1	SUBDRAIN OUTLETS AND CONNECTIONS	EA	33
56	4050-A-2	PRE-REHABILITATION CLEANING AND INSPECTION, ALL DIAMETERS	LF	792
57	4050-C-1	CIPP MAIN LINING, 8"	LF	761
58	4050-XX	POLYURETHANE PIPE LINER, 48"	LF	31
59	4050-C-2	BUILDING SANITARY SEWER SERVICE REINSTATEMENT	EA	16
60	4060-XX	INTERNAL VIDEO INSPECTION (ALL SEWER)	LF	11979

PHASE 6E - ESTIMATED PROJECT QUANTITIES

ITEM NO	SUDAS ITEM CODE	DESCRIPTION	UNIT	ESTIMATED QUANTITY
61	5010-E-1	WATER SERVICE PIPE, COPPER, 1"	LF	1500
62	5010-E-2	WATER SERVICE CORPORATION	EA	70
63	5010-E-3	WATER SERVICE CURB STOP AND BOX	EA	70
64	6010-A	SANITARY MANHOLE, ECCENTRIC, SW-301, 5' DIAMETER (8' DEEP)	EA	25
65	6010-A	SANITARY MANHOLE, ECCENTRIC, SW-301, 5' DIAMETER - CITY STOCK	EA	4
66	6010-A	SANITARY MANHOLE, EXTRA DEPTH, 5' DIAMETER	LF	34.9
67	6010-A	SANITARY MANHOLE, SW-401 FLAT TOP, 5' DIAMETER	EA	2
68	6010-A	STORM MANHOLE, FLAT TOP, SW-401, 5' DIAMETER (UP TO 8' DEEP)	EA	15
69	6010-A	STORM MANHOLE, LOW HEADROOM FLATTOP	EA	1
70	6010-A	STORM MANHOLE, EXTRA DEPTH, 5' DIAMETER	LF	14.5
71	6010-B	STORM INLET, SW-501	EA	7
72	6010-B	STORM INLET, SW-507	EA	33
73	6010-B	STORM INLET, SW-509	EA	1
74	6010-B	STORM INLET, SW-545, DOUBLE EXTENSION	EA	1
75	6010-H	REMOVE MANHOLE OR INTAKE	EA	62
76	6010-X	CURB OPENING CASTING	EA	4
77	7010-A	PCC PAVEMENT, 7 INCH	SY	6243
78	7010-A	PCC PAVEMENT, 8 INCH	SY	15008
79	7010-I	PCC PAVEMENT SAMPLES AND TESTING	LS	1
80	7010-I	PCC PAVEMENT SMOOTHNESS TESTING - PROFILER	LS	1
81	7020-A	ASPHALT PAVEMENT BY TON	TON	132
82	7030-A-1	REMOVAL OF SIDEWALK	SY	1313
83	7030-A-3	REMOVAL OF DRIVEWAY/ALLEY	SY	2750
84	7030-B	REMOVAL OF CURB, LIMESTONE CURB	LF	20
85	7030-E	PCC SIDEWALK, 4-INCH	SY	1386
86	7030-E	PCC SIDEWALK, 6-INCH	SY	36
87	7030-G	DETECTABLE WARNINGS	SF	321
88	7030-H-1	PAVED DRIVEWAYS, AND ALLEYS, PCC, 6-INCH	SY	2923
89	7040-G	MILLING	SY	15614
90	7040-H	PAVEMENT REMOVAL, CONCRETE	SY	5288
91	7040-XX	SUBBASE MATERIAL REMOVAL AFTER MILLING	SY	4000
92	8020-C	PAINTED PAVEMENT MARKINGS, DURABLE	STA	33.34
93	8030-A	TEMPORARY TRAFFIC CONTROL	LS	1
94	8030-XX	SPECIAL SIGNAGE	SF	64
95	8040-I	REMOVE AND REINSTALL TRAFFIC SIGNS	EA	45
96	9010-B	SEEDING, FERTILIZING & MULCHING FOR CONVENTIONAL SEEDING, RESIDENTIAL (TYPE 1)	SF	1000
97	9010-B	SEEDING, FERTILIZING, & MULCHING FOR HYDRAULIC SEEDING, RESIDENTIAL (TYPE 1)	SF	6594
98	9010-D	WATERING, BEYOND MINIMUM CARE PERIOD	MGAL	1.65
99	9020-A	SOD	SY	9136
100	9030-A	PLANTS, LANDSCAPING BY AREA	SF	73
101	9040-A-2	SWPPP MANAGEMENT	LS	1
102	9040-D	FILTER SOCKS	LF	12626
103	9040-E	TEMPORARY ROLLED EROSION CONTROL PRODUCTS (RECP) TYPE 4.B (LONG TERM)	SY	15
104	9040-J	EROSION STONE	TONS	12
105	9040-N	SILT FENCE OR SILT FENCE DITCH CHECK	LF	410
106	9040-O	STABLIZED CONSTRUCTION EXIT	EA	24
107	9040-Q-2	EROSION CONTROL MULCHING, HYDROMULCHING	ACRE	1.888
108	9040-T	INLET PROTECTION DEVICE, DROP IN PROTECTION	EA	25
109	9040-T	INLET PROTECTION DEVICE, OPEN-THROAT CURB INTAKE SEDIMENT FILTER, EC-602	LF	150
110	9040-XX	TURF REINFORCEMENT MESH (TEMPORARY)	SF	4000
111	9060-D	REMOVAL AND REINSTALLATION OF EXISTING FENCE	LF	200
112	9070-A	RETAINING WALL, ALL TYPES	SF	95
113	9080-A	CONCRETE STEPS	SF	70
114	9080-B	HANDRAIL	LF	30
115	11,010-A	CONSTRUCTION SURVEY	LS	1
116	11,010-XX	RECORD DRAWINGS	LS	1
117	11,020-A	MOBILIZATION	LS	1
118	11,020-A	MOBILIZATION, EROSION CONTROL	EA	13
119	11,020-XX	EXISTING CONDITIONS VIDEO RECORD	LS	1
120	11,030-A	MAINTENANCE OF POSTAL SERVICE	LS	1
121	11,030-B	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1
122	11,030-XX	UTILITY VEHICLE	MONTH	18
123	11,040-B	TEMPORARY GRANULAR SIDEWALK	SY	800
124	11,050-A	CONCRETE WASHOUT	LS	1

NOTES

1. PROJECT IS FUNDED BY IOWA STATE REVOLVING FUND LOAN MONIES. SEE SPECIFICATION FOR DAVIS BACON WAGES AND AMERICAN IRON AND STEEL REQUIREMENTS.
2. ESTIMATED PROJECT QUANTITIES ARE PROVIDED ON THIS SHEET FOR CONVENIENCE AND SHOULD MATCH THOSE IN THE PROJECT MANUAL. IF DISCREPANCIES ARE FOUND ESTIMATED QUANTITIES IN THE PROJECT MANUAL PREVAIL.
3. REFER TO ESTIMATE REFERENCE NOTES AND SUDAS SPECIFICATIONS FOR DESCRIPTION OF ITEMS.
4. REFER TO MPW/CITY DRAWINGS FOR WATER MAIN ITEMS INCLUDED IN THIS CONTRACT.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ESTIMATED PROJECT QUANTITIES

DESIGNED KK HEIM
DRAWN GM REEVES
CHECKED ER SCHALLERT
APPROVED JM BRADY
APPROVED KK HEIM
DATE MARCH 30, 2026

SCALE: AS NOTED
NO. 17660.60.40
REV. 0
C.01

CADD D3-R5
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ESTIMATE REFERENCE NOTES

ITEM NO	ITEM CODE	UNIT	DESCRIPTION
1	2010-A	UNIT	**CLEARING AND GRUBBING BY UNITS** A. REFER TO SUDAS SECTION 2010, 1.08 FOR MEASUREMENT AND PAYMENT. B. INCLUDES ALL LISTED ITEMS IN 1.08 FOR REMOVING STREET TREES AND STUMPS WITH TRUNK DIAMETER 6-INCHES OR GREATER ALONG THE SEWER ALIGNMENT IN DIRECT CONFLICT WITH TRENCH ALIGNMENT, STREET RESTORATION, OR AS DIRECTED BY CITY. C. REMOVING TREES 6-INCHES IN DIAMETER AND SMALLER IS CONSIDERED INCIDENTAL TO TRENCH EXCAVATION. APPROVAL TO REMOVE TREE IS REQUIRED FROM THE CITY. STREET TREE REMOVAL CAN BE PERFORMED YEAR ROUND. D. DISPOSAL OF TREES, STUMPS, BRUSH, ROOTS AND OTHER VEGETATION AT CONTRACTOR SELECTED SITE. E. FOR TREES TO BE SAVED, EXCAVATE UNDER ROOTS. CUT NO TREE ROOTS LARGER THAN 3-INCHES IN DIAMETER. F. REFER TO R SHEETS FOR KNOWN TRUCK DIAMETER OF TREES WITHIN THE PROJECT AREA AND ANY TREES ANTICIPATED FOR REMOVAL OR PROTECTION. G. CITY TIPPING FLOOR IS NOT AVAILABLE FOR TREE DISPOSAL.
2	2010-D-1	CY	**TOPSOIL, ON-SITE TOPSOIL** A. INCLUDES ALL LISTED ITEMS IN 1.08. B. FINISHED DEPTH OF PLACED TOPSOIL SHALL BE MINIMUM OF **8-INCHES.** C. STRIPPING AND STOCKPILING TOPSOIL SHALL BE DONE IN GRASSED AREAS OR YARDS NOT IMMEDIATELY ADACENT TO PAVED STREETS. ESTIMATE INCLUDES GRASS AREA ON HAGERMAN DRIVE PROPERTY. D. MEASUREMENT FOR PAYMENT WILL BE BASED ON THE AREAS ON-SITE TOPSOIL WAS PLACED AND WILL BE COMPUTED ON THE BASIS OF A UNIFORM 8-INCH FINISHED DEPTH.
3	2010-D-3	CY	**TOP SOIL, OFF-SITE TOPSOIL, CONTRACTOR PROVIDED** A. INCLUDES ALL LISTED ITEMS IN 1.08. B. FINISHED DEPTH OF PLACED TOPSOIL SHALL BE MINIMUM OF **8-INCHES**. ALL TOPSOIL FOR THIS ITEM SHALL BE FURNISHED BY CONTRACTOR. CONTRACTOR'S OFF-SITE SOURCE SHALL BE APPROVED BY CITY. C. REFER TO RR SHEETS FOR SODDED AREAS. PROVIDE OFFSITE TOPSOIL FOR SODDED AREAS. QUANTITY ESTIMATE WAS SPLIT BETWEEN OWNER PROVIDED AND CONTRACTOR PROVIDED. D. USE OF THIS ITEM REQUIRES CITY ENGINEER'S PRIOR APPROVAL. E. MEASUREMENT FOR PAYMENT WILL BE BASED ON THE AREAS TOPSOIL WAS PLACED AND WILL BE COMPUTED ON THE BASIS OF A UNIFORM 8-INCH FINISHED DEPTH.
4	2010-D-3	CY	**TOP SOIL, OFF-SITE TOPSOIL, OWNER PROVIDED** A. INCLUDES ALL LISTED ITEMS IN 1.08. B. PLACED TOPSOIL FINISHED DEPTH SHALL BE A MINIMUM OF **8-INCHES.** C. ALL TOPSOIL FOR THIS ITEM SHALL BE FURNISHED BY CITY. CONSULT CITY IF AVAILABLE. MATERIAL MAY BE AVAILABLE AT CITY'S LAKE PARK BOULEVARD COMPOST SITE (FORMER DOT SITE). D. QUANTITY ESTIMATE IS BASED ON FINISHED DEPTH OF 8-INCHES OF PLACED TOPSOIL WITHIN RESIDENTIAL SODDED AREA SHOWN ON RR SERIES SHEETS. QUANTITY ESTIMATE WAS SPLIT BETWEEN OWNER PROVIDED AND CONTRACTOR PROVIDED. F. MEASUREMENT FOR PAYMENT WILL BE BASED ON THE AREAS TOPSOIL WAS PLACED AND WILL BE COMPUTED ON THE BASIS OF A UNIFORM 8-INCH FINISHED DEPTH.
5	2010-E	CY	**CLASS 10 EXCAVATION** A. REFER TO SUDAS SECTION 2010 AND IOWA DOT SPECIFICATIONS SECTION 2102 B. ITEM INCLUDES, BUT IS NOT LIMITED TO, COST TO EXCAVATE, LOAD, HAUL, AND PROPERLY DISPOSE OF COMMONLY ENCOUNTERED EXCAVATED MATERIALS. **THIS ITEM IS USED FOR REMOVAL OF AGGREGATE MATERIAL UNDER EXISTING STREETS.** C. MEASUREMENT SHALL BE PER COMMONLY ACCEPTED PER-TRUCK VOLUME AS AGREED UPON BY THE CITY AND CONTRACTOR. SEE 1.08 E. 1, b, 2). D. QUANTITY IS ESTIMATED BASED ON A NOMINAL 6-INCH THICKNESS UNDER REMOVED PAVEMENT TO PROVIDE DEPTH FOR PLACEMENT OF GRANULAR SUBBASE.
6	2010-E	TONS	**CLASS 13 EXCAVATION - DEBRIS REMOVAL AND DISPOSAL** A. REFER TO SUDAS SECTION 2010 AND IOWA DOT SPECIFICATIONS SECTION 2102, EXCEPT AS MODIFIED HEREIN. B. ITEM INCLUDES, BUT IS NOT LIMITED TO, COST TO EXCAVATE, LOAD, HAUL, AND PROPERLY DISPOSE OF USED RAILROAD TIES, CONCRETE DEBRIS AND ASSOCIATED MATERIALS. ITEM TO INCLUDE CITY LANDFILL TIPPING FEE. CONTRACTOR TO TRANSPORT MATERIAL TO LANDFILL AFTER MATERIAL IS WEIGHED AT TRANSFER STATION. C. MEASUREMENT AND PAYMENT IS BASED ON SCALED WEIGHT OF DEBRIS AND ASSOCIATED MATERIAL IN TONS. D. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE..
7	2010-H	SY	**GRANULAR STABILIZATION, 12" GRANULAR SUBBASE** A. THIS ITEM IS USED FOR EXTRA AGGREGATE AT A THICKNESS OF 12" TO REPLACE UNSTABLE SUBGRADE . THE AGGREGATE MATERIAL SHALL BE GRANULAR SUBBASE LISTED UNDER SUDAS 2010, 2.04, D. 2. SEE 3.06 FOR SUBGRADE PREPARATION INSTALLATION REQUIRMENTS. B. QUANTITY ESTIMATE INCLUDES UP TO A MAXIMUM OF 2 FOOT HORIZONTALLY OF GRANULAR SUBBASE FOR SUBGRADE STABILIZATION BEYOND PAVEMENT EDGE. CONTRACTOR WILL NOT BE PAID FOR ADDITIONAL GRANULAR SUBBASE PLACED BEYOND THE MAXIMUM STATED. C. ITEM INCLUDES BUT IS NOT LIMITED TO SUBGRADE STABILIZATION AGGREGATE FURNISHING, LOADING, HAULING, PLACING, COMPACTING AND TRIMMING TO PROPER GRADE. PAY ITEM ALSO INCLUDES SUBGRADE PREPARATION, MANIPULATION, COMPACTION, SHAPING, AND TRIMMING TO PREPARE FOR SUBGRADE STABILIZATION AGGREGATE PLACEMENT. D. SUBGRADE STABILIZTION AGGREGATE COMPACTION TESTING SHALL BE PROVIDED BY CONTRACTOR IN ACCORDANCE WITH SUDAS SECTION 2010, 3.09. E. SUBGRADE STABILIZATION AGGREGATE SHALL BE PROOF-ROLLED. PROOF-ROLLING MUST BE WITNESSED AND APPROVED BY CITY.
8	2010-I	SY	**SUBGRADE TREATMENT, GEOTEXTILE** A. REFER TO SUDAS SECTION 2010, 2.04, C. 6; AND 3.07, B. B. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE. CITY ENGINEER MUST AUTHORIZE PAY ITEM USAGE. C. ITEM IS USED TO STABILIZE SUBGRADE UNDER PAVEMENT. USE WOVEN, UV-STABILIZED GEOTEXTILE WITH A MINIMUM TENSILE STRENGTH OF 135 LB/FT ACCORDING TO SUDAS SECTION 9040, 2.15 B. D. INCLUDES ITEMS LISTED IN 1.08 E. MEASUREMENT INCLUDES INCORPORATING THE GEOTEXTILE UNDER THE SUBBASE INCLUDING 2 FEET BEHIND THE BACK OF CURB ON EACH SIDE.

ESTIMATE REFERENCE NOTES

ITEM NO	ITEM CODE	UNIT	DESCRIPTION
9	2010-J	SY	**GRANULAR SUBBASE - 6" (UNDER ROADWAY PAVEMENT) (CONTRACTOR PROVIDED)** A. REFER TO SUDAS SECTION 2010; 2.04, D, 2; IOWA DOT SPECIFICATION 4121 B. QUANTITY ESTIMATE INCLUDES UP TO A MAXIMUM OF 2 FEET HORIZONTALLY OF GRANULAR SUBBASE BEYOND PAVEMENT EDGE. CONTRACTOR WILL NOT BE PAID FOR EXCESS GRANULAR SUBBASE BEYOND THE MAXIMUM STATED. ITEM ALSO INCLUDES SUBGRADE PREPARATION, MANIPULATION, COMPACTION, SHAPING, AND TRIMMING TO PREPARE FOR SUBBASE PLACEMENT AND LOADING AND HAULING OF SUBBASE. C. GRANULAR SUBBASE AGGREGATE SHALL BE GRADATION 12A OR 12B OR 14 ACCORDING TO DOT TABLE 4109.02-1. SEE TYPICAL SECTIONS ON DRAWING B.01. D. SUBBASE COMPACTION TESTING SHALL BE PROVIDED BY CONTRACTOR IN ACCORDANCE WITH SUDAS SECTION 2010, 3.09. E. SUBGRADE SHALL BE PROOF-ROLLED. PROOF-ROLLING MUST BE WITNESSED AND APPROVED BY CITY. F. THIS MATERIAL IS CONTRACTOR FURNISHED AGGREGATE USED FOR SUBBASE UNDER PCC PAVMENT
10	2010-J	SY	**GRANULAR SUBBASE - 6" (UNDER ROADWAY PAVEMENT) (CITY FURNISHED CRUSHED CONCRETE)** A. ALL ITEMS LISTED UNDER 'GRANULAR SUBBASE - CONTRACTOR PROVIDED' APPLY TO THIS ITEM. B. GRANULAR SUBASE SHALL BE CITY SUPPLIED CRUSHED CONCRETE CRUSHED TO GRADATION 12A OR 12B ACCORDING TO DOT TABLE 4109.02-1. C. THIS MATERIAL IS CITY FURNISHED CRUSHED CONCRETE USED FOR SUBBASE UNDER PCC PAVEMENT.
11	2010-J	SY	**SPECIAL BACKFILL - CONTACTOR PROVIDED MATERIAL - 6" (UNDER DRIVEWAY/ALLEY)** A. REFER TO SECTION 2010, 2.04, D, 1; AND 3.08. B. QUANTITY ESTIMATE DOES NOT INCLUDE ANY SPECIAL BACKFILL BEYOND THE PAVEMENT EDGE. C. ITEM INCLUDES, BUT IS NOT LIMITED TO SUBBASE, LOADING, HAULING, PLACING, COMPACTING AND TRIMMING TO PROPER GRADE. PAY ITEM ALSO INCLUDES SUBGRADE PREPARATION, MANIPULATION, COMPACTION, SHAPING, AND TRIMMING TO PREPARE FOR SUBBASE PLACEMENT. D. SPECIAL BACKFILL SHALL MEET THE GRADTION REQUIREMENTS OF IOWA DOT SECTION 4132.02 GRADATION 30. E. SEE DRAWING B.01 FOR TYPICAL SECTION. E. COMPACTION TESTING SHALL BE PROVIDED BY CONTRACTOR IN ACCORDANCE WITH SUDAS SECTION 2010, 3.09. SUBGRADE PROOFROLLING IS NOT REQUIRED.
12	2010-J	SY	**SPECIAL BACKFILL - CONTRACTOR PROVIDED MATERIAL - 4" (UNDER SIDEWALKS)** A. ALL ITEMS DESCRIBED UNDER 6" SPECIAL BACKFILL APPLY TO THIS ITEM.
13	2010-J	TON	**TEMPORARY GRANULAR SURFACE** A. MATERIAL SHALL BE INSTALLED FOR TEMPORARY CONSTRUCTION AND RESIDENT VEHICLE ACCESS ROUTES ON OR PARALLEL TO PAVEMENTS UNDER CONSTRUCTION WHEN FIELD DIRECTED BY THE CITY. PRIOR AUTHORIZATION OF THIS ITEM IS REQUIRED BEFORE INSTALLATION. B. ITEM INCLUDES, BUT IS NOT LIMITED TO, ALL COSTS FOR LABOR, MATERIAL, AND EQUIPMENT FOR HAULING; PLACING, COMPACTING, AND REMOVAL AS NECESSARY. C. MATERIAL SHALL BE IOWA DOT SECTION 4123 OR 4109, GRADATION 12, GRANULAR SUBBASE, OR IOWA DOT SECTION 4132, GRADATION 30 OR 31, SPECIAL BACKFILL SO THAT IT CAN BE LEFT IN PLACE AS PAVEMENT BASE OR REUSED UNDER DRIVEWAYS AND SIDEWALKS ADJACENT TO THE PAVEMENT. D. REFER TO SUDAS SECTION 2010, 3.08, FOR (SUBBASE) INSTALLATION REQUIREMENTS TO BE APPLIED TO CRUSHED STONE INSTALLATION. E. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE. F. AS AN ALTERNATIVE TO GRANULAR AGGREGATE, CONTRACTOR MAY USE CITY'S SUPPLY OF RECYCLED ASPHALT WHEN SUBGRADE CONDITIONS CONTINUE TO FAIL WITH GRANULAR SURFACING. CONTRACTOR IS REQUIRED TO HAUL THE RECYCLED ASPHALT FROM CITY YARD TO THE JOB SITE.
14	2010-K-3	LF	**REMOVALS, PIPES** A. THIS ITEM SHALL BE USED AT THE DISCRETION OF THE CITY ENGINEER. CONTRACTOR SHALL OBTAIN APPROVAL PRIOR TO UTILIZING THIS ITEM. B. USE ITEM FOR REMOVAL OF EXISTING SEWER PIPES OUTSIDE THE EXCAVATED TRENCH TO INSTALL NEW SEWERS. USE WHEN REMOVED PIPE IS 10 FEET OR MORE AWAY FROM NEW SEWERS. SEPARATE PAYMENT WILL NOT BE MADE FOR DIFFERENT SIZES AND TYPES OF EXISTING PIPES. PAYMENT WILL NOT BE MADE FOR REMOVAL OF PIPES WITHIN THE PIPE TRENCH OF NEW SEWERS. C. INCLUDED ITEMS LISTED ARE LISTED IN 1.08 PLUS EXCAVATION TO REMOVE THE PIPE AND PROTECTION OF EXISTING UTILITIES AND BACKFILLING.
15	2010-L-1	LF	**FILLING AND PLUGGING OF PIPES** A. CONTRACTOR SHALL OBTAIN APPROVAL FROM CITY ENGINEER PRIOR TO UTILIZING THIS ITEM. B. THIS ITEM IS FOR FILLING ANY SIZE SEWER PIPE WITH FLOWABLE MORTAR ACCORDING TO SPECIFICATION 3010, 2.06 AND IOWA DOT ARTICLE 2506.02 FOR FLOWABLE MORTAR WITH CRITICAL FLUIDITY. C. ITEM INCLUDES BUT IS NOT LIMITED TO ALL WORK, MATERIALS AND EQUIPMENT TO PLACE FLOWABLE MORTAR TO FILL PIPE TO THE CROWN INCLUDING FLOWABLE MORTAR, EXCAVATION TO ACCESS THE PIPE, VENT AND GROUT TUBES, BULKHEADS AND BACKFILLING. D. ITEM CAN BE USED TO FILL PIPES OUTSIDE OF STREET PAVEMENT WITH FLOWABLE FILL. LOCATIONS INCLUDE NEWELL AVENUE EAST OF LOGAN STREET.
16	2010-L-1	EA	**FILLING AND PLUGGING MANHOLE** A. THIS ITEM IS FOR FILLING AND PLUGGING OF MANHOLES, INLETS, AND STRUCTURE IN LOCATIONS WHERE REMOVAL OF STRUCTURE IS NOT ALLOWED OR IS DISRUPTIVE. LOCATIONS OF MANHOLE FILLING ARE ANTICIPATED ON PRIVATE PROPERTY ALONG LOGAN STREET. B. FILLING STRUCTURES WITH FLOWABLE FILL AS SPECIFIED IN ITEM, FILLING AND PLUGGING OF PIPES.
17	3010-C	CY	**TRENCH FOUNDATION (1-INCH CLEAN)** A. CRUSHED ROCK OR CLEAN GRAVEL HAVING SAME GRADATION AS CLASS 1 PIPE BEDDING MATERIAL (1-INCH CLEAN). SEE 2.02, A. B. INCLUDES THOSE ITEMS LISTED IN 1.08 C PLUS COSTS FOR EXCAVATION, DEWATERING AND INCIDENTALS FOR PROVIDING AND INSTALLING ADDITIONAL GRANULAR MATERIAL IN PLACE OF UNSUITABLE PIPE TRENCH FOUNDATION MATERIALS. C. CITY ENGINEER MUST AUTHORIZE ITEM USAGE. MATERIAL USED TO CORRECT UNAUTHORIZED OVER-EXCAVATION WILL NOT BE MEASURED. THIS ITEM DOES NOT INCLUDE PIPE BEDDING MATERIAL THICKNESS SHOWN ON FIGURE 3010.101. D. PAYMENT WILL BE MEASURED USING WEIGHT TICKETS RECORDED IN TONS FOR MATERIAL DELIVERED AND INCORPORATED INTO PROJECT. TONS SHALL BE CONVERTED TO CUBIC YARDS WITH STANDARD IOWA DOT CONVERSION RATES 127 PCF FOR TRENCH FOUNDATION (DOT DESIGN MANUAL IB-4, TABLE 2.) E. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE. F. USE FOR OVER-EXCAVATION AND FOUNDATION STONE IDENTIFIED ON FIGURE 3010.101.

NOTES

1. ALL SUDAS REFERENCES ARE TO SUDAS SPECIFICATIONS 2026 EDITION.
2. FOR EACH ITEM, CONTRACTOR SHALL CAREFULLY REVIEW THE REFERENCED SUDAS SPECIFICATION IN ITS ENTIRETY. SUDAS SPEC, ESTIMATE REFERENCE NOTES, SPECIAL PROVISIONS SECTION 00 75 00, AND THE DRAWINGS MUST BE REVIEWED TOGETHER FOR EACH PROJECT ITEM.. UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS, ALL PROVISIONS OF SUDAS APPLY.
3. MEASUREMENT AND PAYMENT DESCRIPTIONS IN PART 1.08 UNDER EACH SUDAS STANDARD SPECIFICATION SECTION SHALL BE REVIEWED IN CONJUNCTION WITH THESE ESTIMATE REFERENCE NOTES.
4. PROJECT IS FUNDED BY IOWA STATE REVOLVING FUND LOAN MONIES. SEE SPECIFICATION FOR DAVIS BACON WAGES AND AMERICAN IRON AND STEEL REQUIREMENTS.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ESTIMATE REFERENCE NOTES

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: AS NOTED

NO. 17660.60.40	REV.
C.02	0

CADD D3-R5
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ESTIMATE REFERENCE NOTES			
ITEM NO	ITEM CODE	UNIT	DESCRIPTION
18	3010-C	CY	**STABLIZED (FOUNDATION) MATERIALS** A. ALL ITEMS LISTED UNDER TRENCH FOUNDATION (1-INCH CLEAN) APPLIES EXCEPT THOSE NOTED. B. STABLIZATION (FOUNDATION) MATERIALS CAN BE USED AS TRENCH FOUNDATION MATERIAL FOR OVEREXCAVATION. C. STABILIZATION (FOUNDATION) MATERIALS MEETING REQUIREMENTS OF 2.05, A (CLEAN 2 1/2 INCH CRUSHED STONE) OR 2.05 B (GRADATION 13A - MACADAM ST BASE). D. PAYMENT WILL BE MEASURED USING WEIGHT TICKETS RECORDED IN TONS FOR MATERIAL DELIVERED AND INCORPORATED INTO THE PROJECT. TONS SHALL BE CONVERTED TO CUBIC YARDS WITH STANDARD IOWA DOT CONVERSION RATES OF 130 PCF FOR MACADAM STONE. (DOT DESIGN MANUAL IB-4, TABLE 2.)
19	3010-XX	SF	**SHEETING LEFT IN PLACE** A. ITEM INCLUDES MATERIAL COST AND LABOR TO PROVIDE AND INSTALL SHEETING AND SHORING ONLY WHEN AUTHORIZED BY CITY ENGINEER TO BE LEFT IN PLACE. B. SHEETING AND SHORING, WHICH MAY BE REMOVED WITHOUT ENDANGERING UTILITIES OR STRUCTURES SHALL BE CONSIDERED INCIDENTAL TO PIPE INSTALLATION AND SHALL NOT BE PAID FOR. TOP OF SHEETING LEFT IN PLACE SHALL BE CUT OFF 2-FOOT BELOW FINISHED GRADE C. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE. D. MEASUREMENT AND PAYMENT WILL BE AT THE UNIT PRICE PER FACE SQUARE FEET OF SHEET PILE INSTALLED, BOTH ABOVE AND BELOW GRADE.
20	3010-XX	LF	**EXPLORATORY TRENCH AND TEST DIGS** A. ITEM MAY BE USED FOR UNEXPECTED CONFLICTS. CITY WILL DEFINE LIMITS OF EXPLORATORY TRENCH AND TEST DIGS IN THE FIELD. B. ROUTINE UTILITY POTHOLING AND EXPLORATORY TEST DIGS IN ADVANCE OF ANY PIPE LAYING OR EXCAVATION WORK TO VERIFY DEPTH OF UTILITIES THAT COULD BE IN CONFLICT IS INCIDENTAL TO PIPE INSTALLATION. C. MEASUREMENT AND PAYMENT FOR THIS ITEM WILL BE AT THE UNIT PRICE PER LINEAR FOOT ALONG EXPLORATORY TRENCH. D. USE OF THIS ITEM MUST BE AUTHORIZED BY CITY ENGINEER IN ADVANCE.
	4010-A	LF	**SANITARY SEWER GRAVITY MAIN, GENERAL FOR ITEMS 21 THRU 28** A. REFER TO SECTION 4010 FOR PIPE MATERIAL AND INSTALLATION; AND SECTION 4060 FOR TESTING. B. INCLUDES ALL ITEMS LISTED IN 4010, 1.08 A. PLUS FIELD ENGINEERING; LABORATORY TESTING SERVICES; DEWATERING; SHEETING, SHORING; PIPING AND PUMPING FOR BYPASSING SEWAGE FLOW AS NECESSARY TO MAINTAIN SERVICE; REMOVAL OF EXISTING SEWER PIPES WITHIN TRENCH LIMITS; PLUGGING OF EXISTING PIPING AND MANHOLES; UTILITY COMPANY CHARGES FOR TEMPORARY RELOCATIONS, SUPPORTS OR BRACING, UTILITY REPAIR; WATER AND SEWER HOUSE SERVICE VERIFICATION AND REPAIR; CONNECTIONS TO EXISTING SYSTEM AND PIPE CONNECTIONS; LEAKAGE AND DEFLECTION TESTING OF PVC SEWERS (MANDREL), CLEANING, HAULING AND DISPOSAL OF UNSUITABLE TRENCH EXCAVATED MATERIAL, AND INCIDENTAL WORK. C. PAYMENT WILL BE MADE FOR VARIOUS DEPTHS OF CUT MEASURED TO PIPE INVERT AND DIAMETERS LISTED. LENGTH WILL BE MEASURED ALONG CENTER LINE OF PIPE WITH NO DEDUCTION FOR MANHOLES. D. TRENCH BEDDING CLASS FOR ALL SANITARY SEWER SERVICE AND MAIN LINE TRUSS, PVC, OR DIP SHALL BE CLASS F-3 ACCORDING TO FIGURE 3010.103. USE CLASS 1 CRUSHED STONE BEDDING MATERIAL. CONSOLIDATE AND COMPACT BEDDING. MINIMUM THICKNESS OF PIPE BEDDING MATERIAL IS 4-INCHES. E. WHEN PIPE CENTERLINE IS LOCATED UNDER, OR WITHIN 2-FEET OF THE OUTER EDGE OF PAVEMENT, FINAL TRENCH BACKFILL ABOVE THE BEDDING ZONE SHALL BE CLASS II GRANULAR BACKFILL MATERIAL MEETING THE REQUIREMENTS OF SECTION 3010. CLASS A ROADSTONE (IOWA DOT GRADATION 11) IS ACCEPTABLE. **ALL BACKFILL MATERIAL IS INCLUDED IN THE PRICE OF THE PIPE. MANSAND SHALL NOT BE USED.** F. FINAL BACKFILL COMPACTION SHALL BE IN ACCORDANCE WITH SECTION 3010 FOR CLASS II BACKFILL MATERIAL AND COHESIONLESS SOILS. COMPACT BACKFILL TO AT LEAST 65% RELATIVE DENSITY WITHIN RIGHT OF WAY. HYDRAULIC COMPACTION (FLOODING WITH WATER) IS NOT ALLOWED UNLESS AUTHORIZED BY CITY ENGINEER. G. REFER TO C SHEETS FOR SANITARY SEWER PIPE SUMMARY TABLE. H. INTERNAL VIDEO INSPECTION OF NEW SANITARY SEWERS IS REQUIRED AND PAID SEPARATELY. I. UNSUITABLE EXCAVATED TRENCH MATERIAL MUST BE HAULED AWAY AND DISPOSED OF A SITE TO BE DETERMINED BY THE CONTRACTOR. CITY'S RAVINE FILL SITE NEAR LOCUST STREET IS NOT AVAILABLE. **DISPOSAL OF TRENCH SPOIL MATERIAL IS INCLUDED IN THE PRICE OF THE PIPE.**
21	4010-A-1	LF	**SANITARY SEWER SERVICE, 4" OR 6" PVC (ASTM D3034)** A. REFER TO 2.04, C, 1. FOR PVC SERVICE PIPE MEETING REQUIREMENTS OF ASTM D3034, SDR 23.5. B. USE TO REPLACE SANITARY SERVICES FROM PIPE TRENCH TO LOCATION OUTSIDE OF PAVEMENT, 5' BEHIND THE CURB. FIRST 10' OF SANITARY SERVICE REPLACEMENT IS NOT PAID FOR WITH THIS ITEM. SEE "SANITARY SERVICE CONNECTIONS TO MAIN" ITEM FOR WYE CONNECTION TO MAIN AND FIRST 10' OF SEWER SERVICE. C. USE TO REPLACE EXISTING SANITARY SERVICES FROM PIPE TRENCH TO LOCATIONS BEHIND THE CURB THAT ARE NOT PVC OR DIP IN GOOD CONDITION. CONNECT TO EXISTING SERVICE IN SOUND CONDITION. D. ALL NEW SANITARY SERVICE PIPING SHALL BE 6-INCH DIAMETER UNLESS OTHERWISE NOTED.
22	4010-A-1	LF	**SANITARY SEWER SERVICE, 4" OR 6" PVC (ASTM D3034), CITY STOCK** A. USE 6-INCH SANITARY SEWER SERVICE PIPE FROM CITY STOCK AT LAKE PARK BOULEVARD STORAGE YARD (FORMER DOT SITE). CONTRACTOR IS RESPONSIBLE FOR HAULING MATERIAL TO JOBSITE. B. MATERIAL MUST MEET REQUIREMENTS OF ASTM D3034, SDR 23.5 AND BE IN SATISFACTORY CONDITION. C. CITY RECORDS SHOW 630 LF OF 6-INCH AND 882 LF OF 4-INCH IS AVAILABLE AT THE YARD. FOR PURPOSES OF THIS TABULATION ONLY 630 LF IS LISTED
23	4010-A-1	LF	**SANITARY SEWER SERVICE, 4" OR 6" PVC (ASTM D3034) OUTSIDE OF ROW** A. THIS ITEM IS IDENTICAL TO SANITARY SEWER SERVICE DESCRIBED ABOVE BUT USED FOR SERVICES LOCATED OUTSIDE THE CITY ROW. B. GRANULAR FINAL BACKFILL IS NOT REQUIRED IF SERVICE INSTALLATION IS OUTSIDE PAVED AREAS.
24	4010-A-2	LF	**SANITARY SEWER SERVICE, TRENCHLESS** A. USE FOR SANITARY SERVICES REQUIRING TRENCHLESS INSTALLATION UNDER EXISTING UTILITES OR TRENCHESS SERVICE INSTALLATION ON PRIVATE PROPERTY FOR SERVICE RECONFIGURATION OUTSIDE OF THE HOME. B. USE DIP SERVICE PIPE OR INSTALL PVC IN CASING PIPE. C. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE.
25	4010-A-1	LF	**SANITARY SEWER, SOLID WALL POLYVINYL CHLORIDE PIPE (PVC), SDR 26 - 8"** A. REFER TO SECTION 4010, 2.01, A. FOR PVC PIPE MEETING REQUIREMENTS OF ASTM D 3034 SDR 26.

ESTIMATE REFERENCE NOTES			
ITEM NO	ITEM CODE	UNIT	DESCRIPTION
26	4010-A-1	LF	**SANITARY SEWER, POLYVINYL CHLORIDE COMPOSITE PIPE (TRUSS TYPE PVC), 8", CITY STOCK** A. USE 8-INCH TRUSS PIPE FROM CITY STOCK AT LAKE PARK BOULEVARD STORAGE YARD (FORMER DOT SITE). CONTRACTOR IS RESPONSIBLE FOR HAULING MATERIAL TO JOBSITE. B. TRUSS PIPE IS INTENDED FOR USE FOR CLIMER STREET SANITARY SEWER.
27	4010-A-1	LF	**SANITARY SEWER, SOLID WALL POLYVINYL CHLORIDE PIPE (PVC), SDR 26 - 12"** A. REFER TO SECTION 4010, 2.01, A. FOR PVC PIPE MEETING REQUIREMENTS OF ASTM D 3034 SDR 26.
28	4010-A-2	LF	**SANITARY SEWER, TRENCHLESS, 8" SEWER WITH CASING PIPE** A. REFER TO SECTION 4010 AND 3020 FOR REQUIREMENTS. B. CASING SIZE SHOWN IS 16-INCH DIAMETER. USE STEEL CASING PIPE IN ACCORDANCE WITH SECTION 3020, 2.02, MINIMUM THICKNESS 0.250". STEEL PRODUCTS SHALL BE COMPATIBLE WITH AMERICAN IRON AND STEEL REQUIREMENTS. C. CARRIER PIPE IS PVC SANITARY SEWER MEETING ASTM D 3034 SDR 26. D. LOCATION IS TERRACE HEIGHTS DRIVE,SHEET MSA.18 E. ITEM INCLUDES ALL COSTS FOR MATERIAL, LABOR, EXCAVATION, DEWATERING, SHEETING AND SHORING, PIPE PUSHING, DIRECTIONAL DRILLING, JACKING, BORING, OR AUGERING, OR OTHER TRENCHLESS CONSTRUCTION METHOD, FURNISHING AND INSTALLING SEWER PIPE AND CASING PIPE, SPACERS, AND END SEALS, EXCAVATION, BEDDING, BACK FILL PLACEMENT AND COMPACTION FOR LAUNCHING AND RECEIVING PITS AND PIPE, TRENCH PROTECTION MEASURES, PROTECTION OF EXISTING FEATURES AND PROTECTION OF UTILITIES, PIPE CONNECTIONS, TESTING, AND INSPECTION. F. CONTRACTOR MUST SUBMIT TRENCHLESS TECHNOLOGY PLAN PRIOR TO BEGINNING WORK.
29	4010-E	EA	**SANITARY SEWER SERVICE CONNECTIONS TO MAIN, 6"** A. REFER TO SECTION 4010, 2.04, A. PIPE SHALL BE PVC CONFORMING TO ASTM D3034 WITH SDR 23.5. B. ITEM INCLUDES ALL COSTS FOR LOCATING AND CONNECTING SANITARY SERVICE DIRECTLY TO NEW SANITARY SEWER, INCLUDING SPECIAL FITTINGS ON THE MAIN AND SERVICE CONNECTION, AND UP TO 10' OF SERVICE PIPING TO CONNECT THE MAIN WITH THE SERVICE. COST FOR NEW SERVICE PIPING BEYOND 10' TO BE PAID FOR AS ITEM "SANITARY SEWER SERVICE". C. CONNECTIONS SHALL BE MADE WITH PREFORMED WYE FITTINGS. PREFORMED TAPPING SADDLES ARE NOT ALLOWED FOR INITIAL INSTALLATION OF PROPOSED SEWERS. D. SIZE OF ALL EXISTING SERVICE LINES ARE NOT KNOWN. WYE FITTINGS SHALL BE 6-INCH CONNECTIONS MADE TO EXISTING SERVICE WITH WATERTIGHT COUPLER.
30	4010-I	EA	**SANITARY SEWER CLEANOUT** A. REFER TO 1.08 FOR MEASUREMENT AND PAYMENT DESCRIPTION. B. REFER TO FIGURE 4010.203 FOR REQUIREMENTS. C. CLEANOUTS REQUIRED WHEN CONNECTING TO EXISTING SANITARY SERVICE WHICH RESULTS IN A HORIZONTAL CHANGE IN DIRECTION. CLEANOUT SHALL BE PLACED IN GRASS BOULEVARD WHEN POSSIBLE. D. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE.
31	4010-XX	LS	**SANITARY SEWER INTERNAL HOME REPLUMBING** A. A TOTAL LUMP SUM ALLOWANCE UP TO $250,000 IS ALLOWED FOR INTERNAL HOME REPLUMBING UNDER THIS CONTACT FOR THE HOMES LISTED IN THIS DESCRIPTION. CONTRACTOR MUST SUBMIT ITEMIZED RECEIPTS FOR THE INTERNAL WORK FOR EACH HOME PRIOR TO REQUESTING PAYMENT FOR THIS ITEM. SUBMITTAL OF ANTICIPATED COST PRIOR TO WORK BEGINNING AND RECEIPTS AFTER WORK IS COMPLETED IS REQUIRED. CONTRACTOR WILL BE PAID FOR THE WORK PERFORMED NOT TO EXCEED THE LUMP SUM AMOUNT UNLESS AUTHORIZED BY THE CITY ENGINEER. B. WORK MUST BE PERFORMED BY A LICENSED PLUMBER AND IN CONFORMANCE WITH CITY AND INTERNATIONAL PLUMBING CODE. C. PLUMBER MUST CONTACT CITY PLUMBING INSPECTOR PRIOR TO BEGINNING WORK. CONTRACTOR TO OBTAIN PLUMBING PERMIT FOR EACH HOUSE. CITY PERMIT WILL BE PROVIDED AT NO COST TO CONTRACTOR. D. THIS ALLOWANCE COVERS INTERNAL HOME REPLUMBING AT THE FOLLOWING ADDRESSES: 1015 CLIMER, 1020 CLIMER, 1022 CLIMER, 1026 CLIMER, 1028 CLIMER, 1030 CLIMER, 1032 CLIMER, 1034 CLIMER, 1036 CLIMER, 1045 CLIMER. E. IF EXTERNAL SEWER SERVICE WORK IS NEEDED ON PRIVATE PROPERTY, EXTERNAL WORK IS COVERED USING THE SANITARY SEWER SERVICE WORK ITEMS. IF HOMES NOT LISTED REQUIRE INTERNAL REPLUMBING, THIS ITEM CAN BE USED UP TO THE DOLLAR AMOUNT ALLOWANCE.
	4010-A	LF	**SANITARY OR STORM SEWER, WATER MAIN EQUIVALENT MATERIAL, FOR CONFLICTS, GENERAL APPLIES TO 32-34** A. INCLUDES ALL ITEMS LISTED UNDER "SANITARY SEWER, GENERAL" IN ADDITION TO THE WATER MAIN EQUIVALENT PIPE MATERIAL. ITEM INCLUDES ALL COSTS FOR LABOR, MATERIALS, EXCAVATION, BACKFILL, TRENCH SPOILS REMOVAL AND DISPOSAL, INSTALLATION OF WATER MAIN EQUIVALENT PIPE MATERIAL IN LIEU OF SPECIFIED SEWER PIPE MATERIAL AT LOCATIONS IN CLOSE PROXIMITY TO WATER MAINS. PAYMENT WILL BE MADE BY PIPE DIAMETER AND MATERIAL. B. CRITERIA FOR USING WATER MAIN EQUIVALENT PIPE MATERIAL IS LISTED IN SUDAS SECTION 4010, 4020, 5010, AND IS SUMMARIZED ON DRAWING A.05. C. TRENCH BEDDING CLASS SHALL BE CLASS F-3 ACCORDING TO SUDAS FIGURE 3010.103. USE CLASS 1 BEDDING MATERIAL. CONSOLIDATE AND COMPACT BEDDING MATERIAL. COMPACTION OF GRANULAR FINAL TRENCH BACKFILL SHALL BE AS DESCRIBED UNDER SANTIARY SEWER.
32	4010-A	LF	**SEWER, DIP, WATER MAIN MATERIAL, FOR CONFLICTS, 8"** A. REFER TO SUDAS SECTION 5010, 2.01 B FOR DIP MEETING AWWA C151. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE.
33	4010-A	LF	**SEWER, DIP, WATER MAIN MATERIAL, FOR CONFLICTS, 12"** A. REFER TO SECTION 5010, 2.01 B FOR DIP MEETING AWWA C151. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE.

NOTES

1. ALL SUDAS REFERENCES ARE TO SUDAS SPECIFICATIONS 2026 EDITION.
2. FOR EACH ITEM, CONTRACTOR SHALL CAREFULLY REVIEW THE REFERENCED SUDAS SPECIFICATION IN ITS ENTIRETY. SUDAS SPEC, ESTIMATE REFERENCE NOTES, SPECIAL PROVISIONS SECTION 00 75 00, AND THE DRAWINGS MUST BE REVIEWED TOGETHER FOR EACH PROJECT ITEM.. UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS, ALL PROVISIONS OF SUDAS APPLY.
3. MEASUREMENT AND PAYMENT DESCRIPTIONS IN PART 1.08 UNDER EACH SUDAS STANDARD SPECIFICATION SECTION SHALL BE REVIEWED IN CONJUNCTION WITH THESE ESTIMATE REFERENCE NOTES.
4. PROJECT IS FUNDED BY IOWA STATE REVOLVING FUND LOAN MONIES. SEE SPECIFICATION FOR DAVIS BACON WAGES AND AMERICAN IRON AND STEEL REQUIREMENTS.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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225 Iowa Avenue, Muscatine, Iowa 52761-3764
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ESTIMATE REFERENCE NOTES

DESIGNED KK HEIM
DRAWN GM REEVES
CHECKED ER SCHALLERT
APPROVED JM BRADY
APPROVED KK HEIM
DATE MARCH 30, 2026

SCALE: AS NOTED
NO. 17660.60.40
REV. 0
C.03

CADD 03-R5
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ESTIMATE REFERENCE NOTES

ITEM NO	ITEM CODE	UNIT	DESCRIPTION
34	4010-A	LF	**SEWER, DIP, WATER MAIN MATERIAL, FOR CONFLICTS, 16"**
			A. REFER TO SECTION 5010, 2.01 B FOR DIP MEETING AWWA C151. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE.
	4020-A-1	LF	**STORM SEWER, TRENCHED ; GENERAL APPLIES TO ITEMS 35 THRU 51**
			A. REFER TO SECTIONS 4020 AND SECTION 4060 IN THEIR ENTIRETY FOR REQUIREMENTS. B. THIS ITEM INCLUDES EVERYTHING LISTED IN 4020 1.08 A. 1 PLUS FIELD ENGINEERING; LABORATORY TESTING SERVICES; DEWATERING; SHEETING; SHORING; PIPING AND PUMPING FOR BYPASSING FLOW TO MAINTAIN SERVICE; REMOVAL OF EXISTING SEWER PIPES, WITHIN TRENCH LIMITS; PLUGGING OF EXISTING PIPING AND MANHOLES; WATER AND SEWER HOUSE SERVICE VERIFICATION AND REPAIR; UTILITY REPAIR; UTILITY COMPANY CHARGES FOR TEMPORARY RELOCATIONS, SUPPORTS OR BRACING; CONNECTIONS TO EXISTING SYSTEM AND PIPE CONNECTIONS; DEFLECTION TESTING OF PVC SEWERS (MANDREL), CLEANING, HAULING AND DISPOSAL OF UNSUITABLE TRENCH EXCAVATED MATERIAL, AND INCIDENTAL WORK. C. MEASUREMENT AND PAYMENT WILL BE MADE FOR VARIOUS DIAMETERS AND PIPE TYPE LISTED. LENGTH WILL BE MEASURED ALONG CENTER LINE OF PIPE WITH NO DEDUCTION FOR STRUCTURES. NO DIFFERENTIATION WILL BE MADE FOR DEPTH OF PIPE. D. FOR RCP PIPING, TRENCH BEDDING CLASS SHALL BE CLASS R-2 ACCORDING TO SUDAS FIGURE 3010.102 . PLACE CLASS I BEDDING MATERIAL TO SPRINGLINE (HORIZONTAL CENTERLINE) OF PIPE . CLASS I MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 3010 2.02A. CONSOLIDATE AND COMPACT BEDDING MATERIAL. E. WHEN PIPE CENTERLINE IS LOCATED UNDER, OR WITHIN 2-FEET OF THE OUTER EDGE OF PAVEMENT, FINAL TRENCH BACKFILL ABOVE THE BEDDING ZONE SHALL BE CLASS II GRANULAR BACKFILL MATERIAL MEETING THE REQUIREMENTS OF SECTION 3010. CLASS A ROADSTONE (IOWA DOT GRADATION 11) IS ACCEPTABLE. **MANSAND IS NOT ALLOWED. ALL BACKFILL MATERIAL IS INCLUDED IN THE PRICE OF THE PIPE.** F. REFER TO C SERIES SHEETS FOR STORM SEWER PIPE SUMMARY TABLE. G. FOR PVC INLET PIPING, TRENCH BEDDING CLASS SHALL BE CLASS F-3 ACCORDING TO SUDAS FIGURE 3010.103. USE CLASS 1 BEDDING MATERIAL ACCORDING TO 3010 2.02A. CONSOLIDATE AND COMPACT BEDDING MATERIAL. H. INTERNAL VIDEO INSPECTION OF STORM SEWERS ARE REQUIRED AND PAID AS A SEPARATE ITEM. I. MAINTAINING AND CONTROLING STORM WATER FLOW IS REQUIRED BY CONTRACTOR. TEMPORARY PIPE CONNECTIONS MAY BE NEEDED. CONTRACTOR TO SUBMIT PLAN TO CITY FOR REVIEW. J. UNSUITABLE EXCAVATED TRENCH MATERIAL MUST BE HAULED AWAY AND DISPOSED OF AT A SITE TO BE DETERMINED BY THE CONTRACTOR. CITY'S RAVINE FILL SITE NEAR LOCUST STREET IS NOT AVAILABLE. **DISPOSAL OF TRENCH SPOIL MATERIAL IS INCLUDED IN THE PRICE OF THE PIPE.**
35	4020-A-1	LF	**STORM SEWER, 12", CLASS IV RCP**
			A. REFER TO 2.01 A; PIPE SHALL CONFORM TO ASTM C76 WITH RUBBER O-RING OR PROFILE GASKETS MEETING ASTM C443. OUTSIDE JOINT WRAP NOT REQUIRED. B. USE FOR ALL INLET PIPING AND MAINLINE STORM SEWER.
36	4020-A-1	LF	**STORM SEWER, 12", CLASS IV RCP, CITY STOCK**
			A. USE 12-INCH RCP FROM CITY STOCK AT LAKE PARK BOULEVARD STORAGE YARD (FORMER DOT SITE). CONTRACTOR IS RESPONSIBLE FOR HAULING MATERIAL TO JOBSITE. RCP MUST MEET JOB SPECIFICATIONS AND INCLUDE GASKETS. B. THIS 12-INCH RCP IS INTENDED FOR USE ON CLIMER STREET'S INLET PIPING.
37	4020-A-1	LF	**STORM SEWER, 15", CLASS IV RCP**
			A. REFER TO 2.01 A; PIPE SHALL CONFORM TO ASTM C76 WITH RUBBER O-RING OR PROFILE GASKETS MEETING ASTM C443. OUTSIDE JOINT WRAP NOT REQUIRED. B. USE FOR ALL INLET PIPING AND MAINLINE STORM SEWER.
38	4020-A-1		**STORM SEWER, 15", CLASS IV RCP, CITY STOCK**
			A. USE 15-INCH RCP FROM CITY STOCK AT LAKE PARK BOULEVARD STORAGE YARD (FORMER DOT SITE). CONTRACTOR IS RESPONSIBLE FOR HAULING MATERIAL TO JOBSITE. RCP MUST MEET JOB SPECIFICATIONS AND INCLUDE GASKETS. B. CITY'S 15-INCH RCP STOCKED AMOUNT IS 160 FEET.
39	4020-A-1	LF	**STORM SEWER, 18", CLASS IV RCP**
			A. REFER TO 2.01 A; PIPE SHALL CONFORM TO ASTM C76 WITH RUBBER O-RING OR PROFILE GASKETS MEETING ASTM C443. OUTSIDE JOINT WRAP NOT REQUIRED.
40	4020-A-1	LF	**STORM SEWER, 24", CLASS IV RCP**
			A. REFER TO 2.01 A; PIPE SHALL CONFORM TO ASTM C76 WITH RUBBER O-RING OR PROFILE GASKETS MEETING ASTM C443. OUTSIDE JOINT WRAP NOT REQUIRED.
41	4020-A-1	LF	**STORM SEWER, 30", CLASS IV RCP**
			A. REFER TO 2.01 A; PIPE SHALL CONFORM TO ASTM C76 WITH RUBBER O-RING OR PROFILE GASKETS MEETING ASTM C443. OUTSIDE JOINT WRAP NOT REQUIRED.
42	4020-A-1	LF	**STORM SEWER INLET PIPING, 12" PVC (ASTM F949)**
			A. ITEM IS CORRUGATED EXTERIOR, SMOOTH INTERIOR PIPING (ASTM F949) ACCORDING TO 2.01 E., 1. A. 1). B. USE AS AN INLET PIPING OPTION UPON APPROVAL OF CITY ENGINEER. C. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE.
43	4020-A-1	LF	**STORM SEWER INLET PIPING, 15" PVC (ASTM F949)**
			A. ITEM IS CORRUGATED EXTERIOR, SMOOTH INTERIOR PIPING (ASTM F949) ACCORDING TO 2.01 E., 1. A. 1). B. USE AS AN INLET PIPING OPTION UPON APPROVAL OF CITY ENGINEER. C. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE.
44	4020-A-1	LF	**STORM SEWER, 8", PVC WATER MAIN**
			A. USE ITEM FOR INLET PIPING ON NEWELL AVENUE WHEN PVC PIPE MATERIAL IS SPECIFIED ON M DRAWINGS. B. PVC SHALL MEET REQUIREMENTS OF AWWA C900 WATER MAIN MATERIAL AS LISTED IN SECTION 5010, 2.01 A. MINIMUM WALL THICKNESS SHALL BE DR18 AND JOINT TYPE SHALL BE PUSH ON.
45	4020-A-1	LF	**STORM SEWER, 10", PVC WATER MAIN**
			A. USE ITEM FOR INLET PIPING ON NEWELL AVENUE WHEN PVC PIPE MATERIAL IS SPECIFIED ON M DRAWINGS. B. PVC SHALL MEET REQUIREMENTS OF AWWA C900 WATER MAIN MATERIAL AS LISTED IN SECTION 5010, 2.01 A. MINIMUM WALL THICKNESS SHALL BE DR18 AND JOINT TYPE SHALL BE PUSH ON.
46	4020-A-1	LF	**STORM SEWER, 12", PVC WATER MAIN**
			A. USE ITEM FOR INLET PIPING ON NEWELL AVENUE WHEN PVC PIPE MATERIAL IS SPECIFIED ON M DRAWINGS. B. PVC SHALL MEET REQUIREMENTS OF AWWA C900 WATER MAIN MATERIAL AS LISTED IN SECTION 5010, 2.01 A. MINIMUM WALL THICKNESS SHALL BE DR18 AND JOINT TYPE SHALL BE PUSH ON.

ESTIMATE REFERENCE NOTES

ITEM NO	ITEM CODE	UNIT	DESCRIPTION
47	4020-A-1	LF	**STORM SEWER, 14", PVC WATER MAIN**
			A. USE ITEM FOR INLET PIPING ON NEWELL AVENUE WHEN PVC PIPE MATERIAL IS SPECIFIED ON M DRAWINGS. B. PVC SHALL MEET REQUIREMENTS OF AWWA C900 WATER MAIN MATERIAL AS LISTED IN SECTION 5010, 2.01 A. MINIMUM WALL THICKNESS SHALL BE DR18 AND JOINT TYPE SHALL BE PUSH ON. C. USE FOR INSTANCES WHEN 15-INCH PVC IS LISTED ON M DRAWINGS. ALTERNATIVELY 16-INCH PVC CAN BE USED IF PIPE CLEARANCE OVER EXISTING WATER MAINS CAN BE MAINTAINED AT 18-INCHES.
48	4020-A-1	LF	**STORM SEWER, 16", PVC WATER MAIN**
			A. USE ITEM FOR INLET PIPING ON NEWELL AVENUE WHEN PVC PIPE MATERIAL IS SPECIFIED ON M DRAWINGS. B. PVC SHALL MEET REQUIREMENTS OF AWWA C900 WATER MAIN MATERIAL AS LISTED IN SECTION 5010, 2.01 A. MINIMUM WALL THICKNESS SHALL BE DR18 AND JOINT TYPE SHALL BE PUSH ON.
49	4020-A-1	LF	**STORM SEWER. 12", HDPE**
			A. USE ITEM FOR STORM SEWER ON TERRACE HEIGHTS DRIVEON SHEET M.18. B. HDPE PIPE SHALL COMPLY WITH SECTION 4020, 2.01 F. THIS PIPE IS DUAL WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR
50	4020-A-1	LF	**STORM SEWER. 18", HDPE**
			A. USE ITEM FOR STORM SEWER ON HAGERMAN DRIVE PROPERTY ON SHEET MSA.17. B. HDPE PIPE SHALL COMPLY WITH SECTION 4020, 2.01 F. THIS PIPE IS DUAL WALL WITH CORRUGATED EXTERIOR AND SMOOTH INTERIOR
51	4020-B-2	LF	**STORM SEWER, TRENCHLESS,12" STORM SEWER WITH CASING PIPE**
			A. REFER TO SECTION 4020 AND 3020 FOR REQUIREMENTS. B. CASING SIZE SHOWN IS 24-INCH DIAMETER. USE STEEL CASING PIPE IN ACCORDANCE WITH SECTION 3020, 2.02, MINIMUM THICKNESS 0.281". STEEL PRODUCTS SHALL BE COMPATIBLE WITH AMERICAN IRON AND STEEL REQUIREMENTS. C. CARRIER PIPE IS HDPE STORM SEWER MEETING AASHTO M294 D. LOCATION IS TERRACE HEIGHTS DRIVE,SHEET M.18 E. ITEM INCLUDES ALL COSTS FOR MATERIAL, LABOR, EXCAVATION, DEWATERING, SHEETING AND SHORING, PIPE PUSHING, DIRECTIONAL DRILLING, JACKING, BORING, OR AUGERING, OR OTHER TRENCHLESS CONSTRUCTION METHOD, FURNISHING AND INSTALLING SEWER PIPE AND CASING PIPE, SPACERS, AND END SEALS, EXCAVATION, BEDDING, BACK FILL PLACEMENT AND COMPACTION FOR LAUNCHING AND RECEIVING PITS AND PIPE, TRENCH PROTECTION MEASURES, PROTECTION OF EXISTING FEATURES AND PROTECTION OF UTILITIES, PIPE CONNECTIONS, TESTING, AND INSPECTION. F. CONTRACTOR MUST SUBMIT TRENCHLESS TECHNOLOGY PLAN PRIOR TO BEGINNING WORK.
52	4020-C	LF	**LINEAR TRENCH DRAIN**
			A. LOCATION IS TERRACE HEIGHTS DRIVE, SHEET M.18. SEE DRAWINGS FOR DESCRIPTION OF NEENAH TRENCH DRAIN. B. ITEM INCLUDES ALL COSTS AS LISTED IN 4020, 1.08 C PLUS COSTS TO REMOVE EXISTING TRENCH DRAIN. C. INSTALL ACCORDING TO MANUFACTURERS INSTRUCTIONS. SEE DETAIL SUDAS FIGURE 6010.521 FOR INSTALLATION REQUIREMENTS AND PAVEMENT TRANSITIONS.
53	4030-B	EA	**PIPE APRON, FOOTING, AND APRON GUARD**
			A. PROVIDE PIPE APRON AND GUARD FOR OPEN PIPE STORM SEWER INTAKE ON PRIVATE PROPERTY ON SHEET MSA.17. B. PROVIDE PIPE APRON AND FOOTING FOR STORM SEWER OUTLET FOR TERRACE HEIGHTS STORM SEWER ON SHEET M.18 C. INCLUDES ALL ITEMS AS LISTED IN 1.08 B, C, AND D FOR PIPE APRON, FOOTING, AND GUARD. D. APRONS SHALL BE CONCRETE ACCORDING TO FIGURE 4030.222. SEE FIGURE 4030.224 FOR GUARD. SEE FIGURE 4030.221 FOR FOOTING.
54	4040-A	LF	**TYPE 1 SUBDRAINS (LONGITUDINAL) CORRUGATED PE, 6"**
			A. SUBDRAINS SHALL BE INSTALLED UNDER ALL NEW PCC PAVEMENT ON BOTH SIDES. DRAWINGS DO NOT SHOW LOCATION OF REQUIRED SUBDRAIN. SEE TYPICAL PAVEMENT SECTION ON PLAN SHEET B.01. B. POROUS BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH 4040, 2.04 A., CRUSHED STONE OR PROCESSED GRAVEL. ENGINEERING FABRIC SHALL BE IN CONFORMANCE WITH 4040, 2.07. PLACEMENT OF SUBDRAIN MAY VARY DEPENDING ON LOCATION OF EXISTING UTILITIES. REFER TO SUDAS FIGURE 4040.231 FOR LOCATION OPTIONS. C. INCLUDES ITEMS LISTED IN 1.08 PLUS FURNISHING AND PLACING POROUS BACKFILL MATERIAL, ENGINEERING FABRIC, SPECIAL FITTINGS. SOCKED PIPE IS ACCEPTABLE IN LIEU OF ENGINEERING FABRIC. D. MATERIAL SHALL MEET REQUIREMENTS OF 4040, 2.02 D WITH SLOTS OR PERFORATIONS.
55	4040-D-1	EA	**SUBDRAIN OUTLETS AND CONNECTIONS**
			A. REFER TO FIGURE 4040.233 FOR CONNECTIONS TO OUTLET STRUCTURE AND RODENT GUARD. B. INCLUDES ALL ITEMS WITHIN 1.08 PLUS CONNECTION TO STRUCTURE, EXTENSION OF SUBDRAIN INTO STRUCTURE, CORE DRILLING.
56	4050-A-2	LF	**PRE-REHABILITATION CLEANING AND INSPECTION, ALL DIAMETERS**
			A. INCLUDES ITEMS LISTED IN 1.08. B. LOCATION FLETCHER AVENUE AND EXISTING UWBS NEAR IOWA AVENUE. C. SEE SECTION 4050 FOR REQUIREMENTS INCLUDING SUBMITTALS AND SPECIAL PUBLIC NOTIFICATION REQUIREMENTS.
57	4050-C-1	LF	**CIPP MAIN LINING, 8"**
			A. INCLUDES ITEMS LISTED IN 1.08, C B. LOCATION FLETCHER AVENUE SANITARY SEWER LINING. C. SEE SECTION 4050 FOR REQUIREMENTS INCLUDING SUBMITTALS SUCH AS THICKNESS DESIGN CALCULATIONS AND SPECIAL PUBLIC NOTIFICATION REQUIREMENTS. D. USE PRODUCTS MANUFACTURED WITH A FLAME BONDED SEAM. DO NOT USE PRODUCTS THAT REQUIRE TAPE ON THE SEAMS.

NOTES

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2. FOR EACH ITEM, CONTRACTOR SHALL CAREFULLY REVIEW THE REFERENCED SUDAS SPECIFICATION IN ITS ENTIRETY. SUDAS SPEC, ESTIMATE REFERENCE NOTES, SPECIAL PROVISIONS SECTION 00 75 00, AND THE DRAWINGS MUST BE REVIEWED TOGETHER FOR EACH PROJECT ITEM.. UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS, ALL PROVISIONS OF SUDAS APPLY.
3. MEASUREMENT AND PAYMENT DESCRIPTIONS IN PART 1.08 UNDER EACH SUDAS STANDARD SPECIFICATION SECTION SHALL BE REVIEWED IN CONJUNCTION WITH THESE ESTIMATE REFERENCE NOTES.
4. PROJECT IS FUNDED BY IOWA STATE REVOLVING FUND LOAN MONIES. SEE SPECIFICATION FOR DAVIS BACON WAGES AND AMERICAN IRON AND STEEL REQUIREMENTS.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ESTIMATE REFERENCE NOTES

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: AS NOTED
NO. 17660.60.40
REV. 0
C.04

CADD D3-R5
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ESTIMATE REFERENCE NOTES

ITEM NO	ITEM CODE	UNIT	DESCRIPTION
58	4050-XX	LF	**POLYURETHANE PIPE LINER, 48"** A. INCLUDES ITEMS LISTED IN 1.08 C. B. LOCATION EXISTING UWBS NEAR IOWA AVENUE. C. SEE SECTION 4050 FOR REQUIREMENTS INCLUDING SUBMITTALS SUCH AS THICKNESS DESIGN CALCULATIONS AND SPECIAL PUBLIC NOTIFICATION REQUIREMENTS. D. CONTRACTOR TO VERIFY PIPE SIZE PRIOR TO ORDERING MATERIALS. E. SEE PROJECT MANUAL FOR SPECIFICATIONS REQUIREMENTS FOR POLYURETHANE HYBRID LINER.
59	4050-C-2	EA	**BUILDING SANITARY SEWER SERVICE REINSTATEMENT** A. INCLUDES ITEMS LISTED IN 1.08. B. LOCATION FLETCHER AVENUE. C. SEE SECTION 4050 FOR REQUIREMENTS INCLUDING SUBMITTALS AND SPECIAL PUBLIC NOTIFICATION REQUIREMENTS.
60	4060-XX	LF	**INTERNAL VIDEO INSPECTION (ALL SEWER)** A. REFER TO SECTION 4060 FOR VIDEO INSPECTION REQUIREMENTS. INSPECTION REPORTING AND CODING DOCUMENATION SHALL CONFORM TO CURRENT NASSCO PACP REQUIREMENTS AND WORKERS TRAINED IN NASSCO METHODS. B. ITEM INCLUDES, BUT IS NOT LIMITED TO, ALL COSTS FOR LABOR, MATERIAL, AND EQUIPMENT FOR VIDEO INSPECTION AND RECORDING OF ALL NEWLY CONSTRUCTED SEWERS (SANITARY AND STORM) 8" AND LARGER, EXCLUDES BUILDING SERVICES. C. REFER TO 3.02 A; VIDEO INSPECTION MUST BE PERFORMED 1 WEEK PRIOR TO PAVING AND AFTER ALL BACKFILLING UNLESS OTHERWISED AUTHORIZED BY THE CITY IN WRITING. REPLACE BROKEN, CRACKED, OR OTHERWISE DEFECTIVE PIPE OR OFFSET JOINTS AND RESTORE SURFACE AT NO COST TO CITY. D. FLOW SHALL NOT EXCEED 20 PERCENT OF PIPE DIAMETER DURING INSPECTION. BYPASS PUMPING IS INCIDENTAL TO THIS ITEM. E. MEASUREMENT AND PAYMENT FOR THIS ITEM WILL BE AT THE UNIT PRICE PER LINEAL FOOT MEASURED ALONG CENTERLINE OF PIPE WITH NO DEDUCTIONS FOR MANHOLES. F. PLACING PAVEMENT PRIOR TO TELEVISING IS CONTRACTORS RISK AND IS NOT ADVISED. G. IF CONTRACTOR OR SUBCONTRACTOR PERFORMING THE VIDEO INSPECTION DISCOVERS A DEFECT, THEY MUST INFORM THE CITY IMMEDIATELY. H. NOTE VIDEO INSPECTION FOR PRE AND POST INSPECTION OF PIPE LINING AREA IS INCLUDED WITH LINING ITEMS.
61	5010-E-1	LF	**WATER SERVICE PIPE, COPPER, 1"** A. REPLACE WATER SERVICES WHEN IN DIRECT CONFLICT WITH SEWER INSTALLATION OR IF THEY ARE LEAD OR GALVANIZED. SERVICE LINE REPLACEMENT MUST BE APPROVED BY THE CITY. B. INCLUDES ITEMS LISTED IN 1.08 PLUS REMOVAL OF EXISTING SERVICES, GRANULAR BACKFILL WHEN IN THE STREET AND REMOVAL AND DISPOSAL OF TRENCH SPOILS, DISINFECTION, PRESSURE, LEAKAGE TESTING, AND BACTERIOLOGICAL TESTING. C. WORK SHALL BE PERFORMED UNDER SUPERVISION OF MPW INSPECTOR. D. MATERIAL SHALL MEET MPW'S STANDARD SPECIFICATIONS ISSUED IN 2023. E. SERVICE LINE SHALL BE 1-INCH TYPE K (HEAVY), SOFT ANNEALED, SEAMLESS COPPER. CONNECTIONS TO EXISTING SERVICE LINES SHALL BE 3 PIECE COMPRESSION TYPE, MUELLER 110 CONDUCTIVE COMPRESSION CONNECTION.
62	5010-E-2	EA	**WATER SERVICE CORPORATION** A. SEE REQUIREMENTS LISTED UNDER WATER SERVICE PIPE. B. SEE 1.08 FOR DESCRIPTION AND PAYMENT METHODS. C. CORPORATION SHALL BE MPW'S SPEC, MUELLER NO. B-25008, 1-INCH BRASS. CORPORATIONS WILL BE PROVIDED BY MPW.
63	5010-E-3	EA	**WATER SERVICE CURB STOP AND BOX** A. SEE REQUIREMENTS LISTED UNDER WATER SERVICE PIPE. B. SEE 1.08 E.3 FOR DESCRIPTION AND PAYMENT METHODS. C. CURB STOPS AND BOX SHALL BE MPW'S SPEC, LEAD FREE BRASS MUELLER H-10314 CURB STOP BOX AND VALVE WITH 5' LONG CURB BOX, EXTENSION TYPE, ARCH PATTERN BASE, ONE PIECE LID WITH ROD, UPPER SECTION LID TO BY TWO HOLE.
64	6010-A	EA	**SANITARY MANHOLE, ECCENTRIC, SW-301, 5' DIAMETER (8' DEEP), ITEMS 64-67** A. REFER TO SUDAS SECTION 6010 FOR REQUIREMENTS. B. INCLUDES ALL ITEMS LISTED IN 1.08 , PLUS ADDITIONAL ITEMS NOTED BUT NOT LIMITED TO, DEWATERING, PIPE CAPS, PLUGGING EXISTING PIPE ENDS, NEW STUB PIPE CONNECTIONS, COUPLERS AND FITTINGS, FLEXIBLE WATERTIGHT CONNECTIONS, BACKFILLING, COMPACTION, TRENCH SPOILS REMOVAL, TESTING, CLEANING, INSPECTIONS, CONNECTIONS TO EXISTING SYSTEMS IF REQUIRED, AND MISCELLANEOUS ASSOCIATED WORK FOR MANHOLES ZERO TO 8' DEEP MEASURED FROM TOP OF COVER TO INVERT OF LOWEST SEWER C. PAYMENT WILL BE MADE FOR VARIOUS MANHOLE CONFIGURATIONS LISTED D. SANITARY AND STORM MANHOLE JOINTS SHALL BE RUBBER O-RING OR PROFILE GASKET CONFORMING TO ASTM C443. JOINT SEALANT WRAP NOT REQUIRED. E. ALL SANITARY MANHOLES SHALL INCLUDE A MOLDED SHIELD INFILTRATION BARRIER. PAVEMENT BOXOUTS SHALL BE INSTALLED. DO NOT INSTALL MANHOLE STEPS. F. ALL CASTINGS FOR ECCENTRIC TOP AND FLAT TOP SHALLOW MANHOLES SHALL BE EAST JORDAN NO 1045Z WITH NO SUBSTITUTIONS. CASTINGS SHALL BE STANDARD DUTY TYPE A - TWO-PIECE FIXED CASTING WITH GASKET SEAL AND CONCEALED PICKHOLE. CASTINGS SHALL BE PLAIN LID NOT INCLUDE ANY SPECIAL WORDING. G. SALVAGE EXISTING CASTINGS OR COVER PLATES AND DELIVER TO PUBLIC WORKS FACILITY ON WASHINGTON STREET H. ALL ADJUSTMENT RINGS SHALL BE REINFORCED CONCRETE RINGS. A MINIMUM OF 4-INCHES ADJUSTMENT RING STACK HEIGHT IS REQUIRED. MINIMUM THICKNESS OF A SINGLE ADJUSTING RING IS 2-INCHES. DO NOT EXCEED 12-INCHES OF ADJUSTMENT RING STACK HEIGHT. I. REFER TO SUDAS FIGURE 6010.301 FOR TYPICAL ECCENTRIC CONE SANITARY MANHOLE DETAIL. J. REFER TO C SERIES SHEETS FOR SANITARY MANHOLE SUMMARY TABLE. K. COMPLY WITH REQUIREMENTS IN SECTION 6030 CLEANING, INSPECTION, AND TESTING OF STRUCTURES L. WHEN PIPE CENTERLINE IS LOCATED UNDER, OR WITHIN 2-FEET OF THE OUTER EDGE OF PAVEMENT, BACKFILL ABOVE THE PIPE BEDDING ZONE SHALL BE CLASS II GRANULAR BACKFILL MATERIAL MEETING THE REQUIREMENTS OF SECTION 3010. ALL BACKFILL MATERIAL IS INCLUDED IN THE PRICE OF THE PIPE OR MANHOLE. UNSUITABLE TRENCH SPOILS SHALL BE HAULED AWAY AND DISPOSED OF BY THE CONTRACTOR. CITY'S RAVINE FILL SITE IS UNAVAILABLE.

ESTIMATE REFERENCE NOTES

ITEM NO	ITEM CODE	UNIT	DESCRIPTION
65	6010-A	EA	**SANITARY MANHOLE, ECCENTRIC, SW-301, 5' DIAMETER - CITY STOCK** A. USE ECCENTRIC SANITARY MANHOLE FROM CITY STOCK AT LAKE PARK BOULEVARD STORAGE YARD (FORMER DOT SITE). CONTRACTOR IS RESPONSIBLE FOR HAULING MATERIAL TO JOBSITE. B. CITY STOCK MANHOLE IS INTENDED FOR USE FOR CLIMER STREET SANITARY SEWER.
66	6010-A	LF	**SANITARY MANHOLE, EXTRA DEPTH, 5' DIAMETER** A. ITEM INCLUDES ALL COSTS FOR DEPTH IN EXCESS OF 8' FOR ECCENTRIC OR FLAT TOP MANHOLES AS MEASURED FROM TOP OF COVER TO INVERT OF LOWEST SEWER. B. MEASUREMENT AND PAYMENT FOR THIS ITEM WILL BE AT THE UNIT PRICE PER VERTICAL FOOT EXCEEDING 8' .
67	6010-A	EA	**SANITARY MANHOLE, SW-401 FLAT TOP, 5' DIAMETER** A. ITEM INCLUDES ALL COSTS FOR FURNISHING AND INSTALLING A FLAT TOP SANITARY MANHOLE INCLUDING THE SAME ITEMS OF WORK LISTED UNDER "SANITARY MANHOLE, ECCENTRIC" ABOVE. B. CONSTRUCT ACCORDING TO SW-301 EXCEPT SWAPING OUT THE ECCENTRIC CONE WITH A VERTICAL RISER FLAT TOP SECTION LIKE SW-401.
68	6010-A	EA	**STORM MANHOLE, FLAT TOP, SW-401, 5' DIAMETER (UP TO 8' DEEP)** A. ITEM INCLUDES ALL COSTS FOR FURNISHING AND INSTALLING FLAT TOP STORM MANHOLE INCLUDING THE SAME ITEMS OF WORK LISTED UNDER "SANITARY MANHOLE, ECCENTRIC" ABOVE EXCLUDING INFILTRATION BARRIERS. B. SEE SUDAS FIGURE 6010.401 (SW-401) FOR CIRCULAR FLAT TOP STORM SEWER MANHOLE. SEE C SERIES SHEETS FOR STORM MANHOLE TABULATION. REFER TO M SERIES SHEETS FOR LOCATIONS.
69	6010-A	EA	**STORM MANHOLE, LOW HEADROOM FLATTOP** A. ITEM INCLUDES ALL COSTS FOR FURNISHING AND INSTALLING STORM MANHOLE WITH A LOW HEADROOM FLATTOP INCLUDING THE SAME ITEMS OF WORK LISTED UNDER "SANITARY MANHOLE, ECCENTRIC" ABOVE EXCLUDING INFILTRATION BARRIERS. B. SEE LOW HEADROOM FLATTOP CONFIGURATION SHOWN ON DRAWING A.04
70	6010-A	LF	**STORM MANHOLE, EXTRA DEPTH, 5' DIAMETER** A. ITEM INCLUDES ALL COSTS FOR DEPTH IN EXCESS OF 8' FOR ECCENTRIC OR FLATTOP MANHOLES AS MEASURED FROM TOP OF COVER TO INVERT OF LOWEST SEWER. B. MEASUREMENT AND PAYMENT FOR THIS ITEM WILL BE THE UNIT PRICE PER VERTICAL FOOT EXCEEDING 8'.
	6010-B	EA	**STORM INTAKE/INLET, GENERAL APPLIES TO 71-74** A. INCLUDES ITEMS LISTED IN 1.08 PLUS ALL INCIDENTAL WORK TO COMPLETE CONSTRUCTION OF EACH INLET TYPE LISTED. INSTALLATION SHALL INCLUDE RE-GRADING AND SHAPING AREA TO PROVIDE POSITIVE DRAINAGE TO THE INLET. B. REFER TO LISTED SUDAS FIGURES. C. SEE SHEET M.00 NOTE 6 FOR DESCRIPTION OF INLET STRUCTURE PLACEMENT IN CURB LINE. D. REFER TO C SERIES SHEETS FOR INLET STRUCTURE TABULATION. REFER TO M SERIES SHEETS FOR LOCATIONS.
71	6010-B	EA	**STORM INLET, SW-501** A. RECTANGULAR INLET STRUCTURE WITH CURB BOX AND GRATE. REFER TO SUDAS FIGURE 6010.501 (SW-501) AND CASTING SW-603 TYPE R. B. REFER TO M SHEETS FOR NOTES REGARDING POSSIBLE CAST IN PLACE OR FIELD MODIFICATION OF SELECT SW-501 INETS ON THE NORTH SIDE OF NEWELL AVENUE.
72	6010-B	EA	**STORM INLET, SW-507** A. SUDAS SINGLE OPEN THROAT CURB INLET SMALL BOX. REFER TO SUDAS FIGURE 6010.507 (SW-507). B. REFER TO M SHEETS FOR NOTES REGARDING POSSIBLE CAST IN PLACE OR FIELD MODIFICATION OF SELECT SW-507 INETS ON THE NORTH SIDE OF NEWELL AVENUE.
73	6010-B	EA	**STORM INLET, SW-509** A. SUDAS DOUBLE OPEN THROAT CURB INLET SMALL BOX. REFER TO SUDAS FIGURE 6010.509 (SW-509).
74	6010-B	EA	**STORM INLET, SW-545, DOUBLE EXTENSION** A. SUDAS OPEN THROAT CURB INTAKE WITH EXTENDED OPENING ON EACH SIDE OF THROAT. REFER TO SUDAS FIGURE 6010.545 (SW-545). B. LOCATION IS LUCAS STREET NEAR GREENWOOD CEMETERY CHAPEL ON SHEET M.16. IN LIEU OF USING SW-545 DETAIL, CONTRACTOR MAY INSTALL A CAST IN PLACE STRUCTURE. SUBMIT PLAN TO REPLACE INTAKE FOR APPROVAL.
75	6010-H	EA	**REMOVE MANHOLE OR INTAKE** A. INCLUDES LISTED ITEMS IN 1.08 TO REMOVE EXISTING MANHOLES AND INTAKES IN THEIR ENTIRTY PLUS EXCAVATION, DEWATERING, SHEETING, SHORING, TRANSPORTATION, AND DISPOSAL OF REMOVED STRUCTURE, AND EXCAVATED MATERIAL AND INCIDENTAL WORK. B. REMOVAL AND SALVAGE OF EXISTING FRAME AND LID SHALL BE CONSIDERED INCIDENTAL WORK AND TAKEN TO CITY STORAGE YARD. STRUCTURES SHALL NOT BE FILLED WITH FLOWABLE MORTAR BUT REMOVED COMPLETELY. ALL PIPE ENDS OF PIPES TO ABANDONED SHALL BE PLUGGED AND FILLED WITH CONCRETE ACCORDING TO 3.07. C. SEE SHEET C.09 FOR TABULATION.
76	6010-X	EA	**CURB OPENING CASTING** A. USE FOR CONNECTING EXISTING DOWNSPOUT AND STORM WATER DRAINS TO CURB, ONLY WHEN APPROVED BY THE CITY. CITY PREFERENCE IS OVERLAND FLOW TO THE STREET. B. ITEM INCLUDES ALL COSTS TO INSTALL CASTING IN THE CURB BEFORE OR AFTER THE CONCRETE CURB HAS BEEN PLACED. CASTING SHALL BE MODEL NEENAH R-3262. C. PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE.

NOTES

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2. FOR EACH ITEM, CONTRACTOR SHALL CAREFULLY REVIEW THE REFERENCED SUDAS SPECIFICATION IN ITS ENTIRETY. SUDAS SPEC, ESTIMATE REFERENCE NOTES, SPECIAL PROVISIONS SECTION 00 75 00, AND THE DRAWINGS MUST BE REVIEWED TOGETHER FOR EACH PROJECT ITEM.. UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS, ALL PROVISIONS OF SUDAS APPLY.
3. MEASUREMENT AND PAYMENT DESCRIPTIONS IN PART 1.08 UNDER EACH SUDAS STANDARD SPECIFICATION SECTION SHALL BE REVIEWED IN CONJUNCTION WITH THESE ESTIMATE REFERENCE NOTES.
4. PROJECT IS FUNDED BY IOWA STATE REVOLVING FUND LOAN MONIES. SEE SPECIFICATION FOR DAVIS BACON WAGES AND AMERICAN IRON AND STEEL REQUIREMENTS.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ESTIMATE REFERENCE NOTES

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: AS NOTED
NO. 17660.60.40
REV. 0
C.05

CADD D3-R5

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ESTIMATE REFERENCE NOTES

ITEM NO	ITEM CODE	UNIT	DESCRIPTION
77	7010-A	SY	**PCC PAVEMENT, 7-INCH** MACHINE PAVING IS REQUIRED UNLESS CITY ENGINEER APPROVES OTHER PLACEMENT METHODS. POWER/LASER SCREED WILL NOT BE ALLOWED ON MAINLINE DRIVING SURFACES. A. SEE SHEET B.01 FOR TYPICAL SECTIONS. REFER TO D SHEETS FOR LAYOUT. REFER TO L SHEETS FOR JOINTING AT INTERSECTIONS. B. IOWA DOT C4-WR CONCRETE MIX SHALL BE USED. SUBSTITUTE MIX DESIGNS TO BE APPROVED BY CITY ENGINEER. MIXES WITH FLY ASH MAYBE ACCEPTABLE UPON APPROVAL. C. PAYMENT FOR THIS ITEM WILL BE SUBJECT TO LIMITATIONS OUTLINED AS FOLLOWS: a. NO PAYMENT WILL BE MADE FOR PAVEMENT REPLACEMENT OUTSIDE THE LIMITS SHOWN ON PLANS UNLESS AUTHORIZED BY CITY ENGINEER. b. COLD WEATHER AND RAIN PROTECTION IS INCIDENTAL TO STREET PAVEMENT REPLACEMENT AND NO ADDITIONAL PAYMENT WILL BE MADE WHEN PROTECTION IS REQUIRED. SEE SECTION 7010, 3.04. c. ITEM INCLUDES QUANTITIES FOR CURB AND GUTTER SECTIONS CONNECTED TO PAVEMENT. d. ITEM INCLUDE ALL LABOR AND MATERIALS FOR INSTALLATION OF REINFORCEMENT. SEE FIGURE 7010.101 FOR JOINT DETAILS. 7" PCC SHALL HAVE TYPE L-1, KT-1 OR BT-1 LONGITUDINAL JOINTS DEPENDING ON PAVING SEQUENCE. 7" PCC TRANSVERSE JOINTS SHALL HAVE EPOXY COATED DOWELS. e. REFER TO 1.08 FOR MEASUREMENT AND PAYMENT DESCRIPTION.
78	7010-A	SY	**PCC PAVEMENT, 8-INCH** A. 8-INCH PAVEMENT SHALL BE USED ON NEWELL AVENUE AND LUCAS STREET. B. SEE DESCRIPTION OF UNDER 7-INCH PAVEMENT. C. REINFORCEMENT FOR 8-INCH PAVEMENT SHALL BE EPOXY COATED DOWEL BASKETS FOR TRANSVERSE JOINTS AND EPOXY COATED L-2 OR KT-2 STEEL FOR LONGITUDINAL JOINTS.
79	7010-I	LS	**PCC PAVEMENT SAMPLES AND TESTING** A. REFER TO SUDAS SECTION 7010, 3.07 FOR TESTING QUALITY CONTROL. B. INCLUDES ITEMS LISTED IN 1.08 PLUS SLUMP AND AIR TESTING, PAVEMENT SMOOTHNESS STRAIGHTEDGE TESTING AND OTHER TESTS AT CONTRACTOR DISCRETION. C. CERTIFIED PLANT INSPECTION AND MATURITY TESTING ARE REQUIRED ACCORDING TO SECTION 3.07 A. D. SLUMP AND AIR CONTENT TESTING ARE REQUIRED ACCORDING TO SECTION 3.07 A AND B. CITY WILL PERFORM INDEPENDENT ON GRADE SLUMP AND AIR FIELD TESTING. E. PAVEMENT SMOOTHNESS STRAIGHTEDGE TESTING SHALL BE PROVIDED ACCORDING TO SECTION 3.07, C. 1. F. PAVEMENT THICKNESS TESTING IS NOT REQUIRED. G. CONTRACTOR SHALL PERFORM TESTS AT THEIR DISCRETION FOR QUALITY ASSURANCE.
80	7010-I	LS	**PCC PAVEMENT SMOOTHNESS TESTING - PROFILER** A. REFER TO 3.07 C. 2 FOR PROFILER TESTING REQUIREMENTS AND CORRECTIVE MEASURES. B. SURFACE CORRECTIONS SHALL BE MADE FOR OUT OF SPEC PAVEMENT AT NO ADDITIONAL COSTS TO CITY.
81	7020-A	TON	**ASPHALT PAVEMENT BY TON** A. INCLUDED ITEMS ARE LISTED IN 1.08 PLUS ALL COSTS FOR LABOR, MATERIALS AND EQUIPMENT FOR MIX DESIGN, PRODUCING, PLACING AND TESTING THE BITUMINOUS PAVING MIXTURE. INCLUDES DEVELOPMENT OF MIX DESIGN, PREPARATION AND CLEANING OF THE ROADBED, APPLICATION OF TACK COATS, PLACEMENT AND COMPACTION OF LEVELING AND SURFACE COURSES, AND TESTING OF EACH LIFT PER SECTION 7020. B. ITEM MAY BE USED FOR TEMPORARY ROADWAYS UPON CITY APPROVAL. C. QUANTITY INCLUDES AN ESTIMATE OF 57 TONS OF ASPHALT FOR REPLACEMENT OF HMA PAVEMENT AND DITCHES ON TERRACE HEIGHTS WITH A PAVEMENT THICKNESS OF 6-INCHES, PLUS AN ALLOWANCE OF ASPHALT FOR TEMPORARY ROADWAYS.
82	7030-A-1	SY	**REMOVAL OF SIDEWALK** A. SEE R (DEMOLITION) DRAWINGS FOR LIMITS OF SIDEWALK REMOVAL. B. UNIT PRICE INCLUDES ALL ITEMS LISTED IN 1.08 AND INCLUDES CAREFUL REMOVAL AND SALVAGE OF DECORATIVE SIDEWALK IF ENCOUNTERED ON THE PROJECT OR DIRECTED BY THE ENGINEER. DECORATIVE SIDEWALK PAVERS SHALL BE SALVAGED AND STOCKPILED FOR PROPERTY OWNER AT A LOCATION AGREED UPON WITH PROPERTY OWNER. C. PAYMENT FOR SIDEWALK REMOVED WILL BE BASED ON ACTUAL QUANTITY OF SIDEWALK REMOVED NOT TO EXCEED LIMITS DEFINED ON DRAWINGS UNLESS ADDITIONAL AREAS HAVE BEEN AUTHORIZED BY CITY ENGINEER.
83	7030-A-3	SY	**REMOVAL OF DRIVEWAY/ALLEY** A. INCLUDED ITEMS ARE AS LISTED IN 1.08 B. SEE R (DEMOLITION) DRAWINGS FOR LIMITS OF DRIVEWAY, AND ALLEY REMOVAL. C. PAYMENT OF DRIVEWAY/ALLEY PAVEMENT REMOVED WILL BE BASED ON THE ACTUAL QUANTITY OF PAVEMENT REMOVED UP TO THE MAXIMUM LIMITS DEFINED ON DRAWINGS UNLESS ADDITIONAL AREAS HAVE BEEN AUTHORIZED BY CITY ENGINEER. ESTIMATED QUANTITY INCLUDES SIDEWALK PANELS THAT FALL WITHIN THE DRIVEWAY.
84	7030-B	LF	**REMOVAL OF CURB, LIMESTONE CURB** A. ITEM INCLUDES, BUT IS NOT LIMITED TO, ALL COSTS FOR LABOR, MATERIALS AND EQUIPMENT FOR REMOVING AND SALVAGING LIMESTONE CURB UNITS. INCLUDES EXCAVATION, CAREFUL REMOVAL, LOADING, HAULING, UNLOADING AND STACKING CURB UNITS AT CITY'S PUBLIC WORKS FACILITY ON WASHINGTON STREET. B. LOCATIONS WITH LIMESTONE CURBS HAVE NOT BEEN IDENTIFIED ON THE DRAWINGS. IF ENCOUNTERED, SALVAGE AS INDICATED. C. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE.
85	7030-E	SY	**PCC SIDEWALK, 4-INCH** A. INCLUDES ITEMS LISTED IN 1.08. B. SEE D SERIES SHEETS FOR LIMITS OF SIDEWALK PLACEMENT. C. PAYMENT WILL BE BASED ON THE ACTUAL AREA INSTALLED UP TO THE MAXIMUM LIMITS SHOWN ON THE DRAWINGS UNLESS ADDITIONAL SIDEWALK REPLACEMENT IS AUTHORIZED BY CITY ENGINEER. D. COLD WEATHER AND RAIN PROTECTION IS INCIDENTAL. NO ADDITIONAL PAYMENT WILL BE MADE WHEN REQUIRED. E. SIDEWALK SHALL BE THICKENED AT LOCATIONS OF DETECTABLE WARNING TILE INSTALLATIONS AND PAID FOR SEPARATELY AS 6-INCH PCC SIDEWALK.

ESTIMATE REFERENCE NOTES

ITEM NO	ITEM CODE	UNIT	DESCRIPTION
86	7030-E	SY	**PCC SIDEWALK, 6-INCH** A. SAME NOTES APPLY TO THIS ITEM AS LISTED UNDER "PCC SIDEWALK, 4-INCH". B. THIS ITEM IS SOLELY FOR THICKENED SIDEWALK AT LOCATIONS OF DETECTABLE WARNING TILE INSTALLATION. C. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE.
87	7030-G	SF	**DETECTABLE WARNINGS** A. INCLUDES ALL ITEMS LISTED IN 1.08. B. SEE S SHEETS FOR LOCATION OF DETECTABLE WARNING TILES. C. SEE SUDAS DETAILS FOR PLACEMENT AND REQUIREMENTS. D. MANUFACTURER SHALL BE ENGINEERED PLASTICS, INC. WILLIAMSVILLE, NY, ARMOR-TILE OR EQUAL. COLOR SHALL BE BRICK RED AND MATERIAL SHALL BE VITRIFIED POLYMER COMPOSITE (VPC).
88	7030-H-1	SY	**PAVED DRIVEWAYS, AND ALLEYS, PCC, 6-INCH** A. INCLUDES ALL ITEMS LISTED IN 1.08. B. SEE D SERIES SHEETS FOR LIMITS OF DRIVEWAY/ALLEY PLACEMENT. C. PAYMENT FOR THIS ITEM WILL BE BASED ON THE ACTUAL AREA INSTALLED UP TO THE MAXIMUM LIMITS SHOWN ON THE DRAWINGS. NO PAYMENT WILL BE MADE BEYOND THE MAXIMUM LIMITS SHOWN ON THE DRAWINGS UNLESS AUTHORIZED BY CITY ENGINEER. D. COLD WEATHER AND RAIN PROTECTION IS INCIDENTAL. NO ADDITIONAL PAYMENT WILL BE MADE WHEN REQUIRED. E. SEE TABLE IN C SERIES SHEETS FOR LIST OF DRIVEWAY REMOVALS AND REPLACEMENTS.
89	7040-G	SY	**MILLING** A. INCLUDES ALL ITEMS LISTED IN 1.08 PLUS PERFORMING CLEANUP AND PROVIDING SAFE DRIVABLE SURFACES FOR RESIDENTIAL ACCESS AFTER MILLING BUT PRIOR TO EXISTING SUBBASE REMOVAL. B. MILLINGS SHALL BE HAULED TO CITY LOT ON WASHINGTON STREET. C. ASPHALT REMOVAL PERFORMED WITH EXCAVATOR WILL NOT BE PAID FOR AND IS INCIDENTIAL TO SEWER OR PAVEMENT INSTALLATION.
90	7040-H	SY	**PAVEMENT REMOVAL, CONCRETE** A. INCLUDES ALL ITEMS LISTED IN 1.08. B. REMOVED CONCRETE SHALL BE SALVAGED, HAULED AND UNLOADED AT THE CITY LOT ON WASHINGTON STREET. C. PAYMENT WILL BE MADE FOR THE ACTUAL QUANTITY OF PAVEMENT REMOVED UP TO THE MAXIMUM LIMITS SHOWN ON DRAWINGS. NO PAYMENT WILL BE MADE FOR PAVEMENT REMOVED OUTSIDE THE LIMITS SHOWN ON THE DRAWINGS UNLESS AUTHORIZED BY THE CITY ENGINEER. D. THIS ITEM IS NOT INTENDED TO BE USED FOR REMOVAL OF ASPHALT WITH AN EXCAVATOR.
91	7040-XX	SY	**SUBBASE MATERIAL REMOVAL AFTER MILLING** A. REFER TO SUDAS SECTION 7040, 1.08, H; AND 3.08. B. ITEM INCLUDES, BUT IS NOT LIMITED TO, ALL COSTS FOR LABOR, MATERIALS AND EQUIPMENT REQUIRED TO REMOVE THE BASE MATERIAL UNDERNEATH THE TOP DRIVING SURFACE (ASPHALT OR CONCRETE PAVING). BASE MATERIAL COULD BE CONCRETE OR PAVING BRICKS BELOW THE STREET SURFACE. INCLUDES SAW-CUTTING, BREAKING, LOADING, HAULING AND DISPOSAL OF PAVEMENT MATERIALS, DEBRIS REMOVED, AND BRICKS SALVAGED. C. MEASUREMENT AND PAYMENT FOR THIS ITEM WILL BE AT THE UNIT PRICE PER SQUARE YARD FOR THE ACTUAL QUANTITY OF SUBBASE MATERIAL REMOVED UP TO THE MAXIMUM LIMITS SHOWN IN THE DRAWINGS. NO PAYMENT WILL BE MADE FOR SUBBASE MATERIAL REMOVED OUTSIDE THE LIMITS SHOWN ON THE DRAWINGS UNLESS AUTHORIZED BY THE CITY ENGINEER. D. ITEM INCLUDES REMOVING, CAREFULLY SALVAGING, LOADING PAVING BRICK UNITS AT THE PROJECT SITE. ITEM INCLUDES HAULING, AND UNLOADING PAVING BRICK UNITS, AT PUBLIC WORKS FACILITY ON WASHINGTON STREET. E. ITEM DOES NOT INCLUDE EXCAVATION OF AGGREGATES UNDER THE DRIVING SURFACE WHICH IS PAID FOR ACCORDING TO ITEM CLASS 10 EXCAVATION. F. BRICK BASE UNDER THE DRIVING SURFACE IS NOT ANTICIPATED IN THIS PROJECT. QUANTITY INCLUDED IS PROVISIONAL TO OBTAIN A UNIT PRICE.
92	8020-C	STA	**PAINTED PAVEMENT MARKINGS, DURABLE** A. SEE D SHEETS FOR PAVEMENT MARKING PROPOSED LOCATIONS. LOGAN STREET AND NEWELL AVENUE HAVE EXISTING PAVEMENT MARKINGS. B. SEE SECTION 8020. 1.03 FOR SUBMITTAL REQUIREMENTS. C. PRIOR TO BEGINNING OF STREET DEMOLITION, CONTRACTOR TO RECORD LOCATION OF EXISTING PAVEMENT MARKINGS. COORDINATE WITH CITY PRIOR TO PLACEMENT OF NEW MARKINGS. D. INCLUDES ALL ITEMS LISTED IN 1.08. E. CONSTRUCTION TO MATCH EXISTING USING DURABLE PAINT WITH GLASS BEADS. PAYMENT WILL BE MADE FOR ALL TYPES OF MARKINGS BASED ON LENGTH, MEASURED IN STATIONS (STA).
93	8030-A	LS	**TEMPORARY TRAFFIC CONTROL** A. SEE J SERIES TRAFFIC CONTROL AND STAGING SHEETS FOR REQUIREMENTS. B. INCLUDES ALL ITEMS LISTED IN 1.08 FOR ALL TEMPORARY TRAFFIC CONTROL TO COMPLETE PROJECT. CONTRACTOR TO SUPPLY 'NO PARKING' TRAFFIC CONES THE DURATION OF THE PROJECT. CONTRACTOR SHALL REPLACE LOST OR MISPLACED CONES AT NO ADDITIONAL COST TO THE CITY. C. CONTRACTOR TO SUBMIT PROJECT SCHEDULE ALONG WITH CONTRACTOR'S TRAFFIC CONTROL PLAN. CITY RESERVES THE RIGHT TO RESTRICT TOTAL LENGTH OF WORK ZONES. ALL TRAFFIC CONTROL PLANS MUST BE REVIEWED AND ACCEPTED BY CONTRACTOR WITH ALL CHANGES APPROVED BY THE CITY. D. REFER TO SPECIAL PROVISIONS SECTION 00 75 00 AND J SHEETS FOR CONSTRUCTION STAGING CONSTRAINTS.
94	8030-XX	SF	**SPECIAL SIGNAGE** A. REFER TO SUDAS SECTION 8030 AND MUTCD FOR SIGN STANDARDS. B. ITEM IS USED FOR THE TWO PROJECT CONSTRUCTION SIGNS SHOWN ON SHEET A.02 AND DETAILED IN PROJECT MANUAL SECTION 01 50 00. C. THIS ITEM MAY BE USED FOR SPECIAL TEMPORARY SIGNAGE BEYOND THOSE SHOWN ON DRAWINGS. SPECIAL SIGNAGE COULD INCLUDE SPECIAL LETTERING NOT FOUND ON STANDARD SIGNS. LETTERING SHALL BE BLACK ON WHITE SIGN. USE OF ITEM MUST BE AUTHORIZED BY CITY. D. MEASUREMENT AND PAYMENT FOR THIS ITEM WILL BE AT THE UNIT PRICE PER SQUARE FOOT OF SIGN.

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3. MEASUREMENT AND PAYMENT DESCRIPTIONS IN PART 1.08 UNDER EACH SUDAS STANDARD SPECIFICATION SECTION SHALL BE REVIEWED IN CONJUNCTION WITH THESE ESTIMATE REFERENCE NOTES.
4. PROJECT IS FUNDED BY IOWA STATE REVOLVING FUND LOAN MONIES. SEE SPECIFICATION FOR DAVIS BACON WAGES AND AMERICAN IRON AND STEEL REQUIREMENTS.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ESTIMATE REFERENCE NOTES

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: AS NOTED

NO. 17660.60.40	REV.
C.06	0

CADD D3-R5
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ESTIMATE REFERENCE NOTES			
ITEM NO	ITEM CODE	UNIT	DESCRIPTION
95	8040-I	EA	**REMOVE AND REINSTALL TRAFFIC SIGNS** A. CONTRACTOR REMOVE, SALVAGE, STORE, AND REINSTALL CITY'S TRAFFIC SIGNS. B. COORDINATE WITH CITY TO DETERMINE IF SIGNS CAN BE STORED AT CITY STORAGE YARDS.
96	9010-A	SF	**SEEDING, FERTILIZING & MULCHING FOR CONVENTIONAL SEEDING, RESIDENTIAL (TYPE 1)** A. SEE ENTIRE DESCRIPTION UNDER "SEEDING, FERTILIZING, & MULCHING FOR HYDRAULIC SEEDING, RESIDENTIAL (TYPE 1)" B. ITEM CAN BE USED INSTEAD OF HYDRAULIC SEEDING AT CITY'S DISCRETION. C. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE.
97	9010-B	SF	**SEEDING, FERTILIZING, & MULCHING FOR HYDRAULIC SEEDING, RESIDENTIAL (TYPE 1)** A. ALL TURF RESTORATION SHALL BE SODDING UNLESS OTHERWISE DIRECTED BY THE CITY. SEEDING MAY BE USED FOR LARGE AREAS OUTSIDE OF IMMEDIATE STREET ROW ON PRIVATE PROPERTY AT CITY'S DIRECTION. B. FOR SUBMITALS REFER TO SUDAS SECTION 9010.1.03. C. ALL DISTURBED AREAS MUST BE SEEDED OR SODDED. AN ESTIMATE OF 6594 SF IS INCLUDED FOR THIS ITEM FOR RESTORATION OF TURF SURFACES OUTSIDE OF ROW RESULTING FROM SANITARY SEWER SERVICE WORK ON PRIVATE PROPERTY. SHAPES OF AREAS DISTURBED FOR THIS PURPOSE IS NOT SHOWN ON DRAWINGS. D. NOTE, AREAS DAMAGED OUTSIDE OF CONSTRUCTION LIMITS THAT HAVE NOT BEEN AUTHORIZED AS A WORK AREA SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE. E. INCLUDES THOSE ITEMS LISTED IN 1.08 IN ADDITION TO MAINTENANCE AND MOWING UNTIL ACCEPTED BY CITY, CLEAN-UP, RESEEDING NECESSARY UNTIL SEEDING IS ESTABLISHED, AND INCIDENTALS FOR RE-ESTABLISHING LAWNS AND GRASS AREAS.
98	9010-D	MGAL	**WATERING, BEYOND MINIMUM CARE PERIOD** A. CONTRACTOR IS REQUIRED TO WATER TURF AREAS DURING CARE PERIOD AND AFTER CARE PERIOD. B. CONTRACTOR CARE PERIOD FOR SEEDED AREAS INCLUDES A MINIMUM OF 21 DAYS OF WATERING. SODDED AREAS INCLUDE A MINIMUM 30 DAYS OF CONTRACTOR CARE AFTER INSTALLATION. C. THIS ITEM CAN BE USED FOR WATERING BEYOND THE CARE PERIOD WHEN AUTHORIZED BY THE CITY ENGINEER. D. SEE SECTION 9010 1.08 FOR DESCRIPTION OF ITEM. E. FOR WATERING REQUIREMENTS SEE SECTION 9010 3.07 FOR SEEDING AND SECTION 9020 3.04 FOR SODDED AREAS. F. CONTRACTOR SHALL KEEP LOG OF WATERING ACTIVITIES TO DEMONSTRATE ADHERENCE TO MINIMUM REQUIREMENTS. CONTRACTOR MUST PROVIDE MEANS FOR METERING OR QUANTIFYING THE AMOUNT OF WATER UTILIZED.
99	9020-A	SY	**SOD** A. SEE RR SHEETS FOR LOCATIONS WHERE SOD IS ANTICIPATED. USE SOD IN ALL AREAS LOCATED ALONG STREET PAVEMENT IN CITY ROW. SEEDING CAN BE USED FOR LARGE YARD AREAS IF DIRECTED BY THE CITY. B. SEE 1.08 FOR DESCRIPTION OF ITEM. C. DO NOT INSTALL SOD BETWEEN JUNE 15 AND AUGUST 15 UNLESS AUTHORIZED BY THE CITY. D. PROVIDE MAINTENANCE AS DESCRIBED IN SECTION 9020 FOR THE RQUIRED 30 DAY CARE PERIOD INCLUDING WATERING, WEEDING, MOWING, AND REPLACEMENT OF FAILED SOD. E. NOTE MEASUREMENT OF SOD IS IN SQUARE YARDS AND IS DIFFERENT FROM MEASUREMENT OF SEEDING IN SQUARE FEET.
100	9030-A	SF	**PLANTS, LANDSCAPING BY AREA** A. SEE 1.08 FOR DESCRIPTION OF ITEM. B. MEASUREMENT AND PAYMENT UNIT IS SQUARE FOOT AREA. C. SEE SHEET C.19 FOR KNOWN AREAS WITH PLANTINGS. D. PROTECT EXISTING PLANTS AND LANDSCAPING WHEN POSSIBLE. WHEN NOT POSSIBLE SALVAGE PLANTS IF THEY CAN BE REPLANTED. DOCUMENT TYPE AND LOCATION OF EXISTING PLANTS AND LANDSCAPE FEATURES WITH PHOTOS PRIOR TO REMOVAL. REPLACE PLANTS TO MATCH EXISTING CONDITION. E. ONCE PLANTS ARE REPLANTED MAINTENANCE WILL RETURN TO PROPERTY OWNER.
101	9040-A-2	LS	**SWPPP MANAGEMENT** A. REFER TO SUDAS SECTION 9040, 1.07 FOR SPECIAL REQUIREMENTS. SEE 3.02, AND 3.03 FOR SWPPP MANAGEMENT AND INSPECTION REQUIREMENTS. B. INCLUDES ALL ITEMS LISTED IN 1.08 A.2. AND CONTRACTOR/INSTALLER/INSPECTOR/WORKER TRAINING, WEEKLY INSPECTIONS OF EROSION/SEDIMENT CONTROL MEASURES, AND UPDATES AND MAINTENANCE OF SWPPP REQUIRED DOCUMENTATION UNTIL NOTICE OF DISCONTINUATION. C. FILING OF NPDES GENERAL PERMIT NO. 2 APPLICATION, FEES, PUBLIC NOTICES, AND NOTICE OF INTENT WILL BE PERFORMED BY ENGINEERING CONSULTANT PRIOR TO BEGINNING CONSTRUCTION. D. CONTRACTOR'S SWPPP MANAGER SHALL BE FAMILIAR WITH IOWA STORMWATER MANAGEMENT MANUAL AND BMP'S, AND SHALL BE RESPONSIBLE FOR PREPARING AND MAINTAINING ALL NECESSARY PAPERWORK REQUIRED BY NPDES PERMIT. E. REFER TO PROJECT MANUAL FOR SWPPP MANAGEMENT DOCUMENTATION FORMS.
102	9040-D	LF	**FILTER SOCKS** A. INCLUDES ALL ITEMS LISTED IN 1.08 D1 AND D2 FOR INSTALLATION AND REMOVAL OF ANY SIZE OF FILTER SOCK AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION TO REDUCE EROSION AND CONTAINMENT OF SEDIMENTATION RESULTING FROM CONSTRUCTION. INCLUDES REQUIRED MAINTENANCE, REPLACEMENT AS REQUIRED AND REMOVAL OF FILTER SOCKS FOLLOWING ESTABLISHMENT OF PERMANENT GROUND COVER. B. REFER TO SUDAS SECTION 9040; 2.03 FOR FILTER MATERIAL. C. FILTER SOCKS ARE NOT RECOMMENDED FOR INLET PROTECTION. SEE FIGURE 9040.102 FOR FILTER BERM AND FILTER SOCK INSTALLATION. D. QUANTITY CALCULATED IS BASED ON FILTER SOCKS PLACED ON EACH SIDE OF STREET TO PROTECT TOPSOIL FROM EROSION.
103	9040-E	SY	**TEMPORARY ROLLED EROSION CONTROL PRODUCTS (RECP) TYPE 4.B (LONG TERM)** A. USE ON SLOPES TO PROTECT FROM EROSION. ITEM USE MUST BE AUTHORIZED BY CITY. B. INCLUDES ALL ITEMS LISTED IN 1.09 E PLUS MAINTANENCE AND REPLACEMENT OF PRODUCT DURING PROJECT DURATION. C. PRODUCT SHALL BE LONG TERM OF 36 MONTHS OR MORE AND NATURALLY DEGRADING. D. SEE FIGURE 9040.103 FOR INSTALLATION OF RECP ON SLOPES. E. PROVISIONAL ITEM INCLUDED TO ESTABLISH UNIT PRICE.

ESTIMATE REFERENCE NOTES			
ITEM NO	ITEM CODE	UNIT	DESCRIPTION
104	9040-J	CY	**RIPRAP, EROSION STONE** A. INCLUDES ALL ITEMS LISTED IN 1.08 INCLUDING ENGINEERING FABRIC. B. USE FOR CULVERT APPROACH AND OUTLET FOR TERRACE HEIGHTS AND HAGERMAN DRIVE AREAS. SEE DETAIL 9040.110 FOR RIPRAP APRON FOR PIPE OUTLET ONTO FLAT GROUND. C. AGGREGATE SHALL MEET REQUIREMENTS IDOT 4130.04 AND .05, FOR 3-INCH TO 6-INCH EROSION STONE. D. ITEM INCLUDES BUT IS NOT LIMITED TO, MATERIAL AND LABOR TO FURNISH AND PLACE STONE AND ENGINEERING FABRIC. E. ENGINEERING FABRIC SHALL COMPLY WITH 2.22 AND IOWA DOT ARTICLE 4196.01, B.3.
105	9040-N	LF	**SILT FENCE OR SILT FENCE DITCH CHECK** A. INCLUDES ALL ITEMS LISTED 1.08 N. 1, 2, AND 3 FOR INSTALLATION, SEDIMENT REMOVAL, AND DEVICE REMOVAL. B. REFER TO SUDAS FIGURE 9040.119. C. REFER TO RR SHEETS WITH SUGGESTED SILT FENCE LOCATIONS.
106	9040-O	EA	**STABLIZED CONSTRUCTION EXIT** A. REFER TO SUDAS SECTION 9040; 2.15 FOR STONE AND SUBGRADE STABILIZATION MATERIAL (FABRIC). B. REFER TO FIGURE 9040.120 FOR TYPICAL SIZE AND THICKNESS FOR STONE TRACK OUT CONTROL. C. INCLUDES ALL COST OF LABOR, MATERIALS AND EQUIPMENT FOR COMPLETE CONSTRUCTION AND MAINTENANCE OF STABILIZED CONSTRUCTION EXIT. INCLUDES SUBGRADE PREPARATION, AGGREGATE MATERIAL AND SUBGRADE STABILIZATION MATERIAL, MAINTENANCE THROUGH PROJECT DURATION, MATERIAL REPLACEMENT AS NEEDED AND REMOVAL FOLLOWING PROJECT COMPLETION. D. REFER TO RR SHEETS FOR SUGGESTED EXIT LOCATIONS.
107	9040-Q-2	ACRE	**EROSION CONTROL MULCHING, HYDROMULCHING** A. INCLUDES ALL ITEMS LISTED IN 1.08, AND IS NOT LIMITED TO, ALL COSTS FOR FURNISHING AND INSTALLING EROSION CONTROL HYDRO-MULCHING USING BONDED FIBER MATRIX SHOULD PERMANENT SEEDING NOT BE COMPLETED WITHIN SEEDING DATES. CITY MUST AUTHORIZE USE OF THIS ITEM. PERMANENT SEEDING OR SODDING IS INTENDED TO BE COMPLETED WITHIN PROJECT SEEDING DATES.
108	9040-T	EA	**INLET PROTECTION DEVICE, DROP IN PROTECTION** A. INCLUDES ITEMS LISTED IN 1.08 T.1 AND 2 PLUS MAINTENANCE THROUGH PROJECT DURATION. B. ITEM WILL BE COUNTED ONE TIME FOR AN INLET PROTECTION DEVICE INSTALLED, MAINTAINED, AND REMOVED IN AN INDIVIDUAL INLET THROUGH LENGTH OF PROJECT. C. REFER TO M AND RR SHEETS FOR LOCATIONS OF INLETS. REFER TO C SHEETS FOR TABLES OF EXISTING AND PROPOSED INLET STRUCTURES IN THE PROJECT. PROTECT EXISTING AND NEW INLETS.
109	9040-T	LF	**INLET PROTECTION DEVICE, OPEN-THROAT CURB INTAKE SEDIMENT FILTER, EC-602** A. INCLUDES ITEMS LISTED IN 1.08 T.1 AND 2 PLUS MAINTENANCE THROUGH PROJECT DURATION. B. ITEM WILL BE COUNTED ONE TIME FOR AN INLET PROTECTION DEVICE INSTALLED, MAINTAINED, AND REMOVED IN AN INDIVIDUAL INLET THROUGH LENGTH OF PROJECT. MEASUREMENT SHALL BE LINEAR FEET OF INSTALLED FILTER. C. REFER TO RR SHEETS FOR LOCATIONS OF INLETS. D. REFER TO IOWA DOT STANDARD ROAD PLAN DETAIL EC-602 FOR SEDIMENT FILTER. FILTER MAY BE USED FOR OPEN THROAT INTAKE PROTECTION UPON APPROVAL OF CITY.
110	9040-XX	SF	**TURF REINFORCMENT MESH (TEMPORARY)** A. MATERIAL SHALL BE INSTALLED FOR TEMPORARY CONSTRUCTION AND RESIDENT VEHICLE ACCESS ROUTES IN EXISTING TURF AREAS PARALLEL TO PAVEMENTS UNDER CONSTRUCTION, AS AND WHERE DIRECTED BY THE CITY IN THE FIELD. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE. B. ITEM INCLUDES, BUT IS NOT LIMITED TO, ALL COSTS FOR LABOR, MATERIAL, AND EQUIPMENT NECESSARY FOR FURNISHING, PLACING, ANCHORING, AND REMOVAL OF THE GRID MATERIAL AND ANCHORS. C. MATERIAL SHALL BE THE HEAVY DUTY VERSION OF: TYPAR "GrassProtecta " GRASS REINFORCEMENT MESH, TENAX GRASS PROTECTION GRID, OR APPROVED EQUAL. D. REFER TO MANUFACTURER'S INSTRUCTIONS FOR MAT INSTALLATION REQUIREMENTS.
111	9060-D	LF	**REMOVAL AND REINSTALLATION OF EXISTING FENCE** A. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE. B. ITEM INCLUDES ALL ITEMS LISTED IN 1.08 D. ITEM USE MAY INCLUDE REMOVAL AND REPLACEMENT OF ANY TYPE OF EXISTING FENCES IN CITY ROW OR ON PRIVATE PROPERTY TO COMPLETE PROJECT CONSTRUCTION. CONTRACTOR SHALL DOCUMENT CONDITION AND TYPE OF EXISTING FENCE PRIOR TO REMOVAL. FENCING DAMAGED BY CONTRACTOR SHALL BE REPLACED AT NO ADDITIONAL COST TO CITY. C. CONTRACTOR SHALL WORK WITH CITY TO ACCOMODATE PROPERTY OWNER ACCESS AND ADEQUATELY INFORM PROPERTY OWNERS WITH PETS AND CHILDREN ON SCHEDULE OF FENCE DISTURBANCE AND REPLACEMENT. D. CITY ENGINEER TO AUTHORIZE USE OF THIS ITEM.
112	9070-A	SF	**RETAINING WALL ALL TYPES** A. SEE SUDAS 9070 1.08 A, B, AND C FOR MEASUREMENT AND PAYMENT REQUIREMENTS. B. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE. C. UTILIZE APPLICABLE SUDAS SPECS AND DETAILS FOR RETAINING WALL TYPE ENCOUNTERED. D. LANDSCAPING TABLE ON SHEET C.19 SUMMARIZES LOCATIONS OF KNOWN LANDSCAPING RETAINING WALLS.
113	9080-A	SF	**CONCRETE STEPS** A. SEE 1.08 FOR MEASUREMENT AND PAYMENT REQUIREMENTS. B. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE. C. SEE FIGURES 9080.101 AND 9080.102 FOR TYPICAL DETAILS.
114	9080-B	SF	**HANDRAIL** A. SEE 1.08 FOR MEASUREMENT AND PAYMENT REQUIREMENTS. B. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE. C. SEE FIGURES 9080.101 AND 9080.102 FOR TYPICAL DETAILS.

NOTES

1. ALL SUDAS REFERENCES ARE TO SUDAS SPECIFICATIONS 2026 EDITION.
2. FOR EACH ITEM, CONTRACTOR SHALL CAREFULLY REVIEW THE REFERENCED SUDAS SPECIFICATION IN ITS ENTIRETY. SUDAS SPEC, ESTIMATE REFERENCE NOTES, SPECIAL PROVISIONS SECTION 00 75 00, AND THE DRAWINGS MUST BE REVIEWED TOGETHER FOR EACH PROJECT ITEM.. UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS, ALL PROVISIONS OF SUDAS APPLY.
3. MEASUREMENT AND PAYMENT DESCRIPTIONS IN PART 1.08 UNDER EACH SUDAS STANDARD SPECIFICATION SECTION SHALL BE REVIEWED IN CONJUNCTION WITH THESE ESTIMATE REFERENCE NOTES.
4. PROJECT IS FUNDED BY IOWA STATE REVOLVING FUND LOAN MONIES. SEE SPECIFICATION FOR DAVIS BACON WAGES AND AMERICAN IRON AND STEEL REQUIREMENTS.

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DRAWN GM REEVES
CHECKED ER SCHALLERT
APPROVED JM BRADY
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DATE MARCH 30, 2026

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ITEM NO	ITEM CODE	UNIT	DESCRIPTION
115	11,010-A	LS	**CONSTRUCTION SURVEY**
			A. REFER TO SUDAS SECTION 11,010 AND SPECIAL PROVISIONS SECTION 00 75 00 FIELD ENGINEERING. B. INCLUDES ALL ITEMS LISTED IN 1.08 A INCLUDING COSTS FOR NEEDED FOR SURVEY AND STAKING TO INSTALL ALL ASPECTS OF THE PROJECT INCLUDING BUT NOT LIMITED TO SANITARY AND STORM SEWER AND PROPOSED PAVEMENT, DRIVEWAYS AND SIDEWALKS, CONSTRUCTION LIMITS AND EASEMENTS. ITEM INCLUDES VERIFICATION OF DESIGN SURVEY CONTROL, ESTABLISHMENT OF ANY ADDITIONAL CONTROL REQUIRED BY CONTRACTOR TO PERFORM WORK, RE-ESTABLISHMENT OF SURVEY MONUMENTS, CONTROL POINTS ENCOUNTERED DURING CONSTRUCTION AND REPLACEMENT OF PROPERTY PINS DISTURBED DURING CONSTRUCTION. C. ITEM REQUIRES CONSTRUCTION SURVEY TO BE PERFORMED BY A LICENSED LAND SURVEYOR HIRED BY THE CONTRACTOR. A LICENSED LAND SURVEYOR WILL NOT BE PROVIDED BY THE CITY FOR THESE WORK ITEMS.
116	11,010-XX	LS	**RECORD DRAWINGS**
			A. REFER TO DRAWINGS AND PROJECT MANUAL SPECIAL PROVISIONS SECTION 00 75 00 AND SECTION 01 77 00 FOR REQUIREMENTS. B. ITEM INCLUDES COLLECTING AS-BUILT ELEVATIONS AND INFORMATION ON NEW SEWERS, SERVICES, UTILITIES AND RECORD DRAWING PRODUCTION BY A LICENSED LAND SURVEYOR AND CONTRACTOR. CONTRACTOR IS REQUIRED TO HIRE A LICENSED LAND SURVEYOR. A LICENSED LAND SURVYEOR FOR THESE WORK ITEMS WILL NOT BE PROVIDED BY CITY.
117	11,020-A	LS	**MOBILIZATION**
			A. ITEM WILL BE MEASURED AND PAID FOR ACCORDING TO SUDAS SECTION 11,020 MOBILIZATION. B. ITEM INCLUDES MOVEMENT OF PERSONNEL, EQUIPMENT, AND SUPPLIES TO PROJECT SITE; CONTRACTOR FIELD OFFICES, STORAGE CONTAINERS, PORTABLE TOILETS, PROJECT FACILITIES, AND PERMITTING. ITEM ALSO INCLUDES DE-MOBILIZATION COSTS INCLUDING PREPARATION OF FINAL CONTRACT CLOSEOUT DOCUMENTS. SEE PROJECT MANUAL SECTION 01 77 00 FOR CLOSEOUT REQUIREMENTS.
118	11,020-A	EA	**MOBILIZATION, EROSION CONTROL**
			A. ITEM WILL BE MEASURED AND PAID FOR ACCORDING TO SUDAS SECTION 11,020 MOBILIZATION. B. ITEM INCLUDES MOVEMENT OF PERSONNEL, EQUIPMENT, AND SUPPLIES TO PROJECT SITE WHEN EROSION CONTROL ITEMS ARE INITIALLY INSTALLED, AND EACH TIME EROSION CONTROL ITEMS MUST BE RELOCATED OR REPAIRED. C. USE OF ITEM AFTER INITIAL EROSION CONTROL MOBILIZATION WILL REQUIRE CITY APPROVAL. D. ESTIMATED QUANTITY IS BASED STAGES NOTED ON J SHEETS.
119	11,020-XX	LS	**EXISTING CONDITIONS VIDEO RECORD**
			A. SEE PROJECT MANUAL SPECIAL PROVISIONS SECTION 00 75 00 FOR VIDEO REQUIREMENTS. B. LUMP SUM ITEM INCLUDES ALL COSTS FOR LABOR, MATERIAL, AND EQUIPMENT FOR TELEVISING AND COMPLETE VIDEOTAPING OF EXISTING FEATURES ALONG AND ADJACENT TO ROUTES OF ALL SEWERS PRIOR TO BEGINNING CONSTRUCTION. DIGITAL COPY SHALL BE PROVIDED TO THE CITY. VIDEO RECORD SHALL INCLUDE ALL HAUL ROUTES USED BY THE CONTRACTOR. VIDEO SHALL ZOOM INTO PRIVATE PROPERTY FEATURES ALONG THE SEWER ROUTES AND PAUSE FOR A FEW SECONDS TO CAPTURE EXISTING CONDITIONS.
120	11,030-A	LS	**MAINTENANCE OF POSTAL SERVICE**
			A. INCLUDES ALL ITEMS LISTED IN 1.08 AND FOR MAINTAINING POSTAL AND DELIVERY SERVICES DURING CONSTRUCTION. INCLUDES FURNISHING, INSTALLING, MAINTAINING, AND REMOVING TEMPORARY CLUSTER MAILBOXES OR TEMPORARY INDIVIDUAL MAILBOXES PLUS REMOVAL, SALVAGE AND REINSTALLATION OF PERMANENT MAILBOXES. INSTALL AT POSTMASTER APPROVED LOCATIONS FOR THOSE RESIDENTS WHOSE NORMAL MAIL DELIVERY IS IMPACTED DURING CONSTRUCTION. CONTRACTOR TO PROVIDE TEMPORARY ACCESS TO POSTAL AND DELIVERY SERVICES TO ACCESS PERMANENT OR TEMPORARY MAILBOXES. SEE R SHEETS FOR LOCATION OF EXISTING MAILBOXES. ONE MAILBOX IS LOCATED ON BACK OF CURB AT 1201 LOGAN ST.
121	11,030-B	LS	**MAINTENANCE OF SOLID WASTE COLLECTION**
			A. INCLUDES ALL ITEMS LISTED IN 1.08 FOR TRANSPORTING GARBAGE AND RECYCING CONTAINERS FROM RESIDENTS HOMES TO AN ALTERNATIVE COLLECTION LOCATION SPECIFIED BY THE CITY AND RETURNING THE EMPTIED CONTAINERS BACK TO THE RESIDENCES DURING CONSTRUCTION ACTIVITIES THAT PREVENT NORMAL REFUSE COLLECTION. B. CONTRACTOR'S PLAN FOR MAINTAINING SOLID WASTE COLLECTION MUST BE APPROVED BY CITY.
122	11,030-XX	MONTH	**UTILITY VEHICLE**
			A. THIS ITEM INCLUDES ALL LABOR, EQUIPMENT, MATERIALS TO RENT, MAINTAIN IN GOOD WORKING ORDER, FUEL, AND PROVIDE RENTAL INSURANCE FOR ONE UTILITY VEHICLE ON A PER MONTH BASIS. B. VEHICLE SHALL HAVE A MINIMUM OF TWO SEATS AND SPACE FOR HAULING. FOUR WHEEL DRIVE IS PREFERRED. ANY GOLF CART OR UTILITY VEHICLE (UTV) MAKE AND MODEL IS ACCEPTABLE. C. CITY MAY USE THIS PROVISIONAL ITEM AT THEIR DISCRETION FOR CITIZEN USAGE WHEN ACCESS TO DRIVEWAY IS LIMITED BY CONSTRUCTION AND CITY UTV'S ARE NOT AVAILABLE.
123	11,040-B	SY	**TEMPORARY GRANULAR SIDEWALK**
			A. USE OF THIS ITEM MUST BE AUTHORIZED BY CITY. POTENTIAL LOCATION OF USAGE IS CLIMER STREET WHERE EXISTING SIDEWALK WILL BE DISTURBED. B. INCLUDES ALL ITEMS LISTED IN 1.08. C. THIS PROVISIONAL ITEM IS INCLUDED TO ESTABLISH A UNIT PRICE.
124	11,050-A	LS	**CONCRETE WASHOUT**
			A. INCLUDES ALL ITEMS LISTED IN 1.08 FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING A CITY APPROVED CONCRETE WASHOUT SYSTEM INCLUDING CONTAINMENT, COLLECTION, AND DISPOSAL. REFER TO EPA STORM WATER BEST MANAGEMENT PRACTICES. HTTPS://WWW3.EPA.GOV/NPDES/PUBS/CONCRETEWASHOUT.PDF B. DO NOT DRAIN CONCRETE WASHOUT WATER INTO STORM SEWERS, DITCHES, AND WATER BODIES. C. IF CONTRACTOR DOES NOT USE AN APPROVED CONCRETE WASHOUT SYSTEM, THIS ITEM WILL NOT BE PAID.

NOTES

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2. FOR EACH ITEM, CONTRACTOR SHALL CAREFULLY REVIEW THE REFERENCED SUDAS SPECIFICATION IN ITS ENTIRETY. SUDAS SPEC, ESTIMATE REFERENCE NOTES, SPECIAL PROVISIONS SECTION 00 75 00, AND THE DRAWINGS MUST BE REVIEWED TOGETHER FOR EACH PROJECT ITEM.. UNLESS NOTED OTHERWISE IN THESE CONTRACT DOCUMENTS, ALL PROVISIONS OF SUDAS APPLY.
3. MEASUREMENT AND PAYMENT DESCRIPTIONS IN PART 1.08 UNDER EACH SUDAS STANDARD SPECIFICATION SECTION SHALL BE REVIEWED IN CONJUNCTION WITH THESE ESTIMATE REFERENCE NOTES.
4. PROJECT IS FUNDED BY IOWA STATE REVOLVING FUND LOAN MONIES. SEE SPECIFICATION FOR DAVIS BACON WAGES AND AMERICAN IRON AND STEEL REQUIREMENTS.

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ESTIMATE REFERENCE NOTES

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: AS NOTED
NO. 17660.60.40
REV. 0
C.08

CADD D3-R5

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REMOVAL MANHOLE OR INTAKE

SHEET NUMBER	EXISTING STRUCTURE NAME	STREET	NEAR ADDRESS	LOCATION	EXISTING TYPE	REMOVE, EA	REMOVE, FILL, ABANDON, EA
M.01 & M.14	CB 3710	LOGAN ST	1201 LOGAN ST	GUTTER GRATE	CONCRETE INLET	1	
M.01 & M.14	CB 3709	LOGAN ST	941 NEWELL AVE	GUTTER GRATE	CONCRETE INLET	1	
M.01	CB 3708	NEWELL AVE	1143 LOGAN ST	OPEN THROAT	CURB CASTING, CONCRETE STRUCTURE	1	
M.01 & M.24	CB 3705	NEWELL AVE	1142 LOGAN ST	GUTTER GRATE	CONCRETE INLET	1	
M.02 & MSA.02	MH 3711	NEWELL AVE	1201 LOGAN ST	MH IN GRASS	COMBINED BRICK MH	1	
M.02 & MSA.02	MH 3716	NEWELL AVE	921 NEWELL AVE	MH IN GRASS	COMBINED BRICK MH	1	
M.03, M.23 & MSA.03	MH 3759	NEWELL AVE	903 NEWELL AVE	MH IN GRASS	COMBINED BRICK MH	1	
M.01	MH 3713	LOGAN ST & NEWELL AVE	1143 LOGAN ST	MH IN GRASS	COMBINED BRICK MH	1	
MSA.01	MH 3706	LOGAN ST & NEWELL AVE	1142 LOGAN ST	MH IN GRASS	SANITARY BRICK MH	1	
MSA.01	MH 3722	LOGAN ST	1138 LOGAN ST	MH IN GRASS	SANITARY BRICK MH	1	
MSA.01	MH 3725	LOGAN ST	1135 LOGAN ST	MH IN GRASS	COMBINED BRICK MH	1	
M.01, MSA.01	MH 4027	LOGAN ST	1205 LOGAN ST	MH IN STREET	COMBINED PRECAST MH		1
M.03 & M.23	CB 3720	NEWELL AVE & HIGH ST	903 NEWELL AVE	OPEN THROAT	CURB CASTING, CONCRETE STRUCTURE	1	
M.03 & M.23	CB 3719	NEWELL AVE & HIGH ST	894 NEWELL AVE	OPEN THROAT	CURB CASTING, CONCRETE STRUCTURE	1	
M.03 & MSA.03	MH 3718	NEWELL AVE & HIGH ST	903 NEWELL AVE	MH IN INTERSECTION	EXISTING COMBINED BRICK MH	1	
M.03 & MSA.03	MH 3758	NEWELL AVE	893 NEWELL AVE	MH IN STREET	EXISTING COMBINED BRICK MH	1	
M.04 & MSA.04	MH 3757	NEWELL AVE	879 NEWELL AVE	MH IN STREET	EXISTING COMBINED BRICK MH	1	
M.04 & MSA.04	MH 3756	NEWELL AVE	870 NEWELL AVE	MH IN STREET	EXISTING COMBINED BRICK MH	1	
MSA.05	MH 3754	NEWELL AVE	848 NEWELL AVE	MH IN STREET	EXISTING COMBINED PRECAST MH	1	
MSA.05	MH 3751	NEWELL AVE	838 NEWELL AVE	MH IN STREET	EXISTING COMBINED PRECAST MH	1	
M.06 & MSA.06	MH 5318	NEWELL AVE	704 NEWELL AVE	MH IN STREET	EXISTING COMBINED PRECAST MH	1	
M.05 & M.22	CB 3755	NEWELL AVE & MAIDEN LN	843 NEWELL AVE	GUTTER DITCH	INLET WITH BOILER PLATE TOP	1	
M.05 & M.22	CB 3753	NEWELL AVE & MAIDEN LN	865 NEWELL AVE	GUTTER GRATE	CONCRETE INLET	1	
M.05 & M.22	CB 3752	NEWELL AVE & MAIDEN LN	848 NEWELL AVE	OPEN THROAT	CURB CASTING, CONCRETE STRUCTURE	1	
M.06	CB 5475	NEWELL AVE	704 NEWELL AVE	OPEN THROAT	CURB CASTING, CONCRETE STRUCTURE	1	
M.06	CB 5317	NEWELL AVE	707 NEWELL AVE	OPEN THROAT	CURB CASTING, CONCRETE STRUCTURE	1	
M.07 & M.25	CB 5465	NEWELL AVE	949 NEWELL AVE	GUTTER GRATE	BRICK INLET	1	
M.07 & M.25	CB 3703	NEWELL AVE	1142 LOGAN ST	GUTTER GRATE	CONCRETE INLET	1	
M.07 & M.25	CB 3701	NEWELL AVE	974 NEWELL AVE	GUTTER GRATE	CONCRETE INLET	1	
M.07 & M.25	CB 3700	NEWELL AVE	973 NEWELL AVE	GUTTER GRATE	CONCRETE INLET	1	
MSA.07	MH 3704	NEWELL AVE	1142 LOGAN ST	MH IN STREET	COMBINED BRICK MH	1	
MSA.07	MH 3702	NEWELL AVE	974 NEWELL AVE	MH IN STREET	COMBINED BRICK MH	1	
M.08 & M.26	CB 3699	NEWELL AVE	986 NEWELL AVE	GUTTER GRATE	CONCRETE INLET	1	
M.08 & M.26	CB 3697	NEWELL AVE	987 NEWELL AVE	GUTTER GRATE	CONCRETE INLET	1	
MSA.08	MH 3698	NEWELL AVE	986 NEWELL AVE	MH IN STREET	COMBINED BRICK MH	1	
M.09 & M.26	CB 3696	NEWELL AVE	1017 NEWELL AVE	GUTTER GRATE	CONCRETE INLET	1	
M.09 & M.26	CB 3694	NEWELL AVE	1006 NEWELL AVE	COVERED BY ASPHALT	CONCRETE INLET	1	
MSA.09	MH 3695	NEWELL AVE	1006 NEWELL AVE	MH IN STREET	COMBINED BRICK MH	1	
M.09 & M.27	CB 3691	NEWELL AVE	1031 NEWELL AVE	COVERED BY ASPHALT	CONCRETE INLET	1	
MSA.09	MH 3692	NEWELL AVE	1032 NEWELL AVE	MH IN STREET	COMBINED BRICK MH	1	
M.10 & M.27	CB 5470	NEWELL AVE	1011 NEWELL AVE	GUTTER GRATE	CONCRETE INLET	1	
M.10 & M.27	CB 3690	NEWELL AVE	1039 NEWELL AVE	GUTTER GRATE	CONCRETE INLET	1	
M.10 & M.27	CB 3689	NEWELL AVE	2307 LUCAS ST	GUTTER GRATE	CONCRETE INLET	1	
M.10 & M.27	MH 3688	NEWELL AVE	2307 LUCAS ST	MH IN STREET	COMBINED BRICK MH	1	
M.11 & M.13	CB 3724	CLIMER ST	1012 CLIMER ST	GUTTER GRATE	CONCRETE INLET	1	
M.11 & M.13	MH 3723	LOGAN ST & CLIMER ST	1131 LOGAN ST	MH IN STREET	COMBINED BRICK MH	1	
M.11	MH 4098	CLIMER ST	1013 CLIMER ST	MH IN STREET	SANITARY PRECAST MH	1	
M.12 & M.13	CB 4100	CLIMER ST	1019 CLIMER ST	GRATE IN GRASS	PRIVATE AREA INLET	1	
M.12 & M.13	MH 4099	CLIMER ST	1021 CLIMER ST	MH IN STREET	SANITARY PRECAST MH	1	
MSA.12 & MSA.22	MH 6799	CLIMER ST	1030 CLIMER ST	BACK YARD	PRIVATE SANITARY MH		1
M.16	CB 3534	LUCAS ST	1819 LUCAS ST	OPEN THROAT	COMBINED BRICK INLET WITH DOUBLE TAPER	1	
M.16	CB 3533	LUCAS ST	1814 LUCAS ST	GUTTER GRATE	CONCRETE INLET	1	
M.16	CB 3532	LUCAS ST	1814 LUCAS ST	GUTTER GRATE	CONCRETE INLET	1	
M.16	MH 3536	LUCAS ST	1814 LUCAS ST	MH IN GRASS	COMBINED BRICK MH	1	
MSA.16	MH 3535	LUCAS ST	1814 LUCAS ST	MH IN STREET	SANITARY BRICK MH	1	
M.01	MH 3707	LOGAN ST	1143 LOGAN ST	MH IN INTERSECTION	EXISTING BRICK MANHOLE	1	
M.02	MH 3715	NEWELL AVE	113 NEIDIG AVE	MH IN GRASS	SANITARY BRICK MH	1	
M.02	MH 3714	NEWELL AVE	1143 LOGAN ST	MH IN GRASS	SANITARY BRICK MH	1	
M.02	MH 3712	NEWELL AVE	1143 LOGAN ST	MH IN GRASS	SANITARY BRICK MH	1	
M.03	MH 3717	NEWELL AVE	910 NEWELL AVE	MH IN GRASS	SANITARY BRICK MH	1	
MSA.14	MH 3601	FLETCHER AVE	219 FLETCHER AVE	MH IN GRASS	SANITARY BRICK MH	1	
MSA.15	MH 3600	FLETCHER AVE	300 FLETCHER AVE	MH IN GRASS	SANITARY BRICK MH	1	
MSA.15	MH 3596	FLETCHER AVE	306 FLETCHER AVE	MH IN GRASS	SANITARY BRICK MH	1	
MSA.21	MH 5302	MAIDEN LN	707 MAIDEN LANE	MH IN STREET	SANITARY BRICK MH	1	
MSA.23	MH 5448	LOGAN ST	1211 LOGAN ST	IN BACKYARD GRASS	COMBINED BRICK MH		1
MSA.23	MH 5447	LOGAN ST	1205 LOGAN ST	IN DRIVEWAY	COMBINED BRICK MH		1
REMOVE MANHOLE OR INLET, TOTAL						**62**	
REMOVE MH TOP, FILL, ABANDON, TOTAL							**4**

NOTES

1. DETAILED QUANTITIES TABULATIONS ARE PROVIDED FOR CONVENIENCE OF CONTRACTOR AND OWNER. REFER TO PLANS FOR SPECIFIC REQUIREMENTS. IF DISCREPANCIES ARE FOUND, PLAN DRAWINGS INFORMATION GOVERNS. DISCREPANCIES SHOULD BE BROUGHT TO ENGINEER TO CONFIRM DESIGN INTENT.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER MANHOLE TABLES

DESIGNED KK HEIM
DRAWN GM REEVES
CHECKED ER SCHALLERT
APPROVED JM BRADY
APPROVED KK HEIM
DATE MARCH 30, 2026

SCALE: NONE
NO. 17660.60.40
REV. 0
C.09

CADD D3-R5

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SANITARY STRUCTURE TABLE

STRUCTURE NAME	SUDAS MH/ DESCRIPTION	STRUCTURE STATION	ALIGNMENT	RIM ELEVATION	MANHOLE DEPTH	INVERT IN	INVERT OUT	NORTHING	EASTING
SS E1	301	STA 6+59	P6E-ALIGN-SAN-LOGAN	RIM ELEV: +677.21	9.72'	INV IN: +669.40 INV IN: +667.59 INV IN: +669.23 INV IN: +670.13 INV IN: +669.97 INV IN: +670.54	INV OUT: +667.49	527821.64	2308103.16
SS E2	301	STA 6+78	P6E-ALIGN-SAN-LOGAN	RIM ELEV: +677.37	9.68'	INV IN: +667.79 INV IN: +669.00	INV OUT: +667.69	527821.32	2308083.83
SS E3	301	STA 10+00	P6E-ALIGN-SAN-LOGAN	RIM ELEV: +696.99	10.99'		INV OUT: +686.00	527499.63	2308085.85
SS E4	301	STA 15+63	P6E-ALIGN-SAN-NEWELL-EAST	RIM ELEV: +677.44	7.64'	INV IN: +669.90	INV OUT: +669.80	527830.94	2308156.33
SS E5	301	STA 18+43	P6E-ALIGN-SAN-NEWELL-EAST	RIM ELEV: +683.38	7.48'	INV IN: +676.00	INV OUT: +675.90	527836.31	2308436.11
SS E6	301	STA 21+67	P6E-ALIGN-SAN-NEWELL-EAST	RIM ELEV: +689.54	7.81'	INV IN: +681.82 INV IN: +683.48	INV OUT: +681.72	527842.92	2308760.05
SS E7	301	STA 23+68	P6E-ALIGN-SAN-NEWELL-EAST	RIM ELEV: +691.76	7.96'	INV IN: +683.90 INV IN: +685.12	INV OUT: +683.80	527846.81	2308961.33
SS E8	301	STA 25+68	P6E-ALIGN-SAN-NEWELL-EAST	RIM ELEV: +693.98	8.08'	INV IN: +686.00 INV IN: +687.45 INV IN: +687.85	INV OUT: +685.90	527850.63	2309161.74
SS E9	301	STA 27+58	P6E-ALIGN-SAN-NEWELL-EAST	RIM ELEV: +696.07	8.57'	INV IN: +687.60 INV IN: +688.97	INV OUT: +687.50	527854.83	2309350.97
SS E10	301	STA 29+67	P6E-ALIGN-SAN-NEWELL-EAST	RIM ELEV: +698.53	7.93'	INV IN: +690.70 INV IN: +690.91	INV OUT: +690.60	527859.59	2309560.43
SS E11	301	STA 32+34	P6E-ALIGN-SAN-NEWELL-EAST	RIM ELEV: +705.80	13.70'	INV IN: +692.20	INV OUT: +692.10	527866.97	2309827.50
SS E12	301	STA 35+10	P6E-ALIGN-SAN-NEWELL-EAST	RIM ELEV: +699.95	5.95'		INV OUT: +694.00	527874.59	2310103.26
SS E16	301	STA 41+32	P6E-ALIGN-SAN-NEWELL-WEST	RIM ELEV: +679.90	11.57'	INV IN: +668.42	INV OUT: +668.32	527819.76	2307976.11
SS E17	301	STA 44+26	P6E-ALIGN-SAN-NEWELL-WEST	RIM ELEV: +688.72	10.22'	INV IN: +678.60	INV OUT: +678.50	527820.48	2307682.75
SS E18	301	STA 47+26	P6E-ALIGN-SAN-NEWELL-WEST	RIM ELEV: +696.59	8.89'	INV IN: +687.80	INV OUT: +687.70	527820.35	2307382.67
SS E19	301	STA 50+76	P6E-ALIGN-SAN-NEWELL-WEST	RIM ELEV: +702.32	8.92'	INV IN: +693.50 INV IN: +694.96	INV OUT: +693.40	527819.41	2307032.56
SS E20	301	STA 54+26	P6E-ALIGN-SAN-NEWELL-WEST	RIM ELEV: +708.39	9.49'	INV IN: +699.00	INV OUT: +698.90	527818.94	2306682.68
SS E21	301	STA 57+51	P6E-ALIGN-SAN-NEWELL-WEST	RIM ELEV: +718.73	12.93'	INV IN: +706.24 INV IN: +705.90	INV OUT: +705.80	527817.05	2306357.31
SS E22	301	STA 59+12	P6E-ALIGN-SAN-NEWELL-WEST	RIM ELEV: +723.78	9.28'		INV OUT: +714.50	527817.05	2306196.65
SS 38	STOCK-301	STA 61+32	P6E-ALIGN-SAN-CLIMER	RIM ELEV: +699.75	13.89'	INV IN: +685.96	INV OUT: +685.86	527470.93	2308034.86
SS 39	STOCK-301	STA 65+31	P6E-ALIGN-SAN-CLIMER	RIM ELEV: +703.68	11.24'	INV IN: +692.54	INV OUT: +692.44	527467.68	2307635.34
SS 40	STOCK-301	STA 69+32	P6E-ALIGN-SAN-CLIMER	RIM ELEV: +707.32	9.82'	INV IN: +697.60 INV IN: +697.97	INV OUT: +697.50	527463.58	2307234.96
SS 41	STOCK-301	STA 71+87	P6E-ALIGN-SAN-CLIMER	RIM ELEV: +709.26	10.64'		INV OUT: +698.62	527457.21	2306979.90
SS E23	301	STA 75+59	P6E-ALIGN-SAN-TERRACE-HGHTS	RIM ELEV: +634.64	5.89'	INV IN: +628.85	INV OUT: +628.75	529297.52	2309196.48
SS E25	301	STA 76+98	P6E-ALIGN-SAN-TERRACE-HGHTS	RIM ELEV: +660.44	11.80'	INV IN: +648.74	INV OUT: +648.64	529431.31	2309232.08
SS E13	301	STA 83+51	P6E-ALIGN-SAN-FLETCHER	RIM ELEV: +720.69	8.86'	INV IN: +711.83	INV OUT: +711.83	527321.74	2306429.25
SS E14	301	STA 86+87	P6E-ALIGN-SAN-FLETCHER	RIM ELEV: +719.34	6.41'	INV IN: +712.98	INV OUT: +712.93	526984.98	2306432.19
SS E15	401-SAN	STA 88+12	P6E-ALIGN-SAN-FLETCHER	RIM ELEV: +717.58	3.92'	INV IN: +713.86	INV OUT: +713.66	526860.06	2306433.13
SS E24	301	STA 91+33	SAN-ALIGN-6E-SERV-MAIDEN-LN	RIM ELEV: +642.21	9.28'	INV IN: +634.10	INV OUT: +632.93	528829.38	2309436.44
SS E26	301	STA 99+05	P6E-ALIGN-SAN-MAIDEN-LN-IN-STREET	RIM ELEV: +708.60	6.92'	INV IN: +702.68 INV IN: +702.49 INV IN: +702.70 INV IN: +703.27	INV OUT: +701.68	528105.68	2309875.17
NEW MH 3535	401-SAN	STA 102+26	P6E-ALIGN-SAN-LUCAS	RIM ELEV: +694.20	4.78'	INV IN: +689.57	INV OUT: +689.42	526715.80	2308438.98

NOTES

1. DETAILED QUANTITY TABULATIONS ARE PROVIDED FOR CONVENIENCE OF CONTRACTOR AND OWNER. REFER TO PLANS FOR SPECIFIC REQUIREMENTS. IF DISCREPANCIES ARE FOUND, PLAN DRAWINGS INFORMATION GOVERNS. DISCREPANCIES SHOULD BE BROUGHT TO DESIGN ENGINEER TO CONFIRM DESIGN INTENT.
2. SEE SHEET C.11 FOR SANITARY SEWER PIPE TABLE.
3. ITEMS WITH EXISTING, EXST, OR PHASE 6D IN THE STRUCTURE NAME ARE NOT INCLUDED IN QUANTITY TABULATION FOR PHASE 6E.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER
STRUCTURE TABLE

DESIGNED KK HEIM
DRAWN GM REEVES
CHECKED ER SCHALLERT
APPROVED JM BRADY
APPROVED KK HEIM
DATE MARCH 30, 2026

SCALE: NONE
NO. 17660.60.40
REV. 0
C.10

CADD D3-R5

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SANITARY SEWER PIPE TABLE

PIPE ID	START MANHOLE	END MANHOLE	PIPE DIAMETER (INCHES)	PIPE LENGTH, FT	PIPE SLOPE	START INVERT	END INVERT	START STATION	END STATION	NOTE	ALIGNMENT
Pipe - 6	SS E1		8	7	4.36%	+670.54	+670.84	6+59	6+65	TEMP	P6E-ALIGN-SAN-LOGAN
Pipe - 7	SS E1		8	5	7.54%	+670.13	+670.51	6+59	6+59	TEMP	P6E-ALIGN-SAN-LOGAN
Pipe - 8	SS E1		8	11	4.95%	+669.97	+670.53	6+59	6+59	TEMP	P6E-ALIGN-SAN-LOGAN
Pipe - 9	SS E1		8	5	1.87%	+669.40	+669.49	6+59	6+56	TEMP	P6E-ALIGN-SAN-LOGAN
Pipe - 10		SS E1	12	149	2.33%	+664.02	+667.49	5+10	6+59	PVC Pipe	P6E-ALIGN-SAN-LOGAN
Pipe - 12	SS E2	SS E3	8	322	5.28%	+669.00	+686.00	6+78	10+00	PVC Pipe	P6E-ALIGN-SAN-LOGAN
Pipe - 13	SS E1	SS E4	8	54	1.05%	+669.23	+669.80	15+09	15+63	PVC Pipe	P6E-ALIGN-SAN-NEWELL-EAST
Pipe - 14	SS E4	SS E5	8	280	2.14%	+669.90	+675.90	15+63	18+43	PVC Pipe	P6E-ALIGN-SAN-NEWELL-EAST
Pipe - 15	SS E5	SS E6	8	324	1.77%	+676.00	+681.72	18+43	21+67	PVC Pipe	P6E-ALIGN-SAN-NEWELL-EAST
Pipe - 16	SS E6	SS E7	8	201	0.98%	+681.82	+683.80	21+67	23+68	PVC Pipe	P6E-ALIGN-SAN-NEWELL-EAST
Pipe - 17	SS E7	SS E8	8	200	1.00%	+683.90	+685.90	23+68	25+68	PVC Pipe	P6E-ALIGN-SAN-NEWELL-EAST
Pipe - 18	SS E8	SS E9	8	189	0.79%	+686.00	+687.50	25+68	27+58	PVC Pipe	P6E-ALIGN-SAN-NEWELL-EAST
Pipe - 19	SS E9	SS E10	8	210	1.43%	+687.60	+690.60	27+58	29+67	PVC Pipe	P6E-ALIGN-SAN-NEWELL-EAST
Pipe - 20	SS E10	SS E11	8	267	0.52%	+690.70	+692.10	29+67	32+34	PVC Pipe	P6E-ALIGN-SAN-NEWELL-EAST
Pipe - 21	SS E11	SS E12	8	276	0.65%	+692.20	+694.00	32+34	35+10	PVC Pipe	P6E-ALIGN-SAN-NEWELL-EAST
Pipe - 22			6	21	14.27%	+675.65	+678.69	18+04	18+18	PVC SRV	P6E-ALIGN-SAN-NEWELL-EAST
Pipe - 23	SS E6		6	23	0.72%	+683.48	+683.65	21+67	21+84	PVC SRV	P6E-ALIGN-SAN-NEWELL-EAST
Pipe - 24	SS E7		8	17	1.00%	+685.12	+685.29	23+68	23+67	PVC Pipe	P6E-ALIGN-SAN-NEWELL-EAST
Pipe - 26	SS E8		6	19	0.73%	+687.45	+687.59	25+68	25+61	PVC SRV	P6E-ALIGN-SAN-NEWELL-EAST
Pipe - 27	SS E8		6	19	0.39%	+687.85	+687.92	25+68	25+78	PVC SRV	P6E-ALIGN-SAN-NEWELL-EAST
Pipe - 28	SS E9		4	17	0.78%	+688.97	+689.10	27+58	27+58	PVC SRV	P6E-ALIGN-SAN-NEWELL-EAST
Pipe - 29	SS E1	SS E2	12	19	0.50%	+667.59	+667.69	40+05	40+25	PVC Pipe	P6E-ALIGN-SAN-NEWELL-WEST
Pipe - 30	SS E2	SS E16	12	108	0.50%	+667.79	+668.32	40+25	41+32	PVC Pipe	P6E-ALIGN-SAN-NEWELL-WEST
Pipe - 31	SS E16	SS E17	12	293	3.44%	+668.42	+678.50	41+32	44+26	PVC Pipe	P6E-ALIGN-SAN-NEWELL-WEST
Pipe - 32	SS E17	SS E18	12	300	3.03%	+678.60	+687.70	44+26	47+26	PVC Pipe	P6E-ALIGN-SAN-NEWELL-WEST
Pipe - 33	SS E18	SS E19	12	350	1.60%	+687.80	+693.40	47+26	50+76	PVC Pipe	P6E-ALIGN-SAN-NEWELL-WEST
Pipe - 34	SS E19	SS E20	12	350	1.54%	+693.50	+698.90	50+76	54+26	PVC Pipe	P6E-ALIGN-SAN-NEWELL-WEST
Pipe - 35	SS E20	SS E21	12	325	2.09%	+699.00	+705.80	54+26	57+51	PVC Pipe	P6E-ALIGN-SAN-NEWELL-WEST
Pipe - 36	SS E21	SS E22	8	161	5.35%	+705.90	+714.50	57+51	59+12	PVC Pipe	P6E-ALIGN-SAN-NEWELL-WEST
Pipe - 37	SS E21		12	52	0.26%	+706.24	+706.38	57+51	57+52	PVC Pipe	P6E-ALIGN-SAN-NEWELL-WEST
Pipe - 38			6	28	16.73%	+688.20	+692.88	47+22	47+28	PVC SRV	P6E-ALIGN-SAN-NEWELL-WEST
Pipe - 39	SS E19		6	13	1.00%	+694.96	+695.09	50+76	50+76	PVC SRV	P6E-ALIGN-SAN-NEWELL-WEST
Pipe - 40		SS 38	8	116	1.86%	+683.70	+685.86	60+16	61+32	CITY STOCK	P6E-ALIGN-SAN-CLIMER
Pipe - 41	SS 38	SS 39	8	400	1.62%	+685.96	+692.44	61+32	65+31	CITY STOCK	P6E-ALIGN-SAN-CLIMER
Pipe - 42	SS 39	SS 40	8	400	1.24%	+692.54	+697.50	65+31	69+32	PVC Pipe	P6E-ALIGN-SAN-CLIMER
Pipe - 43	SS 40	SS 41	8	255	0.40%	+697.60	+698.62	69+32	71+87	PVC Pipe	P6E-ALIGN-SAN-CLIMER
Pipe - 49			16	132	14.29%	+629.12	+647.99	75+62	76+95	CASING	P6E-ALIGN-SAN-TERRACE-HGHTS
Pipe - 50		SS E23	8	59	0.94%	+628.20	+628.75	75+01	75+59	PVC Pipe	P6E-ALIGN-SAN-TERRACE-HGHTS
Pipe - 51	SS E23	SS E25	8	138	14.29%	+628.85	+648.64	75+59	76+98	PVC Pipe	P6E-ALIGN-SAN-TERRACE-HGHTS
Pipe - 52	SS E25		8	11	0.65%	+648.74	+648.81	76+98	77+09	PVC Pipe	P6E-ALIGN-SAN-TERRACE-HGHTS
Pipe - 53			6	79	11.22%	+669.10	+678.00	41+27	41+31	PVC SRV	P6E-ALIGN-SAN-NEWELL-WEST
Pipe - 60		SS E13	8	300	0.48%	+710.39	+711.83	80+51	83+51	LINE	P6E-ALIGN-SAN-FLETCHER
Pipe - 61	SS E13	SS E14	8	337	0.33%	+711.83	+712.93	83+51	86+87	LINE	P6E-ALIGN-SAN-FLETCHER

SEE SHEET C.12 FOR CONTINUATION OF SANITARY SEWER PIPE TABLE

NOTES

1. DETAILED QUANTITIES TABULATIONS ARE PROVIDED FOR CONVENIENCE OF CONTRACTOR AND OWNER. REFER TO PLANS FOR SPECIFIC REQUIREMENTS. IF DISCREPANCIES ARE FOUND, PLAN DRAWINGS INFORMATION GOVERNS. DISCREPANCIES SHOULD BE BROUGHT TO ENGINEER TO CONFIRM DESIGN INTENT.
2. SEE SHEET C.10 FOR SANITARY STRUCTURE TABLE.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER
PIPE TABLES
SHEET 1

DESIGNED KK HEIM
DRAWN GM REEVES
CHECKED ER SCHALLERT
APPROVED JM BRADY
APPROVED KK HEIM
DATE MARCH 30, 2026

SCALE: NONE
NO. 17660.60.40
REV. 0
C.11

CADD D3-R5
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SEE SHEET C.11 FOR CONTINUATION OF SANITARY SEWER PIPE TABLE

SANITARY SEWER PIPE TABLE

PIPE ID	START MANHOLE	END MANHOLE	PIPE DIAMETER (INCHES)	PIPE LENGTH, FT	PIPE SLOPE	START INVERT	END INVERT	START STATION	END STATION	NOTE	ALIGNMENT
Pipe - 62	SS E14	SS E15	8	125	0.54%	+712.98	+713.66	86+87	88+12	LINE	P6E-ALIGN-SAN-FLETCHER
Pipe - 63	SS E15		6	5	1.00%	+713.86	+713.91	88+12	88+18	STUB	P6E-ALIGN-SAN-FLETCHER
Pipe - 65		SS E24	6	93	9.00%	+624.53	+632.93	90+40	91+33	PVC SRV	SAN-ALIGN-6E-SERV-MAIDEN-LN
Pipe - 66	SS E24		6	46	1.00%	+634.10	+634.56	91+33	91+79	PVC SRV	SAN-ALIGN-6E-SERV-MAIDEN-LN
Pipe - 70	SS E10	SS E26	8	400	2.70%	+690.91	+701.68	95+06	99+05	PVC Pipe	P6E-ALIGN-SAN-MAIDEN-LN-IN-STREET
Pipe - 71	SS E26		4	6	1.07%	+702.49	+702.55	99+05	99+08	STUB	P6E-ALIGN-SAN-MAIDEN-LN-IN-STREET
Pipe - 72	SS E26		6	10	0.60%	+702.68	+702.74	99+05	99+13	STUB	P6E-ALIGN-SAN-MAIDEN-LN-IN-STREET
Pipe - 73	SS E26		4	15	0.30%	+702.70	+702.75	99+05	99+20	STUB	P6E-ALIGN-SAN-MAIDEN-LN-IN-STREET
Pipe - 74	SS E26		4	13	0.47%	+703.27	+703.33	99+05	99+18	STUB	P6E-ALIGN-SAN-MAIDEN-LN-IN-STREET
Pipe - 78		NEW MH 3535	12	25	0.63%	+689.27	+689.42	102+01	102+26	PVC Pipe	P6E-ALIGN-SAN-LUCAS
Pipe - 79	NEW MH 3535		12	11	0.44%	+689.57	+689.62	102+26	102+37	PVC Pipe	P6E-ALIGN-SAN-LUCAS
Pipe - 80			6	36	2.00%	+689.79	+690.50	93+00	93+36	PVC SRV	P6E-ALIGN-SAN-CHAPEL

SANITARY SEWER ALIGNMENT TABLE

SEWER BRANCH	DESCRIPTION	ALIGNMENT NAME	STARTING STATION	SHEETS
LOGAN	FROM N OF NEWELL TO CLIMER ST	P6E - ALIGN-SAN-LOGAN	5+00	MSA.01
NEWELL EAST	FROM LOGAN TO BROADWAY	P6E - ALIGN-SAN-NEWELL-EAST	15+00	MSA.02 THRU MSA.06
NEWELL WEST	FROM LOGAN TO LUCAS	P6E - ALIGN-SAN-NEWELL-WEST	40+00	MSA.07 THRU MSA.10
CLIMER	FROM E OF LOGAN TO LUCAS	P6E - ALIGN-SAN-CLIMER	60+00	MSA.11 THRU MSA.13
TERRACE HEIGHTS	S OF TERRACE HEIGHTS DR TO EX SEWER	P6E - ALIGN-SAN-TERRACE HGHTS	75+00	MSA.18
FLETCHER	S OF LUCAS TO END OF SEWER PAST BRIDGEMANN ST	P6E - ALIGN-SAN-FLETCHER	80+00	MSA.14 AND MSA.15
SERVICE FOR 702	SERVICE FOR 702 MAIDEN LANE CONNECTING TO HAGERMAN DR	SAN-ALIGN-6E-SERV-MAIDEN-LN	90+00	MSA.17
SERVICE FOR CHAPEL	SERVICE FOR GREENWOOD CEMETERY CHAPEL	P6E - ALIGN-SAN-CHAPEL	93+00	MSA.16
MAIDEN LANE	FROM NEWELL TO END OF SEWER	P6E - ALIGN-MAIDEN-LN-IN-STREET	95+00	MSA.21
KINDLER	CONNECT TO KINDLER BRANCH	P6E - ALIGN-SAN-KINDLER	100+00	MSA.06
LUCAS	REPLACEMENT OF LUCAS MANHOLE	P6E - ALIGN-SAN-LUCAS	102+00	MSA.16

NOTE: SHEETS MSA.19 AND MSA.20 ARE CURRENTLY NOT USED.

NOTES

1. DETAILED QUANTITIES TABULATIONS ARE PROVIDED FOR CONVENIENCE OF CONTRACTOR AND OWNER. REFER TO PLANS FOR SPECIFIC REQUIREMENTS. IF DISCREPANCIES ARE FOUND, PLAN DRAWINGS INFORMATION GOVERNS. DISCREPANCIES SHOULD BE BROUGHT TO ENGINEER TO CONFIRM DESIGN INTENT.
2. SEE SHEET C.10 FOR SANITARY STRUCTURE TABLE.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER
PIPE TABLES
ALIGNMENT TABLE

DESIGNED KK HEIM
DRAWN GM REEVES
CHECKED ER SCHALLERT
APPROVED JM BRADY
APPROVED KK HEIM
DATE MARCH 30, 2026

SCALE: NONE
NO. 17660.60.40
REV. 0
C.12

CADD D3-R5

STANLEY CONSULTANTS

STORM STRUCTURES TABLE

STRUCTURE NAME	SUDAS STRUCTURE	STRUCTURE STATION	ALIGNMENT	RIM ELEVATION	STRUCTURE DEPTH	INVERT IN	INVERT OUT	NORTHING	EASTING
ST 9	401	STA 200+63	6E-ALIGN-ST-NEWELL-WEST	RIM ELEV: +677.91	7.87'	INV IN: +670.13 INV IN: +672.74 INV IN: +674.46	INV OUT: +670.03	527829.85	2308058.35
ST 10	401	STA 201+51	6E-ALIGN-ST-NEWELL-WEST	RIM ELEV: +680.27	9.73'	INV IN: +675.71 INV IN: +670.64 INV IN: +677.29	INV OUT: +670.54	527829.43	2307970.13
ST 11	401	STA 204+62	6E-ALIGN-ST-NEWELL-WEST	RIM ELEV: +689.58	4.22'	INV IN: +685.59 INV IN: +686.69 INV IN: +685.36	INV OUT: +685.36	527828.03	2307658.93
ST 12	401	STA 207+28	6E-ALIGN-ST-NEWELL-WEST	RIM ELEV: +696.56	3.92'	INV IN: +692.70 INV IN: +692.74 INV IN: +693.71	INV OUT: +692.64	527827.34	2307393.06
ST 13	401	STA 211+06	6E-ALIGN-ST-NEWELL-WEST	RIM ELEV: +702.74	5.12'	INV IN: +697.71 INV IN: +698.37 INV IN: +700.62	INV OUT: +697.61	527825.66	2307014.95
ST 14	401	STA 214+48	6E-ALIGN-ST-NEWELL-WEST	RIM ELEV: +708.73	4.70'	INV IN: +704.44 INV IN: +705.91 INV IN: +704.13	INV OUT: +704.03	527824.63	2306673.40
ST 15	401	STA 217+52	6E-ALIGN-ST-NEWELL-WEST	RIM ELEV: +718.43	4.27'	INV IN: +715.65 INV IN: +714.26 INV IN: +714.47	INV OUT: +714.16	527822.51	2306369.78
ST 17	401	STA 218+17	6E-ALIGN-ST-NEWELL-WEST	RIM ELEV: +720.59	4.16'	INV IN: +716.85	INV OUT: +716.43	527822.67	2306304.26
N27	507	STA 218+39	6E-ALIGN-ST-NEWELL-WEST	RIM ELEV: +720.83	3.23'		INV OUT: +717.60	527844.20	2306303.68
N1	507	STA 220+20	6E-ALIGN-STORM-NEWELL-EAST	RIM ELEV: +677.67	4.17'	INV IN: +673.60	INV OUT: +673.50	527817.86	2308126.41
N3	507	STA 222+96	6E-ALIGN-STORM-NEWELL-EAST	RIM ELEV: +683.06	3.79'	INV IN: +679.32 INV IN: +679.92	INV OUT: +679.27	527823.17	2308402.61
N5	507	STA 226+83	6E-ALIGN-STORM-NEWELL-EAST	RIM ELEV: +690.27	3.80'	INV IN: +686.67 INV IN: +687.49	INV OUT: +686.47	527830.96	2308788.75
N7	507	STA 230+73	6E-ALIGN-STORM-NEWELL-EAST	RIM ELEV: +694.49	3.92'	INV IN: +690.62 INV IN: +691.87	INV OUT: +690.57	527838.45	2309179.00
N9	507	STA 234+72	6E-ALIGN-STORM-NEWELL-EAST	RIM ELEV: +699.19	4.36'	INV IN: +696.24 INV IN: +694.93	INV OUT: +694.83	527847.56	2309577.85
N11	507	STA 236+00	6E-ALIGN-STORM-NEWELL-EAST	RIM ELEV: +703.08	7.77'	INV IN: +695.42 INV IN: +699.30	INV OUT: +695.32	527851.11	2309705.87
N13	507	STA 239+91	6E-ALIGN-STORM-NEWELL-EAST	RIM ELEV: +700.46	3.86'	INV IN: +696.70	INV OUT: +696.60	527861.90	2310096.56
N14	507	STA 240+21	6E-ALIGN-STORM-NEWELL-EAST	RIM ELEV: +700.35	3.35'		INV OUT: +697.00	527891.92	2310097.15
ST 50	401	STA 245+04	6E-ALIGN-STORM-LUCAS-CHAPEL	RIM ELEV: +694.27	12.14'	INV IN: +689.88 INV IN: +682.23	INV OUT: +682.13	526717.30	2308406.69
LU-1	507	STA 245+21	6E-ALIGN-STORM-LUCAS-CHAPEL	RIM ELEV: +694.27	4.13'	INV IN: +690.25	INV OUT: +690.15	526710.38	2308422.96
NEW 3534	545	STA 245+37	6E-ALIGN-STORM-LUCAS-CHAPEL	RIM ELEV: +694.01	12.41'	INV IN: +682.06	INV OUT: +681.60	526745.37	2308456.11
LU-2	507	STA 245+63	6E-ALIGN-STORM-LUCAS-CHAPEL	RIM ELEV: +694.32	3.65'	INV IN: +690.77	INV OUT: +690.67	526693.31	2308461.22
LU-3	507	STA 245+87	6E-ALIGN-STORM-LUCAS-CHAPEL	RIM ELEV: +694.29	3.28'	INV IN: +691.11	INV OUT: +691.01	526683.32	2308482.82
NEW 3534 WING EAST	545-EXTENSION	STA 247+06	6E-ALIGN-STORM-LUCAS-CHAPEL-2	RIM ELEV: +694.02	4.00'			526741.75	2308460.16
NEW 3534-WING-WEST	545-EXTENSION	STA 247+09	6E-ALIGN-STORM-LUCAS-CHAPEL-2	RIM ELEV: +694.13	4.00'			526746.26	2308450.86
ST 51	401	STA 247+83	6E-ALIGN-STORM-LUCAS-CHAPEL-2	RIM ELEV: +694.95	12.35'	INV IN: +682.77 INV IN: +689.79	INV OUT: +682.60	526707.38	2308388.64
ST 1	401	STA 256+42	6E-ALIGN-STORM-LOGAN	RIM ELEV: +676.29	8.70'	INV IN: +672.17 INV IN: +667.69 INV IN: +670.11	INV OUT: +667.59	527877.56	2308114.49
ST 2	401	STA 256+89	6E-ALIGN-STORM-LOGAN	RIM ELEV: +677.33	9.23'	INV IN: +672.30 INV IN: +671.60 INV IN: +669.71 INV IN: +669.68	INV OUT: +668.10	527830.22	2308115.23
L4	507	STA 257+22	6E-ALIGN-STORM-LOGAN	RIM ELEV: +678.47	6.22'	INV IN: +674.24	INV OUT: +672.25	527798.88	2308106.85
L3	507	STA 257+52	6E-ALIGN-STORM-LOGAN	RIM ELEV: +678.57	3.87'		INV OUT: +674.70	527794.08	2308076.66
ST 16	401	STA 258+10	6E-ALIGN-STORM-CLIMER	RIM ELEV: +696.74	6.57'	INV IN: +693.64	INV OUT: +690.17	527464.02	2308150.83
NEW ST 3723	401	STA 258+96	6E-ALIGN-STORM-CLIMER	RIM ELEV: +698.12	3.62'	INV IN: +694.60 INV IN: +694.60	INV OUT: +694.50	527463.23	2308065.09

SEE SHEET C.14 FOR CONTINUATION OF STORM STRUCTURE TABLE

NOTES

1. DETAILED QUANTITY TABULATIONS ARE PROVIDED FOR CONVENIENCE OF CONTRACTOR AND CITY. REFER TO PLANS FOR SPECIFIC REQUIREMENTS. IF DISCREPANCIES ARE FOUND, PLAN DRAWING INFORMATION GOVERNS. DISCREPANCIES SHOULD BE BROUGHT TO DESIGN ENGINEER TO CONFIRM DESIGN INTENT.
2. PROPOSED INLET RIM ELEVATIONS ARE TAKEN FROM PROPOSED OR EXISTING SURFACE IN THE MIDDLE OF THE STRUCTURE. CENTER OF STRUCTURE PLACEMENT FOR SW-501 AND SW-502 STYLE INLETS IS 1' IN FRONT OF BACK OF CURB. FOR SW-507 AND 509 STYLE INLETS CENTER OF STRUCTURE IS 1.5' BEHIND BACK OF CURB. RIM ELEVATIONS SHALL BE ADJUSTED TO MATCH ELEVATIONS OF AS PLACED PAVEMENT WITH ADJUSTMENT RINGS. SEE DETAIL ON SHEET A.05 FOR INNER TUBE TECHNIQUE TO INSTALL CASTINGS FLUSH WITH PAVEMENT.
3. RIM ELEVATIONS FOR INLETS N2, N4, N22 CAN BE FOUND ON L SHEET. RIM ELEVATION FOR INLET N24 CAN BE FOUND ON D SHEET. RIM ELEVATION FOR THESE 4 STRUCTURES IN THIS TABLE ARE NOT ACCURATE.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER
STRUCTURE TABLE

DESIGNED KK HEIM
DRAWN GM REEVES
CHECKED ER SCHALLERT
APPROVED JM BRADY
APPROVED KK HEIM
DATE MARCH 30, 2026

SCALE: NONE
NO. 17660.60.40
REV. 0
C.13

CADD D3-R5
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SEE SHEET C.13 FOR CONTINUATION OF STORM STRUCTURE TABLE

STORM STRUCTURES TABLE

STRUCTURE NAME	SUDAS STRUCTURE	STRUCTURE STATION	ALIGNMENT	RIM ELEVATION	STRUCTURE DEPTH	INVERT IN	INVERT OUT	NORTHING	EASTING
N8	507	STA 265+37	6E-ALIGN-INLETS-NEWELL-1	RIM ELEV: +699.18	2.68'	INV IN: +696.50	INV OUT: +696.50	527877.50	2309573.30
N30	507	STA 265+81	6E-ALIGN-INLETS-NEWELL-1	RIM ELEV: +701.11	4.11'	INV IN: +697.10	INV OUT: +697.00	527895.28	2309613.39
N10	507	STA 266+14	6E-ALIGN-INLETS-NEWELL-1	RIM ELEV: +702.50	4.01'		INV OUT: +698.49	527900.76	2309646.49
N12	507	STA 267+34	6E-ALIGN-INLETS-NEWELL-2	RIM ELEV: +703.20	3.30'		INV OUT: +699.90	527881.23	2309708.14
N6	507	STA 270+33	6E-ALIGN-INLETS-NEWELL-3	RIM ELEV: +694.47	2.37'		INV OUT: +692.10	527868.51	2309180.16
N4	501	STA 272+33	6E-ALIGN-INLETS-NEWELL-4	RIM ELEV: +690.32	2.52'		INV OUT: +687.80	527858.47	2308802.50
N2	501	STA 274+28	6E-ALIGN-INLETS-NEWELL-5	RIM ELEV: +682.67	2.52'		INV OUT: +680.15	527850.71	2308403.23
N15	509	STA 276+04	6E-ALIGN-INLETS-NEWELL-6	RIM ELEV: +678.13	5.13'		INV OUT: +673.00	527813.38	2308056.67
N31	507	STA 276+47	6E-ALIGN-INLETS-NEWELL-6	RIM ELEV: +677.80	3.15'		INV OUT: +674.65	527851.48	2308071.98
N17	507	STA 278+23	6E-ALIGN-INLETS-NEWELL-7	RIM ELEV: +680.54	9.82'	INV IN: +670.82	INV OUT: +670.72	527812.91	2307967.84
N16	507	STA 278+61	6E-ALIGN-INLETS-NEWELL-7	RIM ELEV: +680.52	3.07'		INV OUT: +677.45	527850.92	2307971.79
N19	507	STA 280+10	6E-ALIGN-INLETS-NEWELL-8	RIM ELEV: +689.88	3.88'		INV OUT: +686.00	527811.53	2307659.81
N18	507	STA 280+48	6E-ALIGN-INLETS-NEWELL-8	RIM ELEV: +689.88	3.03'		INV OUT: +686.85	527849.54	2307659.20
N21	507	STA 282+06	6E-ALIGN-INLETS-NEWELL-9	RIM ELEV: +696.82	2.82'		INV OUT: +694.00	527810.80	2307390.36
N20	507	STA 282+45	6E-ALIGN-INLETS-NEWELL-9	RIM ELEV: +696.86	2.96'		INV OUT: +693.90	527848.81	2307387.26
N23	507	STA 284+03	6E-ALIGN-INLETS-NEWELL-10	RIM ELEV: +703.02	4.22'		INV OUT: +698.80	527809.43	2307013.74
N22	501	STA 284+39	6E-ALIGN-INLETS-NEWELL-10	RIM ELEV: +702.89	2.19'		INV OUT: +700.70	527844.84	2307012.64
N25	507	STA 286+03	6E-ALIGN-INLETS-NEWELL-12	RIM ELEV: +718.78	3.28'		INV OUT: +715.50	527806.54	2306363.02
N26	507	STA 286+05	6E-ALIGN-INLETS-NEWELL-11	RIM ELEV: +708.96	3.71'		INV OUT: +705.25	527808.16	2306673.39
N24	501	STA 286+41	6E-ALIGN-INLETS-NEWELL-11	RIM ELEV: +708.46	2.36'		INV OUT: +706.10	527843.56	2306673.52
N28	507	STA 286+66	6E-ALIGN-INLETS-NEWELL-12	RIM ELEV: +719.08	2.98'	INV IN: +717.17	INV OUT: +716.10	527867.66	2306365.15
N29	507	STA 287+01	6E-ALIGN-INLETS-NEWELL-12	RIM ELEV: +720.45	3.01'		INV OUT: +717.44	527866.60	2306329.29
ST 18	LOW HEADRM FLATTOP	STA 296+48	6E-ALIGN-STORM-TERRACEHGHTS	RIM ELEV: +654.81	8.02'	INV IN: +652.80 INV IN: +651.25	INV OUT: +646.79	529388.58	2309234.48
COLLAR-1	BEND/COLLAR	STA 296+80	6E-ALIGN-STORM-TERRACEHGHTS	RIM ELEV: +656.56		INV IN: +655.48	INV OUT: +655.48	529413.19	2309254.13
C1	501	STA 501+05	6E-ALIGN-INLET-CLIMER-2	RIM ELEV: +703.11	3.44'		INV OUT: +699.67	527477.34	2307703.71
LG1	501	STA 501+20	6E-ALIGN-INLET-CLIMER-2	RIM ELEV: +698.00	2.99'		INV OUT: +695.00	527480.80	2308065.45
ST 15C	401	STA 501+20	6E-ALIGN-INLET-CLIMER-2	RIM ELEV: +703.26	3.84'	INV IN: +699.52 INV IN: +699.56	INV OUT: +699.42	527462.49	2307707.37
C2	501	STA 501+31	6E-ALIGN-INLET-CLIMER-2	RIM ELEV: +703.45	3.78'		INV OUT: +699.67	527451.49	2307707.37
L2	507	STA 502+07	6E-ALIGN-INLET-LOGAN-1	RIM ELEV: +676.78	6.37'		INV OUT: +670.41	527873.87	2308098.98
L1	507	STA 502+43	6E-ALIGN-INLET-LOGAN-1	RIM ELEV: +676.44	4.09'		INV OUT: +672.35	527874.38	2308135.01

STORM SEWER ALIGNMENT TABLE

SEWER BRANCH	DESCRIPTION	ALIGNMENT NAME	STARTING STATION	SHEETS
LOGAN	ON LOGAN STREET NEAR INTERSECTION WITH NEWELL AVENUE	P6E - ALIGN-STORM-LOGAN	255+00	M.01
NEWELL EAST	FROM LOGAN TO BROADWAY	P6E - ALIGN-STORM-NEWELL- EAST	220+00	M.02 THRU M.06
NEWELL WEST	FROM LOGAN TO LUCAS	P6E - ALIGN-STORM-NEWELL-WEST	200+00	M.07 THRU M.10
CLIMER	FROM E OF LOGAN TO LUCAS	P6E - ALIGN-STORM-CLIMER	258+00	M.11 THRU M.12
LUCAS STREET	STORM SEWER NEAR GREENWOOD CEMETERY CHAPEL	P6E - ALIGN-STORM-LUCAS-CHAPEL	247+00	M.16
LUCAS STREET	INLETS NEAR GREENWOOD CEMETERY CHAPEL	P6E - ALIGN-STORM-LUCAS-CHAPEL-2	245+00	M.16
UWBS LINING	EAST END OF IOWA FIELD	P6E - ALIGN-STORM-UWBS-LINING	250+00	M.19
HAGERMAN	ON PROPERTY OF 602 HAGERMAN	6E - ALIGN-STORM-602-HAGERMAN	290+00	MSA.17
TERRACE HEIGHTS	FROM TERRACE HEIGHTS TO 539 PROPERTY	6E - ALIGN-STORM-TERRACEHEIGHTS	295+00	M.18
TERRACE HEIGHTS	END OF TERRACE HEIGHTS	6E - ALIGN-STORM-TERRACEHEIGHTS-2	300+00	M.18

NOTES

1. DETAILED QUANTITY TABULATIONS ARE PROVIDED FOR CONVENIENCE OF CONTRACTOR AND CITY. REFER TO PLANS FOR SPECIFIC REQUIREMENTS. IF DISCREPANCIES ARE FOUND, PLAN DRAWING INFORMATION GOVERNS. DISCREPANCIES SHOULD BE BROUGHT TO DESIGN ENGINEER TO CONFIRM DESIGN INTENT.
2. PROPOSED INLET RIM ELEVATIONS ARE TAKEN FROM PROPOSED OR EXISTING SURFACE IN THE MIDDLE OF THE STRUCTURE. CENTER OF STRUCTURE PLACEMENT FOR SW-501 AND SW-502 STYLE INLETS IS 1' IN FRONT OF BACK OF CURB. FOR SW-507 AND 509 STYLE INLETS CENTER OF STRUCTURE IS 1.5' BEHIND BACK OF CURB. RIM ELEVATIONS SHALL BE ADJUSTED TO MATCH ELEVATIONS OF AS PLACED PAVEMENT WITH ADJUSTMENT RINGS. SEE DETAIL ON SHEET A.05 FOR INNER TUBE TECHNIQUE TO INSTALL CASTINGS FLUSH WITH PAVEMENT.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER
STRUCTURE TABLE

DESIGNED KK HEIM
DRAWN GM REEVES
CHECKED ER SCHALLERT
APPROVED JM BRADY
APPROVED KK HEIM
DATE MARCH 30, 2026

SCALE: NONE
NO. 17660.60.40
REV. 0
C.14

CADD D3-R5
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STORM SEWER PIPE TABLE

PIPE ID	START MANHOLE	END MANHOLE	PIPE DIAMETER (INCHES)	PIPE LENGTH (FT)	PIPE SLOPE	START INVERT	END INVERT	START STATION	END STATION	NOTE	ALIGNMENT
Pipe - 121	ST 2	ST 9	24	57	0.56%	+669.71	+670.03	200+06	200+63	Concrete Pipe	6E-ALIGN-ST-NEWELL-WEST
Pipe - 122	ST 9	ST 10	24	88	0.46%	+670.13	+670.54	200+63	201+51	Concrete Pipe	6E-ALIGN-ST-NEWELL-WEST
Pipe - 123	ST 10	ST 11	18	311	3.10%	+675.71	+685.36	201+51	204+62	Concrete Pipe	6E-ALIGN-ST-NEWELL-WEST
Pipe - 124	ST 11	ST 12	15	266	2.65%	+685.59	+692.64	204+62	207+28	Concrete Pipe	6E-ALIGN-ST-NEWELL-WEST
Pipe - 125	ST 12	ST 13	15	378	1.30%	+692.70	+697.61	207+28	211+06	Concrete Pipe	6E-ALIGN-ST-NEWELL-WEST
Pipe - 137	ST 13	N23	15	16	2.65%	+698.37	+698.80	211+06	211+08	Concrete Pipe	6E-ALIGN-ST-NEWELL-WEST
Pipe - 126	ST 13	ST 14	15	342	1.85%	+697.71	+704.03	211+06	214+48	Concrete Pipe	6E-ALIGN-ST-NEWELL-WEST
Pipe - 127	ST 14	ST 15	15	304	3.20%	+704.44	+714.16	214+48	217+52	Concrete Pipe	6E-ALIGN-ST-NEWELL-WEST
Pipe - 128	ST 15	ST 17	15	66	3.00%	+714.47	+716.43	217+52	218+17	Concrete Pipe	6E-ALIGN-ST-NEWELL-WEST
Pipe - 129	ST 17	N27	15	22	3.50%	+716.85	+717.60	218+17	218+39	Concrete Pipe	6E-ALIGN-ST-NEWELL-WEST
Pipe - 103	ST 2	N1	18	17	7.20%	+672.30	+673.50	220+03	220+20	Concrete Pipe	6E-ALIGN-STORM-NEWELL-EAST
Pipe - 104	N1	N3	18	276	2.05%	+673.60	+679.27	220+20	222+96	Concrete Pipe	6E-ALIGN-STORM-NEWELL-EAST
Pipe - 105	N3	N5	18	386	1.85%	+679.32	+686.47	222+96	226+83	Concrete Pipe	6E-ALIGN-STORM-NEWELL-EAST
Pipe - 106	N5	N7	15	390	1.00%	+686.67	+690.57	226+83	230+73	Concrete Pipe	6E-ALIGN-STORM-NEWELL-EAST
Pipe - 107	N7	N9	15	399	1.06%	+690.62	+694.83	230+73	234+72	Concrete Pipe	6E-ALIGN-STORM-NEWELL-EAST
Pipe - 108	N9	N11	15	128	0.30%	+694.93	+695.32	234+72	236+00	Concrete Pipe	6E-ALIGN-STORM-NEWELL-EAST
Pipe - 109	N11	N13	15	391	0.30%	+695.42	+696.60	236+00	239+91	Concrete Pipe	6E-ALIGN-STORM-NEWELL-EAST
Pipe - 110	N13	N14	15	30	1.00%	+696.70	+697.00	239+91	240+21	Concrete Pipe	6E-ALIGN-STORM-NEWELL-EAST
Pipe - 174	ST 50	LU-1	15	18	1.50%	+689.88	+690.15	245+04	245+21	Concrete Pipe	6E-ALIGN-STORM-LUCAS-CHAPEL
Pipe - 175	LU-1	LU-2	15	42	1.00%	+690.25	+690.67	245+21	245+63	Concrete Pipe	6E-ALIGN-STORM-LUCAS-CHAPEL
Pipe - 176	LU-2	LU-3	15	24	1.00%	+690.77	+691.01	245+63	245+87	Concrete Pipe	6E-ALIGN-STORM-LUCAS-CHAPEL
Pipe - 177	LU-3		12	10	1.00%	+691.11	+691.21	245+87	245+97	Concrete Pipe	6E-ALIGN-STORM-LUCAS-CHAPEL
Pipe - 169		NEW 3534		4	3.00%	+681.47	+681.60	247+00	247+05	STUB	6E-ALIGN-STORM-LUCAS-CHAPEL-2
Pipe - 170	NEW 3534	ST 50	18	57	0.12%	+682.06	+682.13	247+06	247+62	Concrete Pipe	6E-ALIGN-STORM-LUCAS-CHAPEL-2
Pipe - 171	ST 50	ST 51	18	21	1.81%	+682.23	+682.60	247+62	247+83	Concrete Pipe	6E-ALIGN-STORM-LUCAS-CHAPEL-2
Pipe - 173	ST 51		12	4	0.00%	+689.79	+689.79	247+83	247+85	Concrete Pipe	6E-ALIGN-STORM-LUCAS-CHAPEL-2
Pipe - 172	ST 51		18	4	0.00%	+682.77	+682.77	247+83	247+87	Concrete Pipe	6E-ALIGN-STORM-LUCAS-CHAPEL-2
Pipe - 101		ST 1	30	102	0.87%	+666.70	+667.59	255+40	256+42	Concrete Pipe	6E-ALIGN-STORM-LOGAN
Pipe - 102	ST 1	ST 2	24	47	0.87%	+667.69	+668.10	256+42	256+89	Concrete Pipe	6E-ALIGN-STORM-LOGAN
Pipe - 100	ST 2		8	6	1.87%	+669.68	+669.78	256+89	256+86	TEMP	6E-ALIGN-STORM-LOGAN
Pipe - 113	ST 2	L4	15	32	2.00%	+671.60	+672.25	256+89	257+22	Concrete Pipe	6E-ALIGN-STORM-LOGAN
Pipe - 114	L4	L3	15	31	1.50%	+674.24	+674.70	257+22	257+52	Concrete Pipe	6E-ALIGN-STORM-LOGAN
Pipe - 149		ST 16	15	5	1.48%	+690.10	+690.17	258+05	258+10	Concrete Pipe	6E-ALIGN-STORM-CLIMER
Pipe - 150	ST 16	NEW ST 3723	15	86	1.00%	+693.64	+694.50	258+10	258+96	Concrete Pipe	6E-ALIGN-STORM-CLIMER
Pipe - 151	NEW ST 3723	ST 15C	15	358	1.35%	+694.60	+699.42	258+96	262+53	Concrete Pipe	6E-ALIGN-STORM-CLIMER
Pipe - 118	N9	N8	15	30	0.87%	+696.24	+696.50	265+06	265+37	PVC ST	6E-ALIGN-INLETS-NEWELL-1
Pipe - 119	N8	N30	15	44	1.15%	+696.50	+697.00	265+37	265+81	PVC ST	6E-ALIGN-INLETS-NEWELL-1
Pipe - 145	N30	N10	15	34	4.15%	+697.10	+698.49	265+81	266+14	Concrete Pipe	6E-ALIGN-INLETS-NEWELL-1
Pipe - 120	N11	N12	15	30	2.00%	+699.30	+699.90	267+04	267+34	Concrete Pipe	6E-ALIGN-INLETS-NEWELL-2
Pipe - 117	N7	N6	8	30	0.75%	+691.87	+692.10	270+03	270+33	PVC ST	6E-ALIGN-INLETS-NEWELL-3
Pipe - 116	N5	N4	12	31	1.00%	+687.49	+687.80	272+02	272+33	PVC ST	6E-ALIGN-INLETS-NEWELL-4
Pipe - 115	N3	N2	12	28	0.82%	+679.92	+680.15	274+00	274+28	PVC ST	6E-ALIGN-INLETS-NEWELL-5
Pipe - 146	ST 9	N31	12	24	0.79%	+674.46	+674.65	276+21	276+45	PVC ST	6E-ALIGN-INLETS-NEWELL-6
Pipe - 130	ST 9	N15	15	17	1.55%	+672.74	+673.00	276+21	276+04	Concrete Pipe	6E-ALIGN-INLETS-NEWELL-6
Pipe - 144	N17		15	20	1.00%	+670.82	+671.02	278+23	278+03	Concrete Pipe	6E-ALIGN-INLETS-NEWELL-7

SEE SHEET C.16 FOR CONTINUATION OF STORM SEWER PIPE TABLE

NOTES

1. DETAILED QUANTITY TABULATIONS ARE PROVIDED FOR CONVENIENCE OF CONTRACTOR AND CITY. REFER TO PLANS FOR SPECIFIC REQUIREMENTS. IF DISCREPANCIES ARE FOUND, PLAN DRAWING INFORMATION GOVERNS. DISCREPANCIES SHOULD BE BROUGHT TO DESIGN ENGINEER TO CONFIRM DESIGN INTENT.
2. SEE SHEET C.13 & C.14 FOR STORM SEWER STRUCTURE TABLE.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER
PIPE TABLE

DESIGNED KK HEIM
DRAWN GM REEVES
CHECKED ER SCHALLERT
APPROVED JM BRADY
APPROVED KK HEIM
DATE MARCH 30, 2026

SCALE: NONE
NO. 17660.60.40
REV. 0
C.15

CADD D3-R5
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SEE SHEET C.15 FOR CONTINUATION OF STORM SEWER PIPE TABLE

STORM SEWER PIPE TABLE

PIPE ID	START MANHOLE	END MANHOLE	PIPE DIAMETER (INCHES)	PIPE LENGTH (FT)	PIPE SLOPE	START INVERT	END INVERT	START STATION	END STATION	NOTE	ALIGNMENT
Pipe - 132	ST 10	N16	15	22	0.75%	+677.29	+677.45	278+39	278+61	PVC ST	6E-ALIGN-INLETS-NEWELL-7
Pipe - 131	ST 10	N17	15	17	0.50%	+670.64	+670.72	278+39	278+23	Concrete Pipe	6E-ALIGN-INLETS-NEWELL-7
Pipe - 133	ST 11	N19	15	17	3.87%	+685.36	+686.00	280+26	280+10	Concrete Pipe	6E-ALIGN-INLETS-NEWELL-8
Pipe - 134	ST 11	N18	15	22	0.75%	+686.69	+686.85	280+26	280+48	PVC ST	6E-ALIGN-INLETS-NEWELL-8
Pipe - 136	ST 12	N20	15	22	0.85%	+693.71	+693.90	282+23	282+45	PVC ST	6E-ALIGN-INLETS-NEWELL-9
Pipe - 135	ST 12	N21	15	17	7.50%	+692.74	+694.00	282+23	282+06	Concrete Pipe	6E-ALIGN-INLETS-NEWELL-9
Pipe - 138	ST 13	N22	8	19	0.40%	+700.62	+700.70	284+20	284+39	PVC ST	6E-ALIGN-INLETS-NEWELL-10
Pipe - 141	ST 15	N25	15	17	7.15%	+714.26	+715.50	286+20	286+03	Concrete Pipe	6E-ALIGN-INLETS-NEWELL-12
Pipe - 142	ST 15	N28	12	45	1.00%	+715.65	+716.10	286+20	286+66	PVC ST	6E-ALIGN-INLETS-NEWELL-12
Pipe - 139	ST 14	N26	15	16	6.80%	+704.13	+705.25	286+22	286+05	Concrete Pipe	6E-ALIGN-INLETS-NEWELL-11
Pipe - 140	ST 14	N24	10	19	1.00%	+705.91	+706.10	286+22	286+41	PVC ST	6E-ALIGN-INLETS-NEWELL-11
Pipe - 143	N28	N29	12	36	0.75%	+717.17	+717.44	286+66	287+01	PVC ST	6E-ALIGN-INLETS-NEWELL-12
Pipe - 155			18	74	12.31%	+625.66	+634.71	290+05	290+79	HDPE	6E-ALIGN-STORM-602-HAGERMAN
P-10		ST 18	12	64	12.56%	+638.78	+646.79	295+84	296+48	HDPE	6E-ALIGN-STORM-TERRACEHGHTS
P-11			24	59	12.56%	+638.46	+645.92	295+86	296+45	CASING	6E-ALIGN-STORM-TERRACEHGHTS
P-13	ST 18		12	6	15.85%	+652.80	+653.70	296+48	296+54	HDPE	6E-ALIGN-STORM-TERRACEHGHTS
P-14			15	24	6.67%	+653.57	+655.15	296+54	296+77	Concrete Pipe	6E-ALIGN-STORM-TERRACEHGHTS
P-15		COLLAR-1	12	2	6.00%	+655.35	+655.48	296+77	296+80	HDPE	6E-ALIGN-STORM-TERRACEHGHTS
P-16	COLLAR-1		12	9	15.58%	+655.48	+656.82	296+80	296+88	HDPE	6E-ALIGN-STORM-TERRACEHGHTS
P-17	ST 18		12	31	19.59%	+651.25	+657.35	300+01	300+32	HDPE	6E-ALIGN-STORM-TERRACEHGHTS-2
Pipe - 153	NEW ST 3723	LG1	12	18	2.30%	+694.60	+695.00	500+03	500+21	STOCK	6E-ALIGN-INLET-CLIMER-1
Pipe - 152	ST 15C	C2	12	11	1.00%	+699.56	+699.67	501+20	501+31	Concrete Pipe	6E-ALIGN-INLET-CLIMER-2
Pipe - 154	ST 15C	C1	12	15	1.00%	+699.52	+699.67	501+20	501+05	STOCK	6E-ALIGN-INLET-CLIMER-2
Pipe - 112	ST 1	L1	15	21	0.88%	+672.17	+672.35	502+23	502+43	Concrete Pipe	6E-ALIGN-INLET-LOGAN-1
Pipe - 111	ST 1	L2	15	16	1.85%	+670.11	+670.41	502+23	502+07	Concrete Pipe	6E-ALIGN-INLET-LOGAN-1

STORM SEWER INLET ALIGNMENT TABLE

SEWER BRANCH	DESCRIPTION	ALIGNMENT NAME	STARTING STATION	SHEETS
CLIMER	ON CLIMER NEAR INTERSECTION OF CLIMER AND LOGAN	P6E - ALIGN-INLET-CLIMER-1	500+00	M.13
CLIMER	ON CLIMER NEAR 1022 CLIMER ST	P6E - ALIGN-INLET-CLIMER-2	501+00	M.13
LOGAN	ON LOGAN NEAR 1201 LOGAN ST	P6E - ALIGN-INLET-LOGAN-1	502+00	M.14
NEWELL EAST	ON NEWELL NEAR 848 NEWELL AVE	P6E - ALIGN-INLETS-NEWELL-1	265+00	M.22
NEWELL EAST	ON NEWELL NEAR 843 NEWELL AVE	P6E - ALIGN-INLETS-NEWELL-2	267+00	M.22
NEWELL EAST	ON NEWELL NEAR 878 NEWELL AVE	P6E - ALIGN-INLETS-NEWELL-3	270+00	M.23
NEWELL EAST	ON NEWELL NEAR 897 NEWELL AVE	P6E - ALIGN-INLETS-NEWELL-4	272+00	M.23
NEWELL EAST	ON NEWELL NEAR 927 NEWELL AVE	P6E - ALIGN-INLETS-NEWELL-5	274+00	M.24
NEWELL WEST	ON NEWELL NEAR 941 NEWELL AVE	P6E - ALIGN-INLETS-NEWELL-6	276+00	M.24
NEWELL WEST	ON NEWELL NEAR 949 NEWELL AVE	P6E - ALIGN-INLETS-NEWELL-7	278+00	M.25
NEWELL WEST	ON NEWELL NEAR 973 NEWELL AVE	P6E - ALIGN-INLETS-NEWELL-8	280+00	M.25
NEWELL WEST	ON NEWELL NEAR 987 NEWELL AVE	P6E - ALIGN-INLETS-NEWELL-9	282+00	M.26
NEWELL WEST	ON NEWELL NEAR 1017 NEWELL AVE	P6E - ALIGN-INLETS-NEWELL-10	284+00	M.26
NEWELL WEST	ON NEWELL NEAR 1032 NEWELL AVE	P6E - ALIGN-INLETS-NEWELL-11	286+00	M.27
NEWELL WEST	ON NEWELL NEAR 2307 CLIMER ST	P6E - ALIGN-INLETS-NEWELL-12	286+00	M.27

NOTES

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2. SEE SHEET C.13 & C.14 FOR STORM SEWER STRUCTURE TABLE AND STORM SEWER ALIGNMENT TABLE.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER
PIPE TABLE

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: NONE
NO. 17660.60.40
REV. C
C.16

CADD D3-R5
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SANITARY SERVICE LINES		
ADDRESS NUMBER	SERVICE CONNECTION, EA	LENGTH AFTER 10', FT
704 NEWELL AVE	1	6.1
706 NEWELL AVE	1	6.0
707 NEWELL AVE	1	11.0
708 NEWELL AVE	1	5.9
709 NEWELL AVE	1	11.0
710 NEWELL AVE	1	5.9
711 NEWELL AVE	1	11.0
712 NEWELL AVE	1	6.0
836 NEWELL AVE	1	6.0
838 NEWELL AVE	1	6.0
842 NEWELL AVE	1	6.0
843 NEWELL AVE	1	11.1
844 NEWELL AVE	1	5.9
846 NEWELL AVE	1	5.9
848 NEWELL AVE	1	5.9
850 NEWELL AVE	1	6.1
852 NEWELL AVE	1	6.0
865 NEWELL AVE	1	11.0
867 NEWELL AVE	1	11.1
869 NEWELL AVE	1	11.0
870 NEWELL AVE	1	6.0
871 NEWELL AVE	1	11.0
873 NEWELL AVE	1	11.0
874 NEWELL AVE	1	6.0
875 NEWELL AVE	1	11.1
877 NEWELL AVE	1	11.0
878 NEWELL AVE	1	6.1
879 NEWELL AVE	1	11.0
880 NEWELL AVE	1	6.0
882 NEWELL AVE	1	6.0
883 NEWELL AVE	1	11.0
891 NEWELL AVE	1	11.0
892 NEWELL AVE	1	6.0
892A NEWELL AVE	1	6.2
893 NEWELL AVE	1	11.0
894 NEWELL AVE	1	6.2
895 NEWELL AVE	1	11.0
897 NEWELL AVE	1	11.0
903 NEWELL AVE	1	11.0
906 NEWELL AVE	1	6.0
910 NEWEL AVE	1	6.0
913 NEWELL AVE	1	11.0
915 NEWELL AVE	1	11.0
917 NEWELL AVE	1	11.0
919 NEWELL AVE	1	11.0
TOTAL	**45**	**380.5**

SANITARY SERVICE LINES		
ADDRESS NUMBER	SERVICE CONNECTION, EA	LENGTH AFTER 10', FT
920 NEWELL AVE	1	6.0
921 NEWELL AVE	1	11.0
113 NEDIG AVE	1	6.0
927 NEWELL AVE	1	11.0
929 NEWELL AVE	1	11.0
931 NEWELL AVE	1	11.0
939 NEWELL AVE	1	11.0
1201 LOGAN ST	1	23.5
941 NEWELL AVE	1	0.9
949 NEWELL AVE	1	24.7
955 NEWELL AVE	1	24.5
961 NEWELL AVE	1	24.1
964 NEWELL AVE	1	1.0
965 NEWELL AVE	1	23.6
968 NEWELL AVE	1	1.4
970 NEWELL AVE	1	1.7
971 NEWELL AVE	1	22.9
972 NEWELL AVE	1	2.1
973 NEWELL AVE	1	22.5
974 NEWELL AVE	1	2.4
975 NEWELL AVE	1	22.4
976 NEWELL AVE	1	2.6
982 NEWELL AVE	1	2.6
984 NEWELL AVE	1	2.8
984A NEWELL AVE	1	3.1
986 NEWELL AVE	1	3.3
987 NEWELL AVE	1	22.0
989 NEWELL AVE	1	21.9
990 NEWELL AVE	1	3.3
1002 NEWELL AVE	1	3.2
1003 NEWELL AVE	1	21.8
1004 NEWELL AVE	1	3.4
1005 NEWELL AVE	1	21.8
1006 NEWELL AVE	1	3.4
1006A NEWELL AVE	1	3.6
1007 NEWELL AVE	1	21.7
1008 NEWELL AVE	1	3.7
1017 NEWELL AVE	1	21.6
1019 NEWELL AVE	1	21.5
1020 NEWELL AVE	1	4.0
1021 NEWELL AVE	1	21.2
1023 NEWELL AVE	1	21.0
1024 NEWELL AVE	1	4.0
1028 NEWELL AVE	1	4.1
1031 NEWELL AVE	1	20.7
TOTAL	**45**	**527.0**

SANITARY SERVICE LINES		
ADDRESS NUMBER	SERVICE CONNECTION, EA	LENGTH AFTER 10', FT
1032 NEWELL AVE	1	4.2
1033 NEWELL AVE	1	21.2
1035 NEWELL AVE	1	20.9
1039 NEWELL AVE	1	21.2
1101 NEWELL AVE	1	20.6
1103 NEWELL AVE	1	20.3
1105 NEWELL AVE	1	20.0
1143 LOGAN ST	1	16.7
1142 LOGAN ST *	1	1.0
1141 LOGAN ST	1	16.9
1140 LOGAN ST	1	0.0
1139 LOGAN ST	1	17.3
1138 LOGAN ST	1	0.0
1137 LOGAN ST	1	18.0
1135 LOGAN ST	1	18.4
1012 CLIMER ST	1	5.7
1013 CLIMER ST	1	9.6
1014 CLIMER ST	1	9.4
1015 CLIMER ST	1	5.1
1016 CLIMER ST	1	10.0
1018 CLIMER ST	1	8.9
1019 CLIMER ST	1	10.2
1020 CLIMER ST	1	8.7
1021 CLIMER ST (PIPE A)	1	10.5
1021 CLIMER ST (PIPE B)	1	11.8
1022 CLIMER ST	1	8.6
1026 CLIMER ST	1	8.6
1027 CLIMER ST	1	0.0
1028 CLIMER ST	1	8.6
1030 CLIMER ST	1	8.6
1032 CLIMER ST	1	8.6
1034 CLIMER ST	1	8.6
1036 CLIMER ST	1	8.6
1045 CLIMER ST	1	8.6
1051 CLIMER ST	1	10.5
1055 CLIMER ST	1	11.4
1057 CLIMER ST	1L	11.6
200 FLETCHER AVE	1L	0.0
208 FLETCHER AVE	1L	0.0
212 FLETCHER AVE	1L	0.0
215 FLETCHER AVE	1L	0.0
216 FLETCHER AVE	1L	0.0
219 FLETCHER AVE	1L	0.0
220 FLETCHER AVE	1L	0.0
221 FLETCHER AVE	1L	0.0
TOTAL	**36**	**408.9**
TOTAL (LINED)	**9**	

SANITARY SERVICE LINES		
ADDRESS NUMBER	SERVICE CONNECTION, EA	LENGTH AFTER 10', FT
223 FLETCHER AVE	1L	0.0
224 FLETCHER AVE	1L	0.0
226 FLETCHER AVE	1L	0.0
232 FLETCHER AVE	1L	0.0
300 FLETCHER AVE	1L	0.0
304 FLETCHER AVE	1L	0.0
306 FLETCHER AVE	1L	0.0
310 FLETCHER AVE		0.0
723 MAIDEN LANE	1	16.7
727 MAIDEN LANE	1	16.0
729 MAIDEN LANE	1	5.8
719 MAIDEN LANE	1	10.0
715 MAIDEN LANE	1	8.7
711 MAIDEN LANE	1	7.7
707 MAIDEN LANE	1	6.2
708 MAIDEN LANE	1	10.4
910 MAIDEN LANE	1	11.2
1311 TERRACE HEIGHTS DR	1	
1315 TERRACE HEIGHTS DR	1	
TOTAL	**11**	**92.7**
TOTAL (LINED)	**7**	

TOTAL SANITARY SERVICE CONNECTIONS TO MAIN, EA	137
TOTAL SANITARY SERVICE CONNECTIONS TO LINED SEWER, EA	16
TOTAL SERVICE CONNECTION LENGTH, FT	1409.1

NOTES

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2. SEE ESTIMATE REFERENCE NOTES FOR DESCRIPTION OF PAYMENT FOR SANITARY SEWER SERVICE CONNECTIONS TO MAIN, THAT INCLUDES CONNECTION TO MAIN PLUS UP TO 10 OF SERVICE PIPING TO CONNECT NEW MAIN TO EXISTING SERVICE.
3. LENGTH OF SANITARY SERVICE LISTED IN A HORIZONTAL ESTIMATE FROM NEW SEWER MAIN ACROSS NEW PAVEMENT TO A POINT 5-FEET BEHIND BACK OF CURB. SEE NOTE ON MSA.00 FOR SANITARY SERVICE REPLACEMENT APPROACH. REPLACE EXISTING SERVICE UNDER ROAD WHEN EXISTING SERVICE LINE IS IN POOR CONDITION OR WHEN MATERIAL IS NOT PVC OR DIP. CONNECT NEW SERVICE TO EXISTING SERVICE PIPE IN SOUND CONDITION.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

TABLES
SEWER SERVICE LINE TABULATION

DESIGNED KK HEIM
DRAWN GM REEVES
CHECKED ER SCHALLERT
APPROVED JM BRADY
APPROVED KK HEIM
DATE MARCH 30, 2026

SCALE: NONE
NO. 17660.60.40
REV. 0
C.17

CADD D3-R5

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DRIVEWAY REMOVAL/REPLACEMENT		
ADDRESS	DRIVEWAY REMOVAL (SY)	DRIVEWAY REPLACEMENT (SY)
707 Newell Ave.	18	20
709 Newell Ave.	26	31
711 Newell Ave.	8	33
712 Newell Ave.	18	20
836 Newell Ave.	32	38
838 Newell Ave. (East Driveway)	30	32
838 Newell Ave. (West Driveway)	18	17
844 + 842 Newell Ave.	57	56
843 Newell Ave.	18	79
846 Newell Ave.	16	17
848 Newell Ave.	15	16
850 Newell Ave.	16	19
852 Newell Ave.	17	19
865 Newell Ave.	17	18
867 Newell Ave.	33	35
869 Newell Ave.	21	18
870 Newell Ave.	21	25
871 Newell Ave.	15	20
873 Newell Ave.	18	21
874 Newell Ave.	29	31
875 Newell Ave.	25	21
877 Newell Ave.	29	17
878 Newell Ave.	18	20
879 Newell Ave.	34	35
880 Newell Ave.	19	19
882 Newell Ave.	36	37
883 Newell Ave. (East Driveway)	14	16
883 Newell Ave. (West Driveway)	16	19
891 Newell Ave.	17	19
892 Newell Ave.	18	19
892A Newell Ave.	20	22
893 Newell Ave.	18	19
895 Newell Ave.	18	20
897 Newell Ave.	15	20
903 Newell Ave.	16	19
913 Newell Ave. (Garage East)	27	30
913 Newell Ave. (West Drive)	15	16
915 + 917 Newell Ave.	37	38
CITY ROW (920-910 Newell Ave.)	35	0
919 + 921 Newell Ave.	39	46
927 Newell Ave.	27	28
929 + 931 Newell Ave.	29	31
939 Newell Ave.	22	20
941 Newell Ave.	11	13
949 Newell Ave.	11	12
955 Newell Ave.	15	13
961 Newell Ave.	15	12
964 Newell Ave.	21	17

DRIVEWAY REMOVAL/REPLACEMENT		
ADDRESS	DRIVEWAY REMOVAL (SY)	DRIVEWAY REPLACEMENT (SY)
965 Newell Ave.	14	14
968 Newell Ave.	14	19
970 Newell Ave.	15	16
971 + 973 Newell Ave.	11	11
972 Newell Ave.	14	12
974 Newell Ave.	13	13
976 Newell Ave.	16	18
982 Newell Ave.	18	18
984 Newell Ave.	12	12
984A Newell Ave.	15	17
986 Newell Ave.	20	20
989 Newell Ave.	15	14
990 Newell Ave.	13	14
1002 Newell Ave.	13	13
1003 Newell Ave.	13	13
1006 + 1004 Newell Ave.	32	26
1005 + 1007 Newell Ave.	29	29
1006A Newell Ave.	13	13
1008 Newell Ave.	19	19
1019 Newell Ave.	13	13
1020 Newell Ave.	13	16
1021 Newell Ave.	16	13
1023 Newell Ave.	12	14
1024 Newell Ave.	11	11
1032 + 1028 Newell Ave.	38	37
2223 Lucas St. + 1032 Newell Ave.	65	61
1031 Newell Ave.	14	13
1033 Newell Ave.	13	14
1035 Newell Ave.	12	15
1039 Newell Ave.	22	22
615 Maiden Ln.	14	14
707 Maiden Ln.	9	11
708 Maiden Ln.	23	32
711 Maiden Ln.	21	23
715 Maiden Ln.	7	17
723 Maiden Ln.	23	54
1201 Logan St.	8	9
1142 Logan St.	16	19
1140 Logan St.	17	13
1138 Logan St.	19	20
1132 Logan St.	10	11
2307 Lucas St.	153	83
2302 Lucas St.	27	24
2229 Lucas St.	22	21
2227 Lucas St.	20	19
2218 Lucas St.	20	20
2201 Lucas St.	40	100
2123 Lucas St.	44	44

DRIVEWAY REMOVAL/REPLACEMENT		
ADDRESS	DRIVEWAY REMOVAL (SY)	DRIVEWAY REPLACEMENT (SY)
2119 Lucas St.	24	24
2111 Lucas St.	4	5
2107 Lucas St.	7	7
2103 Lucas St.	6	6
2027 Lucas St.	5	6
2019 Lucas St.	4	4
1057 Climer St.	16	52
1055 Climer St.	19	19
1051 Climer St.	15	15
1045 Climer St.	23	17
1036 Climer St.	16	15
1034 Climer St.	14	12
1032 Climer St.	33	35
1030 Climer St.	22	20
1028 Climer St.	14	12
1027 Climer St.	6	7
1026 Climer St.	9	9
1022 Climer St.	11	11
1021 Climer St.	6	7
1020 Climer St.	13	14
1019 Climer St.	13	15
1018 + 1015 Climer St.	26	26
1016 Climer St.	6	7
1014 Climer St.	25	24
1013 Climer St.	10	11
1012 Climer St.	46	45
ALLEY Between 1143 Lucas & 113 Nedig	35	37
Greenwood Chapel West	172	169
Greenwood Chapel East	21	22
1819 Lucas St.	11	11
Lucas St. Park	27	24

NOTES

1. DETAILED QUANTITY TABULATIONS ARE PROVIDED FOR CONVENIENCE OF CONTRACTOR AND CITY. REFER TO PLANS FOR SPECIFIC REQUIREMENTS. IF DISCREPANCIES ARE FOUND, PLAN DRAWINGS INFORMATION GOVERNS. DISCREPANCIES SHOULD BE BROUGHT TO DESIGN ENGINEER TO CONFIRM DESIGN INTENT.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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225 Iowa Avenue, Muscatine, Iowa 52761-3764
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

DRIVEWAY REMOVAL REPLACEMENT TABLE

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE:

NO. 17660.60.40

REV. 0

C.18

CADD D3-R5

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ESTIMATED LANDSCAPING RESTORATION			
ADDRESS	**DESCRIPTION**	**ESTIMATED QUANTITY**	**UNIT**
852 NEWELL AVE	MULCHED FLOWER BED	23	SF
921 NEWELL AVE	BUSH BETWEEN SIDEWALK AND STREET	10	SF
1057 CLIMER STREET	BUSH IN FRONT OF HOUSE	10	SF
1055 CLIMER STREET	MULCHED TREE/FLOWER BED IN FRONT OF HOUSE	15	SF
1034 CLIMER STREET	MULCHED TREE/FLOWER BED IN FRONT OF HOUSE	15	SF
	TOTAL PLANTS	73	SF
	KNOWN RETAINING WALLS WITHIN PROJECT LIMITS		
1138 LOGAN STREET	RETAINING WALL ALONG DRIVEWAY		
1132 LOGAN STREET	RETAINING WALL ALONG DRIVEWAY		
1007 NEWELL STREET	RETAINING WALL ALONG DRIVEWAY		
984A NEWELL STREET	RETAINING WALL ALONG DRIVEWAY		
983 NEWELL STREET	RETAINING WALL ON THE EDGE OF SIDEWALK + DRIVEWAY		
891 NEWELL STREET	RETAINING WALL ALONG DRIVEWAY		
871 NEWELL STREET	RETAINING WALL ALONG DRIVEWAY		
869 NEWELL STREET	RETAINING WALL ALONG DRIVEWAY		
842 NEWELL AVE	RETAINING WALL ON THE EDGE OF SIDEWALK + DRIVEWAY		
838 NEWELL AVE	RETAINING WALL ALONG BOTH DRIVEWAYS		
836 NEWELL AVE	RETAINING WALL ALONG DRIVEWAY		
1013 CLIMER STREET	ROCK RETAINING WALL		
715 MAIDEN LANE	RETAINING WALL ALONG DRIVEWAY		
711 MAIDEN LANE	RETAINING WALL ALONG DRIVEWAY		

EXISTING TRAFFIC SIGN SUMMARY			
ADDRESS	**SIGN TYPE**	**DESCRIPTION**	**EXISTING LOCATION**
1105 NEWELL AVE	STOP	R.O.W. WESTBOUND (NEWELL)	2' FROM B.O.C.
2307 LUCAS ST	CROSSING AHEAD	R.O.W. EASTBOUND (AWAY FROM MINI MART)(NEWELL)	2' FROM B.O.C.
2307 LUCAS ST	NO PARKING HERE TO CORNER, BUS STOP, SNOW EMERGENCY	R.O.W. EASTBOUND (NEWELL)	2' FROM B.O.C.
1103 NEWELL AVE	NO PARKING, NO LEFT TURN	R.O.W. WESTBOUND (NEWELL)	2' FROM B.O.C.
1101 NEWELL AVE	STOP + STREET NAMES	R.O.W. SOUTHBOUND (KINDLER)	3' FROM B.O.C.
1101 NEWELL AVE	NO PARKING THIS SIDE OF STREET	R.O.W. SOUTHBOUND (KINDLER)	<1' FROM B.O.C.
2307 LUCAS ST	PEDESTRIAN CROSSING	R.O.W. EASTBOUND (NEWELL)	2' FROM B.O.C.
1039 NEWELL ST	PEDESTRIAN CROSSING	R.O.W. WESTBOUND AND EASTBOUND (NEWELL)	3' FROM B.O.C.
1031 NEWELL AVE	CROSSING AHEAD	R.O.W. WESTBOUND (NEWELL)	2' FROM B.O.C.
1017 NEWELL AVE	STOP + STREET NAMES	R.O.W. SOUTHBOUND (DEVITT)	<1' FROM B.O.C.
975 NEWELL AVE	DEAD END	R.O.W. NORTHBOUND (SIEGEL)	4' FROM B.O.C.
975 NEWELL AVE	STREET NAMES	R.O.W. WESTBOUND (NEWELL)	<1' FROM B.O.C.
1142 LOGAN ST	STOP, ALL WAY	R.O.W. EASTBOUND (NEWELL)	<1' FROM B.O.C.
941 NEWELL AVE	STREET NAMES	R.O.W. WESTBOUND (NEWELL)	<1' FROM B.O.C.
1143 LOGAN ST	NO PARKING THIS SIDE OF STREET	R.O.W. EASTBOUND (NEWELL)	<1' FROM B.O.C.
1201 LOGAN ST	STOP	R.O.W. WESTBOUND (NEWELL)	1' FROM B.O.C.
113 NEIDIG AVE	NO PARKING THIS SIDE OF STREET	R.O.W. EASTBOUND (NEWELL)	1' FROM B.O.C.
921 NEWELL AVE	STREET NAMES + NO PARKING DURING SNOW EMERGENCY	R.O.W. WESTBOUND (NEWELL)	<1' FROM B.O.C.
920 NEWELL AVE	NO PARKING THIS SIDE OF STREET	R.O.W. EASTBOUND (NEWELL)	1' FROM B.O.C.
910 NEWELL AVE	NO PARKING THIS SIDE OF STREET	R.O.W. EASTBOUND (NEWELL)	1' FROM B.O.C.
903 NEWELL AVE	STREET NAMES + NO PARKING DURING SNOW EMERGENCY	R.O.W. WESTBOUND (NEWELL)	2' FROM B.O.C.
894 NEWELL AVE	NO PARKING THIS SIDE	R.O.W. EASTBOUND (NEWELL)	2' FROM B.O.C.
883 NEWELL AVE	NO PARKING DURING SNOW EMERGENCY	R.O.W. WESTBOUND (NEWELL)	6' FROM B.O.C.
874 NEWELL AVE	NO PARKING + SPEED CHECKS	R.O.W. EASTBOUND (NEWELL)	3' FROM B.O.C.
846 NEWELL AVE	NO PARKING	R.O.W. EASTBOUND (NEWELL)	3' FROM B.O.C.
723 MAIDEN LN	STOP	R.O.W. SOUTHWESTBOUND (MAIDEN)	2' FROM B.O.C.
844 NEWELL AVE	CROSSING AHEAD	R.O.W. EASTBOUND (NEWELL)	1' FROM B.O.C.
711 NEWELL AVE	SPEED CHECK	R.O.W. EASTBOUND (NEWELL)	1' FROM B.O.C.
706 NEWELL AVE	NO PARKING THIS SIDE	R.O.W. EASTBOUND (NEWELL)	1' FROM B.O.C.
704 NEWELL AVE	PEDESTRIAN CROSSING	R.O.W. EASTBOUND (NEWELL)	<1' FROM B.O.C.
941 NEWELL AVE	STOP, ALL WAY	R.O.W. SOUTHBOUND (LOGAN)	1' FROM B.O.C.
941 NEWELL AVE	NO PARKING DURING SNOW EMERGENCY	R.O.W. SOUTHBOUND (LOGAN)	7' FROM B.O.C.
1143 LOGAN ST	STOP, ALL WAY	R.O.W. NORTHBOUND (LOGAN)	1' FROM B.O.C.
1142 LOGAN ST	NO PARKING THIS SIDE OF STREET	R.O.W. SOUTHBOUND (LOGAN)	<1' FROM B.O.C.
1139 LOGAN ST	NO PARKING DURING SNOW EMERGENCY	R.O.W NORTHBOUND (LOGAN)	5' FROM B.O.C.
1012 CLIMER ST	STREET NAMES + ONE WAY	R.O.W. SOUTHBOUND (LOGAN)	3' FROM B.O.C.
1016 CLIMER ST	NO PARKING THIS SIDE OF STREET	R.O.W. WESTBOUND (CLIMER)	1' FROM B.O.C.
2027 LUCAS ST	NO PARKING THIS SIDE OF STREET	R.O.W. WESTBOUND (CLIMER)	2' FROM B.O.C.
2123 LUCAS ST	NO PARKING THIS SIDE OF STREET	R.O.W. WESTBOUND (CLIMER)	1' FROM B.O.C.
2123 LUCAS ST	STOP, DO NOT ENTER	R.O.W. WESTBOUND (CLIMER)	2' FROM B.O.C.
2201 LUCAS ST	STOP	R.O.W. WESTBOUND (CLIMER)	2' FROM B.O.C.
615 MAIDEN LN	STREET NAMES	R.O.W. SOUTHWESTBOUND (MAIDEN)	3' FROM ROAD
615 MAIDEN LN	NO PARKING THIS SIDE OF STREET	R.O.W. SOUTHWESTBOUND (MAIDEN)	1' FROM ROAD

NOTES

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AT FULL SIZE

0 1 2 3 IN

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LANDSCAPING AND TRAFFIC SIGN TABLE

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STANLEY CONSULTANTS

STORMWATER POLLUTION PREVENTION PLAN FOR PHASE 6E:

ALL CONTRACTORS/SUBCONTRACTORS SHALL CONDUCT THEIR OPERATIONS IN A MANNER THAT MINIMIZES EROSION AND PREVENTS SEDIMENTS FROM LEAVING THE CITY'S RIGHT-OF-WAY AND/OR PROJECT SITE. THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ILLUSTRATES GENERAL MEASURES TO BE TAKEN FOR COMPLIANCE WITH THE NPDES PERMIT. THE CONTRACTOR MUST MAINTAIN THIS SWPPP AND DOCUMENTATION. CONTRACTOR MAY SUBMIT ALTERNATIVES TO THIS SWPPP FOR REVIEW BY THE CITY AND DESIGN ENGINEER.

THIS SWPPP INCLUDES THE FOLLOWING DOCUMENTS, SHEET CE.01 (SWPPP), DETAILS INCLUDED ON CE SHEETS IN THE DRAWING SET, SUDAS SPECIFICATIONS AND REQUIREMENTS AND DETAILS REFERENCED IN THE ESTIMATE REFERENCE NOTES AND CONTRACT DOCUMENTS, SWPPP SIGNED COMPLIANCE FORMS AS PROVIDED IN THE PROJECT MANUAL INCLUDING SWPPP OWNER CERTIFICATION, SWPPP CONTRACTOR AND SUBCONTRACTOR CERTIFICATION, SWPPP TRAINING LOG, STORMWATER CONSTRUCTION SITE INSPECTION REPORT, SWPPP AMENDMENT LOG, AND EROSION CONTROL SITE PLANS ON RR SERIES SHEETS. INSPECTION REPORTS, SIGNED CERTIFICATION STATEMENTS FROM THE OWNER AND CONTRACTOR AND ALL LISTED DOCUMENTATION BECOME PART OF THE SWPPP.

1. SITE DESCRIPTION:
   - A. THIS SWPPP COVERS THE 6E CONSTRUCTION OF SANITARY SEWER AND STORM SEWER SYSTEMS, DRINKING WATER SYSTEMS, REMOVAL AND REPLACEMENT OF PAVEMENT, SURFACE RESTORATION, AND OTHER RELATED WORK IN THE PHASE
   - B. THIS SWPPP COVERS APPROXIMATELY 7.5 ACRES WITH AN ESTIMATED 7.5 ACRES BEING DISTURBED ALONG STREET ROW AND EASEMENTS TO INSTALL SEWERS.
   - C. THE SWPPP IS LOCATED IN AN AREA OF THE FAYETTE AND MISSISSIPPI RIVER BOTTOM SOIL ASSOCIATION. THE ESTIMATED AVERAGE SOIL CONSERVATION SERVICE RUNOFF CURVE NUMBER FOR THIS SWPPP AFTER COMPLETION SHALL BE 91.
   - D. A SITE MAP IS SHOWN ON SHEET RR.0. EROSION CONTROL PLANS ARE SHOWN ON THE RR SERIES SHEETS.
   - E. A COPY OF THIS PLAN SHALL BE ON FILE AT THE CITY ENGINEER'S OFFICE AND AT THE CONSTRUCTION SITE. RUNOFF FROM THIS WORK WILL FLOW INTO THE MUSCATINE STORM SEWER SYSTEM WHICH FLOWS INTO THE PAPOOSE CREEK SEWER AND EVENTUALLY TO THE MISSISSIPPI RIVER NEAR SYCAMORE STREET.
   - F. POTENTIAL SOURCES OF POLLUTION: SOURCES OF POLLUTION GENERATED AS A RESULT OF THIS WORK RELATE TO SILTS AND SEDIMENT THAT MAY BE TRANSPORTED AS A RESULT OF A STORM EVENT.
2. CONTROLS:
   - A. AT LOCATIONS WHERE RUNOFF CAN MOVE OFFSITE, SILT FENCE AND/OR FILTER SOCKS AND/OR OTHER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED. INSTALL PRIOR TO BEGINNING PAVEMENT REMOVAL, GRADING, EXCAVATION OR CLEARING AND GRUBBING OPERATIONS. VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION SHALL BE PRESERVED. AS AREAS REACH THEIR FINAL GRADE, ADDITIONAL SILT FENCES, INTERCEPTING DITCHES, LETDOWNS, AND EARTH DIKES AND/OR OTHER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS SPECIFIED IN THE PLANS AND/OR AS REQUIRED BY THE PROJECT ENGINEER. TEMPORARY STABILIZING SEEDING SHALL BE COMPLETED AS THE DISTURBED AREAS ARE CONSTRUCTED. INITIALIZE SOIL STABILIZATION MEASURES IMMEDIATELY WHEN SOIL DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
   - B. STABILIZED CONSTRUCTION EXITS WILL BE INSTALLED AT EACH ACCESS LOCATION BEFORE EQUIPMENT LEAVES ROADWAYS AND CROSSES INTO VEGETATED OR GRASSED AREAS. EXITS SHALL BE MAINTAINED OVER THE PROJECT DURATION.
   - C. STOCKPILED MATERIALS SUCH AS AGGREGATES USED FOR PIPE BEDDING, PIPE BACKFILL, ROAD SUBBASE, AND TOPSOIL FROM ONSITE OR OFFSITE SHALL BE CONTAINED AND SEDIMENT FROM STOCKPILE PROTECTED WITH EROSION CONTROLS TO PREVENT MIGRATION OF MATERIAL INTO DRAINAGE PATHS.
   - D. SOIL DISTURBED THROUGHOUT THE CONSTRUCTION SITE SHALL BE CONTAINED AND PROTECTED FROM WASHING INTO DRAINAGE PATHWAYS.
   - E. TOPSOIL PLACED FOR RESTORATION SHALL BE PROTECTED FROM EROSION UNTIL TEMPORARY AND/OR PERMANENT SEEDING IS ESTABLISHED.
   - F. AS THE WORK PROGRESSES, ADDITIONAL EROSION CONTROL ITEMS MAY BE REQUIRED AS DETERMINED BY THE OWNER OR ENGINEER AFTER FIELD INVESTIGATION. THE CONTRACTOR SHALL COMPLETE THE CONSTRUCTION WITH THE ESTABLISHMENT OF PERMANENT PERENNIAL VEGETATION IN ALL DISTURBED EARTHEN AREAS.
   - G. EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) REQUIREMENTS AND THE MANUFACTURERS INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. IN CASE OF CONFLICTS BETWEEN REQUIREMENTS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.
   - H. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EROSION CONTROL MATERIALS/METHODS ONCE FINAL STABILIZATION IS ACHIEVED.
3. OTHER CONTROLS:
   - A. CONTRACTOR DISPOSAL OF UNUSED CONSTRUCTION MATERIALS AND CONSTRUCTION MATERIAL WASTES SHALL COMPLY WITH APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEM REGULATIONS. IN THE EVENT OF A CONFLICT WITH OTHER GOVERNMENTAL LAWS, RULES AND REGULATIONS, THE MORE RESTRICTIVE LAWS, RULES OR REGULATIONS SHALL APPLY.
   - B. STREETS ADJACENT TO THE CONSTRUCTION SITE SHALL BE INSPECTED DAILY AND CLEANED AS NECESSARY TO REMOVE EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE SITE SHALL BE PROPERLY COVERED WITH A TARPAULIN. CONTRACTOR SHALL PROVIDE AND USE A VEHICLE WASH-RACK AT EXIT LOCATIONS IF NECESSARY TO DECREASE SEDIMENT TRANSPORT OFF-SITE.
   - C. APPROVED STATE OR LOCAL PLANS:
     DURING THE COURSE OF THIS CONSTRUCTION, IT IS POSSIBLE THAT SITUATIONS WILL ARISE WHERE UNKNOWN MATERIALS WILL BE ENCOUNTERED. WHEN SUCH SITUATIONS ARE ENCOUNTERED, THEY SHALL BE HANDLED ACCORDING TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS IN EFFECT AT THE TIME.
   - D. THE LOCATIONS OF ENTRANCES, TOILET FACILITIES, AND OTHER CONTROLS SHALL BE DETERMINED AT THE PRECONSTRUCTION CONFERENCE WHEN REVIEWING THE CONSTRUCTION PLAN.
   - E. CONTRACTOR SHALL PROVIDE PARKING AREAS FOR CONSTRUCTION PERSONNEL. THESE MAY BE ON-SITE ON TEMPORARY GRAVEL OR PERMANENT SURFACES OR ALONG THE ROADWAYS IF PARKING IS ALLOWED BY THE OWNER.
   - F. IF THE CONTRACTOR USES ON-SITE CONSTRUCTION TRAILERS, THEY SHALL BE PLACED ON-SITE UPON TEMPORARY GRAVEL OR PERMANENT SURFACES.

STORMWATER POLLUTION PREVENTION PLAN NOTES (CONTINUED):

4. INSPECTION AND MAINTENANCE:
   CONTRACTOR IS REQUIRED TO MAINTAIN ALL TEMPORARY EROSION CONTROL MEASURES IN PROPER WORKING ORDER, INCLUDING CLEANING, REPAIRING, OR REPLACING THEM THROUGHOUT THE CONTRACT PERIOD. THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES SHALL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS AND STABILIZATION MEASURES:
   - A. ALL CONTROL MEASURES SHALL BE INSPECTED JOINTLY BY THE CONTRACTOR AND THE CONTRACTING AUTHORITY AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT OF 0.5 INCHES OR GREATER.
   - B. ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS OF THE INSPECTION.
   - C. ANY BUILT-UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-HALF OF THE HEIGHT OF THE FENCE.
   - D. SILT FENCES SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, UNDERCUTTING, ETC., TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE SECURELY FASTENED IN THE GROUND.
   - E. EROSION CONTROL DEVICES SHALL BE CLEANED WHEN LOSS OF 50% CAPACITY OCCURS.
   - F. TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
   - G. AN INSPECTION REPORT FORM (FOUND IN PROJECT MANUAL) SHALL BE COMPLETED AFTER EACH INSPECTION AND RECORDED ON THE INSPECTION FORM. THESE REPORTS SHALL BE RETAINED AS PART OF THE SWPPP. THE REPORT SHALL CONTAIN:
     1) SCOPE OF THE INSPECTION.
     2) NAME OF THE PERSON MAKING THE INSPECTION AND DATE.
     3) MAJOR OBSERVATIONS RELATING TO THE SWPPP.
     4) CORRECTIVE ACTION NEEDED.
     5) CERTIFICATION AND SIGNATURE.
   - H. CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING A "QUALIFIED" INSPECTOR TO CONDUCT THE INSPECTIONS. "QUALIFIED" IS DEFINED AS A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROLS. THEY SHALL POSSESS THE SKILLS NECESSARY TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORMWATER QUALITY. THEY SHALL ASSESS THE EFFECTIVENESS OF ANY SEDIMENT AND EROSION CONTROL MEASURES SELECTED.
   - I. CONTRACTOR SHALL UPDATE/CHANGE THE SWPPP AS NEEDED AND MAINTAIN A RECORD OF SWPPP AMENDMENTS. AMENDMENT LOG FORM MAY BE FOUND IN THE PROJECT MANUAL.
   - J. CONTRACTOR SHALL MAINTAIN RECORDS OF CONSTRUCTION ACTIVITIES, INCLUDING:
     1) DATES OF MAJOR GRADING ACTIVITIES.
     2) DATES WHEN ACTIVITIES CEASE IN AN AREA.
     3) DATES WHEN AREAS ARE STABILIZED.
     4) RECORDS SHALL BE KEPT FOR THREE (3) YEARS FROM THE DATE OF FINAL STABILIZATION
5. MATERIALS MANAGEMENT PLAN:
   THIS SWPPP ALSO PROVIDES FOR OTHER OPERATIONS THAT MAY AFFECT STORMWATER RUNOFF AND MAY NEED TO BE ADDRESSED.
   - A. THE FOLLOWING IS A LIST OF MATERIALS OR SUBSTANCES EXPECTED TO BE PRESENT ON-SITE DURING CONSTRUCTION:
     1) CONCRETE.
     2) FERTILIZERS.
     3) SOLIDS AND CONSTRUCTION WASTES.
     4) DIESEL FUEL AND LUBRICANTS.
   - B. MATERIAL MANAGEMENT PRACTICES: THE FOLLOWING IS A LIST OF MATERIAL MANAGEMENT PRACTICES THAT SHALL BE USED TO MINIMIZE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.
     1) GOOD HOUSEKEEPING:
        - i. AN EFFORT SHALL BE MADE TO STORE ON-SITE ONLY ENOUGH PRODUCTS REQUIRED TO COMPLETE THE JOB.
        - ii. ALL MATERIALS STORED ON-SITE SHALL BE KEPT IN A NEAT ORDERLY MANNER AND IN THEIR APPROPRIATE CONTAINERS. IF POSSIBLE, PRODUCTS SHALL BE KEPT UNDER A ROOF OR OTHER ENCLOSURE.
        - iii. MATERIALS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
        - iv. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
        - v. WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
        - vi. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
        - vii. THE JOB SITE SUPERINTENDENT SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.

STORMWATER POLLUTION PREVENTION PLAN NOTES (CONTINUED):

   2) HAZARDOUS PRODUCTS:
      - i. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
      - ii. THE ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS SHALL BE KEPT FOR EACH OF THE MATERIALS, AS THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
      - iii. DISPOSAL OF ANY EXCESS PRODUCT SHALL BE DONE IN A MANNER THAT FOLLOWS ALL MANUFACTURERS, FEDERAL, STATE, AND LOCAL RECOMMENDED METHODS FOR PROPER DISPOSAL.
   - C. PRODUCT SPECIFIC PRACTICES: THE FOLLOWING IS A LIST OF POTENTIAL SOURCES OF POLLUTION AND SPECIFIC PRACTICES TO REDUCE POLLUTANT DISCHARGES FROM MATERIALS OR SOURCES EXPECTED TO BE PRESENT DURING CONSTRUCTION:
     1) PETROLEUM STORAGE TANKS: ALL ON-SITE VEHICLES SHALL BE INSPECTED AND MONITORED FOR LEAKS AND RECEIVE PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. STEPS SHALL BE TAKEN BY THE CONTRACTOR TO ELIMINATE CONTAMINANTS FROM STORAGE TANKS FROM ENTERING THE SOIL. ANY PETROLEUM STORAGE TANKS KEPT ON-SITE SHALL BE LOCATED WITH AN IMPERVIOUS SURFACE BETWEEN THE TANK AND THE SOIL.
     2) FERTILIZERS SHALL BE APPLIED IN MINIMAL AMOUNTS AS RECOMMENDED BY THE IOWA SUDAS STANDARDS. IT SHALL BE WORKED INTO THE SOIL SO AS TO MINIMIZE CONTACT WITH STORMWATER DISCHARGES.
     3) CONCRETE TRUCKS SHALL BE ALLOWED TO WASHOUT OR DISCHARGE EXCESS CONCRETE IN SPECIFICALLY DESIGNATED AREAS WHICH HAVE BEEN PREPARED TO MINIMIZE CONTACT BETWEEN THE CONCRETE AND STORMWATER DISCHARGES FROM THE SITE. THE HARDENED PRODUCT FROM THE CONCRETE WASHOUT AREAS SHALL BE DISPOSED OF AS OTHER NON-HAZARDOUS WASTE MATERIALS OR MAY BE BROKEN UP AND USED ON THE SITE FOR OTHER APPROPRIATE USES.
     4) SOLID AND CONSTRUCTION WASTES: ALL TRASH AND CONSTRUCTION DEBRIS SHALL BE DEPOSITED INTO A COVERED DUMPSTER THAT SHALL BE EMPTIED AS NECESSARY. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON-SITE. THE DUMPSTERS MUST BE PUT IN A LOCATION WHERE CONTACT WITH STORMWATER DISCHARGE IS MINIMIZED.
     5) SANITARY WASTES: IF CONTRACTOR PROVIDES PORTABLE RESTROOM FACILITIES LOCATED ON-SITE AT ALL TIMES, WASTES SHALL BE COLLECTED AND DISPOSED OF IN COMPLETE COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THIS FACILITY SHALL BE LOCATED IN AN AREA WHERE CONTACT WITH STORMWATER DISCHARGE IS MINIMAL.
   - D. SPILL PREVENTION AND RESPONSE PROCEDURES: CONTRACTOR IS RESPONSIBLE FOR TRAINING ALL PERSONNEL IN THE PROPER HANDLING AND CLEANUP OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR WASTES SHALL BE ALLOWED TO COME INTO CONTACT WITH STORMWATER DISCHARGES. IF CONTACT DOES OCCUR, THE STORMWATER DISCHARGE SHALL BE CONTAINED ON-SITE UNTIL APPROPRIATE MEASURES FOR COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS ARE FOLLOWED TO DISPOSE OF THE HAZARDOUS SUBSTANCE. THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
     1) IN ADDITION TO THE PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE DONE TO MINIMIZE THE POTENTIAL FOR HAZARDOUS MATERIAL SPILLS AND TO REDUCE THE RISK OF THE SPILL COMING IN CONTACT WITH STORMWATER.
        - i. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE TRAINED REGARDING THESE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
        - ii. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CONTROL, CONTAINMENT, AND CLEANUP SHALL BE PROVIDED ON-SITE IN A MATERIAL STORAGE AREA. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS.
     2) IN THE EVENT OF A SPILL, THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:
        - i. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
        - ii. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH THE HAZARDOUS SUBSTANCE.
        - iii. SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENTAL AGENCY AND TO THE PROJECT MANAGER AND ENGINEER, REGARDLESS OF THE SIZE OF THE SPILL. SPILLS OF AMOUNTS THAT EXCEED REPORTABLE QUANTITIES OF CERTAIN SUBSTANCES SPECIFICALLY MENTIONED IN FEDERAL REGULATIONS MUST BE IMMEDIATELY REPORTED TO THE EPA NATIONAL RESPONSE CENTER (1-800-424-8802) THE JOB SITE SUPERINTENDENT SHALL BE RESPONSIBLE FOR CONTACTING THE EPA AND ANY OTHER GOVERNMENTAL AGENCIES.

STORMWATER POLLUTION PREVENTION PLAN NOTES (CONTINUED):

   - iv. IF THE SPILL EXCEEDS A REPORTABLE QUANTITY, THE SWPPP MUST BE MODIFIED WITHIN 14 DAYS AFTER THE SPILL AND A WRITTEN DESCRIPTION OF THE EVENTS MUST BE INCLUDED. THE MODIFICATION SHALL INCLUDE A DESCRIPTION OF THE RELEASE, THE DATE OF THE RELEASE, AN EXPLANATION OF WHY THE SPILL HAPPENED, A DESCRIPTION OF PROCEDURES TO PREVENT FUTURE SPILLS AND/OR RELEASES FROM HAPPENING, AND A DESCRIPTION OF RESPONSE PROCEDURES SHOULD THE SPILL OR RELEASE OCCUR AGAIN.
   - v. CONTRACTOR'S SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS AND SHALL BE THE SPILL PREVENTION CLEANUP COORDINATOR. HE OR SHE SHALL DESIGNATE OTHER SITE PERSONNEL WHO SHALL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS SHALL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF THESE INDIVIDUALS SHALL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER.
6. NON-STORMWATER DISCHARGES:
   THE FOLLOWING IS A LIST OF NON-STORMWATER DISCHARGES THAT MAY OCCUR AT THE JOB SITE. POLLUTANTS SHALL NOT BE ALLOWED TO COME INTO CONTACT WITH THESE WATER SOURCES PRIOR TO THEIR DISCHARGE FROM THE SITE:
   - A. WATER FROM FIRE-FIGHTING ACTIVITIES AND FIRE HYDRANT FLUSHING.
   - B. WATER USED TO CLEAN VEHICLES.
   - C. POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHING, IRRIGATION DRAINAGE, AND ROUTINE EXTERNAL BUILDING WASH-DOWNS EXCLUDING DETERGENTS.
   - D. PAVEMENT WASHWATERS WHERE SPILLS OR LEAKS OF HAZARDOUS MATERIALS HAVE NOT OCCURRED.
   - E. AIR CONDITIONING CONDENSATE
   - F. SPRINGS
   - G. FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS.

CONTRACTOR RESPONSIBILITIES NOTES:

1. CONTRACTORS TO PROVIDE TRAINING TO SITE PERSONNEL FOR EROSION AND SEDIMENT CONTROL INSTALLATION; MAINTENANCE REMOVAL; CONSTRUCTION WASTE DISPOSAL, HAZARDOUS WASTE DISPOSAL, SANITARY WASTE DISPOSAL, SPILL PREVENTION PRACTICES, AND HANDLING AND CLEANUP OF SPILLED MATERIALS. COMPLETE AND MAINTAIN SWPPP TRAINING LOG FOUND IN PROJECT MANUAL.
2. CONTRACTOR TO MAINTAIN A COPY OF THE SWPPP, INCLUDING REPORTS AND CERTIFICATIONS, AT THE CONSTRUCTION SITE FROM DATE OF PROJECT INITIATION TO DATE OF FINAL STABILIZATION.
3. CONTRACTOR IS RESPONSIBLE FOR CONTINUALLY MAINTAINING A SITE MAP (PLAN) OF THE PROJECT SITE WHICH REFLECTS THE CURRENT SITE CONDITIONS AND EROSION AND SEDIMENT CONTROL MEASURES IMPLEMENTED. ITEMS SUCH AS ALTERATIONS TO THE SWPPP, ADDITIONS AND MAINTENANCE OF THE EROSION AMD SEDIMENT CONTROL MEASURES, AND AREAS THAT HAVE BEEN SEEDED OR PERMANENTLY STABILIZED SHALL BE DOCUMENTED. CONCRETE WASHOUT AREAS AND HAZARDOUS SUBSTANCE STORAGE AREAS SHALL BE IDENTIFIED ON THE SITE MAP (PLAN). THE CURRENT SITE CONDITION MAP SHALL BE MADE AVAILABLE AT ALL TIMES AT THE SITE.
4. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT PORTABLE RESTROOM FACILITY FROM BEING OVER-TURNED DUE TO ACCIDENT, HIGH WINDS, OR VANDALS.

EROSION PROTECTION NOTES:

1. CODE COMPLIANCE: CONTRACTOR SHALL COMPLY WITH SOIL EROSION CONTROL REQUIREMENTS OF THE IOWA CODE, THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES PERMIT, AND LOCAL ORDINANCES. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT AGAINST EROSION AND DUST POLLUTION ON THIS PROJECT SITE AND ALL OFF-SITE BORROW OR DEPOSIT/DISPOSAL AREAS DURING PERFORMANCE OR AS A RESULT OF PERFORMANCE.
2. DAMAGE CLAIMS: CONTRACTOR SHALL HOLD THE CITY AND ENGINEER HARMLESS FROM ANY AND ALL CLAIMS OF ANY TYPE WHATSOEVER RESULTING FROM DAMAGES TO ADJOINING PUBLIC OR PRIVATE PROPERTY, INCLUDING REASONABLE ATTORNEY FEES. FURTHER, IF CONTRACTOR FAILS TO TAKE NECESSARY STEPS TO PROMPTLY REMOVE EARTH SEDIMENTATION OR DEBRIS WHICH COMES ONTO ADJOINING PUBLIC OR PRIVATE PROPERTY, THE CITY MAY, BUT NEED NOT, REMOVE SUCH ITEMS AND DEDUCT THE COST THEREOF FROM AMOUNTS DUE THE CONTRACTOR.
3. PRIOR TO START OF ANY LAND DISTURBING ACTIVITY, CONTRACTOR AND SUBCONTRACTORS SHALL SUBMIT SIGNED CERTIFICATION FORM TO THE OWNER. FORM CAN BE FOUND IN PROJECT MANUAL.

STORM WATER DISCHARGE PERMIT NOTES:

1. THIS PROJECT REQUIRES OBTAINING AN NPDES GENERAL PERMIT NO. 2 FOR STORM WATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FOR CONSTRUCTION ACTIVITIES FROM THE IOWA DEPARTMENT OF NATURAL RESOURCES (IDNR), AS REQUIRED BY THE ENVIRONMENTAL PROTECTION AGENCY. THE CITY SHALL OBTAIN THE PERMIT. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE AND IMPLEMENTATION OF THE SWPPP FOR THEIR ENTIRE CONTRACT. THIS RESPONSIBILITY SHALL BE FURTHER SHARED WITH SUBCONTRACTORS WHOSE WORK IS A SOURCE OF POTENTIAL POLLUTION AS DEFINED IN THE SWPPP.
2. ALL DOCUMENTS RELATED TO THE STORM WATER DISCHARGE PERMIT SHALL BE KEPT ON SITE AT ALL TIMES AND MUST BE PRESENTED TO THE IDNR UPON REQUEST. DOCUMENTS INCLUDE THE NOTICE OF INTENT, PROOF OF PUBLICATION, SWPPP, PROJECT INSPECTION DIARY, AND OTHER ITEMS. FAILURE TO COMPLY WITH THE DISCHARGE REQUIREMENTS IS IN VIOLATION OF THE CLEAN WATER ACT AND THE CODE OF IOWA.
3. UPON FINAL STABILIZATION OF THE DISTURBED AREAS, CONTRACTOR SHALL NOTIFY THE CITY WITHIN 30 DAYS THAT FINAL STABILIZATION HAS BEEN ACHIEVED. A "NOTICE OF DISCONTINUATION" MUST BE FILED BY THE CITY WITH THE IDNR. ALL PLANS, INSPECTION REPORTS, AND OTHER DOCUMENTS MUST BE RETAINED FOR A PERIOD OF THREE YEARS AFTER PROJECT COMPLETION. CONTRACTOR SHALL RETAIN RECORD COPY, AND PROVIDE ORIGINAL DOCUMENTS TO THE CITY UPON ISSUANCE OF THE NOTICE OF DISCONTINUATION.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE
				KKH	

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225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL STORMWATER POLLUTION PREVENTION PLAN

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: AS NOTED
NO. 17660.60.40
REV. 0
CE.01

STANLEY CONSULTANTS

CADD D3-R5

LOGAN STREET (NORTH)

NUMBER	START STA	END STA	PI STA	LENGTH	LINE/CHORD DIRECTION	RADIUS	DELTA	D	TANGENT LENGTH	START NORTHING	START EASTING	END NORTHING	END EASTING
L1	3300+00.00	3306+16.71		616.71	S0° 58' 28.78"E					528449.33	2308107.23	527832.71	2308117.72

LOGAN STREET (SOUTH)

NUMBER	START STA	END STA	PI STA	LENGTH	LINE/CHORD DIRECTION	RADIUS	DELTA	D	TANGENT LENGTH	START NORTHING	START EASTING	END NORTHING	END EASTING
L2	4000+00.00	4003+61.69		361.69	S0° 46' 36.65"E					527832.60	2308091.43	527470.95	2308096.34
L3	4003+61.69	4004+50.00		88.31	S0° 44' 54.48"E					527470.95	2308096.34	527382.64	2308097.49

NEWELL AVENUE

NUMBER	START STA	END STA	PI STA	LENGTH	LINE/CHORD DIRECTION	RADIUS	DELTA	D	TANGENT LENGTH	START NORTHING	START EASTING	END NORTHING	END EASTING
L4	4100+00.00	4102+87.92		287.92	N89° 37' 00.78"E					527823.56	2306058.94	527825.49	2306346.86
L5	4102+87.92	4105+89.46		301.54	N89° 42' 15.89"E					527825.49	2306346.86	527827.04	2306648.39
L6	4105+89.46	4109+88.00		398.54	N89° 47' 46.79"E					527827.04	2306648.39	527828.46	2307046.92
L7	4109+88.00	4113+90.40		402.40	N89° 46' 21.47"E					527828.46	2307046.92	527830.06	2307449.32
L8	4113+90.40	4116+91.33		300.93	N89° 51' 59.76"E					527830.06	2307449.32	527830.76	2307750.26
L9	4116+91.33	4120+58.80		367.46	N89° 41' 44.44"E					527830.76	2307750.26	527832.71	2308117.72
L10	4120+58.80	4123+75.62		316.83	N88° 54' 08.37"E					527832.71	2308117.72	527838.78	2308434.49
L11	4123+75.62	4127+06.73		331.11	N88° 49' 53.57"E					527838.78	2308434.49	527845.53	2308765.53
L12	4127+06.73	4131+17.61		410.87	N88° 53' 56.46"E					527845.53	2308765.53	527853.42	2309176.33
L13	4131+17.61	4134+97.15		379.54	N88° 42' 34.75"E					527853.42	2309176.33	527861.97	2309555.77
L14	4134+97.15	4141+55.00		657.85	N88° 24' 55.99"E					527861.97	2309555.77	527880.16	2310213.37

CLIMER STREET

NUMBER	START STA	END STA	PI STA	LENGTH	LINE/CHORD DIRECTION	RADIUS	DELTA	D	TANGENT LENGTH	START NORTHING	START EASTING	END NORTHING	END EASTING
L15	4200+00.00	4201+35.53		135.53	S89° 37' 28.05"W					527473.01	2308257.08	527472.12	2308121.55
L16	4201+35.53	4201+88.96		53.43	S87° 19' 57.61"W					527472.12	2308121.55	527469.64	2308068.18
L17	4201+88.96	4212+44.79		1055.83	S89° 24' 32.27"W					527469.64	2308068.18	527458.74	2307012.41
C1	4212+44.79	4213+00.59	4212+76.00	55.80	S57° 26' 13.81"W	50.00	63° 56' 36.92"	114° 35' 29.61"	31.21	527458.74	2307012.41	527430.24	2306967.78
L18	4213+00.59	4213+26.54		25.94	S25° 27' 55.34"W					527430.24	2306967.78	527406.82	2306956.63

MAIDEN LANE

NUMBER	START STA	END STA	PI STA	LENGTH	LINE/CHORD DIRECTION	RADIUS	DELTA	D	TANGENT LENGTH	START NORTHING	START EASTING	END NORTHING	END EASTING
L19	4400+00.00	4400+23.45		23.45	N1° 35' 04.01"W					527863.99	2309628.91	527887.44	2309628.26
C2	4400+23.45	4400+70.74	4400+49.03	47.29	N25° 30' 31.60"E	50.00	54° 11' 11.21"	114° 35' 29.61"	25.58	527887.44	2309628.26	527928.54	2309647.87
L20	4400+70.74	4404+89.76		419.02	N52° 36' 07.20"E					527928.54	2309647.87	528183.03	2309980.75

NOTES

1.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ROADWAY ALIGNMENT TABLES

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

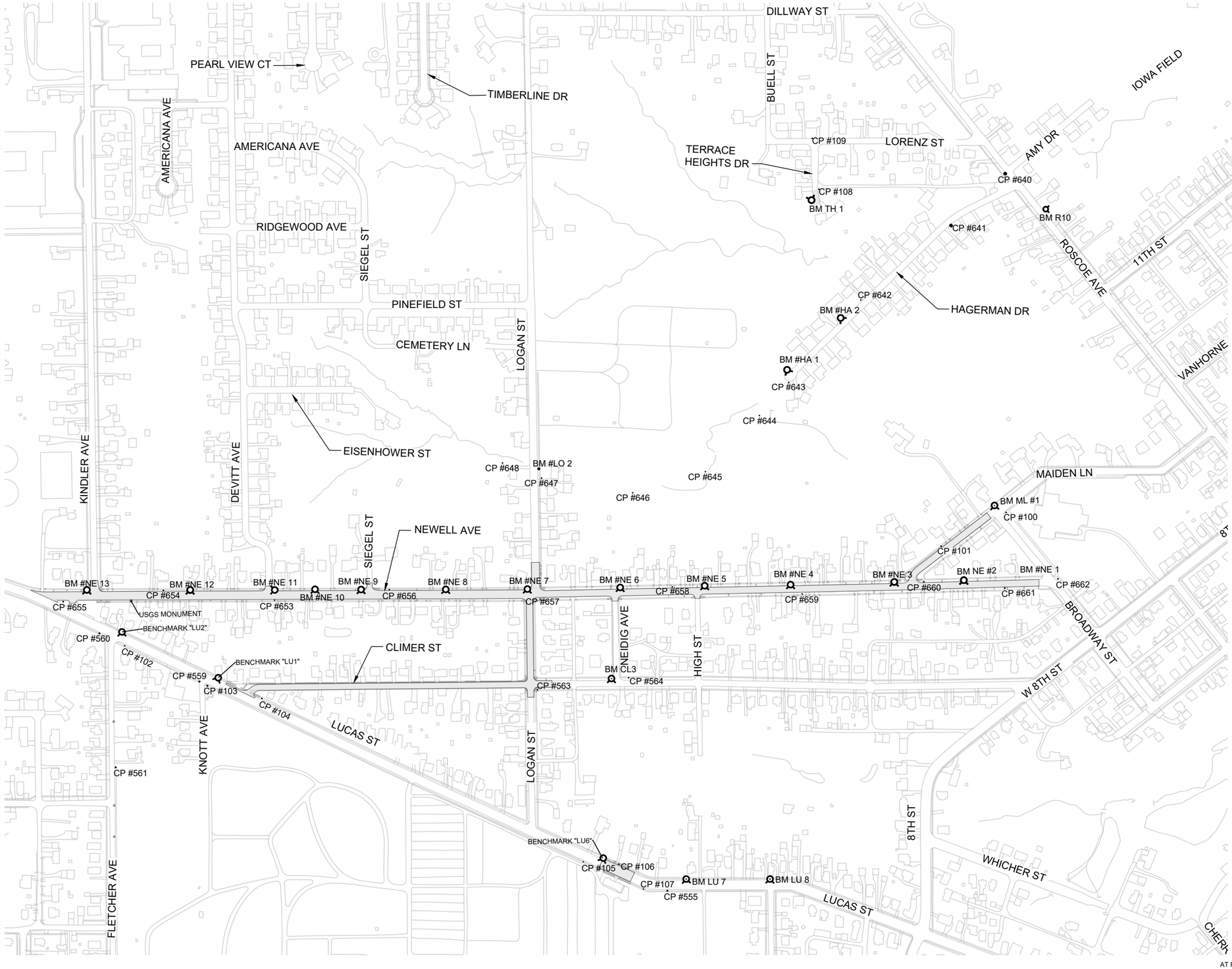
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE:

NO. 17660.60.40	REV.
G.01	0

CADD D3-R5

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GENERAL NOTES

1. SEE SHEET G.04 FOR LIST OF CONTROL POINTS (CP) AND BENCHMARKS (BM).
2. THE BENCHMARK AND CONTROL POINT LISTS ARE DERIVED FROM MULTIPLE MARTIN AND WHITACRE DESIGN SURVEYS PERFORMED OVER A SPAN OF SEVERAL YEARS FOR THE WEST HILL SEWER SEPARATION PROGRAM.
3. SURVEY CONTROL SHOWN MAY HAVE BEEN DISTURBED DURING CONSTRUCTION OF PRIOR WEST HILL SEWER SEPARATION PROJECTS.

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SURVEY CONTROL POINT AND BENCHMARK LOCATIONS

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 200'

NO. 17660.60.40	REV.
G.03	0

CADD D3-R5
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PHASE 6E CONTROL POINTS
(IOWA STATE PLANE, SOUTH ZONE, NAD83 MODIFIED TO GROUND, SCALE FACTOR = 0.9999338456, SCALED ABOUT MUSCATINE COUNTY GPS POINT #315)

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP100	528160.08	2310003.10	703.59	SET CUT "X" IN SIDEWALK SE QUAD MAIDEN LN & BROADWAY ST.
CP101	528024.67	2309742.93	709.58	SET CUT "X" IN SIDEWALK NORTH SIDE OF MAIDEN LN, +-10' SW OF CONCRETE STEPS TO HOUSE #715
CP102	527625.37	2306468.01	716.88	SET CUT "X" IN SIDEWALK SOUTH SIDE LUCAS ST.,+-40' EAST OF FLETCHER AVE BY HOUSE # 2218
CP103	527465.61	2306799.92	710.22	SET CUT "X" IN SIDEWALK SOUTH SIDE LUCAS ST. +-8' EAST OF KNOTT ST. +- 4.5' SOUTH OF MANHOLE
CP104	527414.15	2307018.43	710.20	SET CUT "X" IN SIDEWALK, NORTH SIDE LUCAS ST. +- 4.5' NORTH OF B/C, +- 50' EAST OF CLIMER ST.
CP105	526759.11	2308307.70	694.83	SET CUT"X" IN SDIEWALK SOUTH SIDE OF LUCAS ST. +-75' WESTERLY OF CEMETERY ENTRANCE, +- 9' NORTH OF CEMETERY PATH
CP106	526749.00	2308450.14	694.22	SET CUT "X" IN CONCRETE NORTH SIDE OF LUCAS ST. NEAR STORM MANHOLE, +-3' EAST OF DRIVEWAY FOR HOUSE #1819
CP107	526650.01	2308548.80	694.54	SET CUT "X" IN SIDEWALK SOUTH SIDE OF LUCAS ST. +-18' SW OF P.P., +-18' NW OF GUY WIRES
CP108	529456.13	2309252.69	663.66	SET 1/2" REBAR AT SE QUAD OF TERRACE HEIGHTS DR. AND ALLEY WAY
CP109	529660.25	2309225.79	672.02	SET MAG NAIL IN B/C NORTH SIDE OF LORENZ DR AT HOUSE #521, +- 3.5' SOUTH OF NO PARKING SIGN
CP555	526643.15	2308644.57	695.05	1/2" REBAR ON NORTH SIDE OF SIDEWALK, SOUTH SIDE OF LUCAS ST & NORTH OF KRAMER HEADSTONE
CP559	527482.13	2306767.78	710.73	1/2" REBAR IN CONCRETE SIDEWALK JOINT AT THE NW CORNER OF KNOTT AVE
CP560	527674.98	2306366.64	719.41	1/2" REBAR ON NORTH SIDE OF CONCRETE SIDEWALK, +/-20' WEST OF SIDEWALK INTERSECT
CP561	527137.56	2306431.96	720.52	1/2" REBAR +/-3' EAST OF ASPHALT EDGE OF PAVEMENT, +/-15' SOUTH OF CONCRETE DRIVEWAY, ON EAST SIDE OF FLETCHER
CP563	527449.08	2308123.73	698.07	1/2" REBAR AT SE CORNER OF LOGAN ST & CLIMER ST, ON NORTH EDGE OF CONCRETE SIDEWALK, +/-3' EAST OF SIDEWALK INTERSECT
CP564	527496.90	2308489.25	693.56	1/2" REBAR ON SOUTH SIDE OF CONCRETE SIDEWALK & ON NORTH SIDE OF CLIMER ST, +/-30' EAST OF NIEDIG AVE
CP623	529954.13	2311402.30	590.13	CP SET 1/2" REBAR @ SOUTHEAST QUAD IOWA & 11TH ST. E.
CP624	529877.76	2311454.95	590.73	CP SET 1/2" REBAR NORTH SIDE OF IOWA AVE. AND 11TH ST. W. EXTENDED
CP640	529518.40	2309999.71	618.37	SET 1/2" REBAR WEST SIDE OF ROSCOE @ AMY DR. CL EXTENDED
CP641	529310.37	2309782.20	620.29	SET 1/2" REBAR 3' SOUTH OF B/C AT 518 HAGERMAN DR
CP642	529011.81	2309420.40	627.98	SET 1/2" REBAR 6' NORTH OF B/C AT 543 HAGERMAN DR. BEHIND MAILBOX
CP643	528681.23	2309131.39	635.76	SET 1/2" REBAR 4' WEST OF B/C AT 618 HAGERMAN DR. AT END OF CUL-DE SAC
CP644	528548.30	2309013.94	641.01	SET 1/2" REBAR SW OF CP #643 AT BACK OF LOT OF 618 HAGERMAN DR.
CP645	528323.61	2308797.07	644.97	SET 1/2" REBAR SW OF CP #644 IN WOODED AREA
CP646	528238.78	2308505.64	650.46	SET 1/2" REBAR WEST OF CP #645 IN WOODED AREA
CP647	528297.67	2308139.65	668.96	SET 1/2" REBAR 3' NORTH OF DRIVEWAY, 6' EAST OF WALK AT 1223 LOGAN ST.
CP648	528358.22	2307983.46	669.75	SET 1/2" REBAR 40' NW OF NW CORNER OF 1224 LOGAN ST.
CP653	527808.55	2307069.33	702.20	CP 1/2" REBAR BETWEEN B/C & SIDEWALK SOUTH SIDE OF ST. @ #1006 NEWELL AVE.
CP654	527847.66	2306623.09	710.77	CP 1/2" REBAR BETWEEN B/C & SIDEWALK NORTH SIDE OF ST. @ #1033 NEWELL AVE.
CP655	527802.31	2306221.59	723.83	CP 1/2" REBAR IN IISLAND OF PARKING LOT @ INSTERSECTION OF NEWELL AVE. & LUCAS ST.
CP656	527850.46	2307529.70	693.80	CP 1/2" REBAR BETWEEN B/C & SIDEWALK, NORTH SIDE OF ST. @ #982 NEWELL AVE.
CP657	527813.14	2308134.13	678.34	CP 1/2" REBAR BETWEEN B/C & SIDEWALK @ SE QUAD OF LOGAN ST. & NEWELL AVE.
CP658	527861.84	2308664.43	688.96	CP 1/2" REBAR BETWEEN B/C & SIDEWALK @ #913 NEWELL AVE.
CP659	527833.09	2309185.39	694.61	CP 1/2" REBAR BETWEEN B/C & SIDEWALK @ #878 NEWELL AVE.
CP660	527882.05	2309673.06	702.23	CP 1/2" REBAR @ NE QUAD OF MAIDEN LN. & NEWELL AVE., 3.5' NORTH OF B/C
CP661	527856.64	2309997.58	703.55	CP 1/2" REBAR BETWEEN B/C & SIDEWALK @ #708 NEWELL AVE.
CP662	527893.60	2310211.08	697.82	CP 1/2" REBAR BETWEEN B/C & SIDEWALK EAST SIDE OF BROADWAY ST. @ NEWELL AVE. INTERSECTION.
USGS MONUMENT	527806.32	2306492.72	715.27	WC FND BRASS MONUMENT 0.30 WIDE CITY MON

BENCH MARK LIST
PHASE 6E
(DATUM NAVD88)

NAME	ELEVATION	DESCRIPTION
CL 3	696.60	FIRE HYDRANT NORTHWEST CORNER OF CLIMER ST & NEIDIG AVE, BOLT IN THE WORD "MUELLER"
HA 1	637.28	FIRE HYDRANT @ NORTH SIDE OF HAGERMAN DR., SE BOLT
HA 2	632.43	FIRE HYDRANT @ 547 HAGERMAN DR., BOLT IN THE WORD "MUELLER"
LO 2	670.41	BENCH TIE IN SOUTH FACE OF P.P. @ 1223 LOGAN ST.
LU 7	697.46	FIRE HYDRANT ON NORTH SIDE OF LUCAS ST AT HOUSE #1803, BOLT IN THE WORD "MUELLER"
LU 8	700.22	FIRE HYDRANT ON NORTH SIDE OF LUCAS ST AT HOUSE #1623, BOLT IN THE WORD "MUELLER"
LU1	711.37	FIRE HYDRANT ON NORTH SIDE OF LUCAS ST AT HOUSE #2203, BOLT IN THE WORD "MUELLER"
LU2	719.34	FIRE HYDRANT ON NORTH SIDE OF LUCAS ST AT HOUSE #2229, ON SOUTHEAST BOLT ON TOP OF HYDRANT
LU6	696.60	FIRE HYDRANT ON NORTH SIDE OF LUCAS ST AT HOUSE #1827, ON SOUTH BOLT ON TOP OF HYDRANT
ML 1	706.70	WEST BOLT ON HYDRANT AT MAIDEN LN & BROADWAY ST.
NE 1	701.23	FIRE HYDRANT @ NW QUAD OF NEWELL AVE. & BROADWAY ST., BOLT IN THE WORD "MUELLER".
NE 2	708.36	FIRE HYDRANT BETWEEN MAIDEN LN. & BROADWAY ST. NORTH SIDE OF NEWELL AVE., SOUTH BOLT.
NE 3	701.24	FIRE HYDRANT @ NW QUAD OF MAIDEN LN. & NEWELL AVE., BOLT IN THE WORD "MUELLER".
NE 4	695.98	FIRE HYDRANT @ #879 NEWELL AVE., SOUTH BOLT
NE 5	692.40	FIRE HDRANT @ #897 NEWELL AVE., SOUTH BOLT.
NE 6	685.95	FIRE HYDRANT @ NE QUAD OF NEDIG ST. & NEWELL AVE., SOUTH BOLT.
NE 7	679.22	FIRE HYDRANT @ NW QUAD OF LOGAN ST. & NEWELL AVE., SOUTH BOLT.
NE 8	689.12	FIRE HYDRANT @ #971 NEWELL AVE., SOUTH BOLT.
NE 9	698.73	FIRE HYDRANT @ #987 NEWELL AVE., SOUTH BOLT.
NE 10	700.83	FIRE HYDRANT @ #989 NEWELL AVE., TAG BOLT.
NE 11	704.61	FIRE HYDRANT @ NE QUAD OF DEVITT AVE. & NEWELL AVE., SOUTH BOLT.
NE 12	710.16	FIRE HYDRANT @ #1031 NEWELL AVE., ARROW.
NE 13	722.98	FIRE HYDRANT @ NW QUAD OF KINDLER AVE. & NEWELL AVE., SOUTH BOLT.
R 10	625.07	FIRE HYDRANT @ #401 ROSCOE AVE., WEST BOLT
TH 1	660.92	BOLT IN THE WORD "MUELLER" ON HYDRANT @ END OF TERRACE HEIGHTS DR.

SURVEY LEGEND:

- 600 — INDEX CONTOUR
- 596 — INTERMEDIATE CONTOUR
- PROPERTY LINES
- SAN — SANITARY SEWER
- ST — STORM SEWER
- SEW — COMBINED SANITARY & STORM SEWER
- W — WATER MAIN OR SERVICE
- E — UNDERGROUND ELECTRIC
- OE — OVERHEAD ELECTRIC
- GAS — UNDERGROUND GAS LINE
- TEL — OVERHEAD TELEPHONE
- FO — UNDERGROUND FIBER OPTIC
- EXISTING FENCE
- LANDSCAPING
- TREE DRIPLINE
- TREELINE
- TREE
- BUSH OR HEDGE
- CONTROL POINT
- SANITARY SEWER MANHOLE
- PRIVATE SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- STORM SEWER INTAKE
- STORM SEWER INLET
- COMBINED STORM/SANITARY SEWER MANHOLES
- CLEANOUT
- POWER POLE
- ELECTRIC HANDHOLE
- ELECTRIC RISER
- GUY WIRE
- YARD LIGHT
- WATER VALVE / CURB STOP
- HYDRANT
- GAS VALVE
- SIGN
- TELEPHONE RISER
- MAILBOX
- WOODEN FENCE POST
- GUARDPOST

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

NOTES

1. SEE SHEET G.03 FOR LOCATION OVERVIEW OF CONTROL POINTS AND BENCH MARKS.
2. THE BENCHMARK AND CONTROL POINT LISTS ARE DERIVED FROM MULTIPLE MARTIN WHITACRE DESIGN SURVEYS PERFORMED OVER A SPAN OF SEVERAL YEARS FOR THE WEST HILL SEWER SEPARATION PROGRAM.
3. SEE DRAWING A.03 FOR PROPOSED FEATURES LEGEND.
4. SURVEY CONTROL SHOWN MAY HAVE BEEN DISTURBED DURING CONSTRUCTION OF PRIOR WEST HILL SEWER SEPARATION PROJECTS.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

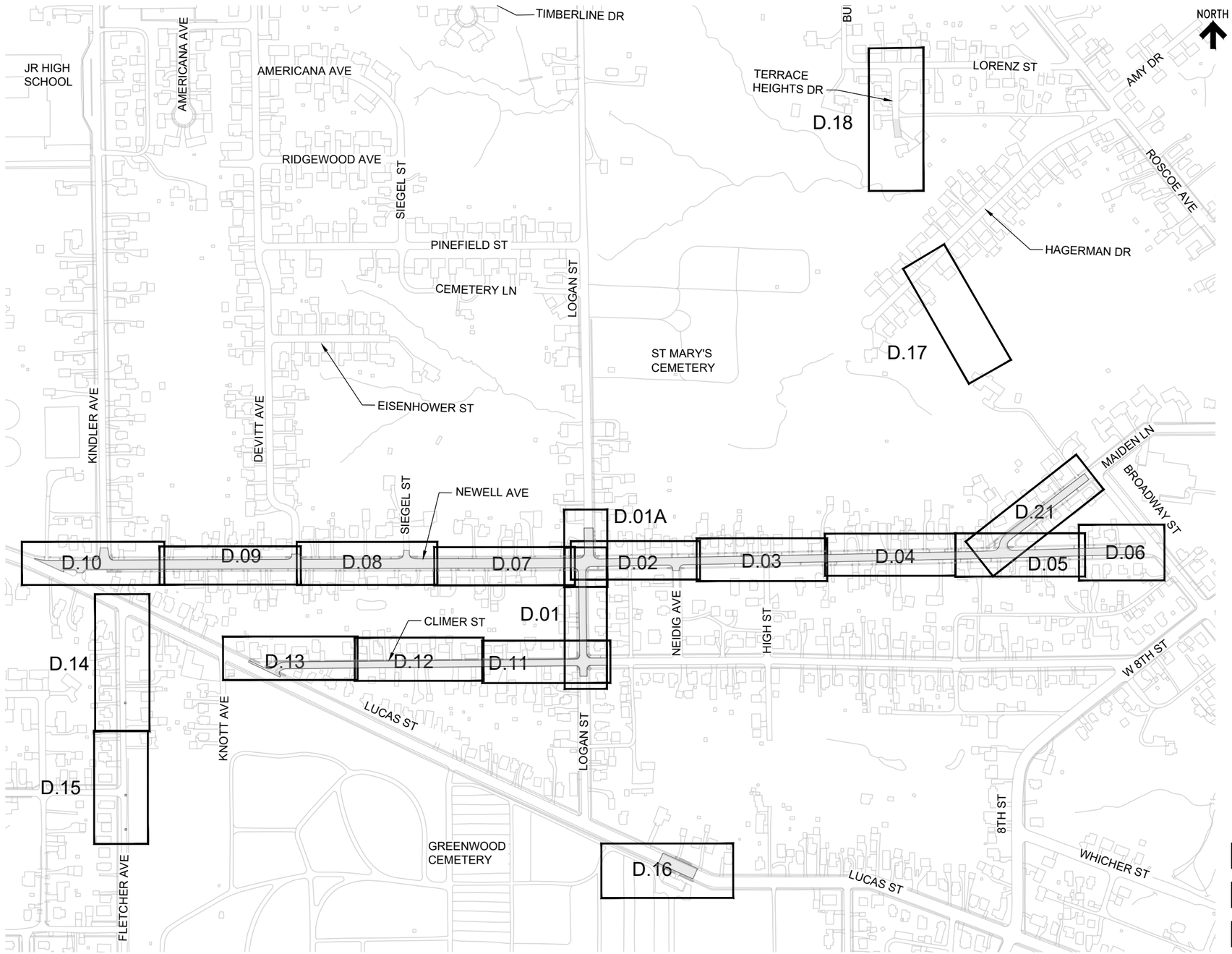
SURVEY SURVEY
REFERENCE INFORMATION

DESIGNED KK HEIM
DRAWN GM REEVES
CHECKED ER SCHALLERT
APPROVED JM BRADY
APPROVED KK HEIM
DATE MARCH 30, 2026

SCALE:
NO. 17660.60.40 | REV. 0
G.04

CADD D3-R5

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GENERAL NOTES

1. PROPERTY AND ROW LINES INDICATED ON PLANS ARE AT APPROXIMATE LOCATION. INFORMATION WAS OBTAINED FROM ONLINE SURVEY INFORMATION FROM MUSCATINE AREA GEOGRAPHICAL INFORMATION CONSORTIUM (MAGIC). PROPERTY SURVEY IS REQUIRED TO DETERMINE EXACT LOCATIONS.
2. TOPOGRAPHIC INFORMATION SHOWN ON PLANS HAS BEEN OBTAINED FROM MARTIN & WHITACRE SURVEY (SURVEY COMPLETED BETWEEN 2021 AND 2025). BUILDING OUTLINES SHOWN ARE FROM CITY OF MUSCATINE DATA SOURCE AND MAY NOT REFLECT CURRENT CONDITIONS.
3. ANY STREET SIGNS IN THE IMPACTED AREA SHOULD BE SALVAGED AND DELIVERED/STOCKPILED AT THE CITY PUBLIC WORKS STORAGE YARD IMMEDIATELY AFTER REMOVAL. CITY REQUIRES CONTRACTOR TO REINSTALL SIGNS AT END OF CONSTRUCTION. IF SIGNS ARE DAMAGED OR MISSING, CONTRACTOR MAY BE SUBJECT TO FINES AS DETERMINED BY THE CITY. REFER TO SIGN SUMMARY TABLE ON SHEET C.19.
4. ALL DISTURBED AREAS WITHIN ROW THAT ARE NOT RESTORED BY PAVEMENT SHALL MATCH EXISTING SURFACING MATERIAL OR BE SODDED, UNLESS NOTED OTHERWISE.
5. REFER TO PAVEMENT TYPICAL SECTIONS ON SHEET B.01.
6. TEMPORARY TRANSITION PAVEMENT TO MAINTAIN TRAFFIC BETWEEN PHASES WILL BE REQUIRED.
7. REFER TO SANITARY AND STORM SEWER PLAN DRAWINGS FOR PROPOSED SEWERS, MANHOLES, AND INLETS. ABANDONED OR REMOVED FACILITIES ARE HATCHED ON THE M AND MSA SERIES DRAWINGS.
8. RESTORE DISTURBED LANDSCAPING FEATURES WITHIN ROW AND EASEMENT LIMITS. REFER TO SHEET C.19 FOR TABULATION.
9. PRESERVE AND PROTECT TREES TO GREATEST EXTENT POSSIBLE. REFER TO R SHEETS FOR TREE REMOVAL LEGEND. COORDINATE WITH CITY ON DECISION TO REMOVE ADDITIONAL TREES.
10. SEE WATER DRAWINGS FOR PROPOSED WATER MAIN IMPROVEMENTS.
11. REFER TO SHEET C.18 FOR DRIVEWAY REPLACEMENT TABULATION.
12. REFER TO SHEET B.02 FOR PAVEMENT MARKING DETAILS. PAVEMENT MARKING TYPES AND LOCATIONS SHOWN ON D SHEETS.
13. REFER TO L SHEETS FOR PAVEMENT JOINTING LAYOUT AT INTERSECTIONS.
14. REFER TO W SHEETS FOR ROADWAY CROSS SECTIONS.
15. TEMPORARY AND PERMANENT EASEMENT LIMITS ARE SHOWN ON SANITARY SEWER (MSA) SHEETS. CONTRACTOR IS REQUIRED TO STAY WITHIN EASEMENTS AND CONSTRUCTION LIMITS. STAKING OF EASEMENTS AND CONSTRUCTION LIMITS IS THE RESPONSIBILITY OF THE CONTRACTOR. EASEMENT EXHIBITS, PLATS, AND SHAPES CAN BE PROVIDED ELECTRONICALLY TO CONTRACTOR.
16. SUBDRAIN IS NOT SHOWN ON PLAN DRAWINGS. SUBDRAIN IS REQUIRED UNDER PAVEMENT ACCORDING TO DETAIL ON SHEET B.01 AND ESTIMATE REFERENCE NOTES. SUBDRAIN SHALL BE OUTLET TO NEAREST INLET.
17. SEE R SHEETS FOR REMOVAL LIMITS AND EXISTING FEATURES SURVEY INCLUDING MATERIAL OF DRIVEWAY, SIDEWALK, LANDSCAPING FEATURES SUCH AS PLANTINGS AND RETAINING WALLS.
18. REFER TO G SHEETS FOR ROAD ALIGNMENT TABLE AND EXISTING SURVEY CONTROL.
19. PAVING MUST BE DONE USING A SLIP FORM PAVER, HAND POUR, OR OTHER SUDAS APPROVED METHOD. POWER/LASER SCREED WILL NOT BE ALLOWED ON MAINLINE DRIVING SURFACE.
20. RESTORE DISTURBED FENCING OR RETAINING WALLS TO MATCH EXISTING CONDITIONS.
21. IF UTILITY WORK OR SERVICE LINE WORK EXTENDS BEYOND THE LIMITS SHOWN ON THE DRAWINGS, RESTORE DISTURBED AREA TO MATCH EXISTING CONDITIONS.
22. TEMPORARY ACCESS TO RESIDENTS MUST BE PROVIDED TO THEIR HOMES AS CONSTRUCTION PROGRESSES. TEMPORARY ACCESS MAY BE PROVIDED WITH TEMPORARY GRAVEL ACCESS ROADS, PAVING HALF THE ROAD AT A TIME, AND TEMPORARY DRIVEWAY APPROACHES TO MAINTAIN ACCESS. CONTRACTOR'S TEMPORARY ACCESS PLAN MUST BE AUTHORIZED BY THE CITY. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE LEVEL OF ACCESS FOR SERVICES SUCH AS MAIL, DELIVERY, GARBAGE, AND EMERGENCY SERVICES.

RESTORATION LEGEND

- PCC PAVEMENT REPLACEMENT
- SIDEWALK REPLACEMENT
- DRIVEWAY AND ALLEY REPLACEMENT
- SOD (UNLESS OTHERWISE NOTED)
- DETECTABLE WARNING SURFACE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

OVERALL SITE PAVEMENT RESTORATION AND KEY PLAN

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

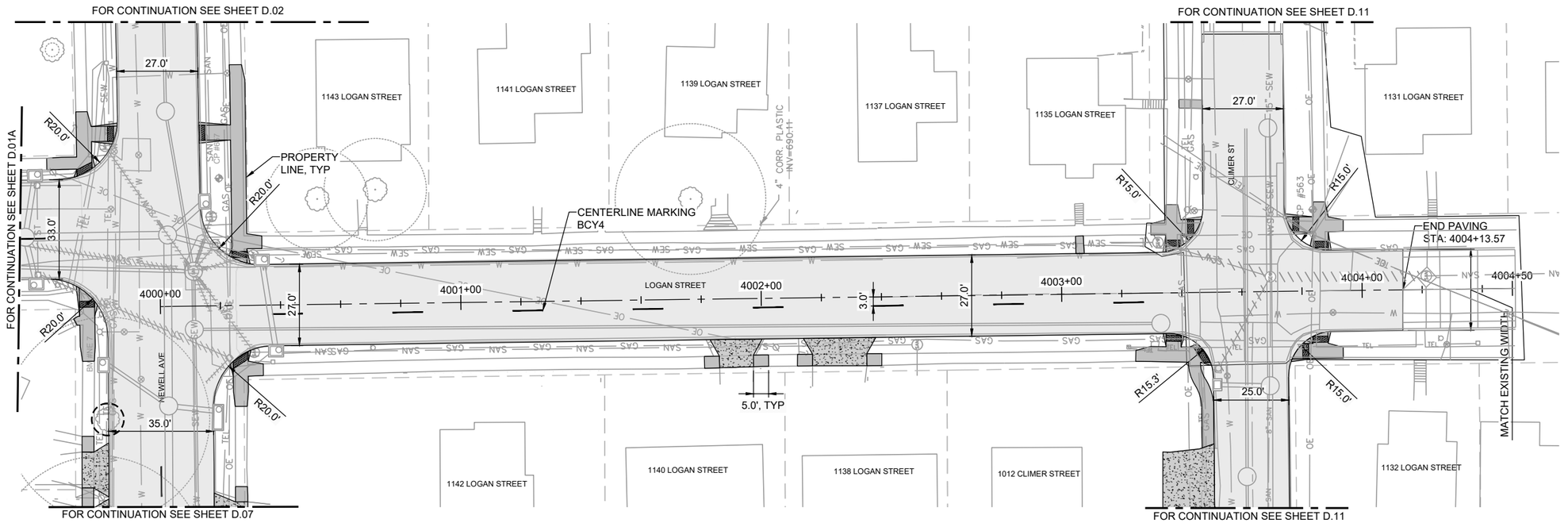
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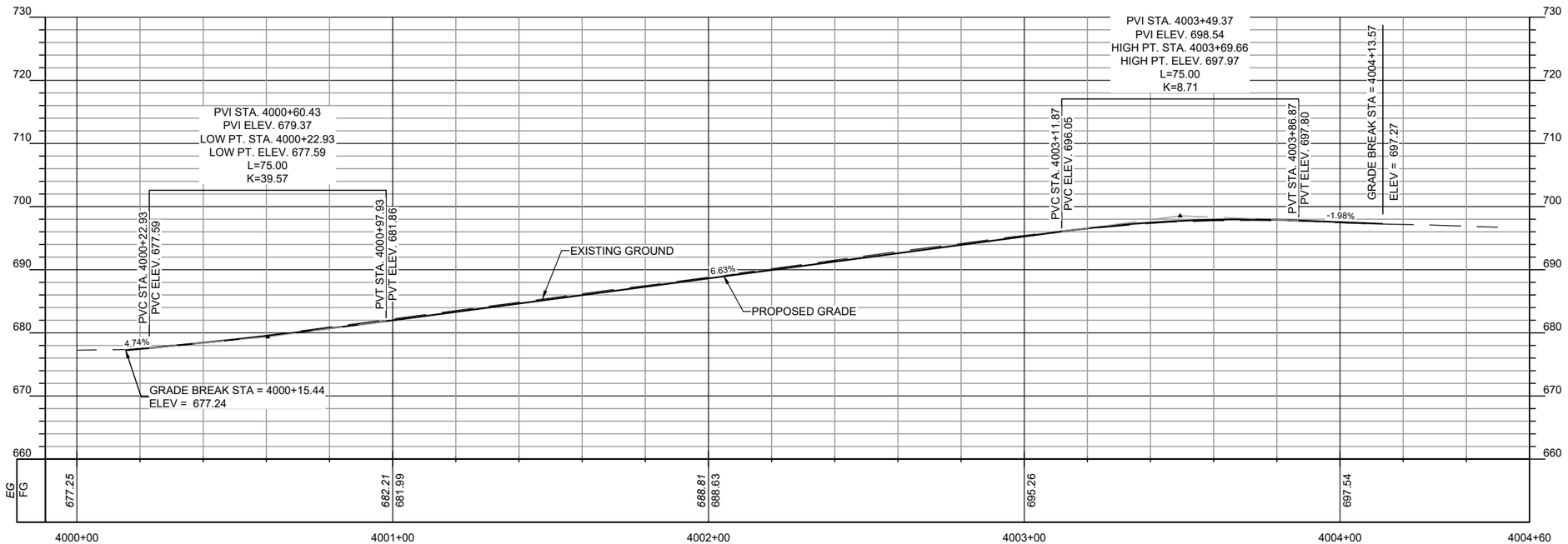
NO. 17660.60.40 | REV. 0

D.00

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN LOGAN STREET - SHEET 1

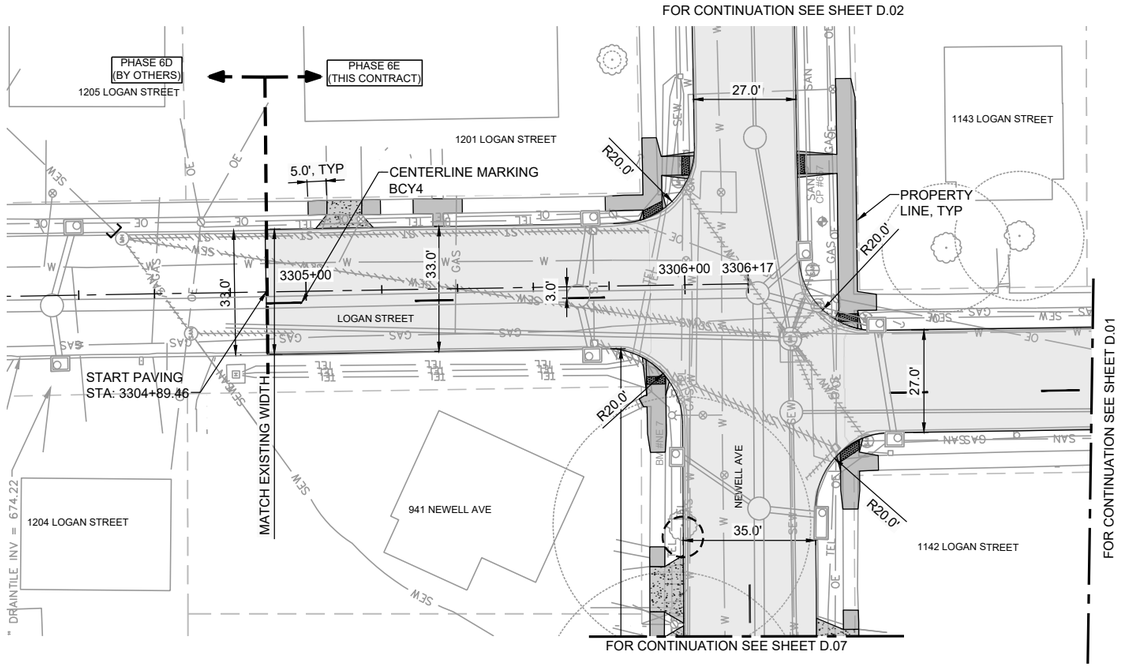
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

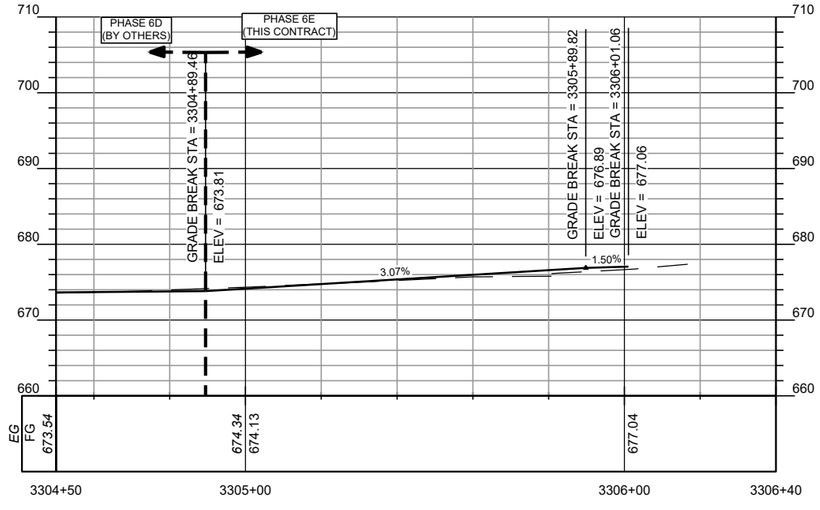
SCALE: 1" = 20'

NO. 17660.60.40	REV.
D.01	0

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NORTH

NOTES

1. LOCATE END OF PAVEMENT FROM PHASE 6D CONTRACT BY OTHERS AND CONTINUE PAVEMENT INSTALLATION IN THIS PHASE 6E CONTRACT.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN
LOGAN STREET - SHEET 2

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

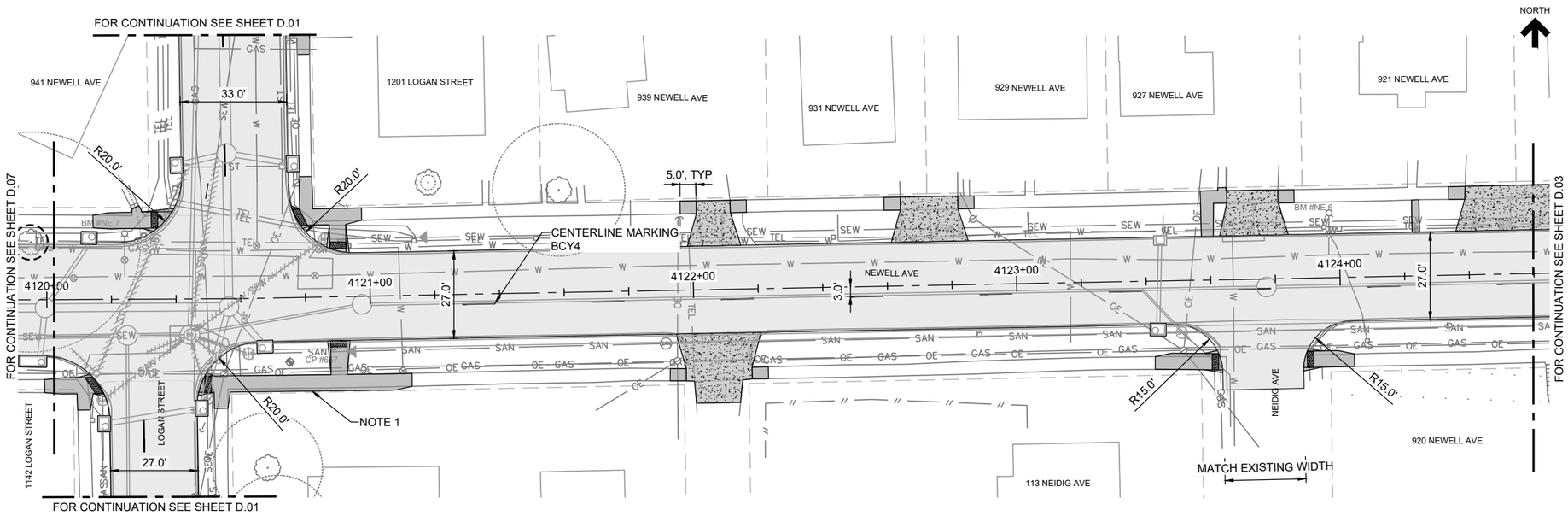
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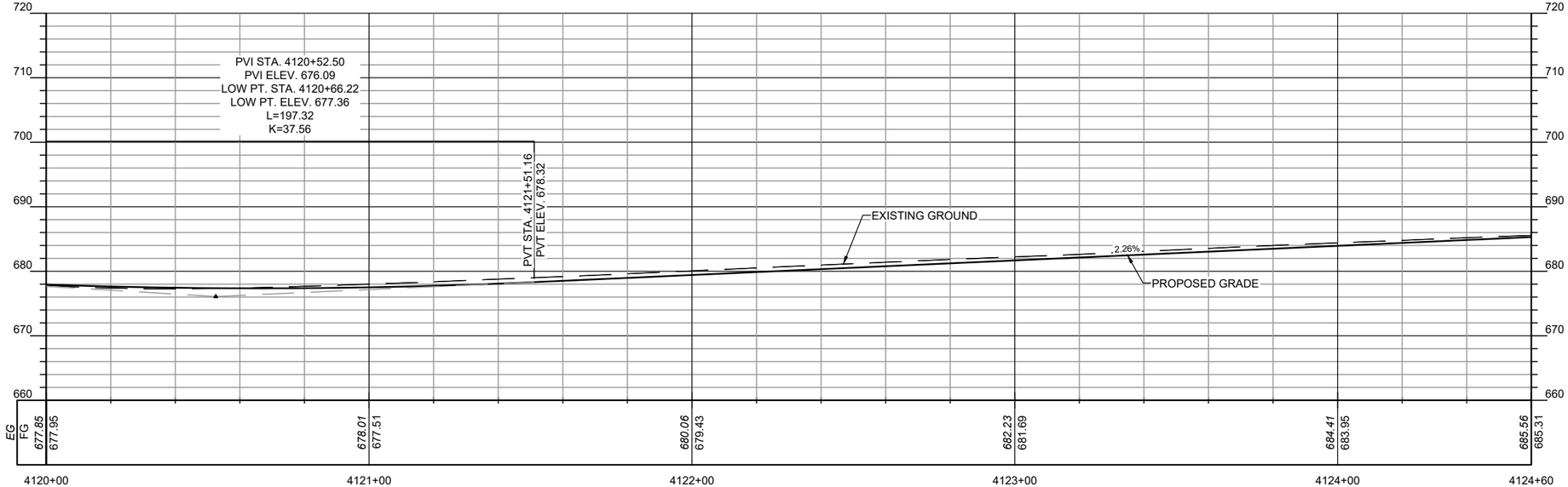
D.01A

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5

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NOTES

1. CONSTRUCT 6" CURB ALONG BACK OF SIDEWALK TO RETAIN SIDE SLOPE.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN NEWELL AVENUE - SHEET 1

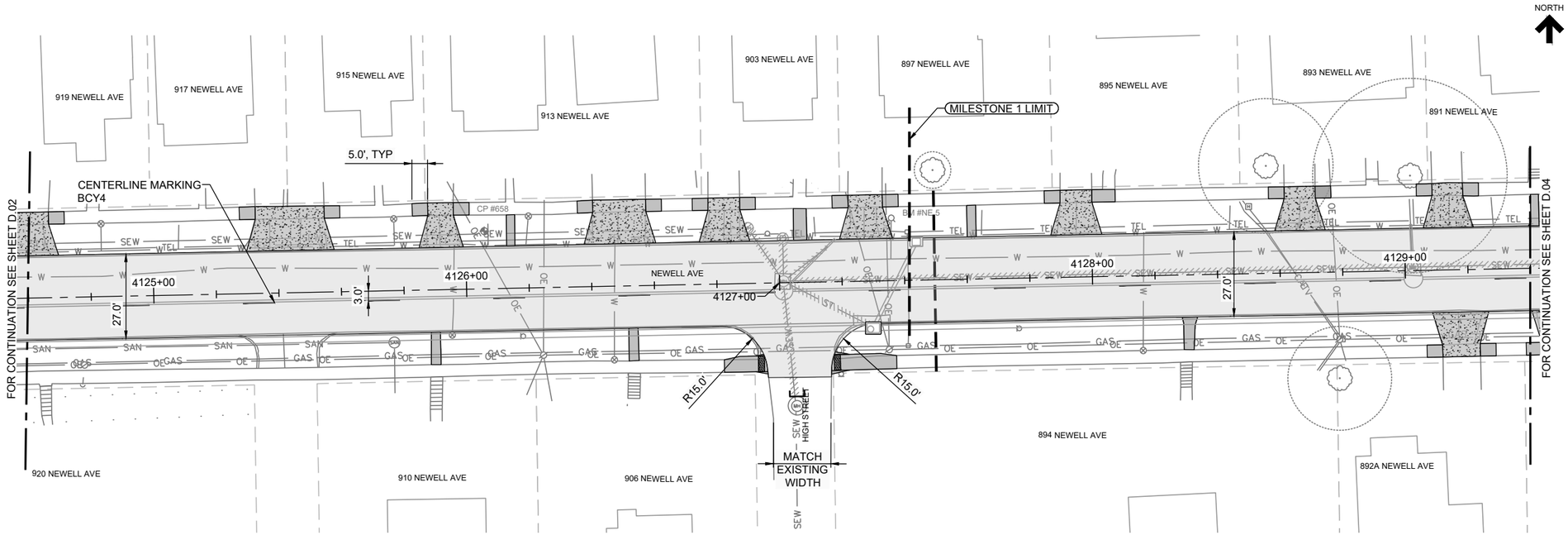
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

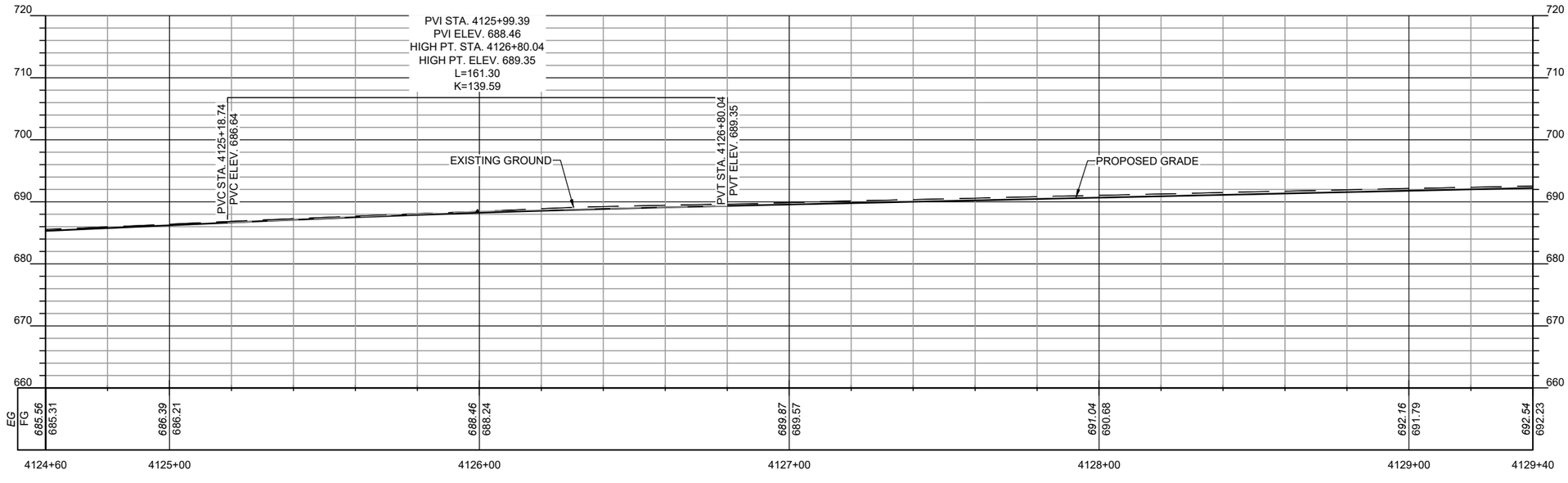
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D.02	0

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN
NEWELL AVENUE - SHEET 2

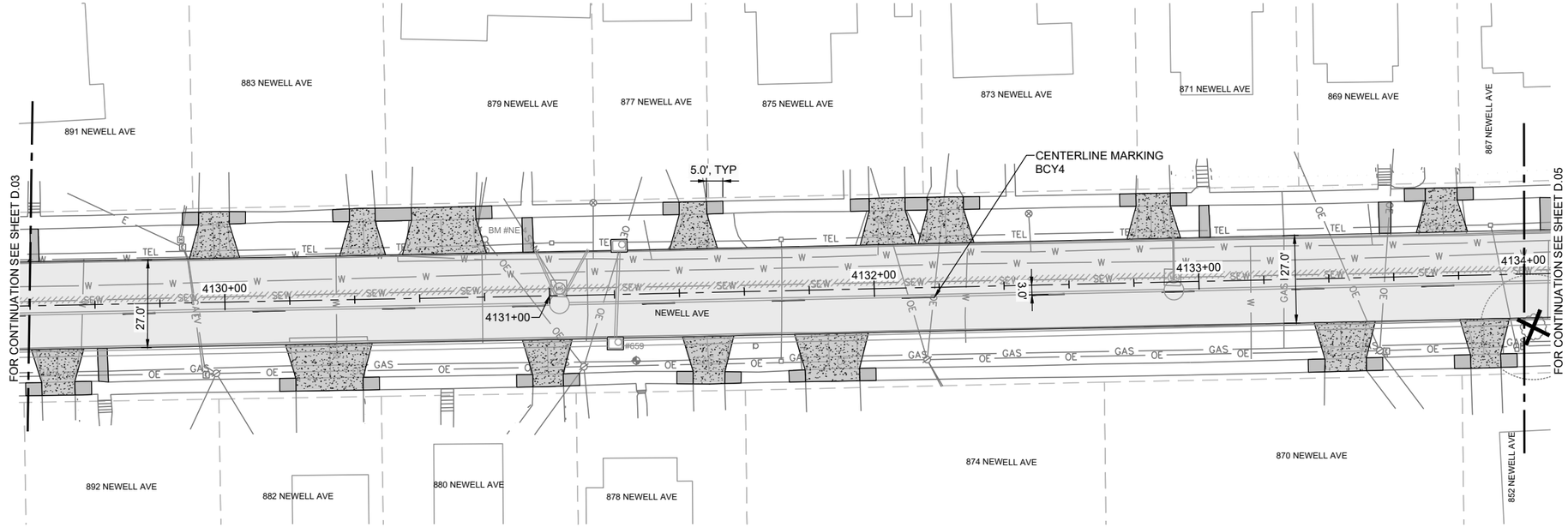
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

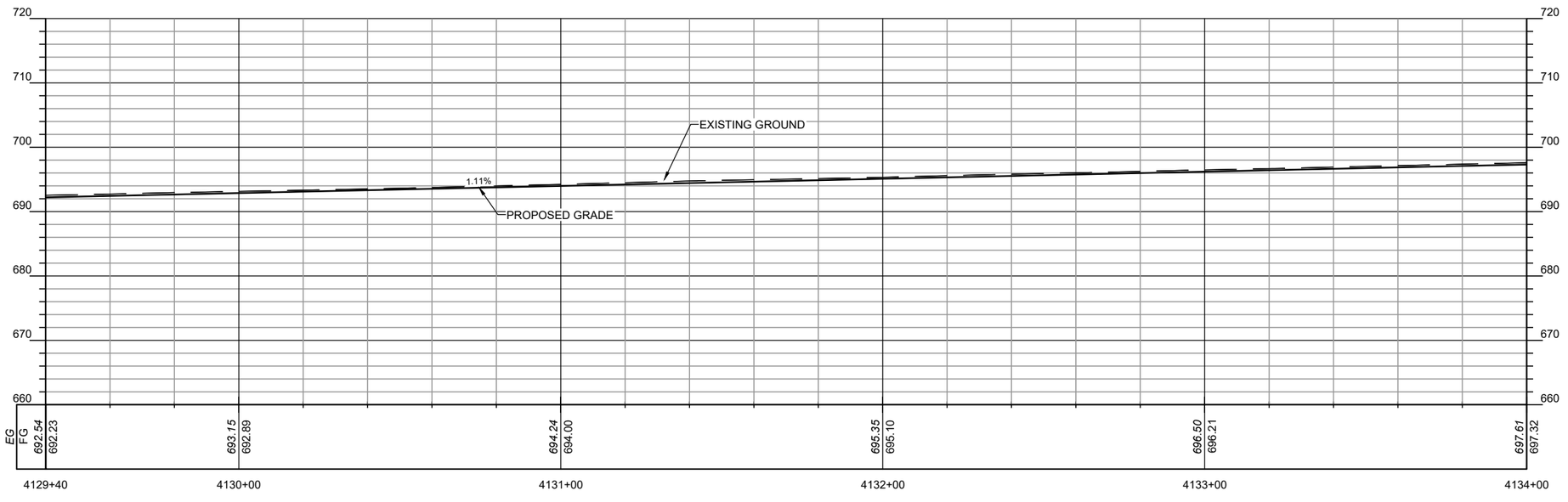
SCALE: 1" = 20'

NO. 17660.60.40	REV.
D.03	0

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN
NEWELL AVENUE - SHEET 3

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

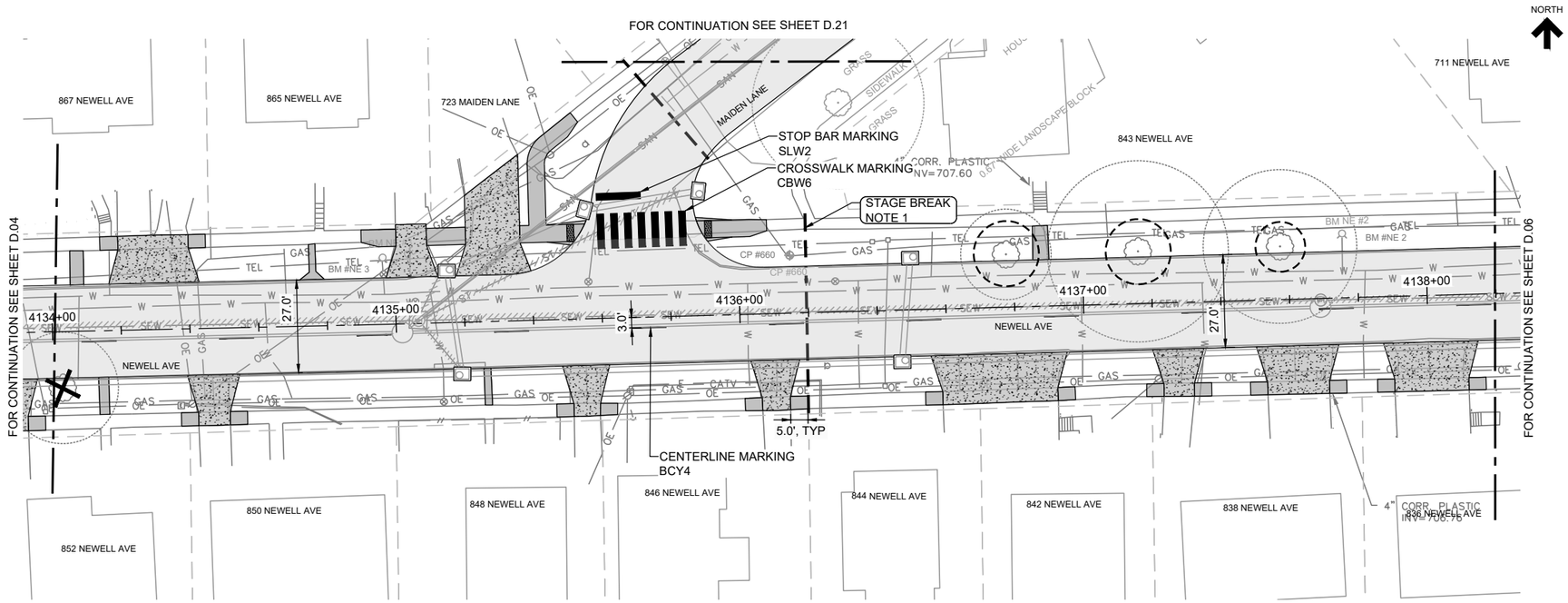
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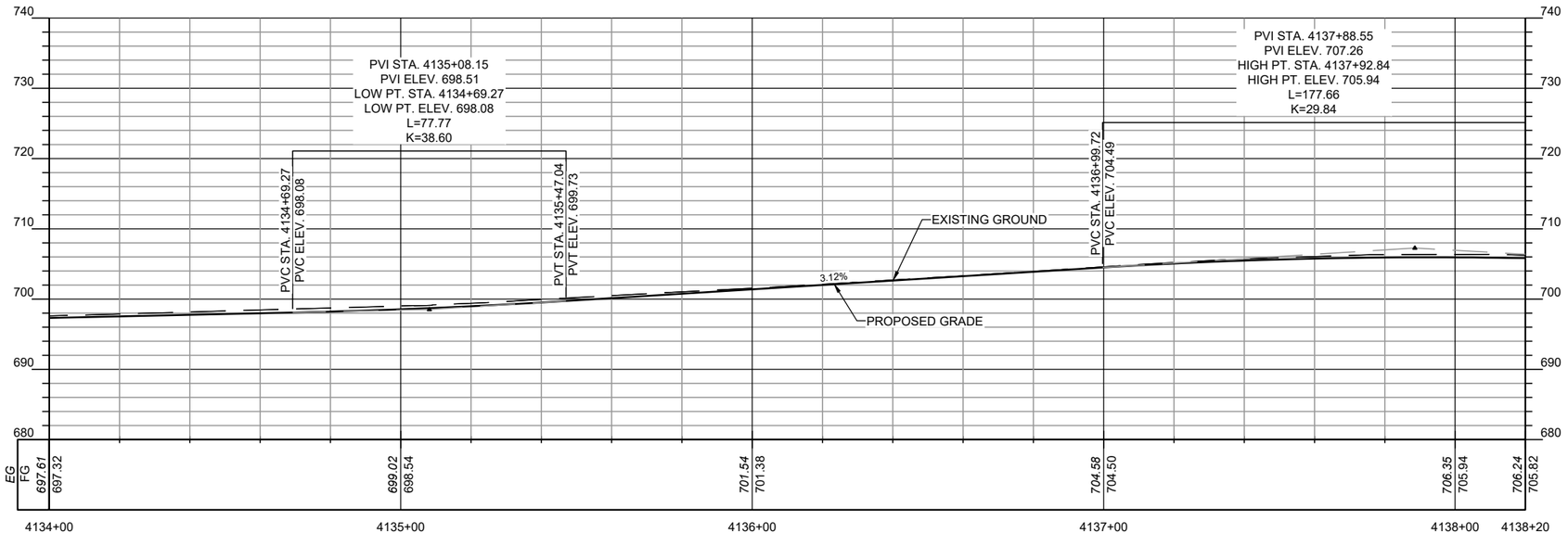
NO. 17660.60.40 | REV. 0

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NOTES

1. APPROXIMATE STAGE BREAK TO NEAR MAIDEN LANE INTERSECTION. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN NEWELL AVENUE - SHEET 4

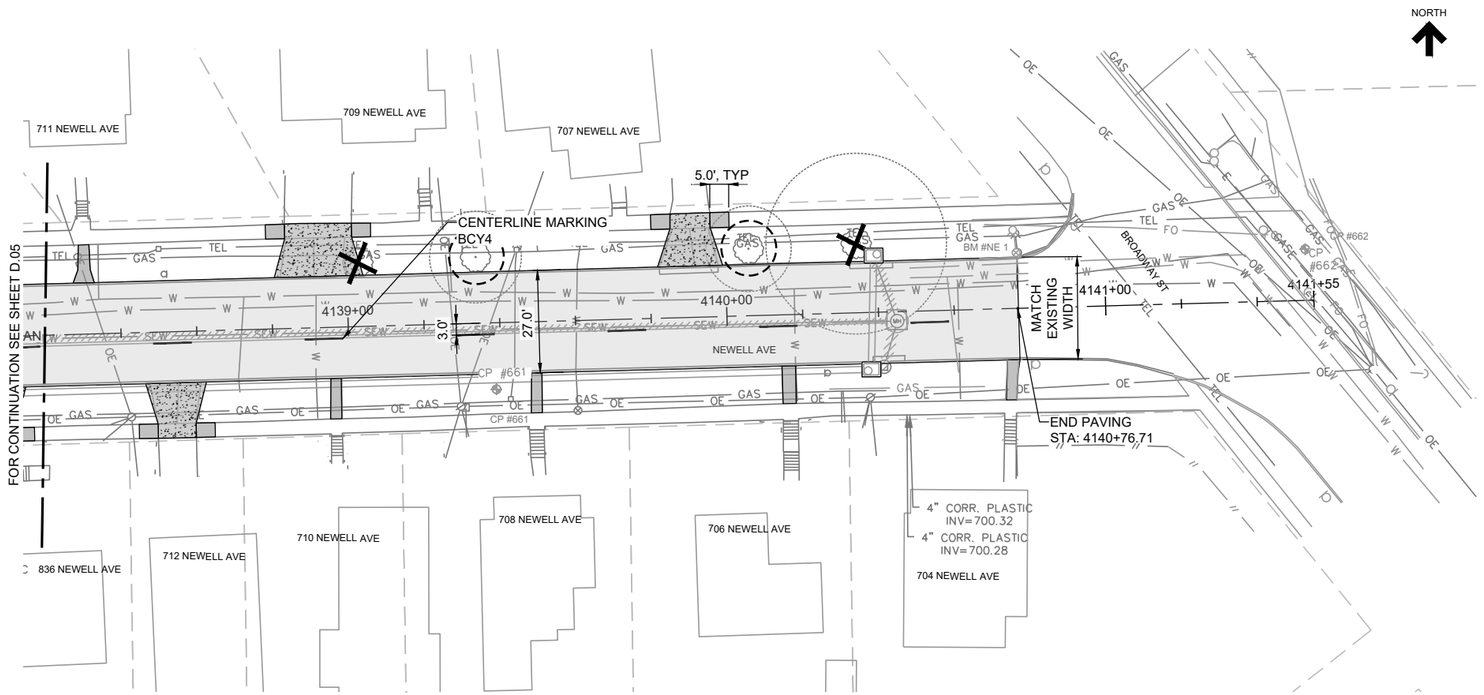
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

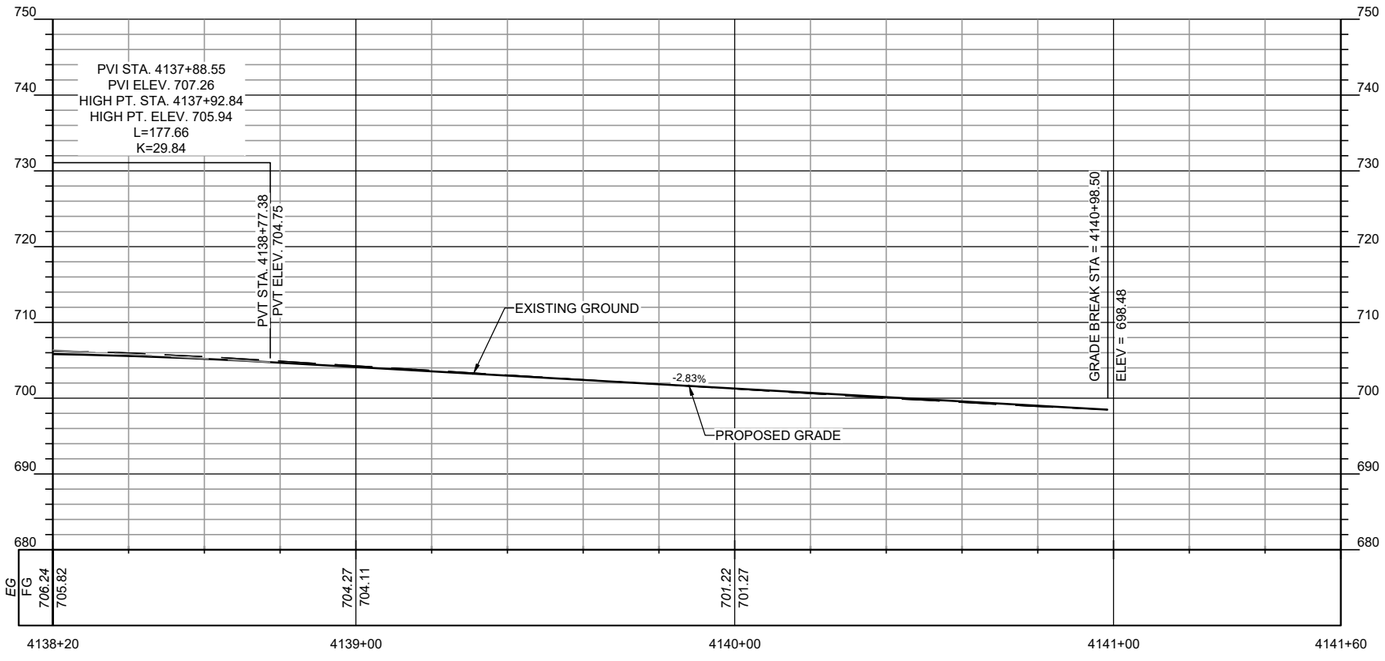
SCALE: 1" = 20'
NO. 17660.60.40
REV. 0
D.05

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN NEWELL AVENUE - SHEET 5

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

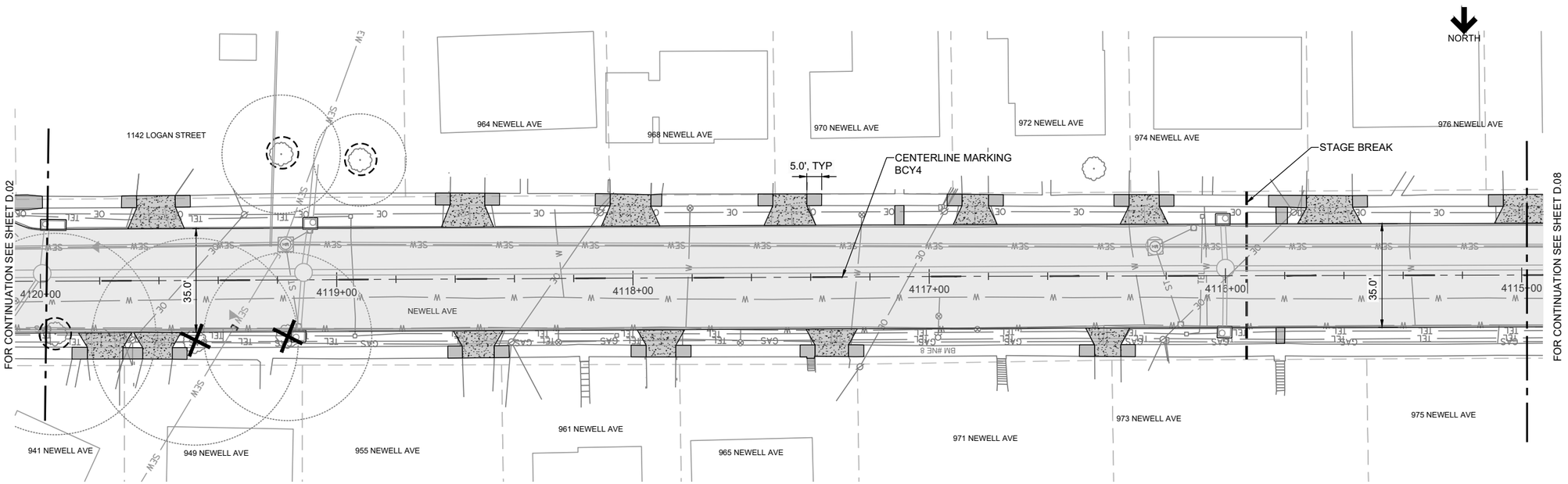
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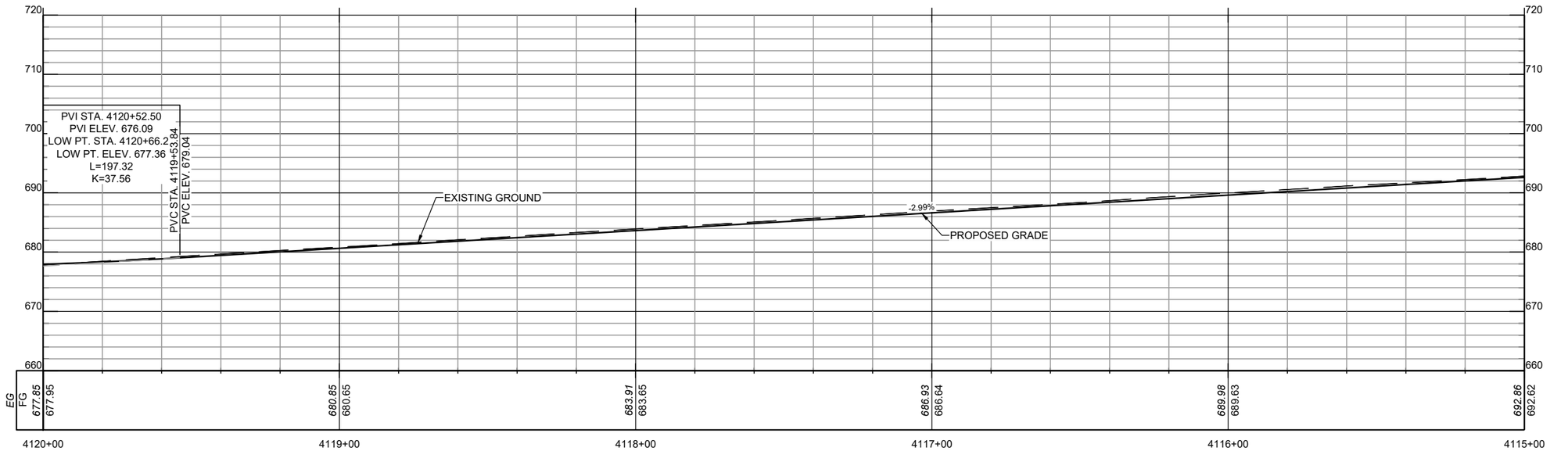
REV. 0

D.06

CADD D3-R5

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN
NEWELL AVENUE - SHEET 6

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

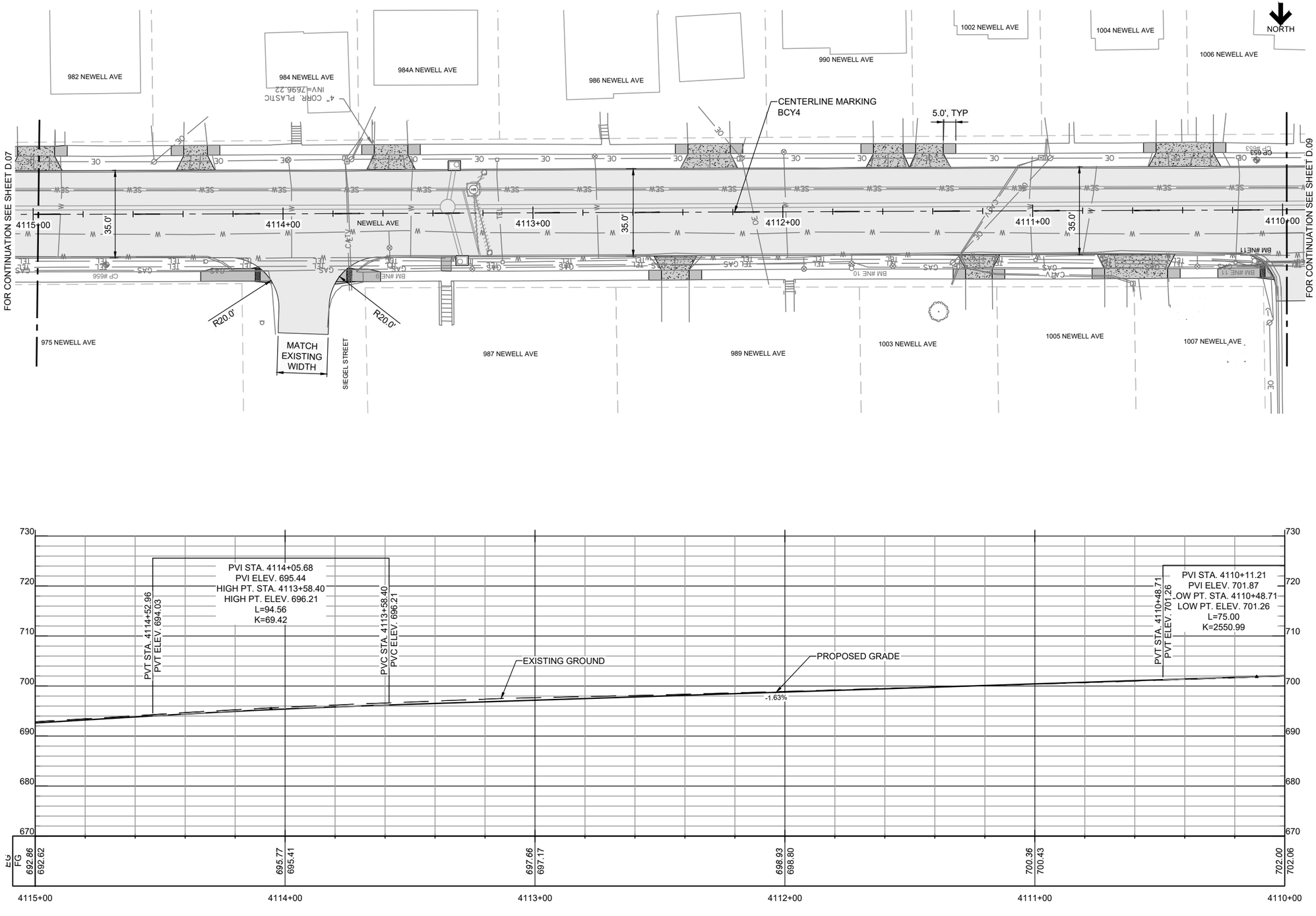
NO. 17660.60.40

REV. 0

D.07

CADD D3-R5

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN
NEWELL AVENUE - SHEET 7

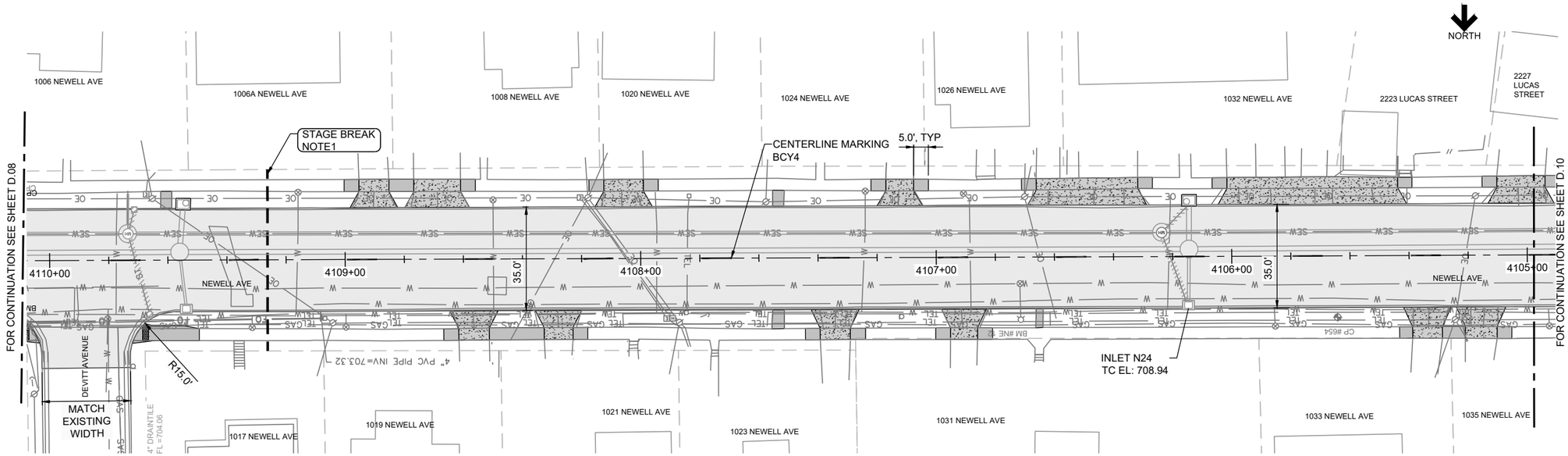
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

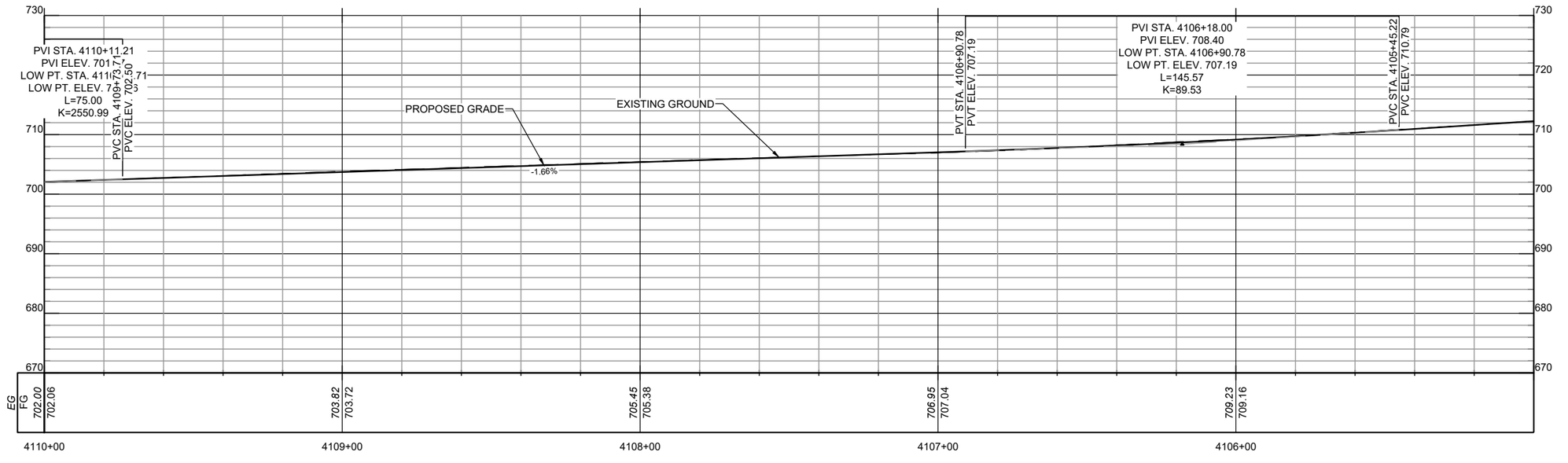
SCALE: 1" = 20'

NO. 17660.60.40	REV.
D.08	0

CADD D3-R5

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NOTES

1. APPROXIMATE STAGE BREAK TO THE WEST OF DEVITT AVENUE INTERSECTION. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN NEWELL AVENUE - SHEET 8

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

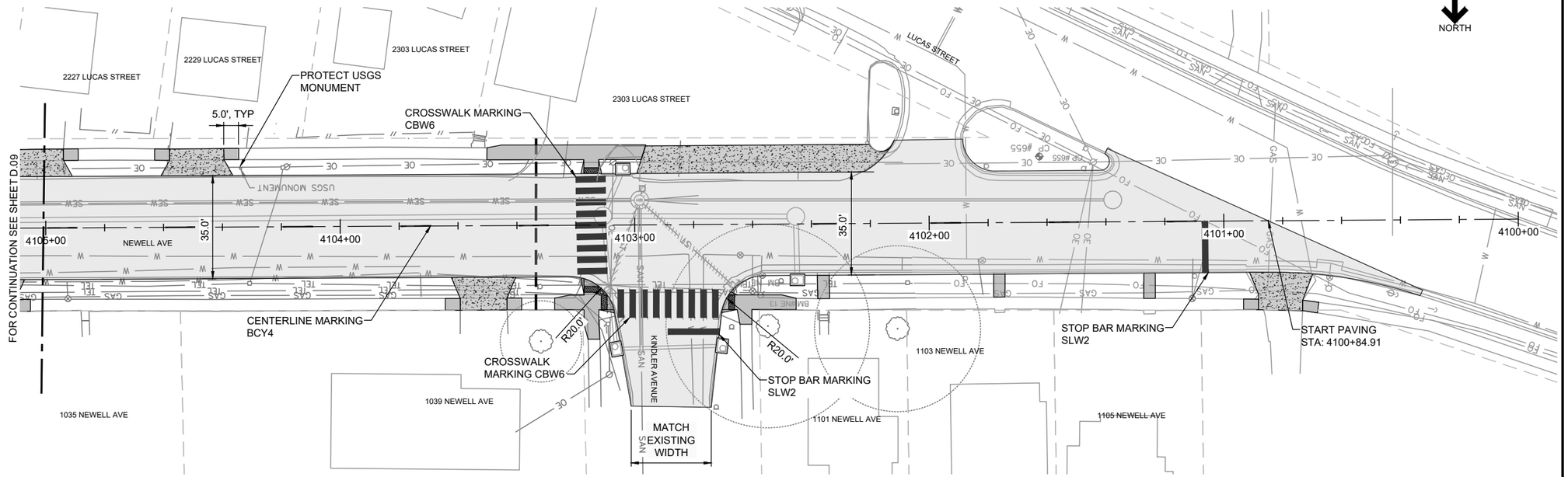
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

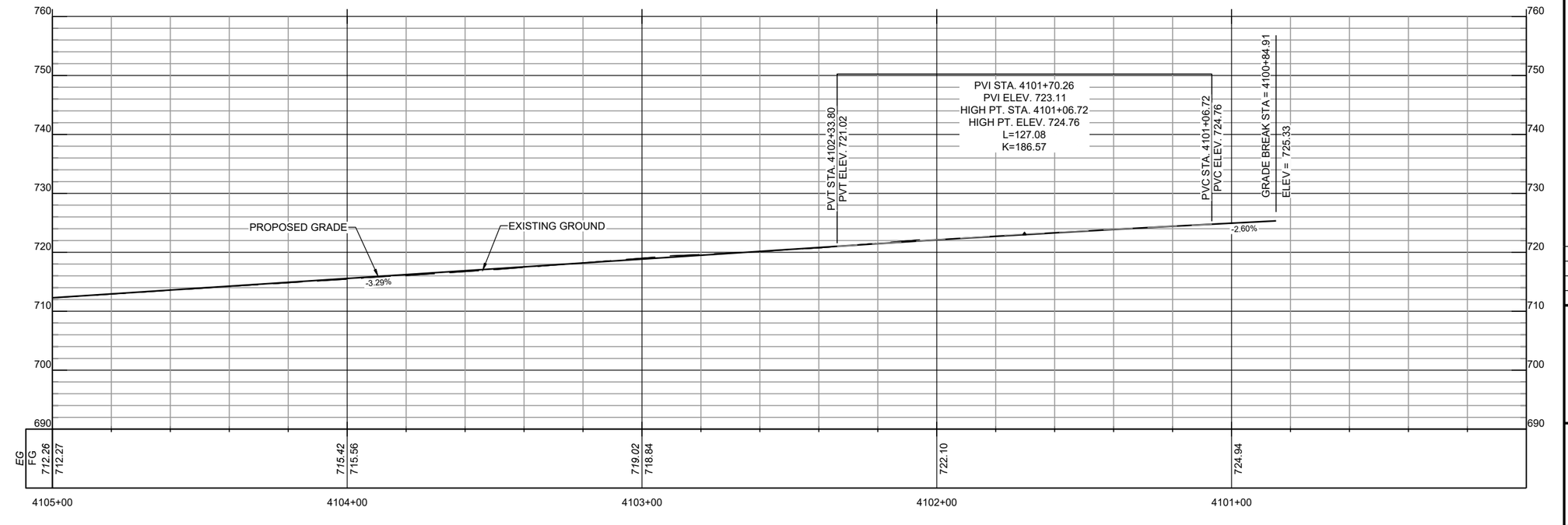
SCALE: 1" = 20'

NO. 17660.60.40	REV.
D.09	0

CADD D3-R5

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN NEWELL AVENUE - SHEET 9

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

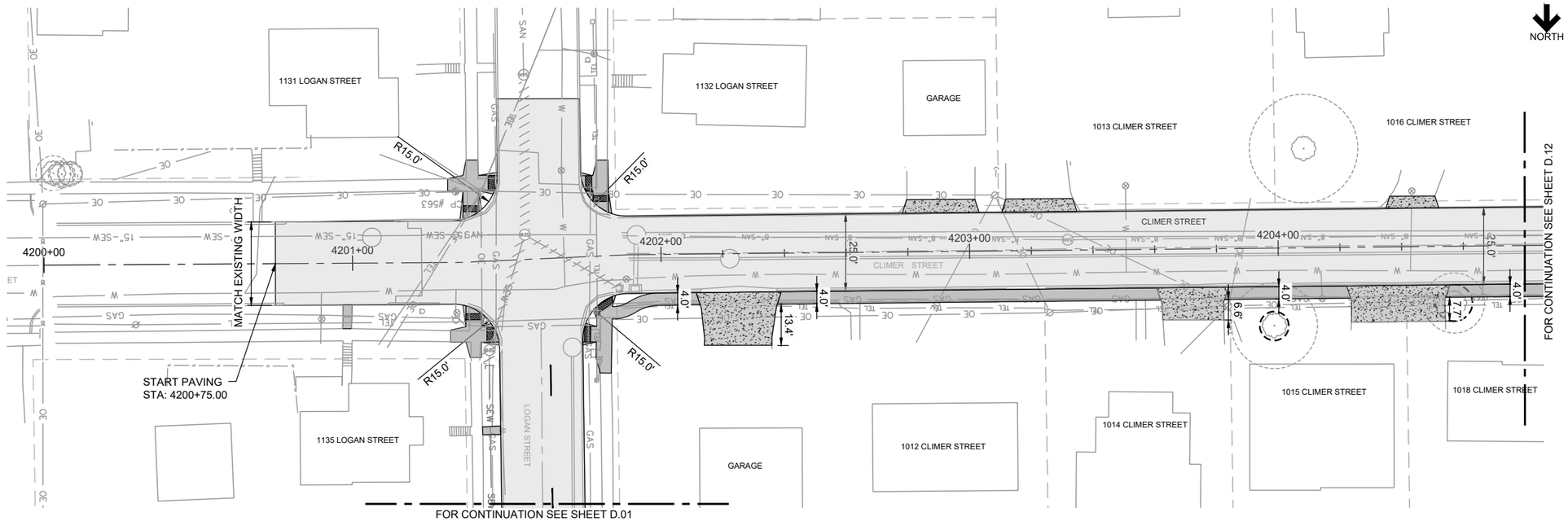
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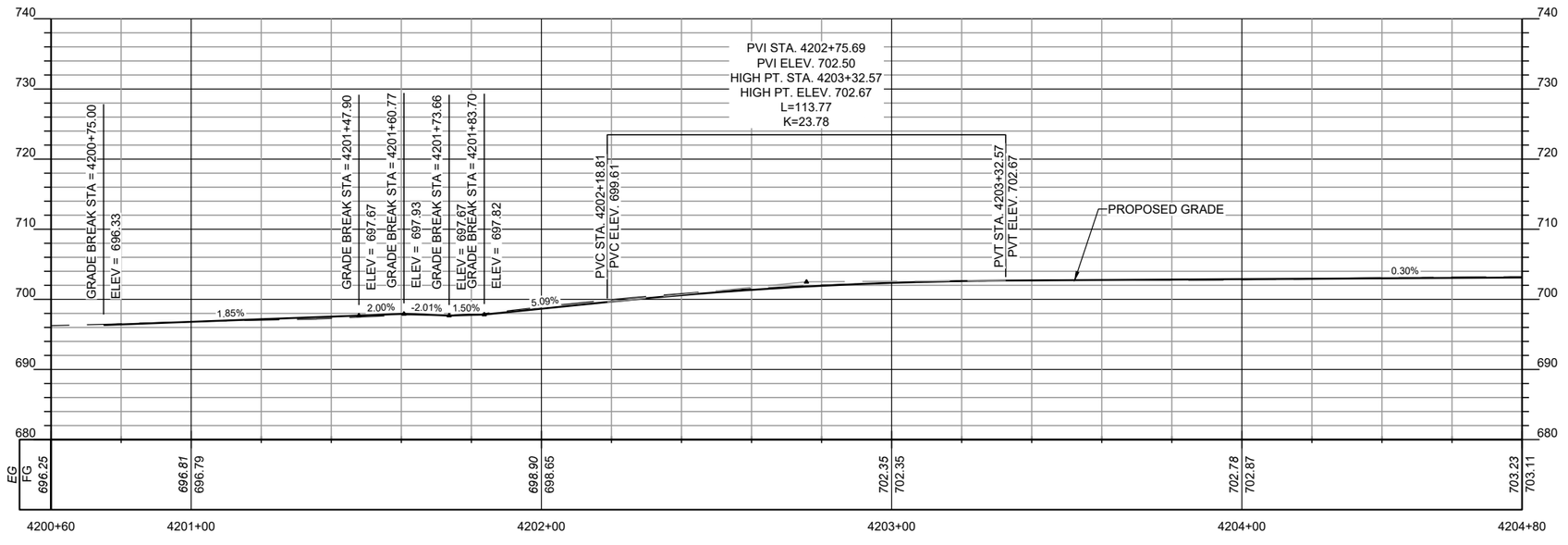
REV. 0

D.10

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NOTES

1. WIDEN SIDEWALK TO 5' WITHIN DRIVEWAYS.

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN
CLIMER STREET - SHEET 1

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

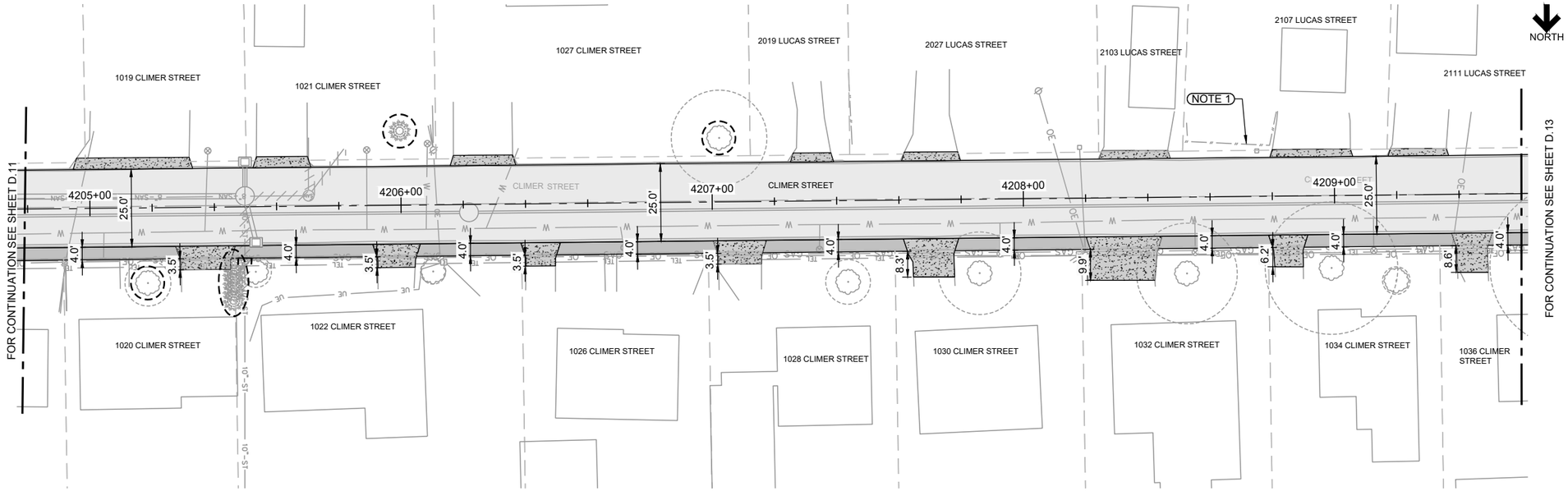
SCALE: 1" = 20'

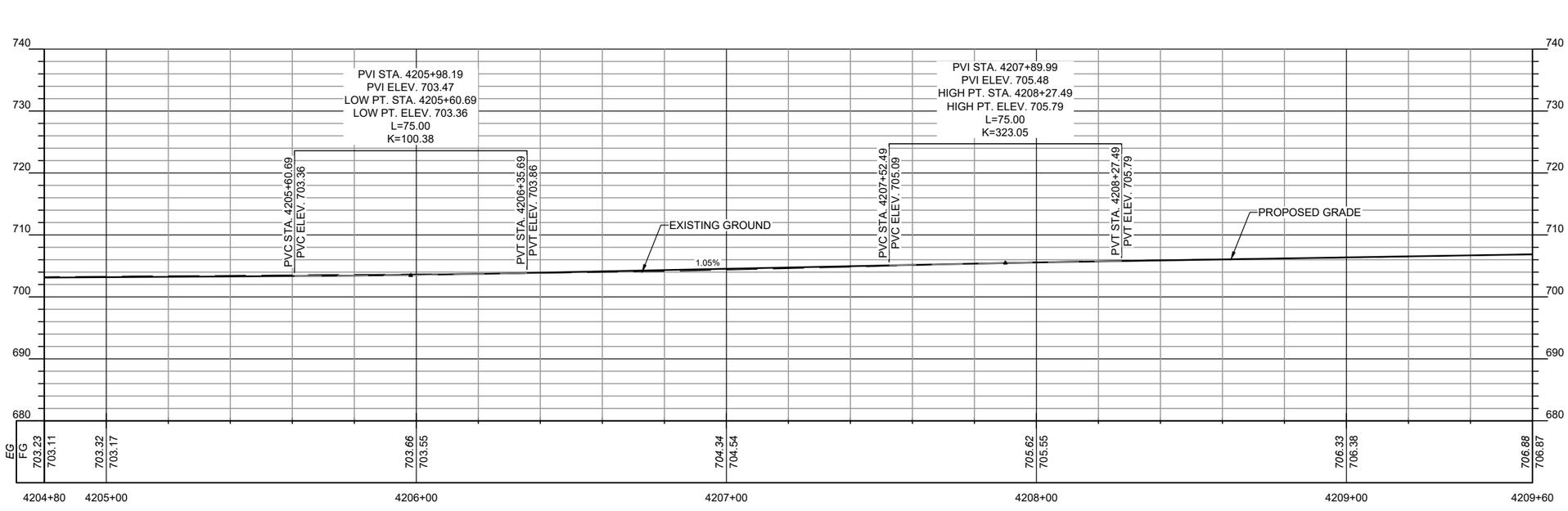
NO. 17660.60.40 | REV. 0

D.11

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NOTES

1. PROTECT FENCE. IF DISTURBED, REMOVE AND REPLACE TO MATCH EXISTING.
2. WIDEN SIDEWALK TO 5' WITHIN DRIVEWAYS.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN
CLIMER STREET - SHEET 2

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

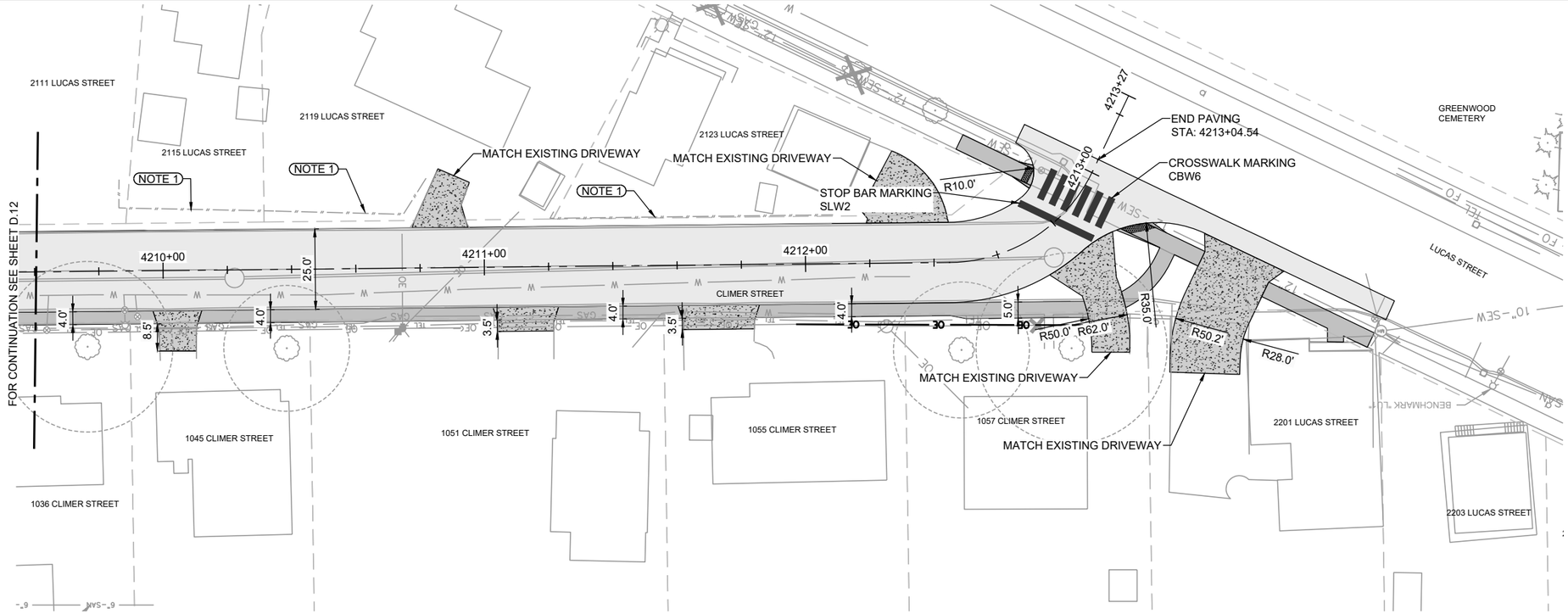
SCALE: 1" = 20'

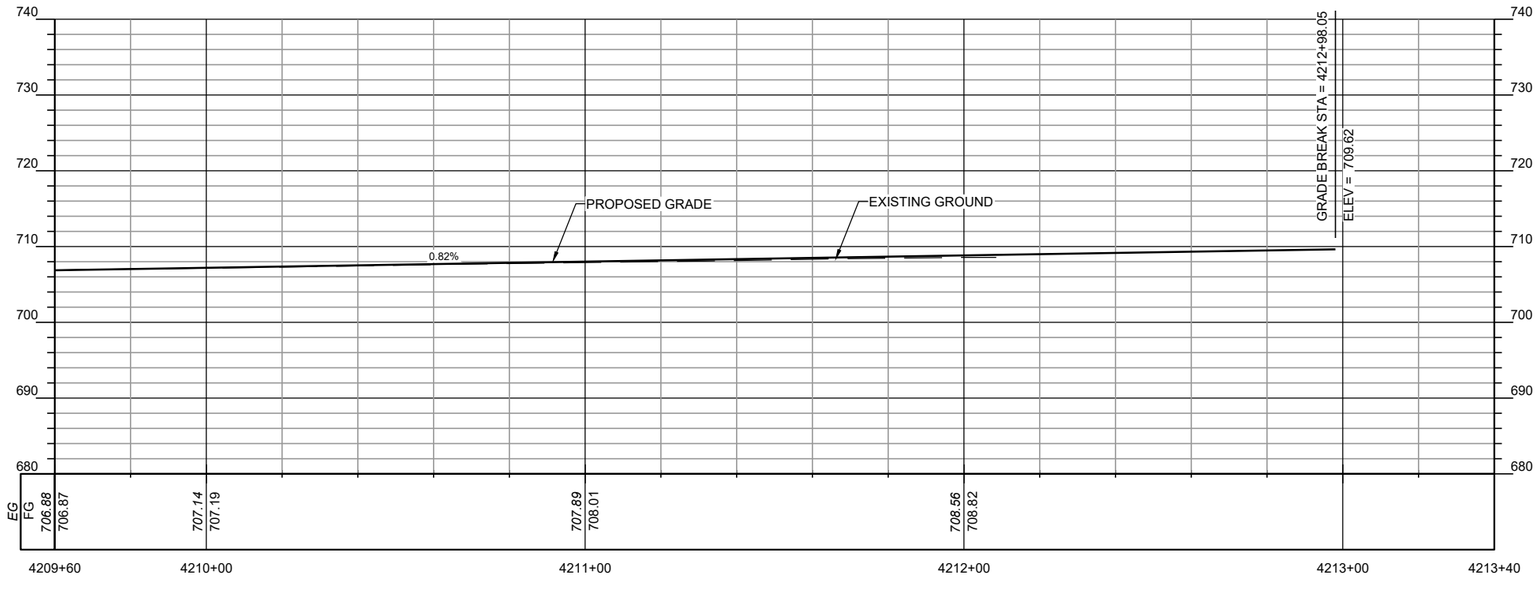
NO. 17660.60.40	REV.
D.12	0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5

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NOTES

1. PROTECT FENCE IF DISTURBED, REMOVE AND REPLACE TO MATCH EXISTING.
2. WIDEN SIDEWALK TO 5' WITHIN DRIVEWAYS.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN CLIMER STREET - SHEET 3

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

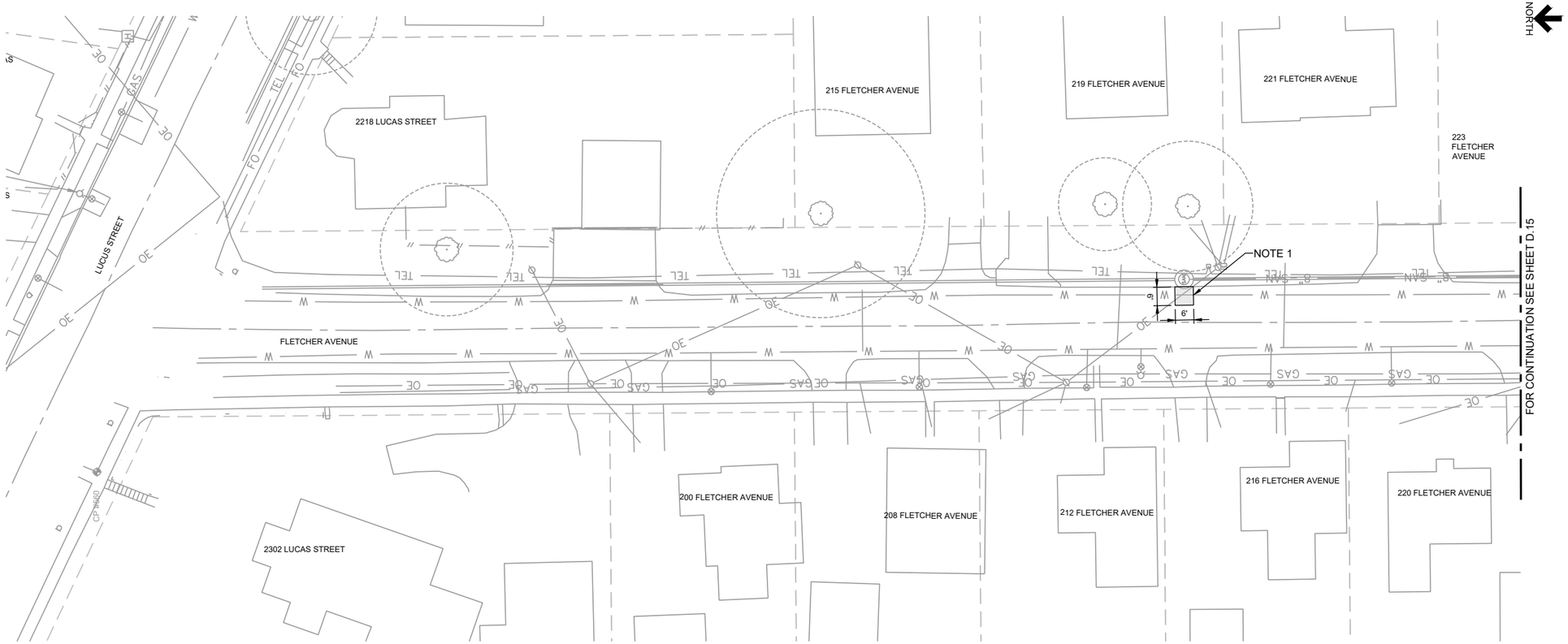
NO. 17660.60.40 | REV. 0

D.13

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5

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NOTES

1. 10" THICK PCC PATCH, 6'X6' MINIMUM DIMENSIONS.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN FLETCHER AVENUE - SHEET 1

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

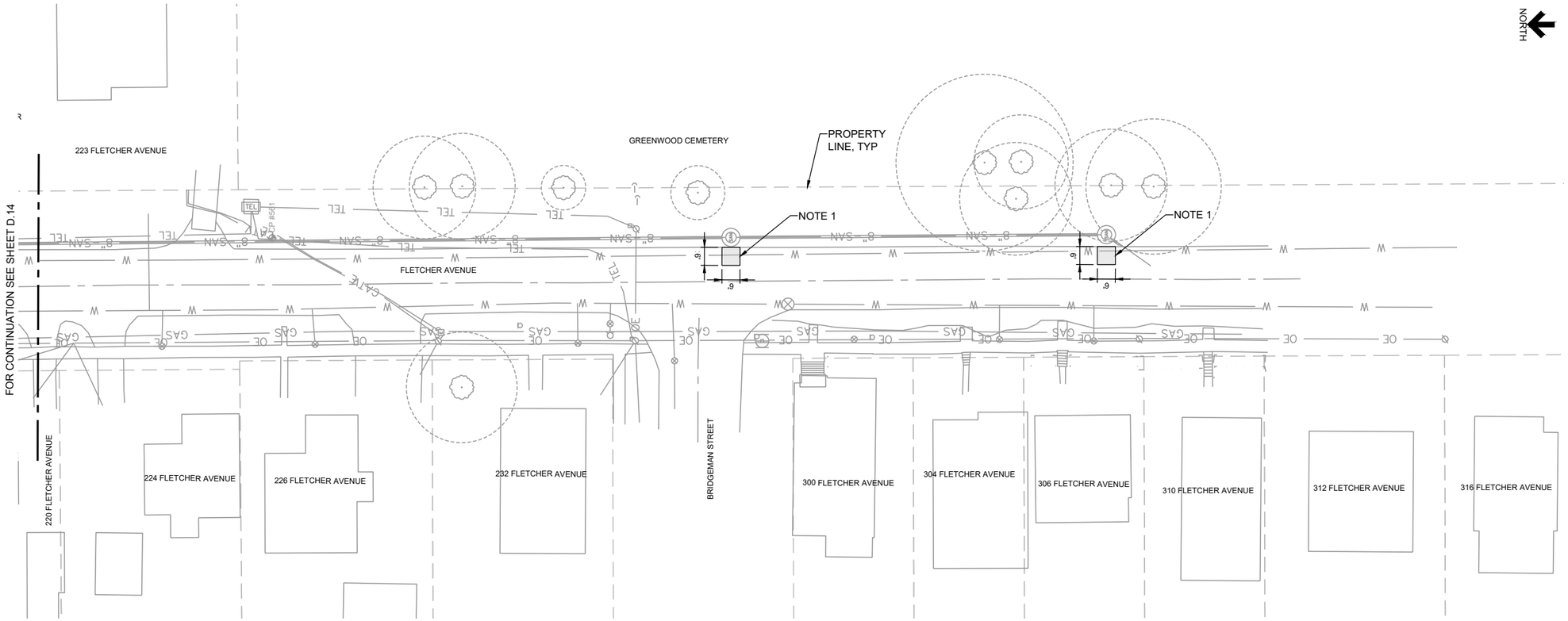
NO. 17660.60.40 | REV. 0

D.14

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

I CADD D3-R5

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NOTES

1. 10" THICK PCC PATCH, 6'X6' MINIMUM DIMENSIONS.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN FLETCHER AVENUE - SHEET 2

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

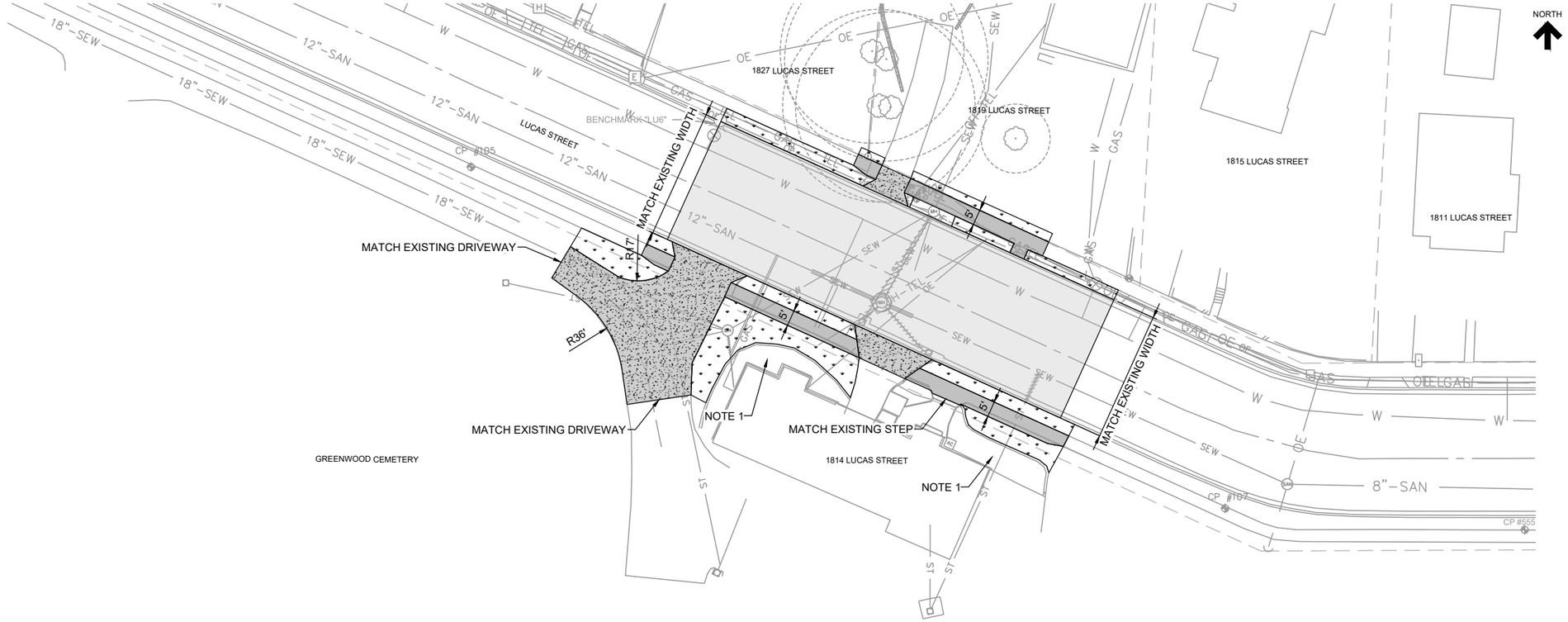
NO. 17660.60.40

REV. C

D.15

CADD D3-R5

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NOTES

1. LANDSCAPE RESTORATION AROUND CHAPEL BY CITY. RESTORE DISTURBED TURF AREAS WITH SOD UNLESS OTHERWISE DIRECTED BY CITY.
2. REFER TO SHEET L.11 FOR PAVEMENT JOINTING PLAN AND ELEVATIONS.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN GREENWOOD CHAPEL

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

NO. 17660.60.40

REV. 0

D.16

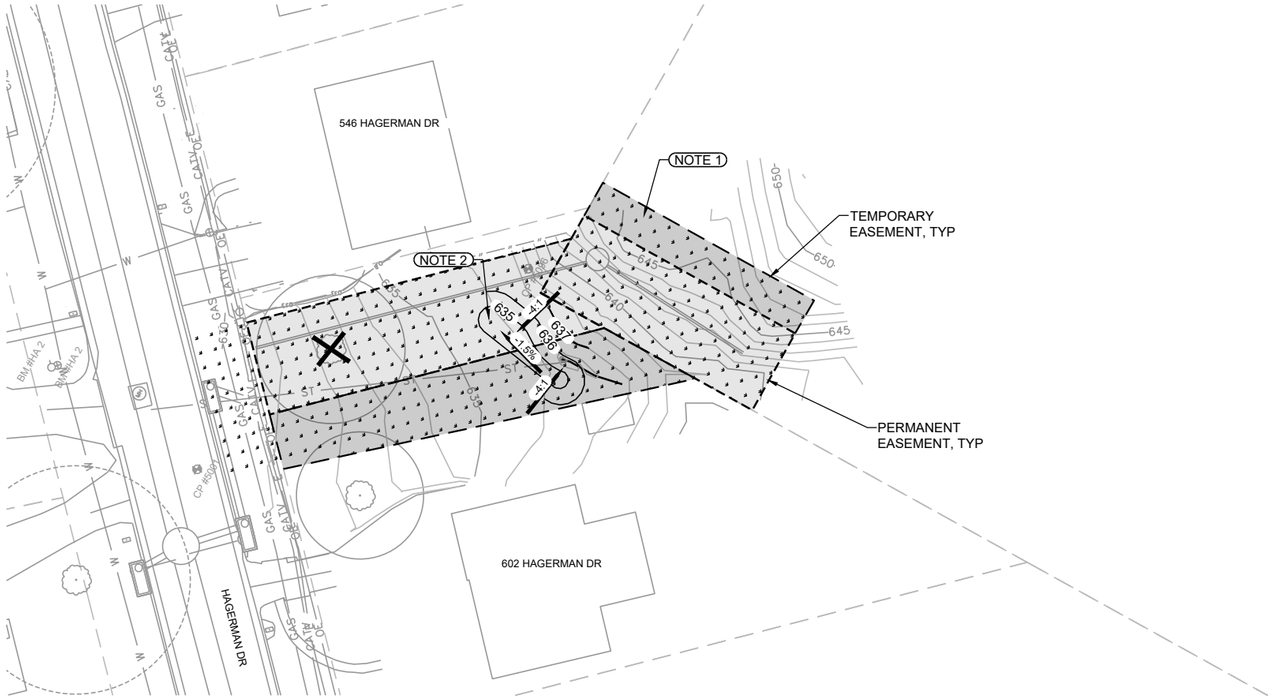
AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

CADD D3-R5

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NOTES

1. RESTORE WITH LAWN SEEDING MIX UNLESS OTHERWISE DIRECTED BY THE CITY. RESTORE AREA TO MATCH EXISTING CONTOURS. ADJUST LOCATION OF LOW POINT AND RE-GRADE TO END SECTION OF NEW STORM SEWER LOCATION.
2. GRADE 5' WIDE BOTTOM OF SWALE TO STORM PIPE INVERT ELEVATION.

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SURFACE RESTORATION PLAN HAGERMAN DRIVE

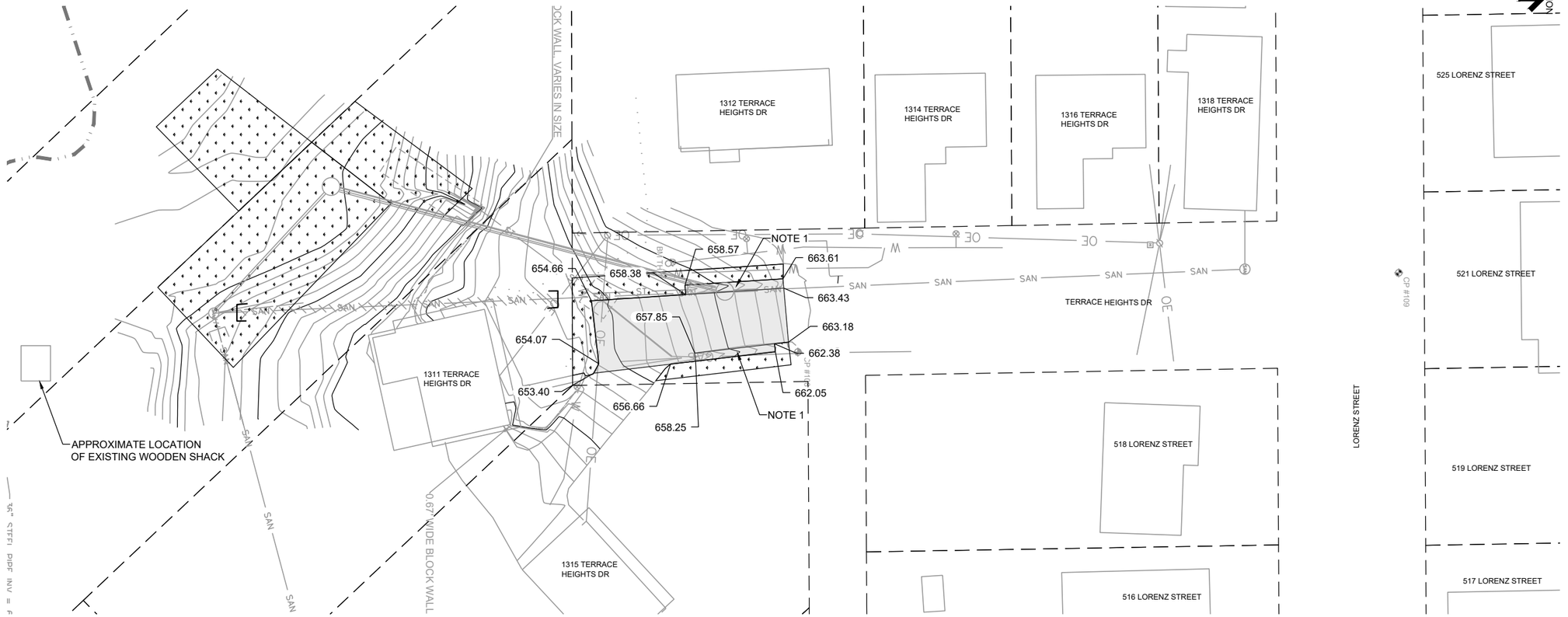
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

NO. 17660.60.40	REV.
D.17	0

CADD D3-R5

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NOTES

1. ASPHALT PAVED V-DITCH. SLOPE CHANNEL TO INVERT ELEVATION OF STORM DRAIN.
2. TERRACE HEIGHTS DR PAVEMENT SECTION: 6" HMA ON 6" GRANULAR BASE

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN TERRACE HEIGHTS DRIVE

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

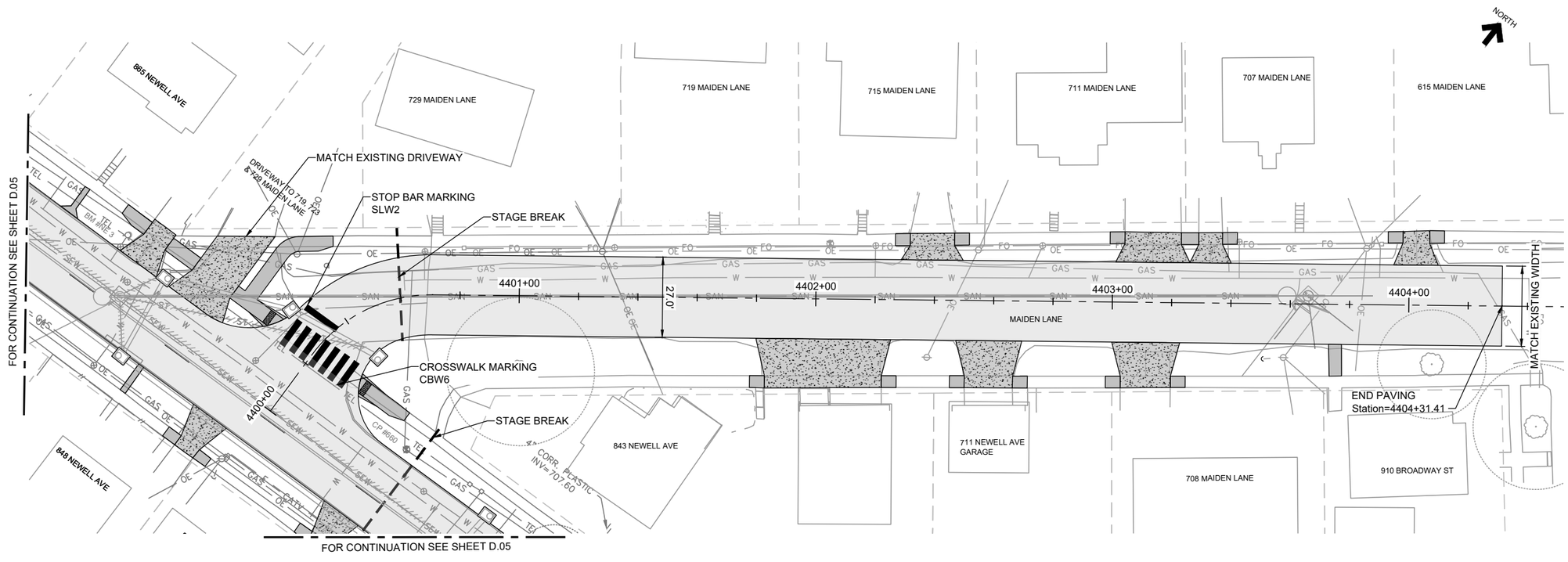
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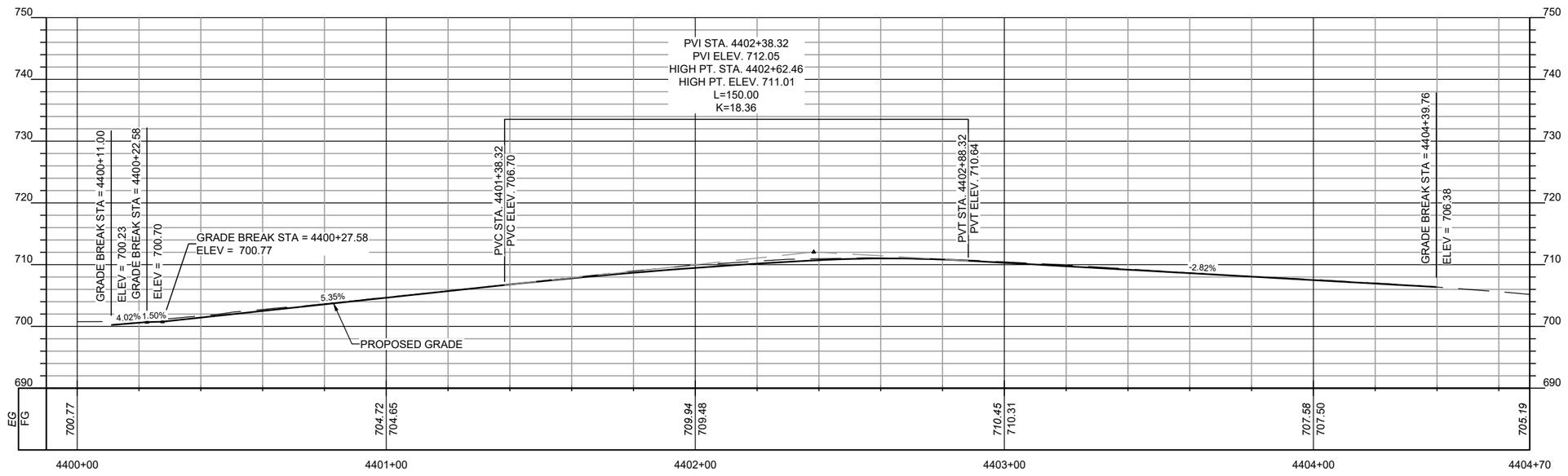
REV. 0

D.18

CADD D3-R5

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN MAIDEN LANE

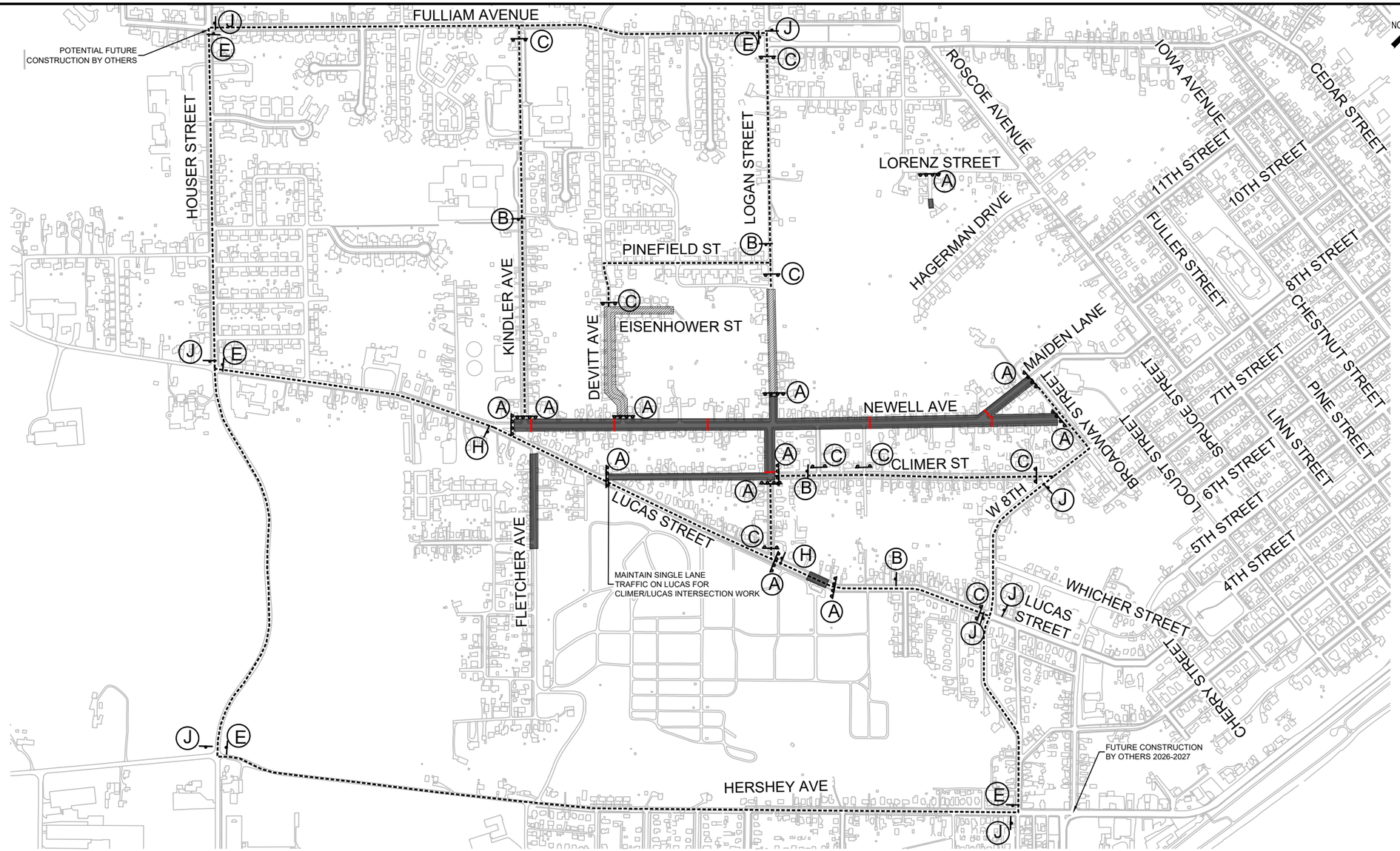
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

NO. 17660.60.40 | REV. D.21 | 0

AT FULL SIZE

CADD D3-R5
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NOTES

TRAFFIC CONTROL LEGEND:

AREA OF STREET CLOSURES

(A) R11-2 48"x30" — STREET CLOSED
MOUNTED ABOVE ONE OF THE TYPE III BARRICADE (5'X10') (2 EACH)

(B) STREET CLOSED AHEAD
W20-3 36"x36"

(C) R11-4 60"x30" — STREET CLOSED TO THRU TRAFFIC
MOUNTED ABOVE TYPE III BARRICADE (5'X10') (1 REQUIRED)
CLOSED AT XXXX STREET

1. MOUNT BELOW "STREET CLOSED TO THRU TRAFFIC" SIGN.
2. INSERT FOR"XXXX" THE APPROPRIATE CLOSURE LOCATION.

(D) DETOUR AHEAD
W20-2 36"x36"

(E) M4-9R 30"x24" — DETOUR

(F) M4-8 24"x12" / M5-1L 21"x15" — DETOUR
USED IN ADVANCE OF (J)

(G) M4-8 24"x12" / M5-1R 21"x15" — DETOUR
USED IN ADVANCE OF (E)

(H) M4-8 24"x12" / M6-3 21"x15" — DETOUR

(I) M4-8a 24"x18" — END DETOUR

(J) M4-9L 30"x24" — DETOUR

SIGN POST
TYPE III BARRICADE
DETOUR ROUTE

AREA OF CONCURRENT CONSTRUCTION BY OTHERS

STAGE BREAK LINE, REFER TO SHEET J.03

TRAFFIC CONTROL NOTES:

1. STREET CLOSURES THIS SHEET ARE LIMITED TO AREAS: NEWELL AVE, MAIDEN LN, CLIMER ST, LOGAN ST, DEVITT AVE, EISENHOWER ST.
2. MISSISSIPPI DRIVE CLOSURE - FLOOD DETOUR ROUTE "AND" DETOUR ROUTE FOR FLOOD - MISSISSIPPI DRIVE/EAST 2ND STREET CLOSURE MAY OCCUR WITHIN THE DOWNTOWN AREA.
3. ALL TRAFFIC ROUTING FOR THE WEST HILL CONSTRUCTION DETOURS SHALL BE COORDINATED WITH ANY OTHER DETOURS THAT MAY BE IN PLACE. THE FLOOD DETOUR PLANS MAY BE OBTAINED FROM THE CITY OF MUSCATINE PUBLIC WORKS.
4. "STREET CLOSED TO THRU TRAFFIC" SIGNS MOUNTED ON TYPE III BARRICADES (5'X10') SHALL BE ERECTED AT ALL STREETS/ALLEYS THAT ARE TO BE CLOSED DUE TO CONSTRUCTION. THESE SIGNS SHALL BE ERECTED AT THE NEAREST CROSS STREET/ALLEY FROM CONSTRUCTION ZONE.
5. SIDEWALKS THAT ARE TO BE CLOSED SHALL BE SIGNED APPROPRIATELY TO WARN PEDESTRIANS OF CLOSED SIDEWALK. SIGN INSTALLATIONS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 11TH EDITION AND SUDAS. ALTERNATE ROUTES SHALL BE PROVIDED WHERE SIDEWALKS ARE CLOSED. ALTERNATE ROUTES SHALL COMPLY WITH PUBLIC RIGHT OF WAY ACCESSIBLITY GUIDELINES (PROWAG).
6. CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE CITY OF MUSCATINE. THE CONTRACTOR SHALL MODIFY THE CONSTRUCTION SCHEDULE AS REQUIRED BY THE CITY OF MUSCATINE.
7. NO PAVEMENT CONSTRUCTION SHALL BE INITIATED DURING THE LATE FALL AND WINTER MONTHS. CONSTRUCTION SHALL BE CONCLUDED BEFORE WINTER SHUT DOWN SO THAT ALL STREETS ARE OPEN TO TRAFFIC DURING THE WINTER MONTHS. CONTRACTOR SHALL NOT BE PAID FOR "WINTER PROTECTION" ACTIVITIES.
8. PARKING SPACES MAY BE REMOVED ALONG DETOUR ROUTES WHERE ADDITIONAL WIDTH OF TRAVEL WAY IS NEEDED FOR TURNING AND ROUTING OF VEHICLES. ALL CHANGES TO PARKING MUST BE COORDINATED WITH AND APPROVED BY THE CITY OF MUSCATINE. CONTRACTOR SHALL CONTACT CITY'S FIELD ENGINEERING REPRESENTATIVE, CITY OF MUSCATINE PUBLIC WORKS DEPT (563-263-8933), PRIOR TO IMPLEMENTING THE TRAFFIC CONTROL PLAN. CONTRACTOR TO PROVIDE TRAFFIC CONES WITH NO PARKING SIGNS.
9. LOCAL STREETS CLOSED DUE TO CONSTRUCTION SHALL BE SIGNED FOR CLOSURES AS INDICATED ON PLANS. DETOURS FOR TRAFFIC SHALL BE SIGNED AS REQUIRED BY THE CITY OF MUSCATINE. CLOSURES AND DETOURS SIGN INSTALLATIONS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 11TH EDITION AND SUDAS.
10. TEMPORARY DRIVING SURFACE SHALL BE PROVIDED IMMEDIATELY AFTER THE TRENCH HAS BEEN FILLED WITH SUITABLE FILL MATERIAL TO OPEN INTERSECTIONS TO A MINIMUM OF ONE LANE TRAFFIC AS SOON AS POSSIBLE AFTER SEWER CONSTRUCTION.
11. ORANGE SAFETY FENCE SHALL BE ERECTED CURB TO CURB BEHIND THE "STREET CLOSED" SIGNS MOUNTED ON TYPE III BARRICADES WHICH ARE INSTALLED IMMEDIATELY ADJACENT TO THE CURRENT CONSTRUCTION ACTIVITIES.
12. ACCESS SHALL BE PROVIDED TO LOCAL RESIDENTS' HOMES, AS MUCH AS FEASIBLE, EITHER FROM ALLEY OR PARTIAL STREET CLOSURE.
13. ALL CHANGES TO THE TRAFFIC CONTROL PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE CITY OF MUSCATINE. CONTRACTOR SHALL CONTACT CITY'S FIELD ENGINEERING REPRESENTATIVE, CITY OF MUSCATINE PUBLIC WORKS (563-263-8933) PRIOR TO IMPLEMENTING CHANGES.
14. ADDITIONAL STANDARD MUTCD SIGNING WILL BE REQUIRED WHEN MORE THAN ONE AREA IS UNDER CONSTRUCTION AT ONE TIME.
15. CONTRACTOR SHALL RESTRICT PLACEMENT OF EQUIPMENT TO AREAS APPROVED BY THE CITY OF MUSCATINE. PAVEMENT OUTSIDE OF PROJECT SHALL BE PRESERVED. CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF PAVEMENT TO PRE-CONSTRUCTION CONDITION OR BETTER IF DAMAGE OCCURS DUE TO CONSTRUCTION ACTIVITIES. NO ADDITIONAL PAYMENT WILL BE MADE FOR RESTORATION OF PAVEMENT OUTSIDE OF WHAT IS SHOWN ON DRAWINGS.
16. MAINTAIN SINGLE LANE TRAFFIC ON FLETCHER AVE DURING SEWER WORK AND PAVEMENT PATCHING.
17. REFER TO SHEET J.02 FOR DETOUR ROUTE NARRATIVE.

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

TRAFFIC CONTROL

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 400'
NO. 17660.60.40
REV. 0
J.01

CADD D3-R5

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CONSTRUCTION STAGING NARRATIVE

MILESTONE 1 - NEWELL AVENUE AND LOGAN INTERSECTION AREA

STAGE 1

LOGAN STREET NORTH OF STAGE 1 IS AN ACTIVE CONSTRUCTION ZONE. PHASE 6D PIPE WORK BY OTHERS SHOULD BE COMPLETED BEFORE MAY 20, 2026. CONTRACTOR ACCESS ON LOGAN STREET NORTH OF STAGE 1 MAY BE LIMITED.

TEMPORARY PIPE CONNECTIONS TO EXISTING OR NEW SEWERS MAY BE NEEDED TO MAINTAIN SEWAGE FLOWS.

MINIMIZE DURATION OF CLOSURE OF NEIDIG AVENUE AND HIGH STREET INTERSECTIONS WITH NEWELL AVENUE. CONTRACTOR SHALL AVOID USING NEIDIG AVENUE AND HIGH STREET FOR HAULING EQUIPMENT OR MATERIALS TO THE PROJECT SITE.

STAGE 1.1

KEEP HAGERMAN DRIVE OPEN TO LOCAL TRAFFIC DURING CONSTRUCTION.

HAGERMAN DRIVE IS CURRENTLY CLOSED TO TRAFFIC AND IS AN UNPAVED CONSTRUCTION ZONE FOR PHASE 6D. PHASE 6D PAVEMENT BY OTHERS SHOULD BE COMPLETE BEFORE MAY 20, 2026.

MILESTONE 2 - NEWELL AVENUE WEST OF LOGAN STREET

STAGE 2.1 & STAGE 2.2

INTERSECTION OF NEWELL AVENUE AND LOGAN ST (STAGE 1) MUST BE PAVED AND OPEN TO TRAFFIC BEFORE BEGINNING STAGE 2.1.

COMPLETE STAGE 2.1 AND REOPEN THE DEVITT AVENUE AND NEWELL AVENUE INTERSECTION BEFORE CLOSING STAGE 2.2

STAGE 2.3

STAGE 2.3 MUST BE COMPLETED DURING SUMMER 2027. CONSTRUCTION OF STAGE SHALL NOT BEGIN BEFORE JUNE 1, 2027, AND BE COMPLETED BY AUGUST 6, 2027.

AVOID OPENING AND CLOSING THE KINDLER AVENUE AND NEWELL AVENUE INTERSECTION MORE THAN ONE TIME.

MILESTONE 3 - NEWELL AVENUE EAST OF LOGAN STREET

STAGE 3.1 AND STAGE 3.2 MUST NOT BEGIN UNTIL MILESTONE 1 AND 2 ARE COMPLETED.

AUTHORIZATION TO BEGIN STAGE 3.1 AT THE SAME TIME AS STAGE 2.1 WILL ONLY BE PERMITTED BY THE CITY IF CONTRACTOR HAS A WORKABLE PLAN TO COMPLETE CONCURRENT ACTIVITIES IN MILESTONE 2 AND MILESTONE 3 AREAS BY THE MILESTONE DATES.

STAGE 3.1

COMPLETE STAGE 3.1 PIPE AND PAVING WORK THROUGH THE NEWELL AVENUE AND MAIDEN LANE INTERSECTION PRIOR TO BEGINNING STAGE 3.2 OR STAGE 5.2.

MINIMIZE DURATION OF CLOSURE OF MAIDEN LANE INTERSECTION. KEEP OPEN UNTIL PIPE AND PAVING WORK IS IMPACTING THE INTERSECTION.

STAGE 3.2

COMPLETE STAGE 3.1 PAVING BEFORE SHUTTING DOWN THE STAGE 3.2 AREA DUE TO NO INTERSECTIONS OR SIDE STREET ACCESS WAYS OUT OF STAGE 3.1.

MILESTONE 4

STAGE 4.1 - CLIMER STREET

STAGE 4.1 CLIMER STREET WORK MUST NOT BEGIN UNTIL MILESTONES 1, 2, AND 3 ARE COMPLETED.

THE NEWELL AND LOGAN INTERSECTION SHALL NOT BE CLOSED AT THE SAME TIME AS THE CLIMER AND LOGAN INTERSECTION.

WORK TO CONNECT CLIMER STREET ADDRESSES TO NEW CLIMER STREET SANITARY SEWER SHALL BE COMPLETED BY MILESTONE 4.

STAGE 4.2 - LUCAS STREET

LUCAS STREET WORK (STAGE 4.2) CANNOT OCCUR WHEN NEWELL AVENUE WORK (MILESTONES 1,2, AND 3) IS OCCURING.

MINIMIZE DURATION LUCAS STREET IS CLOSED DOWN. PAVING MUST BE BEGIN SHORTLY AFTER THE PIPE WORK IS COMPLETED. AVOID OPENING AND CLOSING LUCAS STREET MORE THAN ONE TIME.

MILESTONE 5

WORK WITHIN STAGES 5.1, 5,2, 5.3 AND 5.4 IS NOT SEWER SEPARATION RELATED. WORK IS LOWER PRIORITY AND SHOULD ONLY BE STARTED IF CONTRACTOR IS MAKING ADEQUATE PROGRESS TOWARD MILESTONES 1, 2, 3 AND 4.

STAGE 5.1 - TERRACE HEIGHTS

MINIMIZE THE DURATION THE 2 DRIVEWAYS ON TERRACE HEIGHTS ARE IMPACTED BY CONSTRUCTION.

WORK CAN OCCUR ANY TIME DURING THE PROJECT TIMELINE. WORK SHALL OCCUR AFTER HAGERMAN DRIVE IS PAVED BY THE PHASE 6D CONTRACTOR IN 2026.

STAGE 5.2 - MAIDEN LANE

AVOID BEGINNING WORK ON MAIDEN LANE UNTIL AFTER STAGE 3.1 AND 3.2 ARE COMPLETED.

STAGE 5.3 - FLETCHER AVENUE

WORK CAN OCCUR ANY TIME. KEEP FLETCHER AVENUE OPEN TO THROUGH TRAFFIC. MANHOLE REPLACEMENT WORK SHALL OCCUR BEFORE PIPE LINING. RESTORE PAVEMENT WITH PATCHES IMMEDIATELY AFTER COMPLETION OF MANHOLE REPLACEMENT.

STAGE 5.4 -IOWA FIELD PIPE LINING

WORK CAN OCCUR ANY TIME. PERFORM WORK WHEN CONDITIONS ARE DRY AND HEAVY PRECIPITATION AND RUNOFF IS NOT ANTCIPATED.

LOGAN AND NEWELL SEWER CONSTRUCTION SUGGESTED STAGING SEQUENCE

1. CONSTRUCT SANITARY SEWER BETWEEN EX MH SSD20 AND NEW MH SSE1. CONFIRM WHAT TEMP CONNECTIONS (IF ANY) REMAIN AT EX MH SS20 FROM PHASE 6D.
2. TEMPORARY CONNECTION BETWEEN EXISTING MH SSD20 AND EX MH 4027 MAY REMAIN UNTIL FLOWS ARE REMOVED FROM UPSTREAM SEWERS. KEEP TEMPORARY CONNECTION UNTIL ANY STORM FLOWS ARE COMPLETELY REMOVED FROM SANITARY.
3. CONNECT TEMP CONNECTIONS TO MH SSE1 FROM NE (NEWELL NORTH COMBINED SEWER), SE (NEWELL SOUTH SANITARY SEWER), SE (LOGAN EAST SEWER) AND SW (LOGAN WEST SEWER). MAINTAIN SEWAGE FLOWS WITH TEMP CONNECTIONS UNTIL PERMANENT CONNECTIONS ARE MADE TO NEW SEWERS. DISCONNECT FLOWS FROM EXISTING 21-INCH COMBINED.
4. CONTINUE SANITARY TO MHS SSE1 AND MH SSE4 (EAST BRANCH). CONTINUE SANTIARY FROM SSE1 TO SSE2 (WEST BRANCH).
5. CONSTRUCT STORM SEWER FROM PH6D END POINT TO MH ST2. CONNECT TEMP CONNECTION TO ST2 FROM NE (NEWELL AVENUE NORTH COMBINED SEWER). FLOWS SHOULD BE REMOVED FROM EXISTING 21-INCH COMBINED ALLOWING INSTALLATION OF NEW STORM TO PROGRESS WITH REMOVAL OF 21-INCH AT PIPE CROSSING. IF NECESSARY, A TEMP CONNECTION COULD BE MADE BETWEEN MH ST2 AND MH SSE1 IF HEAVY RAIN EVENTS ARE EXPECTED.
6. CONSIDER PLUGGING OFF UPSTREAM EXISTING INLETS ON THE NEWELL AVENUE EAST BRANCH AS A POTENTIAL STORM WATER FLOW CONTROL MEASURE. INLETS AT NEWELL AND HIGH INTERSECTION (CB3720 AND CB3719) , CB3752 AT MAIDEN LANE INTERSECTION (SOUTH SIDE) AND AT THE END OF THE NEWELL EAST BRANCH SEWER (CB5317 AND CB5475) ARE ALREADY PLUGGED OFF. TWO INLETS AT MAIDEN LANE/NEWELL AVENUE INTERSECTION ARE NOT PLUGGED OFF.
7. SEVERAL EXISTING INLETS ON THE NEWELL AVENUE WEST BRANCH ARE PLUGGED OFF. CB3691 NEAR 1031 NEWELL AVE (NORTH SIDE), CB3694 NEAR DEVITT AVENUE (SOUTH SIDE), AND CB5465 NEAR LOGAN (NORTH SIDE) WHICH IS PLUGGED WITH SILT. NINE INLETS ON THIS WEST BRANCH ARE NOT BELIEVED TO BE PLUGGED OFF. PLUGGING OFF INLETS ON NEWELL WEST BRANCH TO CONTROL STORM FLOW IS NOT ADVISED.
8. CONTINUE SANITARY SEWER INSTALLATION FROM MHSSE2 TO MHSSE17 ON THE WEST BRANCH OF NEWELL.
9. CONTINUE STORM SEWER INSTALLATION FROM MHST2 TO ST11 ON THE WEST BRANCH OF NEWELL.
10. IF NECESSARY, A TEMP CONNECTION COULD BE MADE BETWEEN MH ST 10 AND MH SSE16 IF HEAVY RAIN EVENTS ARE EXPECTED.
11. INSTALL NEWELL EAST BRANCH SEWERS TO HIGH STREET.
12. INSTALL LOGAN STREET SEWER TOWARD CLIMER.
13. INSTALL WATER MAIN ON LOGAN.
14. FINISH OFF ANY REMAINING WORK IN STAGE 1 AREA.
15. REMOVE OR PLUG OFF TEMP CONNECTIONS AFTER UPSTREAM SANITARY AND STORM FLOWS ARE CONNECTED TO THE PROPER SEWERS ON NEWELL AVENUE.

TRAFFIC CONTROL NARRATIVE

STAGE 1

DETOUR AROUND NEWELL AND LOGAN INTERSECTION FROM THE NORTH SHALL BE FROM LOGAN, TO PINEFIELD TO DEVITT. AFTER DEVITT IS CLOSED IN PHASE 6D, DETOUR SHOULD BE SWITCHED TO FULLIAM TO HOUSER.

STAGE 1.1

KEEP HAGERMAN DRIVE OPEN TO RESIDENTS. ANY CLOSURES SHOULD BE LIMITED TO ONE LANE CLOSURES.

STAGES 2.1, 2.2, 3.1, 3.2

DETOUR FOR NEWELL AVENUE THROUGH TRAFFIC SHALL BE LUCAS STREET OR FULLIAM AVENUE. LOGAN AND NEWELL INTERSECTION IS OPEN TO TRAFFIC. CLIMER STREET CAN BE USED FOR EAST/WEST TRAFFIC.

STAGE 4.1

WITH CLIMER STREET CLOSED, USE NEWELL AVENUE FOR EAST/WEST TRAFFIC. WHEN CLIMER AND LOGAN INTERSECTION IS CLOSED, NORTH/SOUTH TRAFFIC SHALL DETOUR AROUND FROM LUCAS TO NEWELL, OR FROM LOGAN TO NEWELL.

STAGE 4.2

LUCAS STREET AT THE CHAPEL WILL BE CLOSED. WESTBOUND TRAFFIC ON LUCAS STREET SHALL DETOUR AROUND TO W 8TH STREET TO NEWELL AVENUE. EASTBOUND TRAFFIC ON LUCAS SHALL DETOUR AROUND LUCAS BY MEANS OF NEWELL AND LOGAN.

STAGE 5.1

TERRACE HEIGHTS CLOSURE IMPACT IS LOCAL RESIDENTS ONLY. TERRACE HEIGHTS CLOSED TO THROUGH TRAFFIC AT LORENZ.

STAGE 5.2

MAIDEN LANE CLOSURE. TRAFFIC FROM ROSCOE SHALL CONTINUE NORTH OR SOUTH ON ROSCOE INSTEAD OF USING MAIDEN LANE. TRAFFIC FROM NEWELL SHALL CONTINUE ON NEWELL TO BROADWAY.

STAGE 5.3

FLETCHER AVENUE CLOSURE IS LIMITED TO ONE LANE. THROUGH TRAFFIC SHOULD AVOID THE AREA.

STAGE 5.4

IOWA AVENUE MAY BE TEMPORARY CLOSED NEAR EAST 11TH FOR A SHORT DURATION. IOWA AVENUE TRAFFIC HEADING NORTH SHALL DETOUR TO W 11TH ST AND THEN TO ROSCOE AVENUE. IOWA AVENUE TRAFFIC HEADING SOUTH FROM FULLIAM SHALL USE ROSCOE OR CEDAR STREET TO AVOID IOWA AVENUE.

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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225 Iowa Avenue, Muscatine, Iowa 52761-3764
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

CONSTRUCTION STAGING NARRATIVE

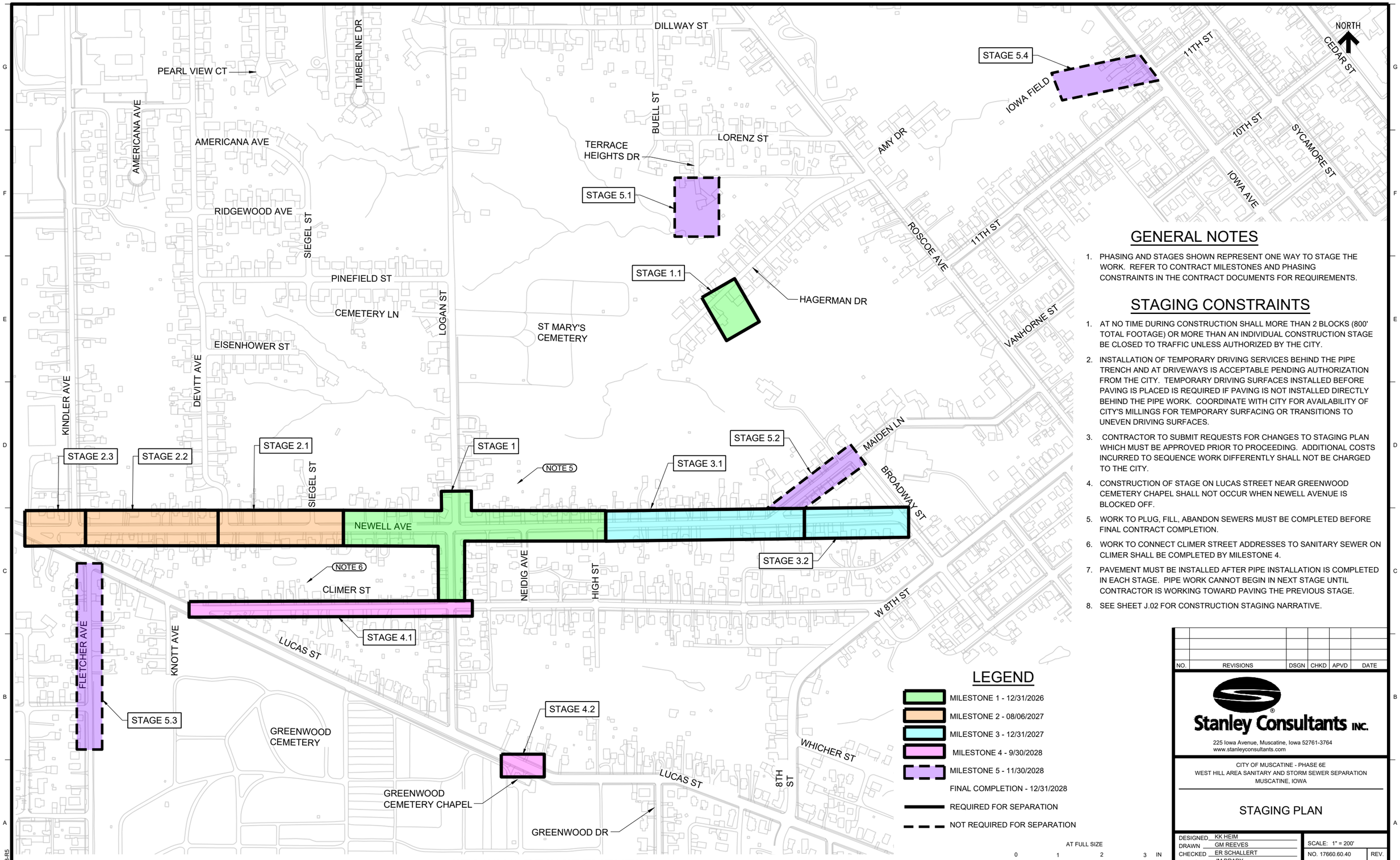
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	PM JOHNSON
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: NONE

NO. 17660.60.40	REV.
J.02	0

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GENERAL NOTES

1. PHASING AND STAGES SHOWN REPRESENT ONE WAY TO STAGE THE WORK. REFER TO CONTRACT MILESTONES AND PHASING CONSTRAINTS IN THE CONTRACT DOCUMENTS FOR REQUIREMENTS.

STAGING CONSTRAINTS

1. AT NO TIME DURING CONSTRUCTION SHALL MORE THAN 2 BLOCKS (800' TOTAL FOOTAGE) OR MORE THAN AN INDIVIDUAL CONSTRUCTION STAGE BE CLOSED TO TRAFFIC UNLESS AUTHORIZED BY THE CITY.
2. INSTALLATION OF TEMPORARY DRIVING SERVICES BEHIND THE PIPE TRENCH AND AT DRIVEWAYS IS ACCEPTABLE PENDING AUTHORIZATION FROM THE CITY. TEMPORARY DRIVING SURFACES INSTALLED BEFORE PAVING IS PLACED IS REQUIRED IF PAVING IS NOT INSTALLED DIRECTLY BEHIND THE PIPE WORK. COORDINATE WITH CITY FOR AVAILABILITY OF CITY'S MILLINGS FOR TEMPORARY SURFACING OR TRANSITIONS TO UNEVEN DRIVING SURFACES.
3. CONTRACTOR TO SUBMIT REQUESTS FOR CHANGES TO STAGING PLAN WHICH MUST BE APPROVED PRIOR TO PROCEEDING. ADDITIONAL COSTS INCURRED TO SEQUENCE WORK DIFFERENTLY SHALL NOT BE CHARGED TO THE CITY.
4. CONSTRUCTION OF STAGE ON LUCAS STREET NEAR GREENWOOD CEMETERY CHAPEL SHALL NOT OCCUR WHEN NEWELL AVENUE IS BLOCKED OFF.
5. WORK TO PLUG, FILL, ABANDON SEWERS MUST BE COMPLETED BEFORE FINAL CONTRACT COMPLETION.
6. WORK TO CONNECT CLIMER STREET ADDRESSES TO SANITARY SEWER ON CLIMER SHALL BE COMPLETED BY MILESTONE 4.
7. PAVEMENT MUST BE INSTALLED AFTER PIPE INSTALLATION IS COMPLETED IN EACH STAGE. PIPE WORK CANNOT BEGIN IN NEXT STAGE UNTIL CONTRACTOR IS WORKING TOWARD PAVING THE PREVIOUS STAGE.
8. SEE SHEET J.02 FOR CONSTRUCTION STAGING NARRATIVE.

LEGEND

- MILESTONE 1 - 12/31/2026
- MILESTONE 2 - 08/06/2027
- MILESTONE 3 - 12/31/2027
- MILESTONE 4 - 9/30/2028
- MILESTONE 5 - 11/30/2028
- FINAL COMPLETION - 12/31/2028
- REQUIRED FOR SEPARATION
- NOT REQUIRED FOR SEPARATION

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

STAGING REQUIREMENTS

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MUSCATINE, IOWA

STAGING PLAN

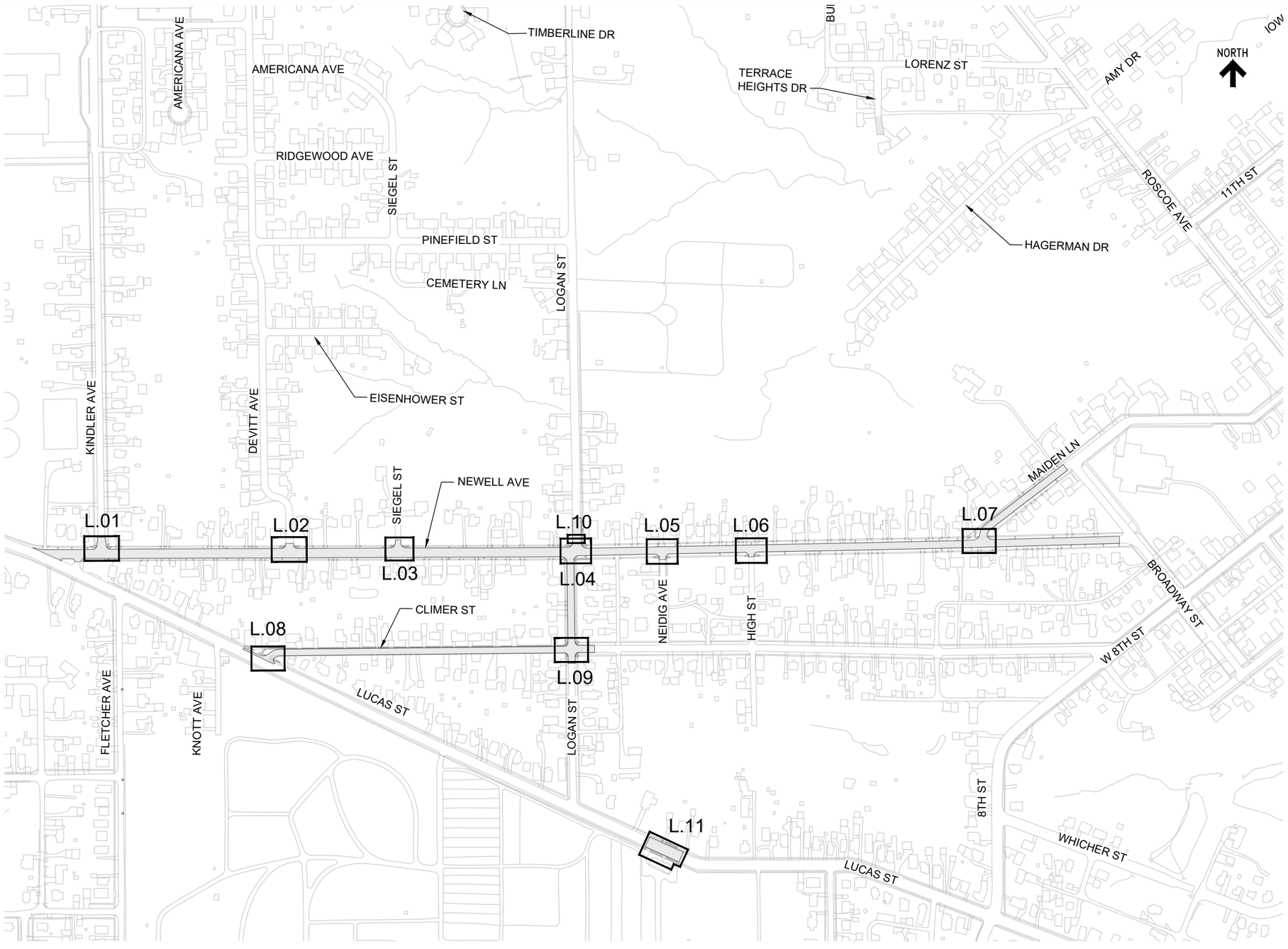
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 200'
NO. 17660.60.40
REV. C
J.03

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GENERAL NOTES



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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MUSCATINE, IOWA

OVERALL SITE JOINTING KEY PLAN

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

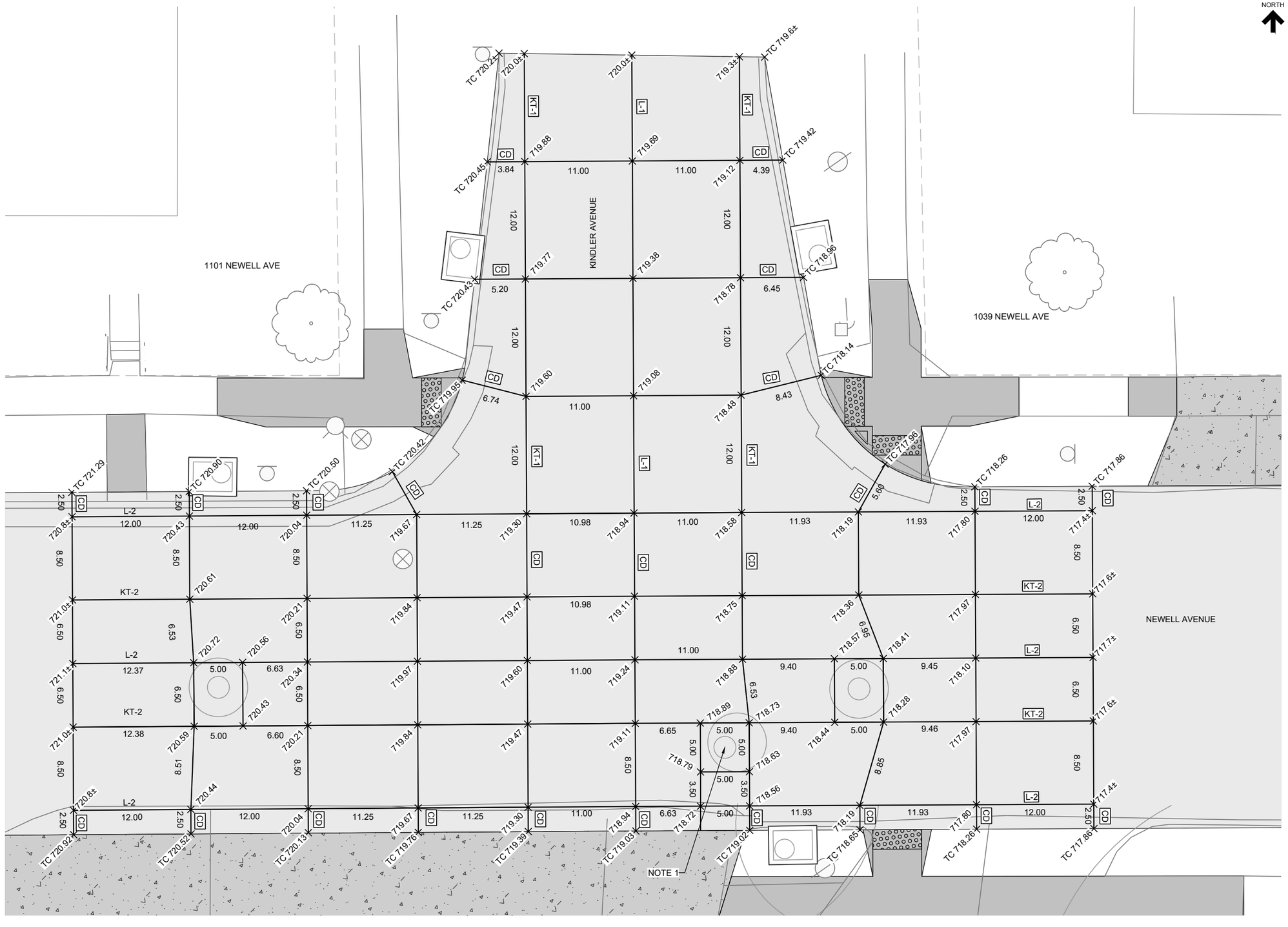
SCALE: AS NOTED

NO. 17660.60.40 | REV.

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I:CADD D3-R5

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NOTES

1. ROTATE ECCENTRIC CONE SECTION OF SANITARY MANHOLE AND PLACE CASTING AS SHOWN ON JOINTING PLAN AT INTERSECTION

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MUSCATINE, IOWA

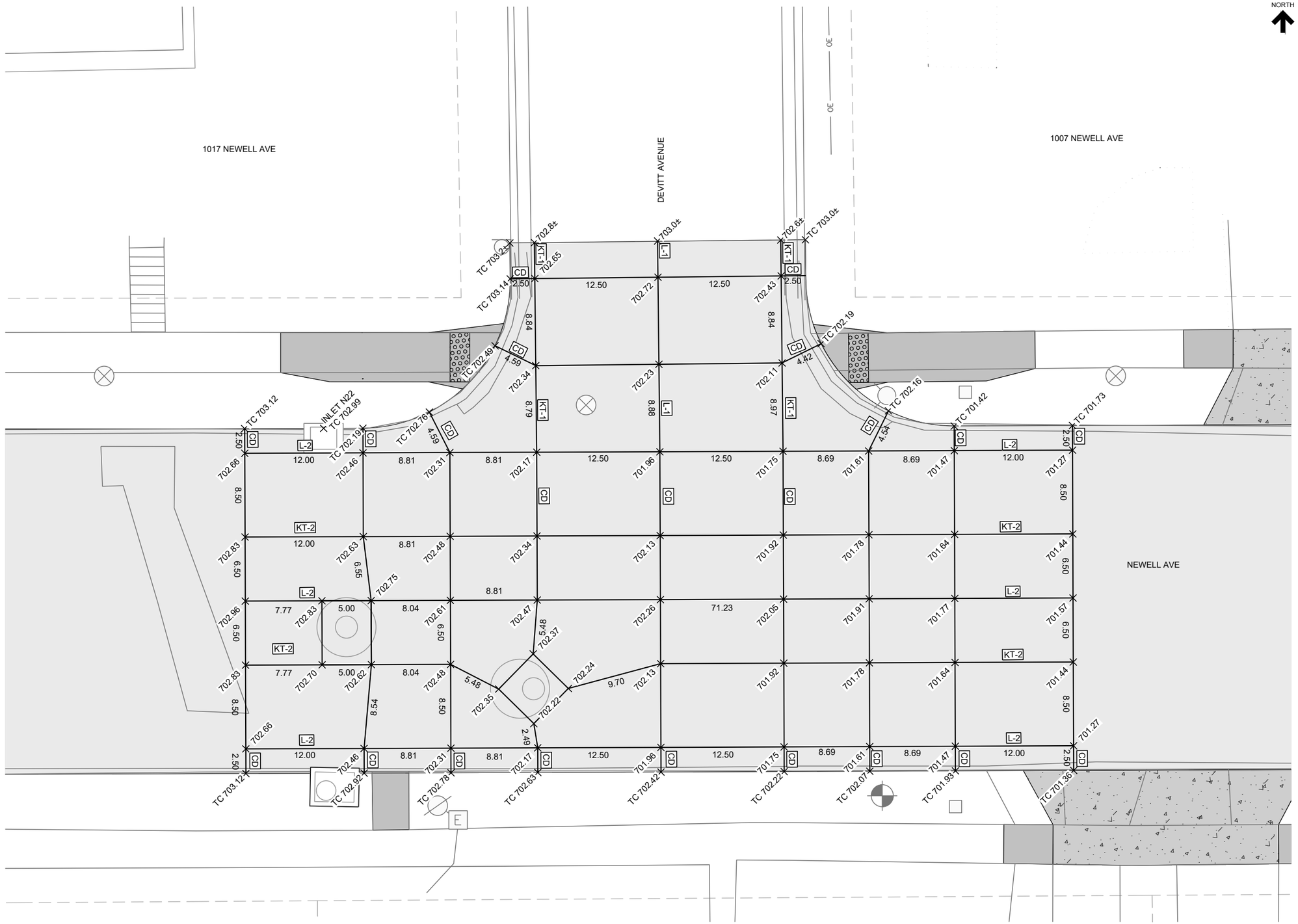
JOINTING PLANS
KINDLER AVE & NEWELL AVE INTERSECTION

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 5'
NO. 17660.60.40
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MUSCATINE, IOWA

JOINTING PLANS
NEWELL AVE & DEVITT AVE INTERSECTION

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

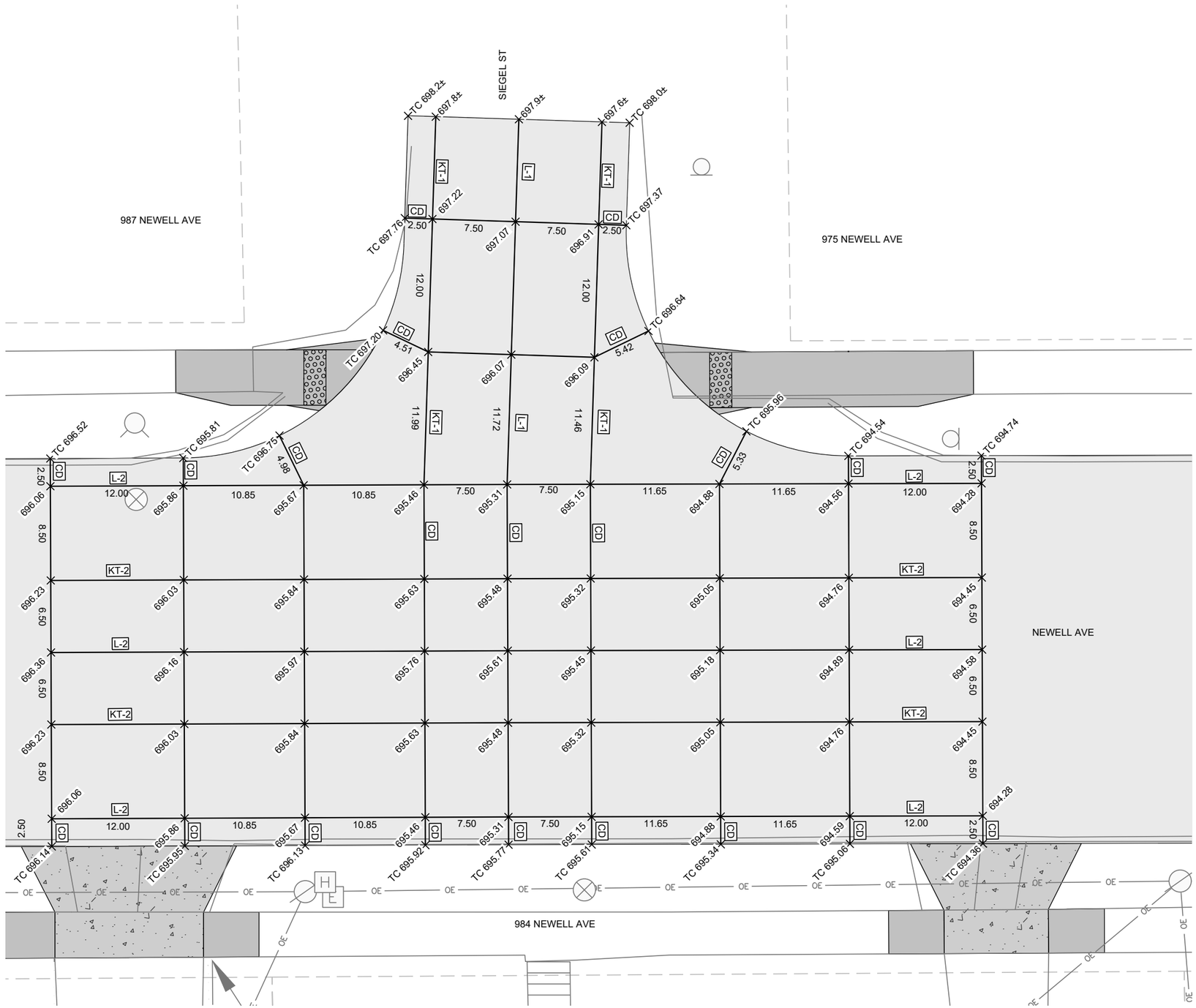
SCALE: 1" = 5'

NO. 17660.60.40 | REV. 0

L.02

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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JOINTING PLANS NEWELL AVE & SIEGEL ST INTERSECTION

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SCALE: 1" = 5'

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REV. 0

L.03

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FOR CONTINUATION SEE SHEET L.10



NOTES

1. ROTATE ECCENTRIC CONE SECTION OF SANITARY MANHOLE AND PLACE CASTING AS SHOWN ON JOINTING PLAN AT INTERSECTION

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JOINTING PLANS
NEWELL AVE & LOGAN ST INTERSECTION

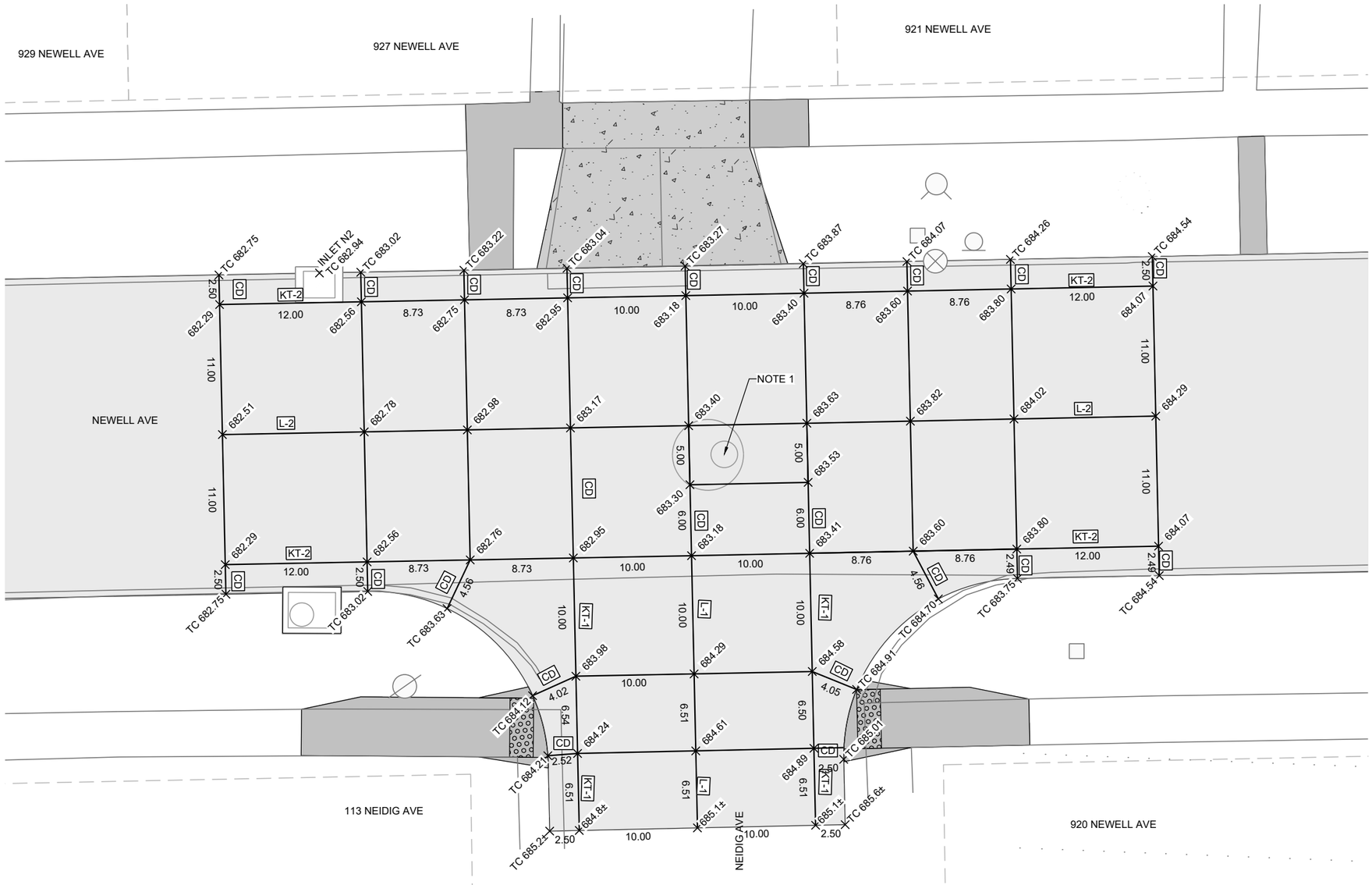
AT FULL SIZE
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0 1 2 3 4 5 6 7 8 cm

DESIGNED	PM JOHNSON
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APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 5'
NO. 17660.60.40
REV. 0
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NOTES

1. ROTATE ECCENTRIC CONE SECTION OF SANITARY MANHOLE AND PLACE CASTING AS SHOWN ON JOINTING PLAN AT INTERSECTION

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MUSCATINE, IOWA

JOINTING PLANS
NEWELL AVE & NEIDIG AVE INTERSECTION

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

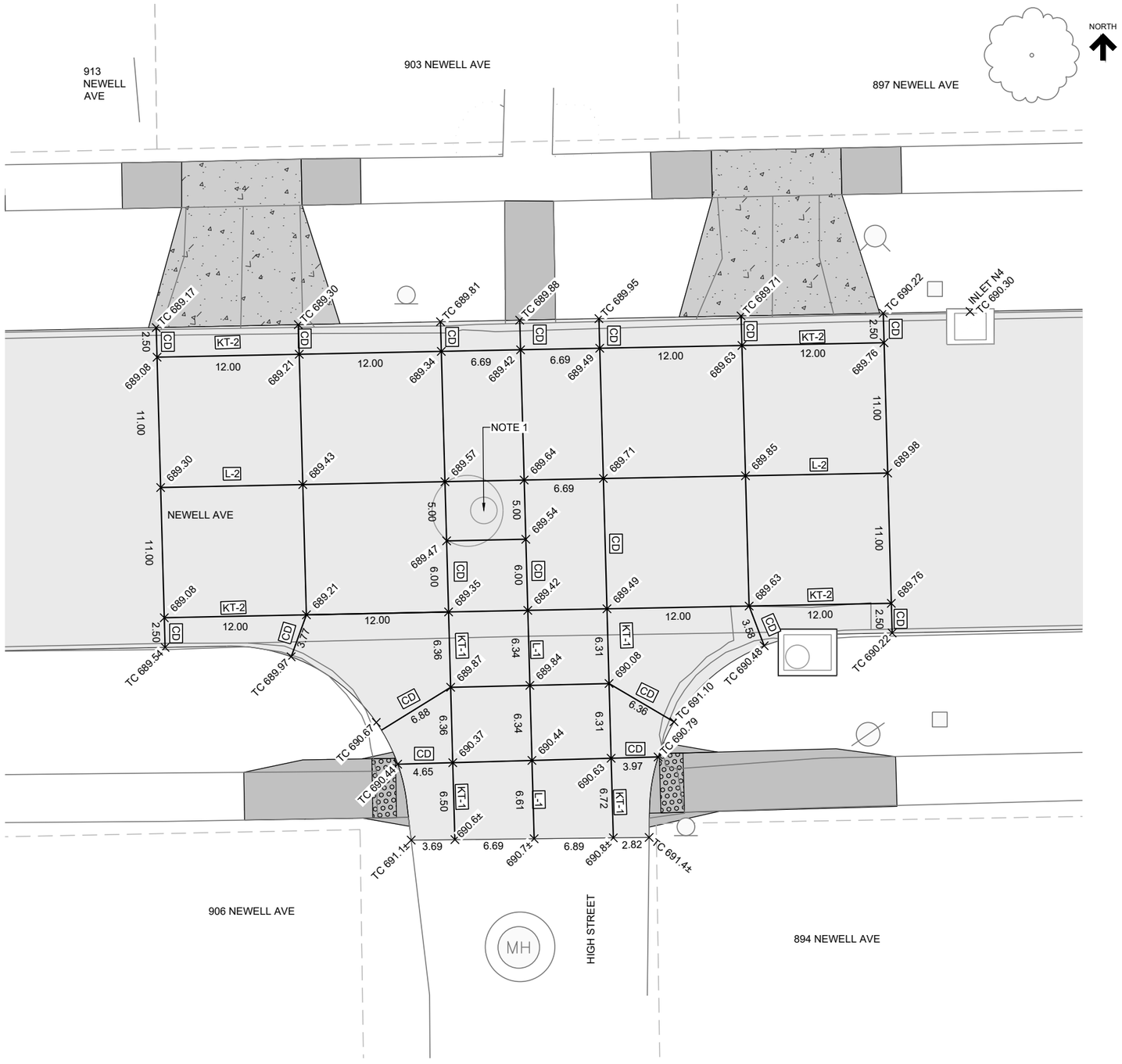
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APPROVED	PM JOHNSON
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1. ROTATE ECCENTRIC CONE SECTION OF SANITARY MANHOLE AND PLACE CASTING AS SHOWN ON JOINTING PLAN AT INTERSECTION

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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MUSCATINE, IOWA

JOINTING PLANS NEWELL AVE & HIGH ST INTERSECTION

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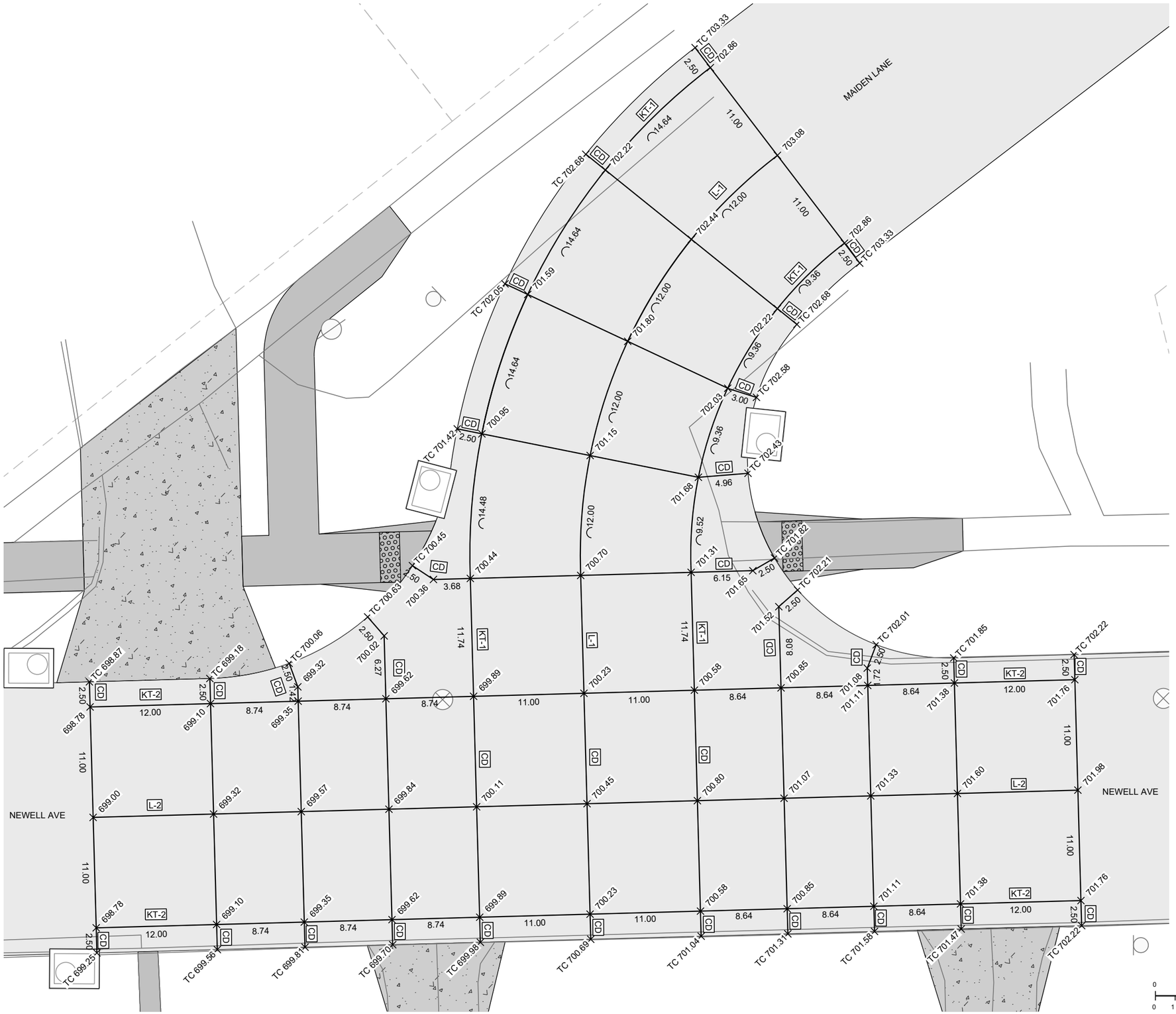
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MUSCATINE, IOWA

JOINTING PLANS
NEWELL AVE & MAIDEN LANE INTERSECTION

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APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 5'

NO. 17660.60.40	REV.
L.07	0

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NORTH

CLIMER STREET

LUCAS STREET

2123 LUCAS STREET

FOR CONTINUATION SEE INSET BELOW

FOR CONTINUATION SEE ABOVE LEFT

KT-1

L-1

CD

TC 709.65 TC 709.68 TC 710.01 TC 709.94 TC 709.41 TC 709.38 TC 709.33 TC 709.29 TC 709.55 TC 709.45 TC 709.35

TC 709.98 TC 709.76 TC 710.03 TC 710.0±

709.7± 709.64 709.53 709.39 709.42 709.57 709.48 709.30 709.45 709.24 709.19 709.09 709.20 709.29 709.44 709.99 708.89

6.51 6.41 4.60 7.51 2.50 14.93 13.68 12.24 12.03 12.07 11.78 5.34 6.70 6.63 17.17 14.40 12.00 9.60 10.00 4.27 5.33 2.75 9.52 3.09 9.90 4.47

NORTH

TC 709.5± TC 709.55 TC 709.61 TC 709.65

709.6± 709.7± 709.8±

6.48 6.37 6.51

LUCAS STREET

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

JOINTING PLANS
CLIMER ST & LUCAS ST INTERSECTION

DESIGNED	PM JOHNSON
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APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 5'

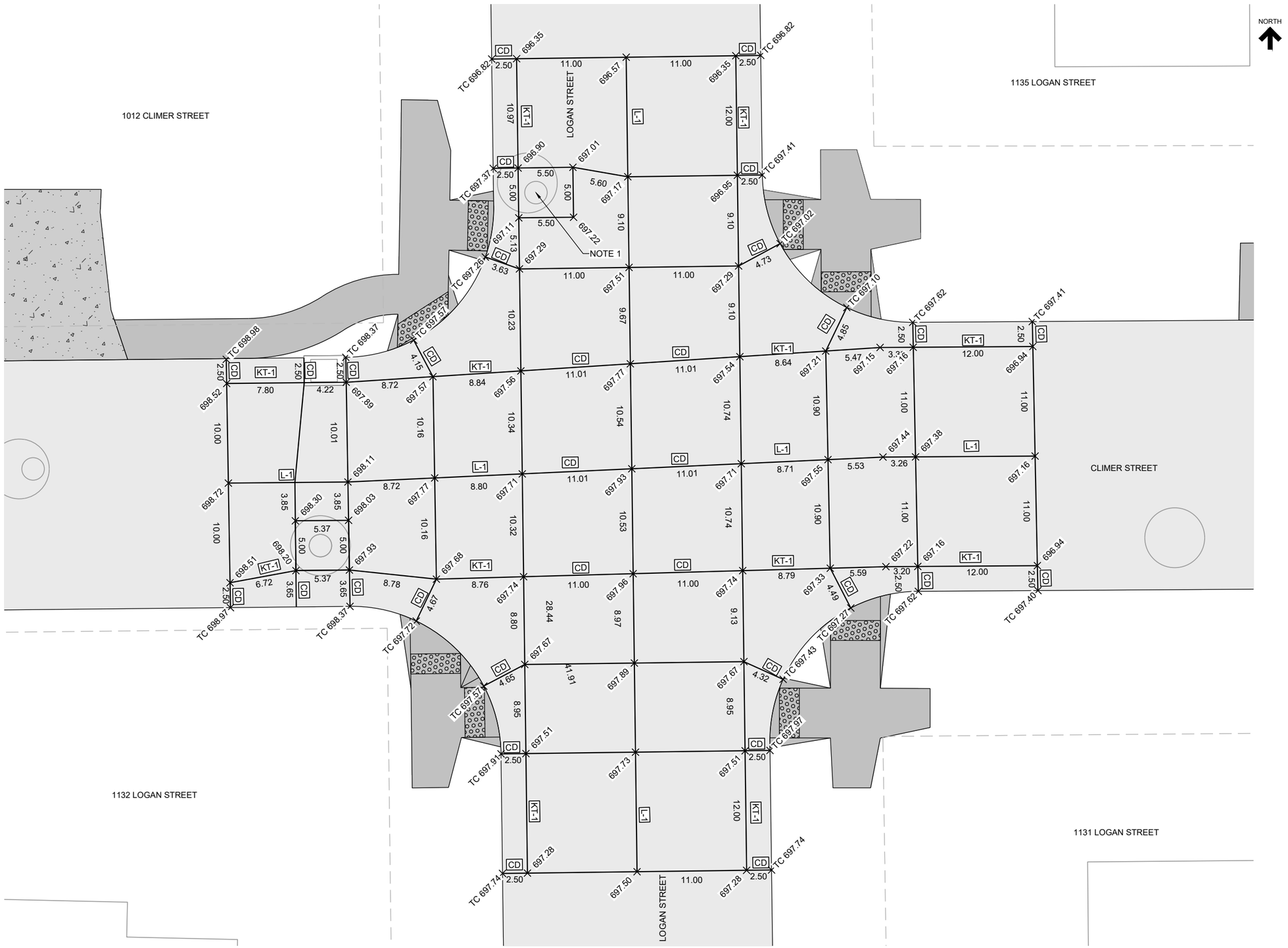
NO. 17660.60.40

REV. 0

L.08

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NOTES

1. ROTATE ECCENTRIC CONE SECTION OF SANITARY MANHOLE AND PLACE CASTING AS SHOWN ON JOINTING PLAN AT INTERSECTION

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

JOINTING PLANS CLIMER ST & LOGAN ST INTERSECTION

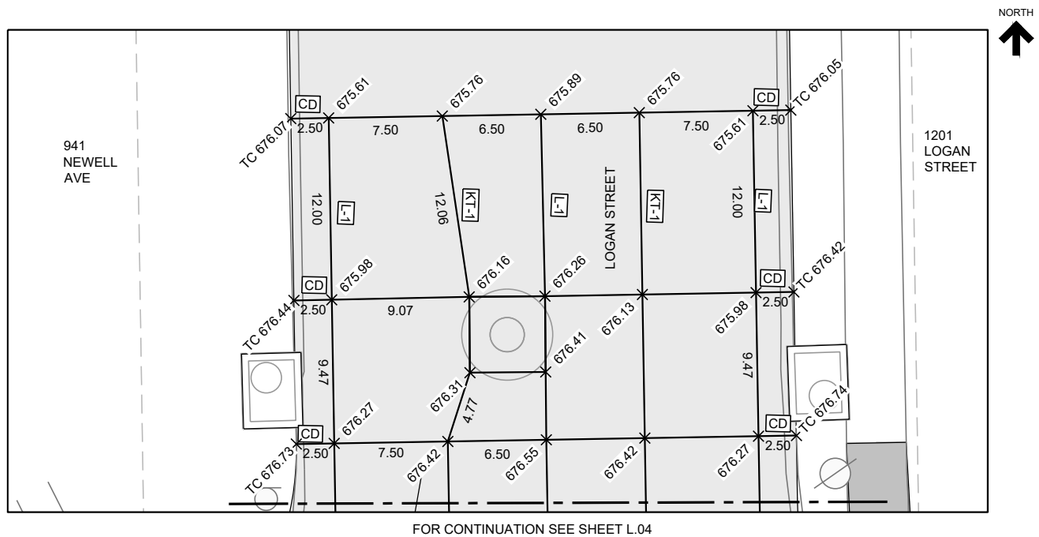
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 5'

NO. 17660.60.40 | REV. L.09 | 0

AT FULL SIZE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

JOINTING PLANS
NEWELL & LOGAN ST
INTERSECTION CONT.

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 5'

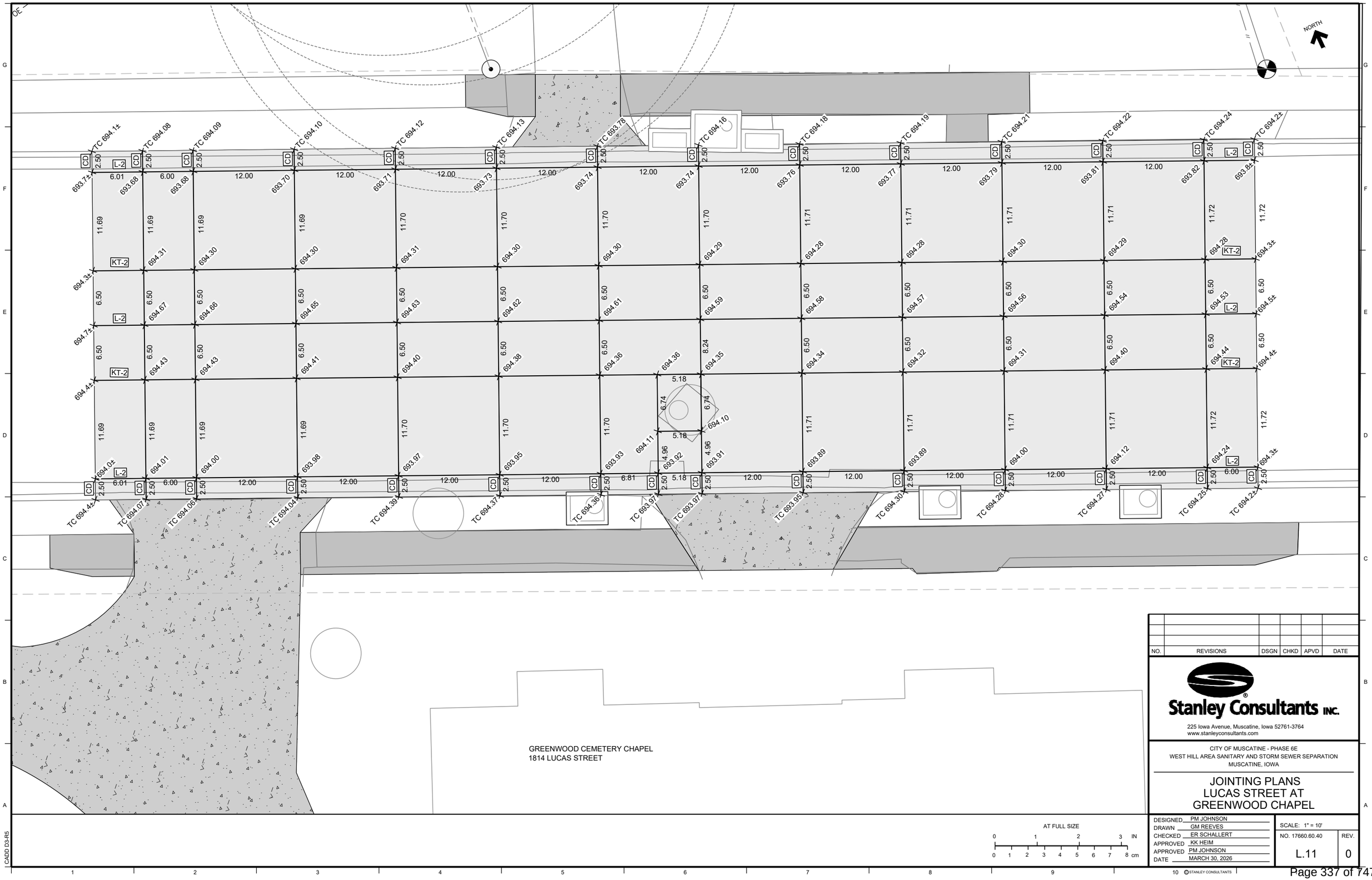
NO. 17660.60.40	REV.
L.10	0

AT FULL SIZE

0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
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MUSCATINE, IOWA

JOINTING PLANS
LUCAS STREET AT GREENWOOD CHAPEL

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

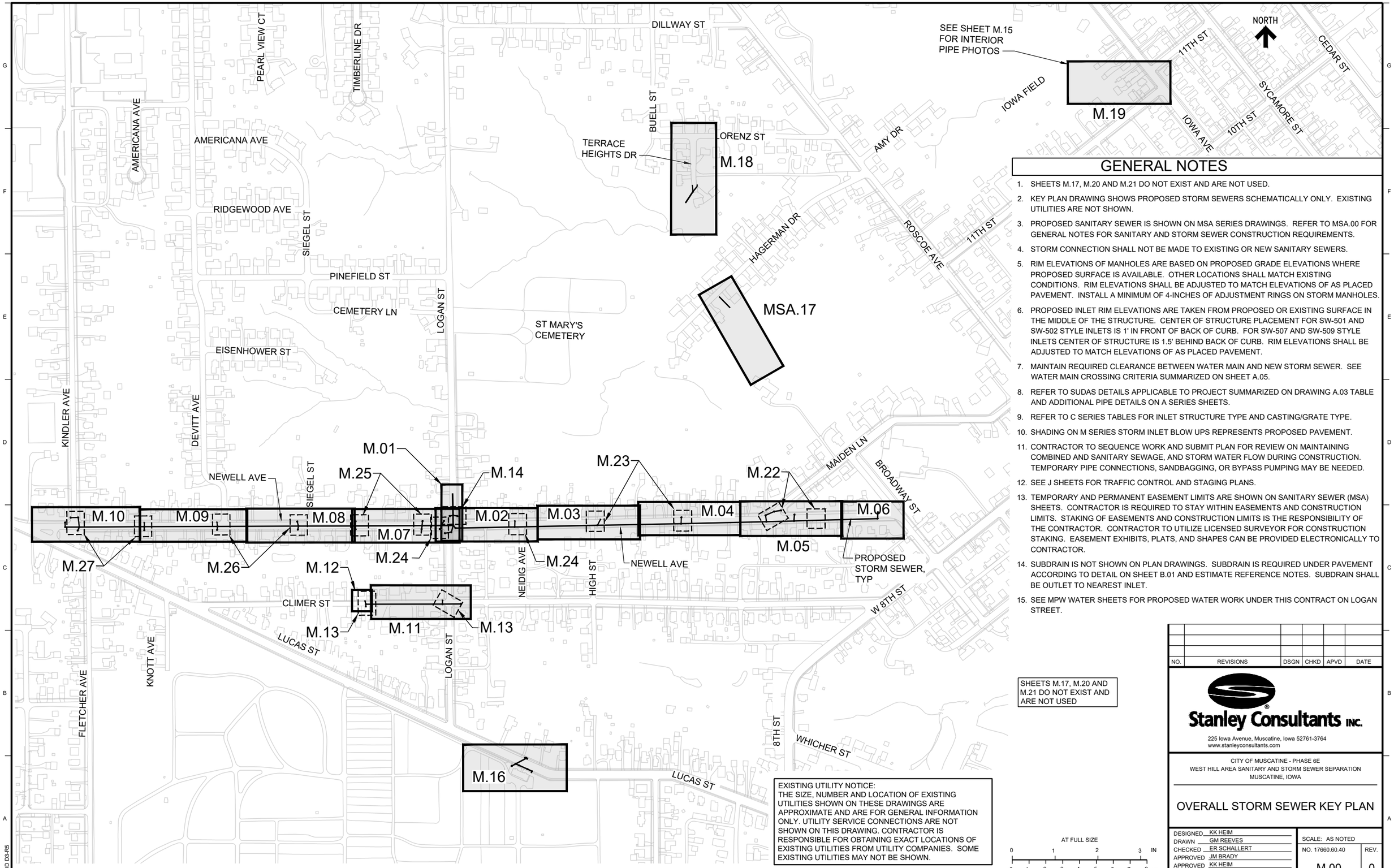
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DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 10'

NO. 17660.60.40	REV.
L.11	0

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GENERAL NOTES

1. SHEETS M.17, M.20 AND M.21 DO NOT EXIST AND ARE NOT USED.
2. KEY PLAN DRAWING SHOWS PROPOSED STORM SEWERS SCHEMATICALLY ONLY. EXISTING UTILITIES ARE NOT SHOWN.
3. PROPOSED SANITARY SEWER IS SHOWN ON MSA SERIES DRAWINGS. REFER TO MSA.00 FOR GENERAL NOTES FOR SANITARY AND STORM SEWER CONSTRUCTION REQUIREMENTS.
4. STORM CONNECTION SHALL NOT BE MADE TO EXISTING OR NEW SANITARY SEWERS.
5. RIM ELEVATIONS OF MANHOLES ARE BASED ON PROPOSED GRADE ELEVATIONS WHERE PROPOSED SURFACE IS AVAILABLE. OTHER LOCATIONS SHALL MATCH EXISTING CONDITIONS. RIM ELEVATIONS SHALL BE ADJUSTED TO MATCH ELEVATIONS OF AS PLACED PAVEMENT. INSTALL A MINIMUM OF 4-INCHES OF ADJUSTMENT RINGS ON STORM MANHOLES.
6. PROPOSED INLET RIM ELEVATIONS ARE TAKEN FROM PROPOSED OR EXISTING SURFACE IN THE MIDDLE OF THE STRUCTURE. CENTER OF STRUCTURE PLACEMENT FOR SW-501 AND SW-502 STYLE INLETS IS 1' IN FRONT OF BACK OF CURB. FOR SW-507 AND SW-509 STYLE INLETS CENTER OF STRUCTURE IS 1.5' BEHIND BACK OF CURB. RIM ELEVATIONS SHALL BE ADJUSTED TO MATCH ELEVATIONS OF AS PLACED PAVEMENT.
7. MAINTAIN REQUIRED CLEARANCE BETWEEN WATER MAIN AND NEW STORM SEWER. SEE WATER MAIN CROSSING CRITERIA SUMMARIZED ON SHEET A.05.
8. REFER TO SUDAS DETAILS APPLICABLE TO PROJECT SUMMARIZED ON DRAWING A.03 TABLE AND ADDITIONAL PIPE DETAILS ON A SERIES SHEETS.
9. REFER TO C SERIES TABLES FOR INLET STRUCTURE TYPE AND CASTING/GRATE TYPE.
10. SHADING ON M SERIES STORM INLET BLOW UPS REPRESENTS PROPOSED PAVEMENT.
11. CONTRACTOR TO SEQUENCE WORK AND SUBMIT PLAN FOR REVIEW ON MAINTAINING COMBINED AND SANITARY SEWAGE, AND STORM WATER FLOW DURING CONSTRUCTION. TEMPORARY PIPE CONNECTIONS, SANDBAGGING, OR BYPASS PUMPING MAY BE NEEDED.
12. SEE J SHEETS FOR TRAFFIC CONTROL AND STAGING PLANS.
13. TEMPORARY AND PERMANENT EASEMENT LIMITS ARE SHOWN ON SANITARY SEWER (MSA) SHEETS. CONTRACTOR IS REQUIRED TO STAY WITHIN EASEMENTS AND CONSTRUCTION LIMITS. STAKING OF EASEMENTS AND CONSTRUCTION LIMITS IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR TO UTILIZE LICENSED SURVEYOR FOR CONSTRUCTION STAKING. EASEMENT EXHIBITS, PLATS, AND SHAPES CAN BE PROVIDED ELECTRONICALLY TO CONTRACTOR.
14. SUBDRAIN IS NOT SHOWN ON PLAN DRAWINGS. SUBDRAIN IS REQUIRED UNDER PAVEMENT ACCORDING TO DETAIL ON SHEET B.01 AND ESTIMATE REFERENCE NOTES. SUBDRAIN SHALL BE OUTLET TO NEAREST INLET.
15. SEE MPW WATER SHEETS FOR PROPOSED WATER WORK UNDER THIS CONTRACT ON LOGAN STREET.

SHEETS M.17, M.20 AND M.21 DO NOT EXIST AND ARE NOT USED

EXISTING UTILITY NOTICE:
THE SIZE, NUMBER AND LOCATION OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND ARE FOR GENERAL INFORMATION ONLY. UTILITY SERVICE CONNECTIONS ARE NOT SHOWN ON THIS DRAWING. CONTRACTOR IS RESPONSIBLE FOR OBTAINING EXACT LOCATIONS OF EXISTING UTILITIES FROM UTILITY COMPANIES. SOME EXISTING UTILITIES MAY NOT BE SHOWN.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

OVERALL STORM SEWER KEY PLAN

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

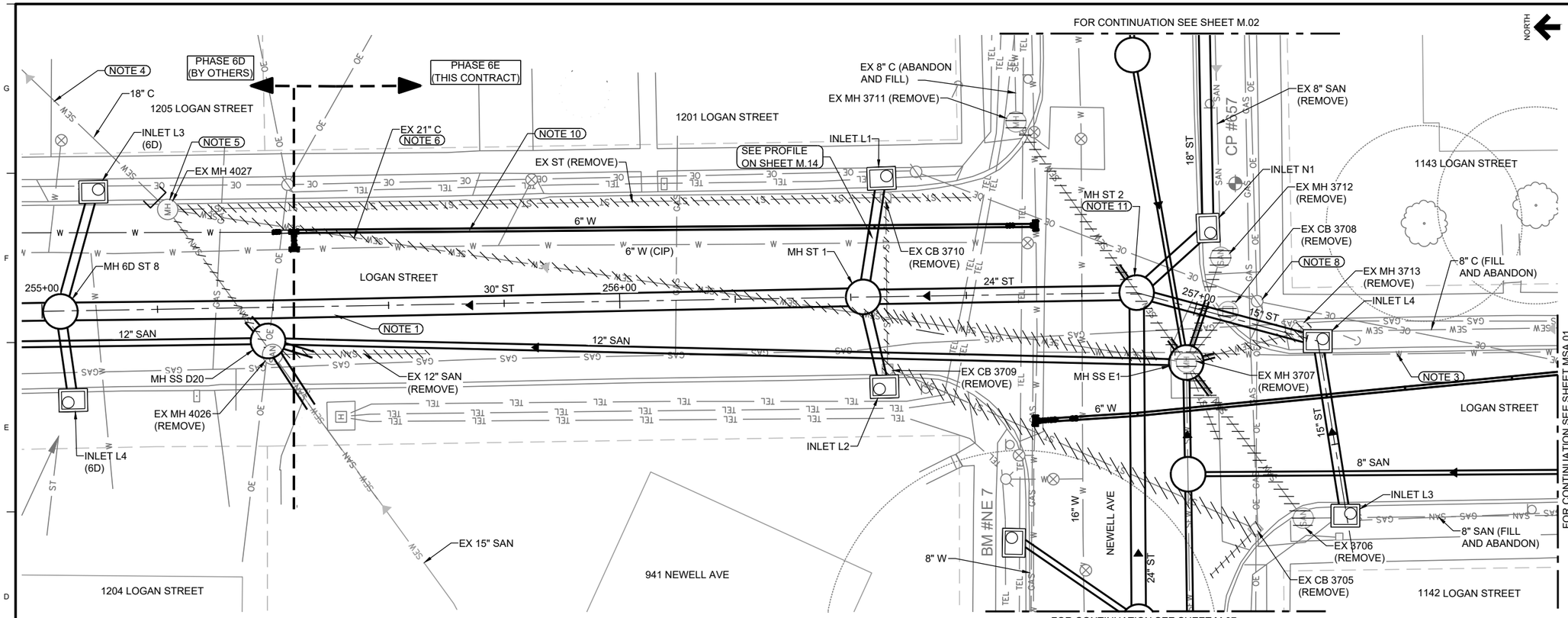
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

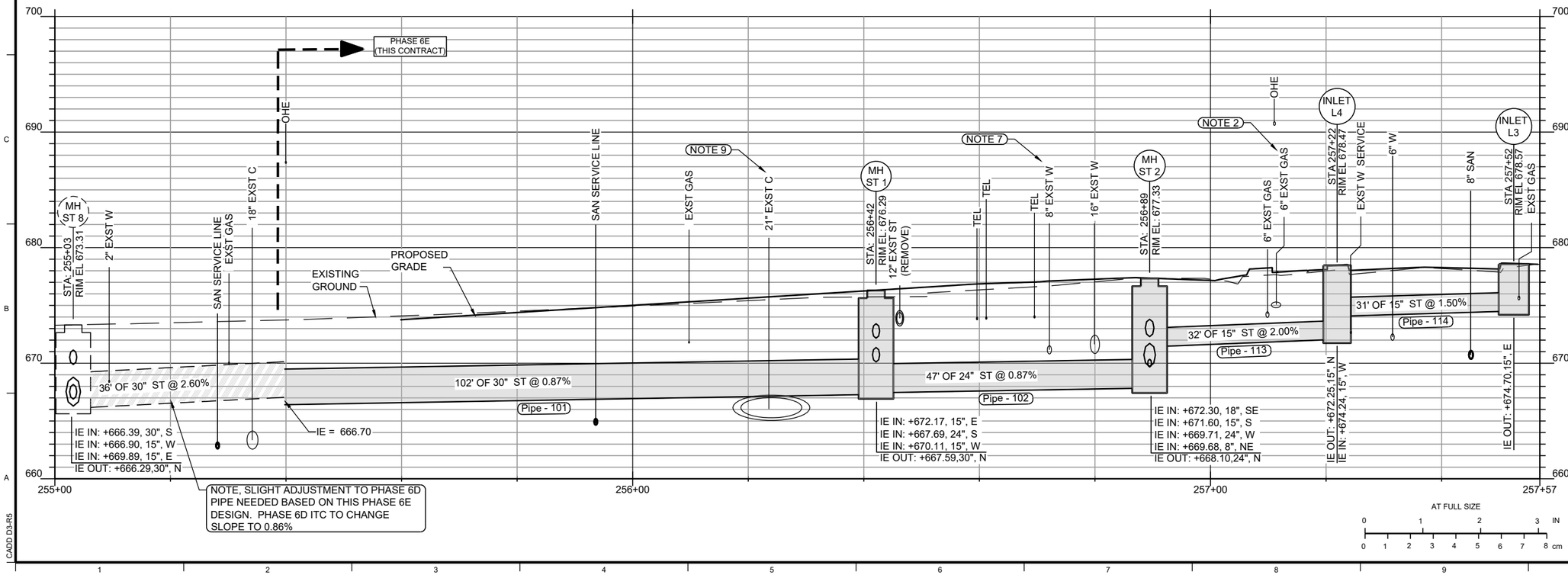
SCALE: AS NOTED

NO. 17660.60.40	REV.
M.00	0

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. PHASE 6D PLANS SHOW 36' OF STORM SEWER INSTALLATION SOUTH OF MH 6D ST 8. LOCATE END OF PIPE INSTALLED IN PHASE 6D (BY OTHERS). REMOVE PIPE PLUG AND CONTINUE INSTALLATION OF NEW STORM SEWER.
2. PROTECT EXISTING GAS. COORDINATE WITH GAS COMPANY ON SUPPORTING LINE OR RELOCATION.
3. CONFIRM LOCATION OF EXISTING WATER LINE. MPW MAPPING DOES NOT SHOW 1-INCH WATER EXTENDING TO INTERSECTION.
4. SEE SHEET MSA.23 FOR CONTINUATION. PLUG AND FILL EXISTING 18-INCH COMBINED SEWER AFTER DISCONNECTING UPSTREAM SEWERS.
5. MAINTAIN CONNECTIONS TO EXISTING MH 4027 UNTIL ALL UPSTREAM FLOWS ARE SEPARATED AND CONNECTED TO NEW STORM OR SANITARY SEWERS. MANHOLE SHALL BE PLUGGED OFF AND REMOVED OR PLUGGED, FILLED AND ABANDONED IN PLACE DEPENDING ON PROGRESS OF PAVEMENT PLACEMENT IN PHASE 6D AND PHASE 6E.
6. EXISTING 21" C TO REMAIN ACTIVE UNTIL ALL UPSTREAM CONNECTED SEWERS ARE CONNECTED TO NEW SANITARY AND STORM SEWERS ON LOGAN STREET.
7. PROTECT EXISTING WATER LINES. COORDINATE PROTECTION WITH MPW. MAINTAIN A MINIMUM OF 6-INCHES OF CLEARANCE BETWEEN BOTTOM OF EXISTING WATER MAIN AND TOP OF NEW STORM SEWER.
8. PROTECT POLE. COORDINATE WITH UTILITY OWNER ON SUPPORTING OR RELOCATING POLE.
9. INSTALLATION OF NEW STORM SEWER WILL REQUIRE PRIOR REMOVAL OF EXISTING 21-INCH COMBINED SEWER WHICH CONVEYS THE EXISTING FLOWS FROM ALL OF NEWELL AVENUE AND SEWER BRANCH CONTRIBUTIONS FROM LOGAN ST, KINDLER AVE, AND MAIDEN LANE. TO MANAGE EXISTING FLOWS FIRST CONSTRUCT SANITARY SEWER ON LOGAN STREET TO NEW MH SS E1 AND TEMPORARILY CONNECT EXISTING SEWERS TO SS E1 AT NEWELL INTERSECTION.
10. SEE MPW PLANS FOR WATER MAIN WORK TO BE INSTALLED BY CITY'S PHASE 6E CONTRACTOR ON LOGAN STREET.
11. TEMPORARY CONNECTION TO 8-INCH COMBINED SEWER IS SHOWN AT MH ST2. THE SAME TEMPORARY CONNECTION IS SHOWN CONNECTED TO MH SS E1. IF TEMPORARY CONNECTION IS CAST OR CORED INTO MH ST 2 OR SS E1, TEMPORARY CONNECTION MUST BE PERMANENTLY PLUGGED OFF FORMING A WATER TIGHT SEAL. IF POSSIBLE AVOID CASTING OR CORIING TEMPORARY CONNECTION INTO NEW MHS FOR FLOW STAGING.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

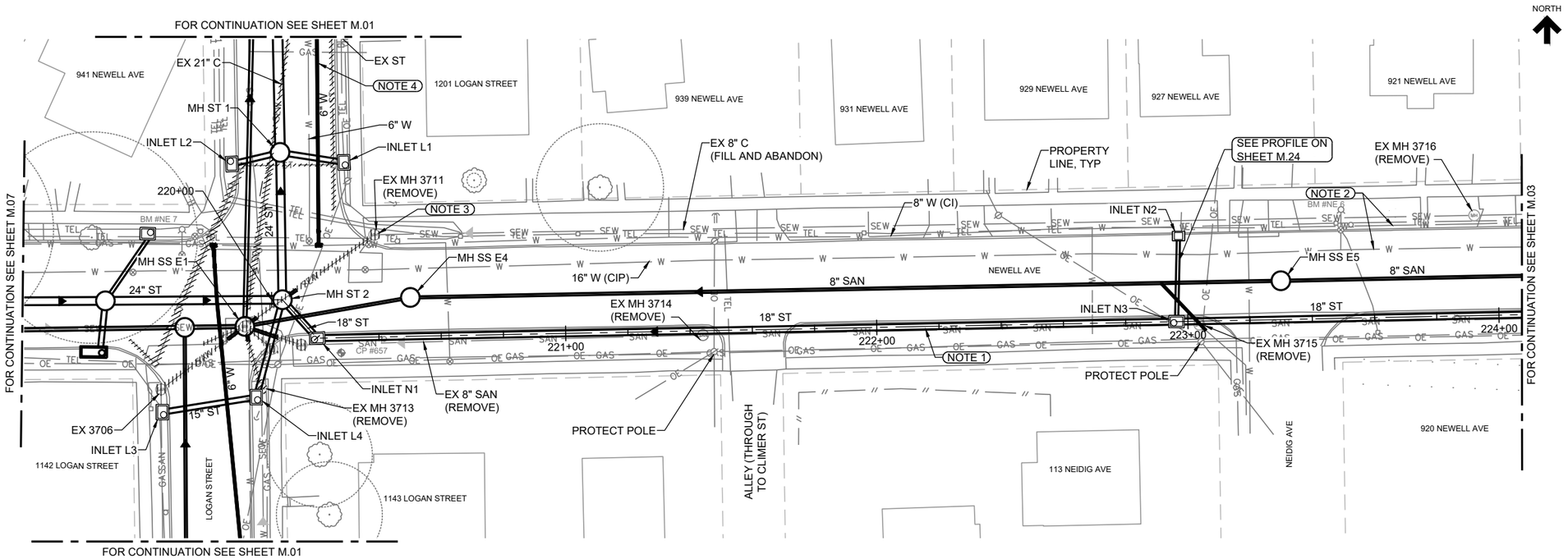
STORM SEWER LOGAN STREET

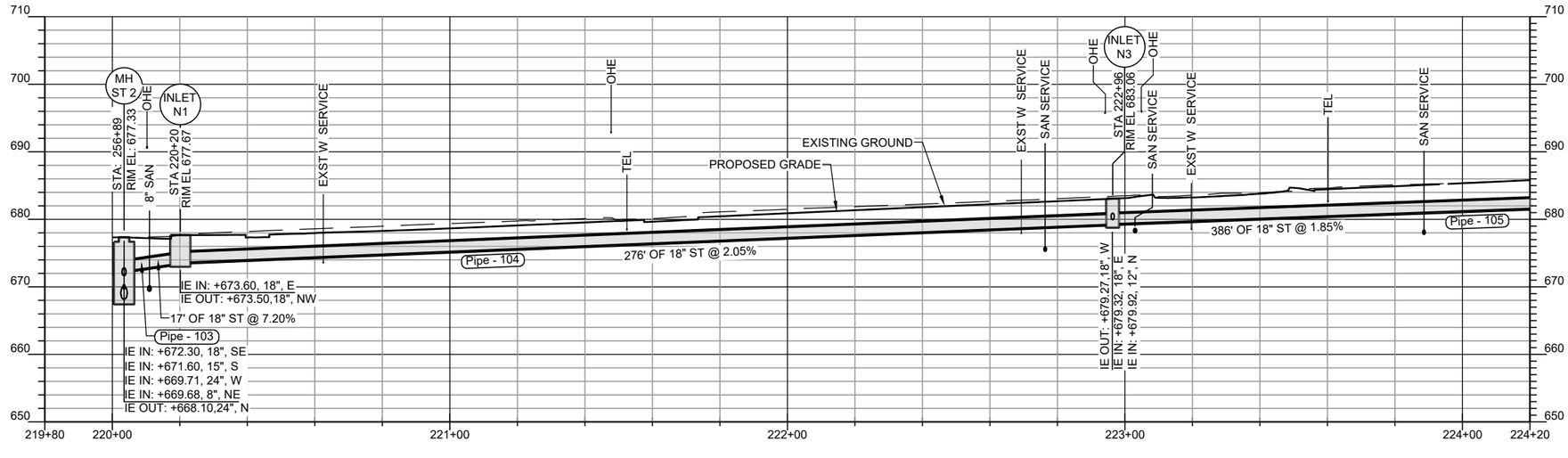
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 10'

NO. 17660.60.40 | REV. M.01 | 0

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NOTES

1. INSTALL NEW STORM ON ALIGNMENT OF EXISTING SANITARY. EXISTING SANITARY ENDS AT EX MH 3717 NEAR 910 NEWELL AVENUE. REMOVE EXISTING SANITARY PIPE AND MANHOLES IN THEIR ENTIRETY AS CONSTRUCTION PROGRESSES. LOCATE EXISTING SANITARY SERVICE LATERALS ON BOTH THE NORTH AND THE SOUTH SEWERS RUNNING ALONG NEWELL AND CONNECT TO NEW SANITARY ON NEWELL.
2. PROTECT EXISTING WATER.
3. MAINTAIN COMBINED SEWAGE FLOW IN EXISTING 8-INCH FROM EX MH 3711 UNTIL PERMANENT CONNECTIONS CAN BE MADE TO NEW SEWERS. TEMPORARY CONNECTIONS TO MH ST2, SSE1, AND EX MH 3707 MAY BE NEEDED TO STAGE FLOWS.

   AT MH ST2 A TEMP CONNECTION TO THE 8-INCH SEWER IS SHOWN. THE SAME TEMP CONNECTION IS SHOWN TO MH SSE1. IF TEMP CONNECTION IS CAST OR CORED INTO MH ST 2, TEMPORARY CONNECTION MUST BE PERMANENTLY PLUGGED OFF FORMING A WATER TIGHT SEAL. IF POSSIBLE AVOID CASTING OR CORING TEMPORARY CONNECTION INTO ST2 FOR FLOW STAGING IF POSSIBLE.
4. SEE MPW PLANS FOR WATER MAIN WORK TO BE INSTALLED BY CITY'S PHASE 6E CONTRACTOR ON LOGAN STREET.

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER NEWELL AVENUE SHEET 1

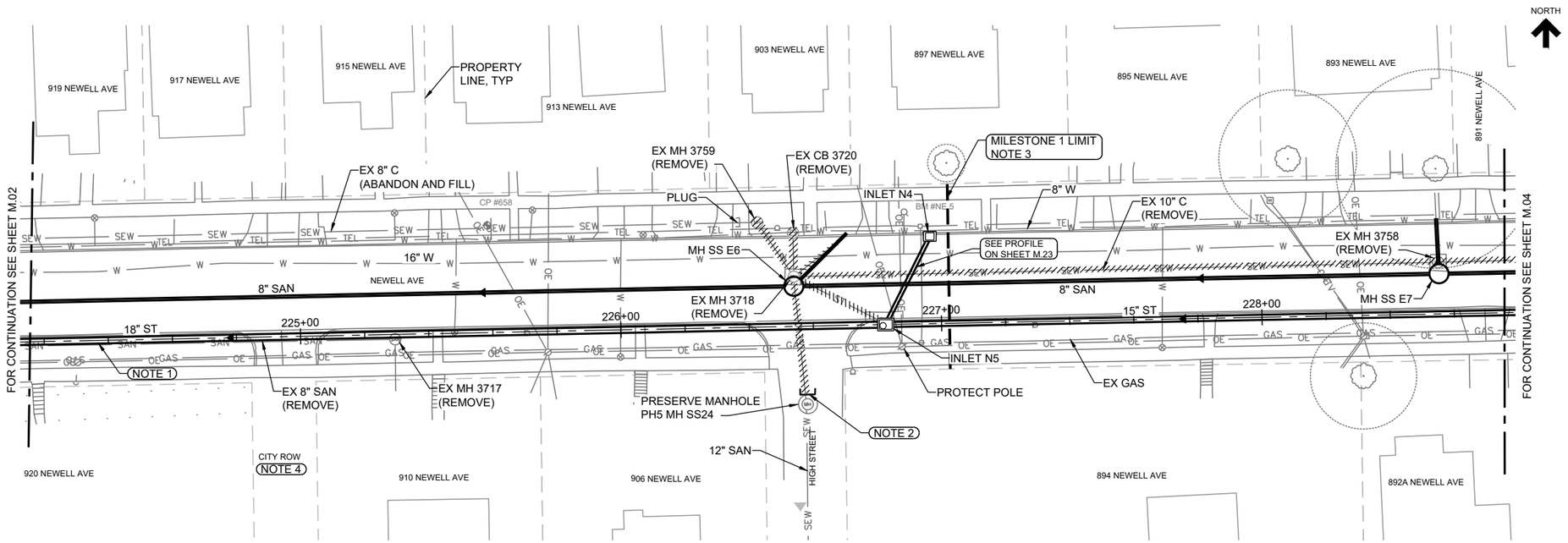
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

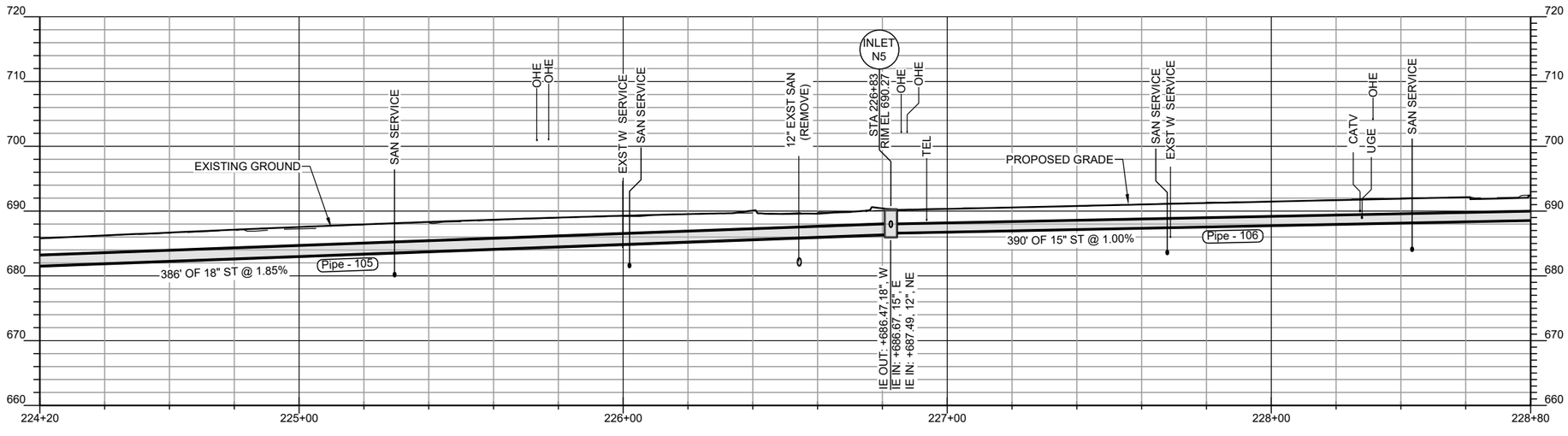
SCALE: 1" = 20'

NO. 17660.60.40	REV.
M.02	0

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NOTES

1. INSTALL NEW STORM ON ALIGNMENT OF EXISTING SANITARY. EXISTING SANITARY ENDS AT EX MH 3717. REMOVE EXISTING SANITARY PIPE IN ITS ENTIRETY AS CONSTRUCTION PROGRESSES. LOCATE EXISTING SANITARY SERVICE LATERALS ON BOTH THE NORTH AND THE SOUTH SEWERS RUNNING ALONG NEWELL AND CONNECT TO NEW SANITARY ON NEWELL.
2. PIPE BETWEEN EX MH 3718 AND PH5 MH SS24 WAS PREVIOUSLY DISCONNECTED, BLOCKED OFF, AND ABANDONED. PIPE SHALL BE REMOVED IN ITS ENTIRELY WITHIN PAVEMENT REPLACEMENT BOUNDARIES. PLUG ANY OPEN PIPE ENDS WITH 2-FOOT CONCRETE PLUG. FILL ANY PIPING NOT REMOVED WITH FLOWABLE FILL.
3. APPROXIMATE MILESTONE LIMIT EAST OF HIGH STREET INTERSECTION. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. PROVIDE TEMPORARY CONNECTIONS AS NEEDED TO MAINTAIN STORM AND SANITARY SEWAGE FLOW DURING CONSTRUCTION AND BETWEEN STAGES OR MILESTONES.
4. ROW IS MOWED GRASS AND TREES LIKELY MAINTAINED BY ADJOINING PROPERTY OWNERS. CITY ROW DOES EXTEND TO CLIMER ST.

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MUSCATINE, IOWA

STORM SEWER NEWELL AVENUE SHEET 2

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

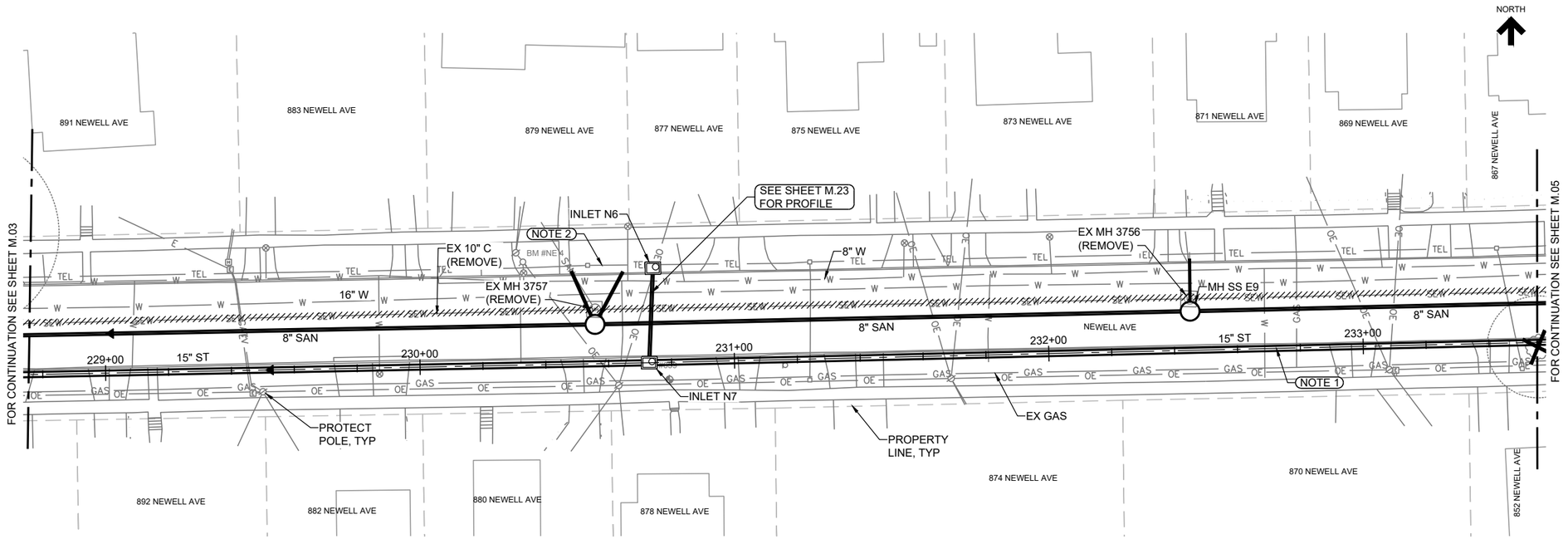
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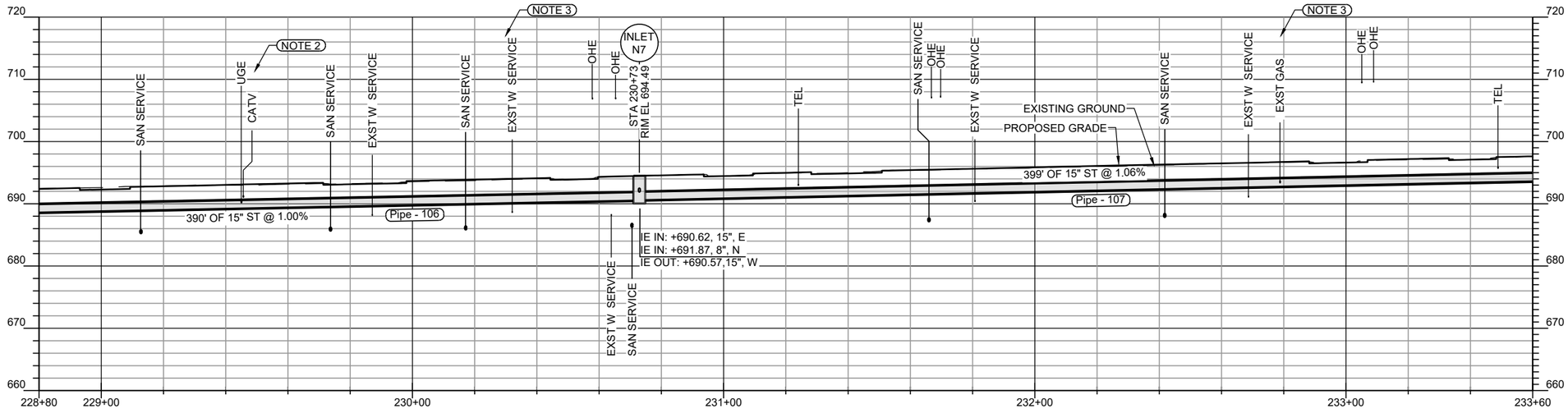
NO. 17660.60.40	REV.
M.03	0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

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NOTES

1. INSTALL NEW STORM ON ALIGNMENT SHOWN. PROTECT EXISTING UTILITIES. POSITION INLET STRUCTURE IN CURB LINE AS SHOWN ON SUDAS DETAIL.
2. PROTECT EXISTING UTILITIES. COORDINATE WITH UTILITY OWNER FOR PROTECTION OR RELOCATION.
3. PROTECT EXISTING WATER AND GAS SERVICES. SEE SHEET A.05 FOR TYPICAL DETAILS FOR WATER SERVICE LINE RELOCATIONS AROUND SEWERS.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER NEWELL AVENUE SHEET 3

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

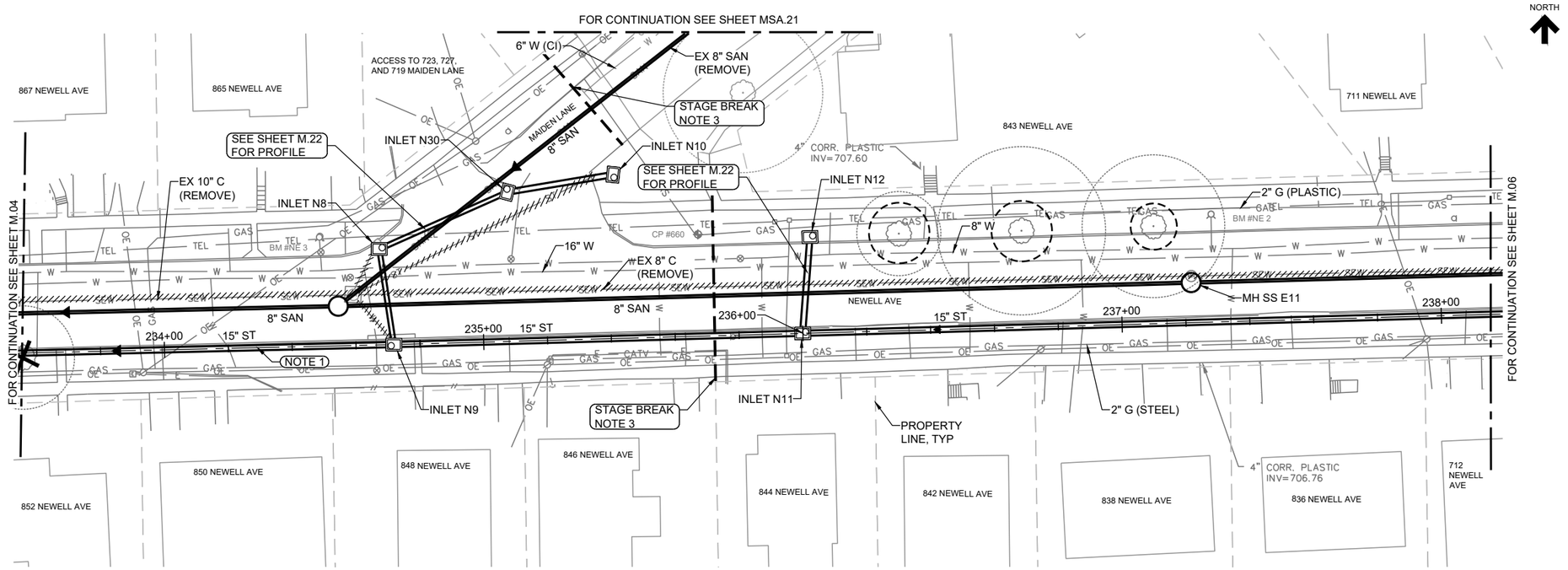
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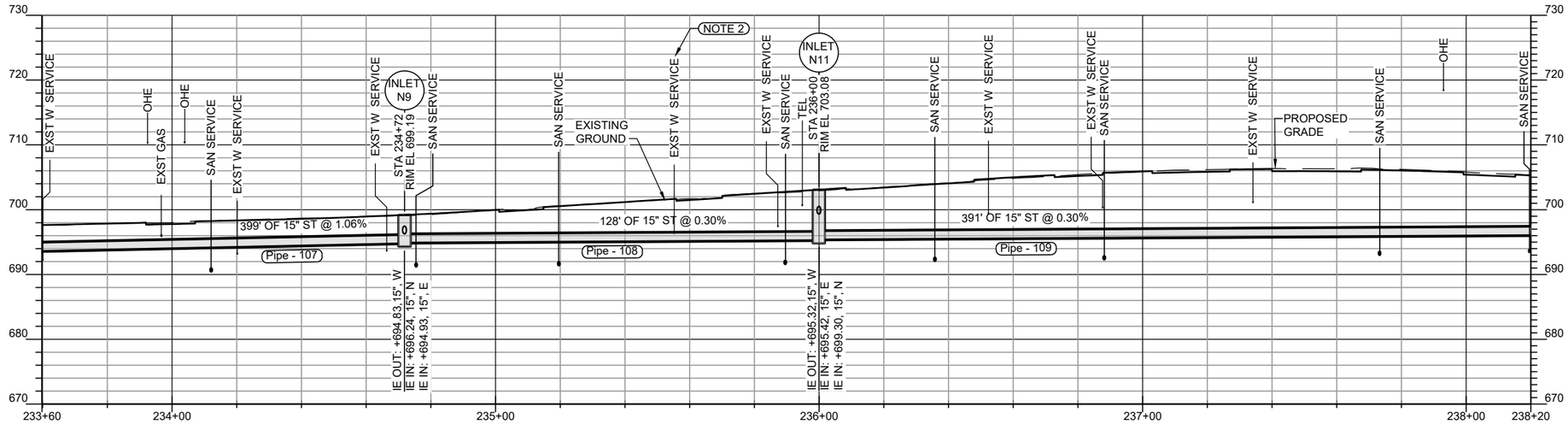
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NOTES

1. INSTALL NEW STORM ON ALIGNMENT SHOWN. POSITION NEW INLETS IN CURB LINE ACCORDING TO SUDAS DETAILS. PROTECT EXISTING UTILITIES.
2. PROTECT EXISTING WATER AND GAS SERVICES. SEE SHEET A.05 FOR TYPICAL DETAILS FOR WATER SERVICE LINE RELOCATIONS AROUND SEWERS.
3. APPROXIMATE STAGE BREAK NEAR MAIDEN LANE INTERSECTION. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN FLOW OF EXISTING SEWERS AT ALL TIMES. TEMPORARY SEWER CONNECTIONS MAY BE NEEDED.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER NEWELL AVENUE SHEET 4

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

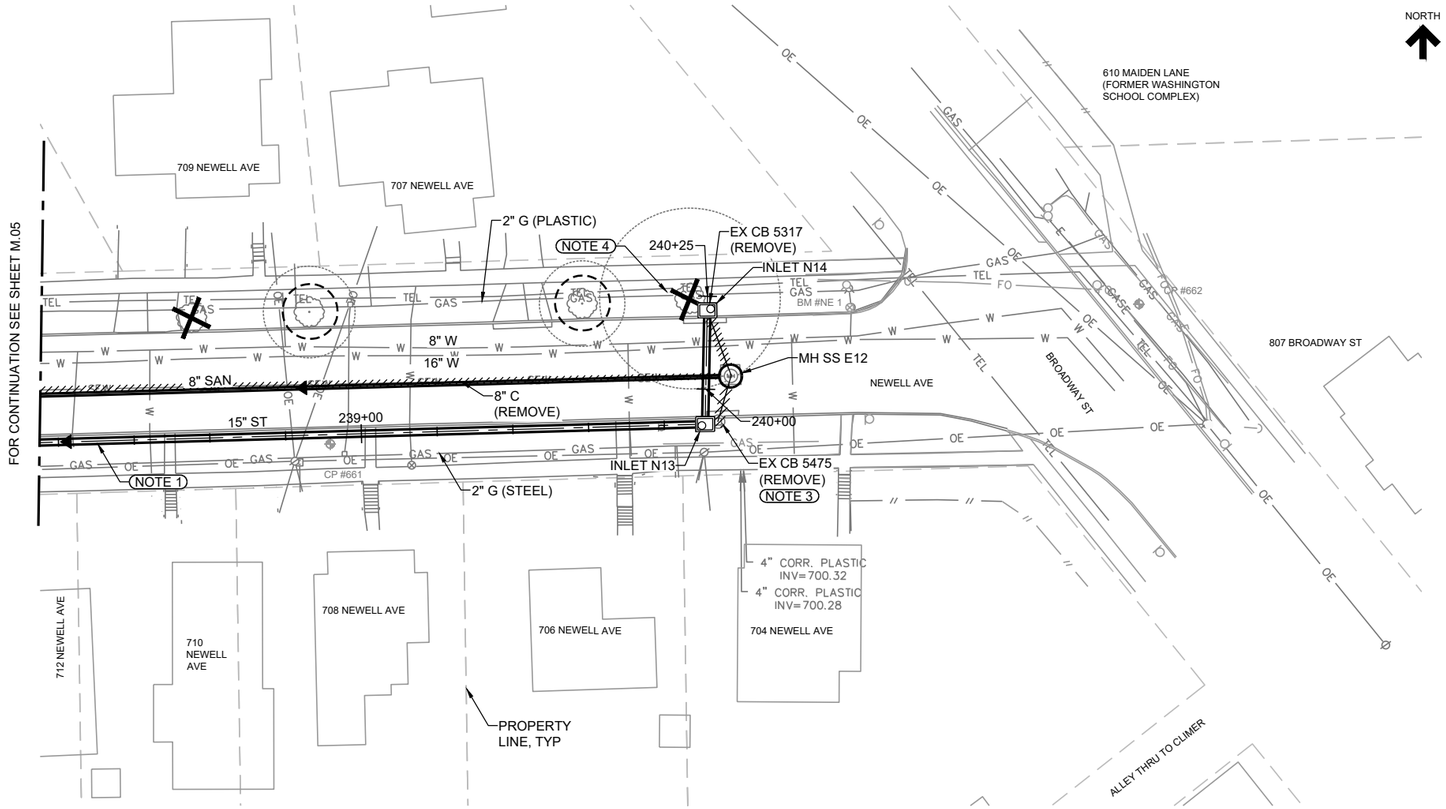
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CHECKED	ER SCHALLERT
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APPROVED	KK HEIM
DATE	MARCH 30, 2026

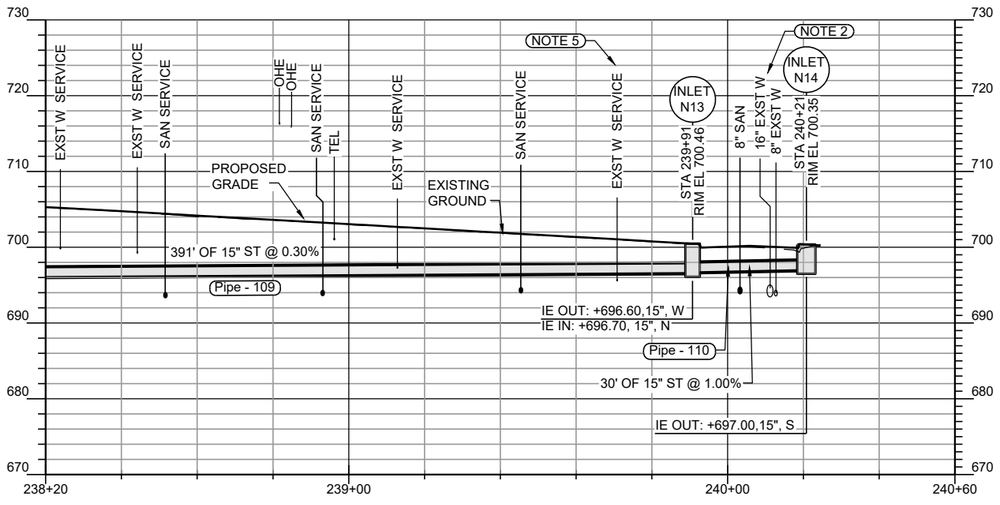
SCALE: 1" = 20'

NO. 17660.60.40	REV.
M.05	0

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NOTES

1. INSTALL NEW STORM ON ALIGNMENT SHOWN. POSITION NEW INLETS IN CURB LINE ACCORDING TO SUDAS DETAILS. PROTECT EXISTING UTILITIES.
2. MAINTAIN A MINIMUM OF 18-INCHES OF CLEARANCE BETWEEN BOTTOM OF NEW STORM AND TOP OF EXISTING WATER MAINS. SEE MWM SHEET FOR ELEVATION DATA ON EXISTING WATER MAINS.
3. REMOVE EXISTING INLETS IN THEIR ENTIRETY AND REPLACE WITH NEW. POSITION NEW INLETS IN CURB LINE ACCORDING TO SUDAS DETAILS. EXISTING INLETS CB 5475 AND CB 5317 HAVE BEEN PREVIOUSLY PLUGGED OFF BY THE CITY WITH MECHANICAL PLUGS AND DO NOT CONTRIBUTE STORM WATER FLOW TO THE COMBINED SEWER.
4. PROTECT EXISTING UTILITIES. EXERCISE CAUTION DURING TREE REMOVAL TO PREVENT DAMAGE TO UTILITIES. CONTACT UTILITY COMPANIES PRIOR TO WORK IF UTILITY PROTECTION OR RELOCATION IS NEEDED.
5. PROTECT EXISTING WATER SERVICES. RELOCATE WATER SERVICES I NEEDED ACCORDING TO DETAIL ON SHEET A.05.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

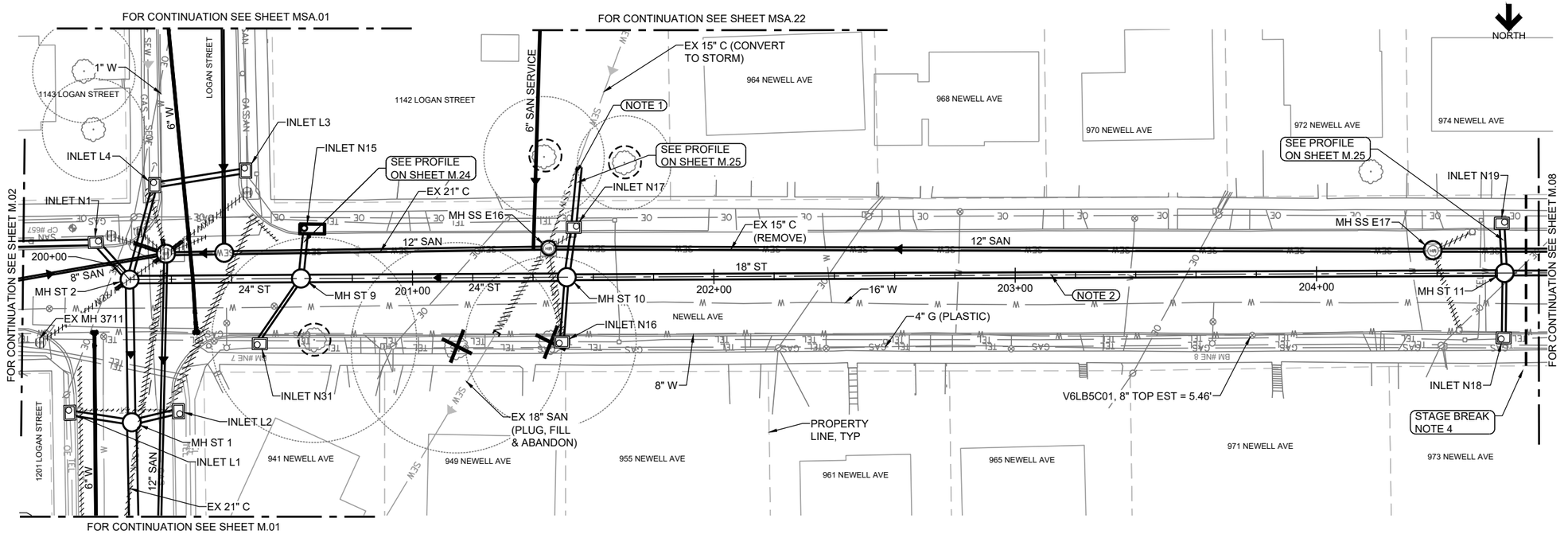
STORM SEWER
NEWELL AVENUE
SHEET 5

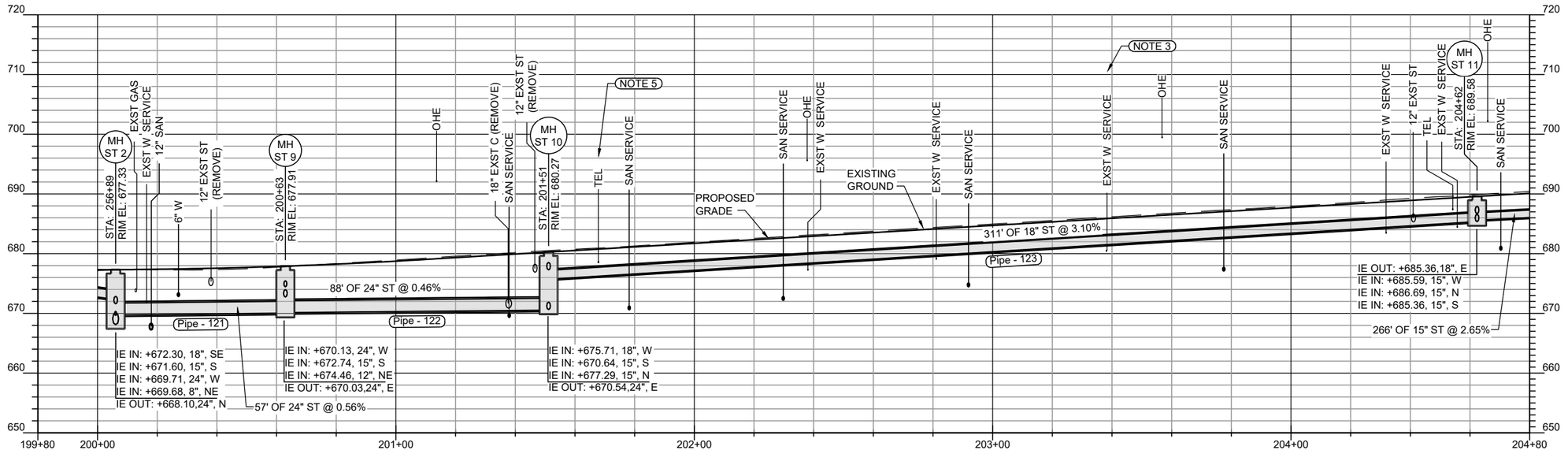
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DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 20'

NO. 17660.60.40	REV.
M.06	0

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NOTES

1. CONNECT TO EXISTING COMBINED. CONNECTION MAY OCCUR ON PRIVATE PROPERTY.
2. INSTALL NEW STORM SEWER ON ALIGNMENT SHOWN. POSITION CASTING TO AVOID PLACEMENT ON CENTERLINE JOINT.
3. PROTECT EXISTING WATER AND GAS SERVICES. RELOCATE WATER SERVICES IF NEEDED ACCORDING TO DETAIL ON SHEET A.05.
4. APPROXIMATE STAGE BREAK PAST MH ST 11 INSTALLATION. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN FLOW OF EXISTING SEWERS AT ALL TIMES. TEMPORARY SEWER CONNECTIONS MAY BE NEEDED.
5. PROTECT EXISTING TELEPHONE UTILITY. IF RELOCATION IS NEEDED COORDINATE WITH UTILITY COMPANY.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER NEWELL AVENUE SHEET 6

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

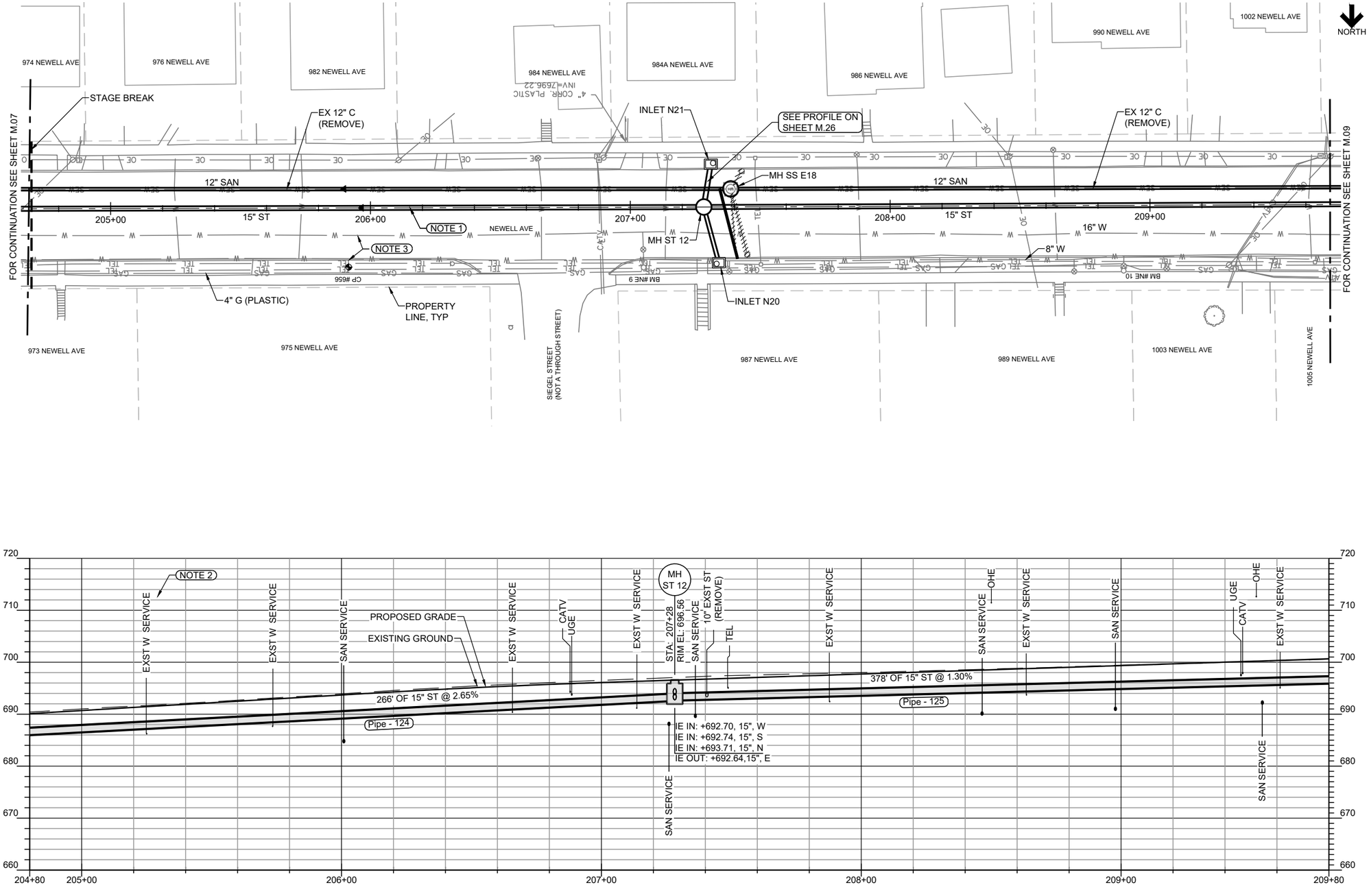
SCALE: 1" = 20'

NO.	REV.
M.07	0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5

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NOTES

1. INSTALL STORM ON ALIGNMENT SHOWN. POSITION CASTING TO AVOID PLACEMENT ON CENTERLINE JOINT.
2. PROTECT EXISTING WATER AND GAS SERVICES. RELOCATE WATER SERVICES IF NEEDED ACCORDING TO DETAIL ON SHEET A.05.
3. PROTECT EXISTING WATER.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER NEWELL AVENUE SHEET 7

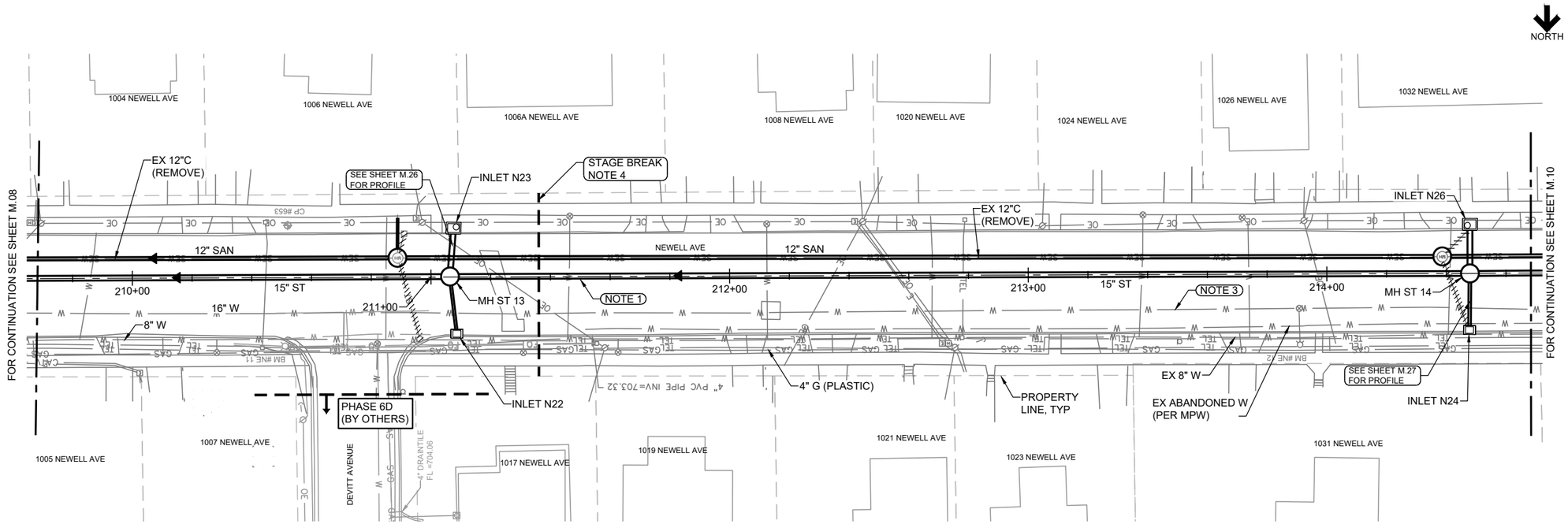
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

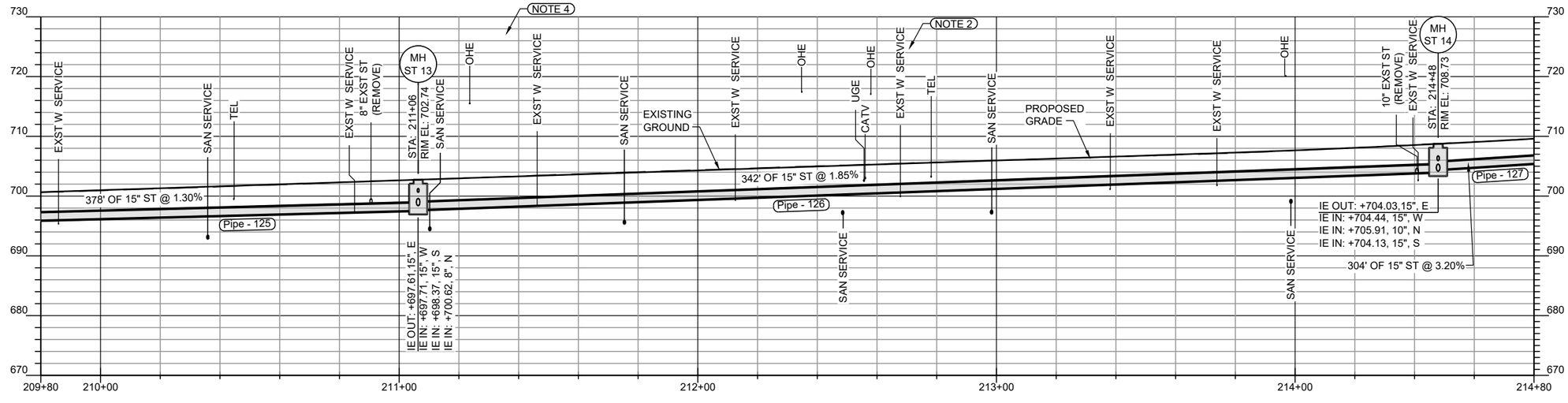
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NO. 17660.60.40	REV.
M.08	0

AT FULL SIZE

CADD D3-R5
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NOTES

1. INSTALL STORM ON ALIGNMENT SHOWN. POSITION CASTING TO AVOID PLACEMENT ON PAVEMENT CENTERLINE JOINT.
2. PROTECT EXISTING WATER AND GAS SERVICES. RELOCATE WATER SERVICES IF NEEDED ACCORDING TO DETAIL ON SHEET A.05.
3. PROTECT EXISTING WATER.
4. APPROXIMATE STAGE BREAK TO THE WEST OF DEVITT AVENUE INTERSECTION. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN FLOW OF EXISTING SEWERS AT ALL TIMES. TEMPORARY SEWER CONNECTIONS MAY BE NEEDED.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER NEWELL AVENUE SHEET 8

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

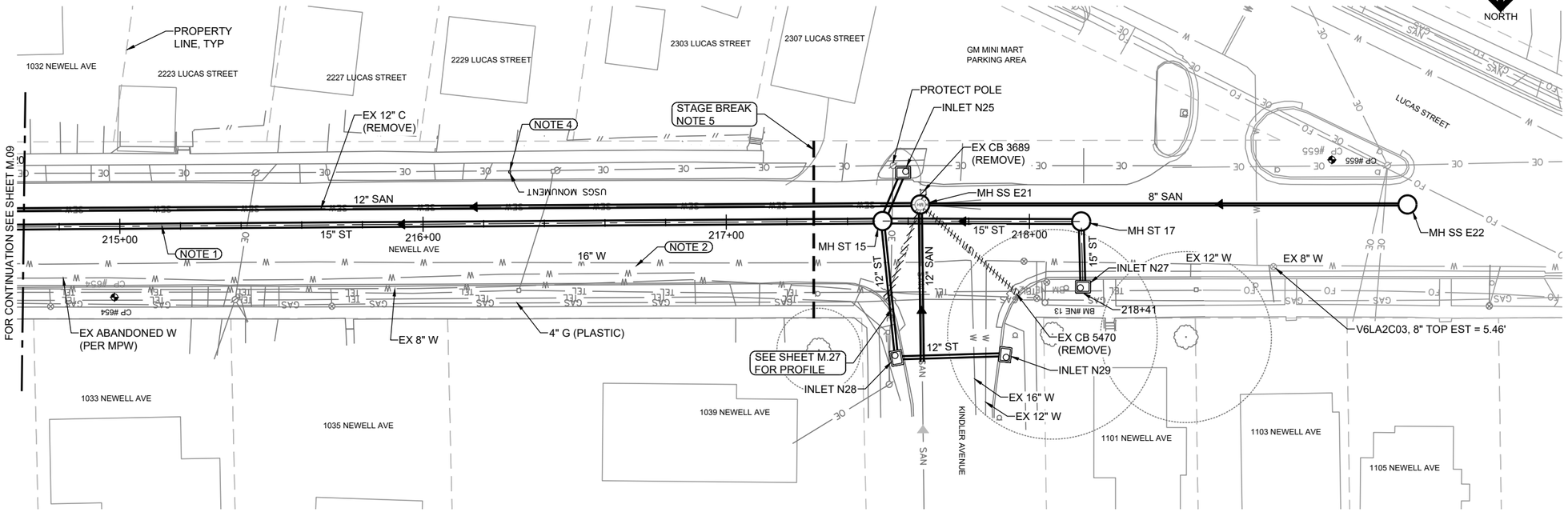
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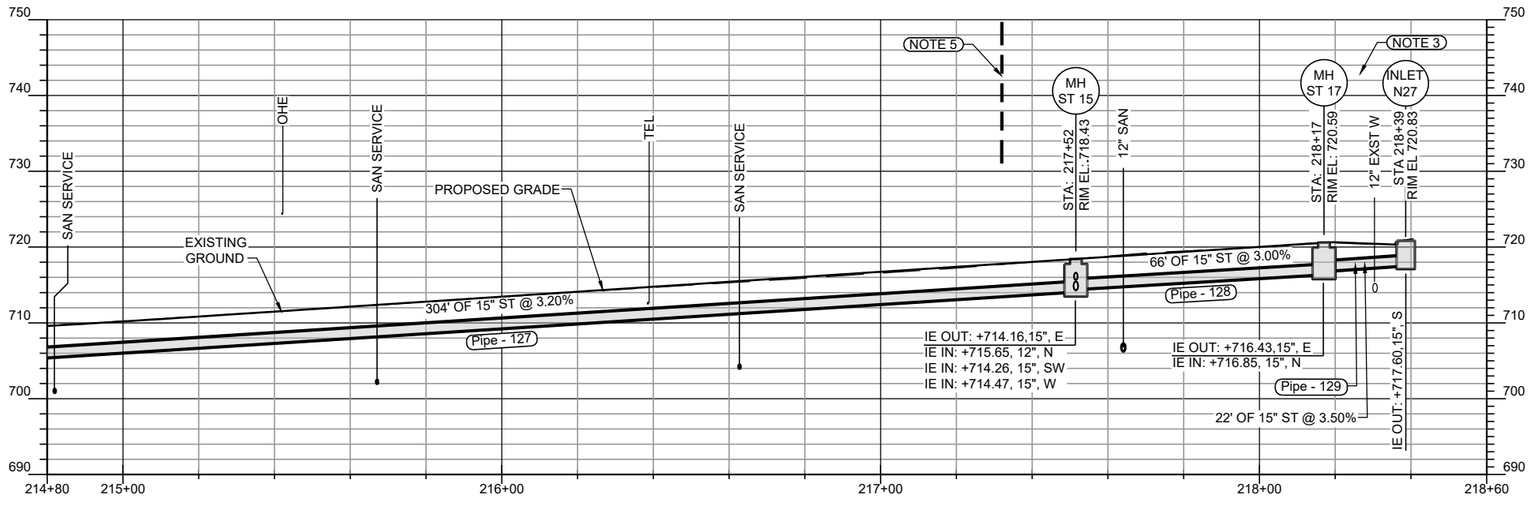
NO. 17660.60.40 | REV. M.09 | 0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5

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NOTES

1. INSTALL STORM ON ALIGNMENT SHOWN. POSITION CASTING TO AVOID PLACEMENT ON PAVEMENT CENTERLINE JOINT.
2. PROTECT EXISTING WATER.
3. MAINTAIN A MINIMUM OF 18-INCHES OF CLEARANCE BETWEEN BOTTOM OF STORM SEWER AND TOP OF WATER MAIN.
4. PROTECT EXISTING USGS MONUMENT. REPLACE IF DAMAGED OR REMOVED.
5. APPROXIMATE STAGE BREAK TO THE EAST OF KINDLER INTERSECTION. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN FLOW OF EXISTING SEWERS AT ALL TIMES. TEMPORARY SEWER CONNECTIONS MAY BE NEEDED.
6. PROTECT EXISTING WATER AND GAS SERVICES. SEE SHEET A.05 FOR TYPICAL DETAILS OF WATER SERVICE LINE RELOCATIONS AROUND SEWERS.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER NEWELL AVENUE SHEET 9

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

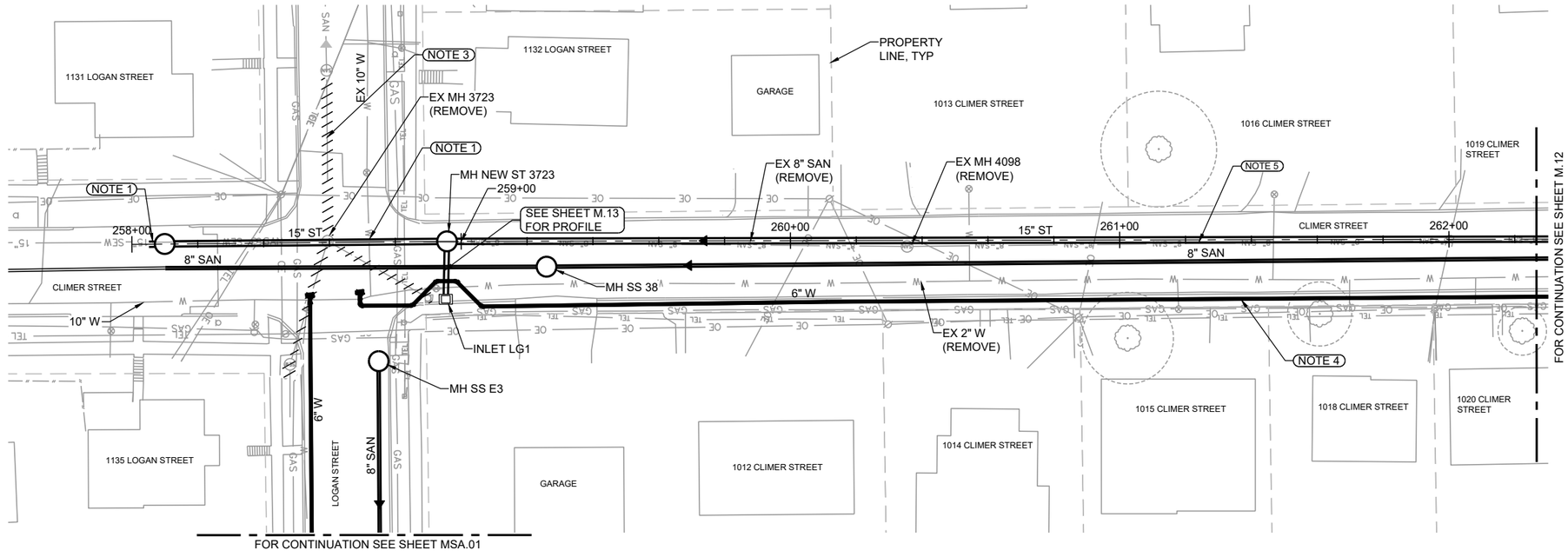
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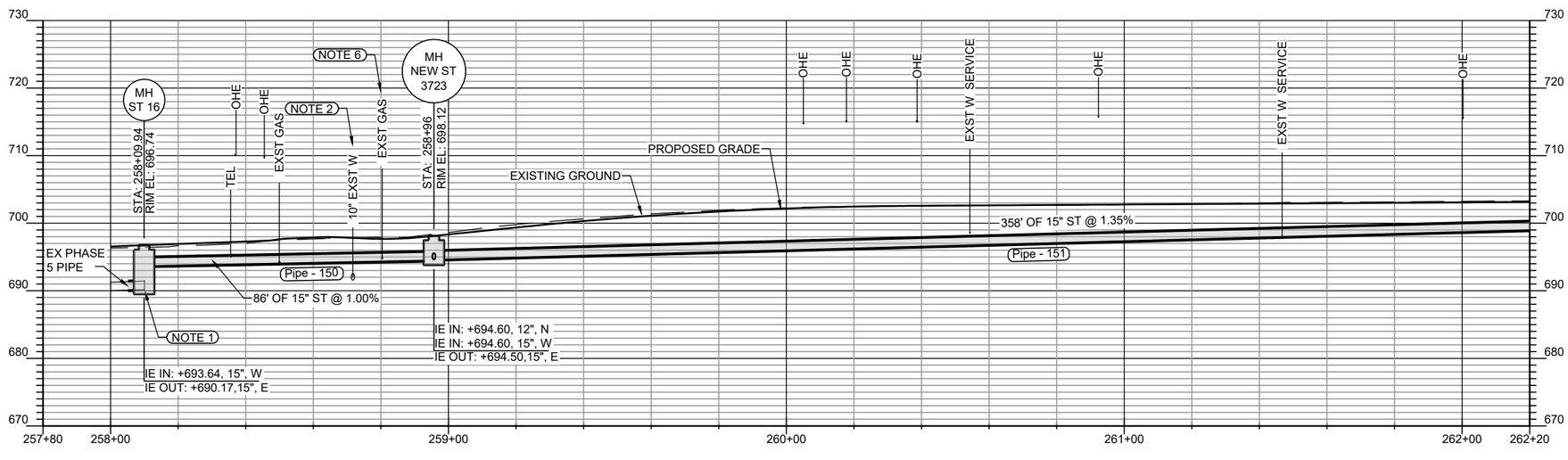
NO. 17660.60.40	REV.
M.10	0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5

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NOTES

1. LOCATE EXISTING NEW STORM SEWER INSTALLED IN PHASE 5 BY OTHERS AND INSTALL NEW MANHOLE OVER END OF PIPE. INSTALL NEW STORM SEWER OVER THE TOP OF THE EXISTING 10-INCH WATER MAIN AS SHOWN. SEE SHEET MWM FOR WATER MAIN ELEVATION INFORMATION COLLECTED IN DESIGN.
2. PROTECT 10-INCH WATER. MAINTAIN A MINIMUM OF 18-INCHES OF CLEARANCE BETWEEN BOTTOM OF STORM PIPE AND TOP OF WATER MAIN. SEE SHEET A.05 FOR CLEARANCE REQUIREMENTS AND SUDAS SPECIFICATIONS.
3. COMBINED SEWER FROM SOUTH ON LOGAN STREET WAS PREVIOUSLY DISCONNECTED FROM EX MH 3723. CONFIRM PIPE IS DISCONNECTED AND REMOVE ANY REMAINING ABANDONED PIPING IN INTERSECTION TO LIMITS OF REMOVED PAVEMENT. PLUG ANY PIPE ENDS WITH 2-FOOT LENGTH PLUG OF CONCRETE.
4. SEE MPW PLANS FOR WATER MAIN TO BE INSTALLED BY MPW CREW ON CLIMER STREET. COORDINATE WITH MPW ON SCHEDULE FOR PIPE INSTALLATION.
5. INSTALL STORM SEWER ON ALIGNMENT OF EXISTING SANITARY SEWER. REMOVE EXISTING MANHOLES AND PIPE AS WORK PROGRESSES. CONNECT ALL ACTIVE SANITARY SERVICES TO NEW SANITARY.
6. COORDINATE SUPPORT OF GAS LINE OR RELOCATION WITH GAS COMPANY.

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER
CLIMER STREET
SHEET 1

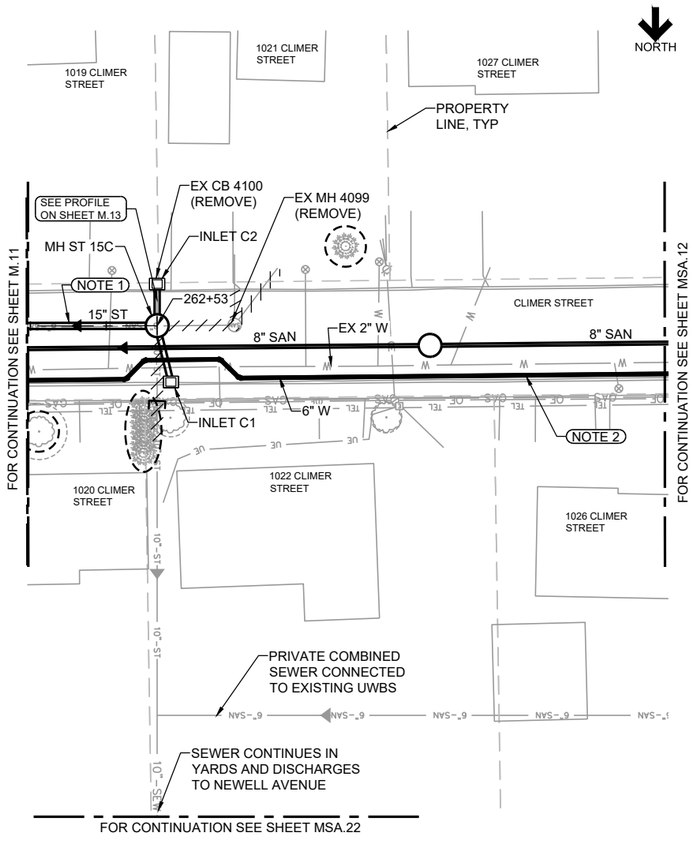
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

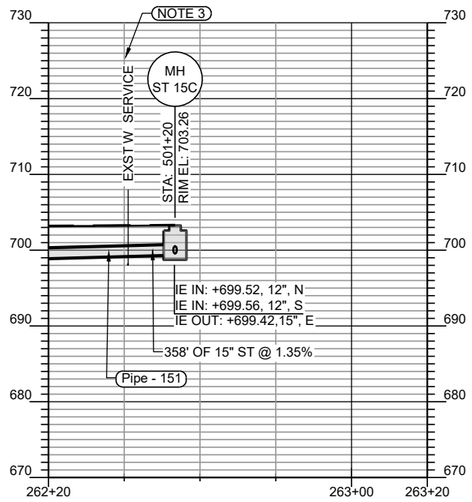
SCALE: 1" = 20'

NO. 17660.60.40	REV.
M.11	0

CADD D3-R5

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NOTES

1. INSTALL NEW STORM SEWER ON ALIGNMENT OF EXISTING 8-INCH SANITARY TO LOCATION SHOWN. REMOVE EXISTING SANITARY AS WORK PROGRESSES. LOCATE ALL EXISTING SANITARY SERVICES AND CONNECT TO NEW SANITARY SEWER.
2. SEE MPW DRAWINGS FOR CLIMER STREET WATER MAIN WORK TO BE INSTALLED BY MPW CREW.
3. PROTECT EXISTING GAS AND WATER SERVICES. RELOCATE WATER SERVICE IF NEEDED ACCORDING TO DETAIL ON SHEET A.05.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER
CLIMER STREET
SHEET 2

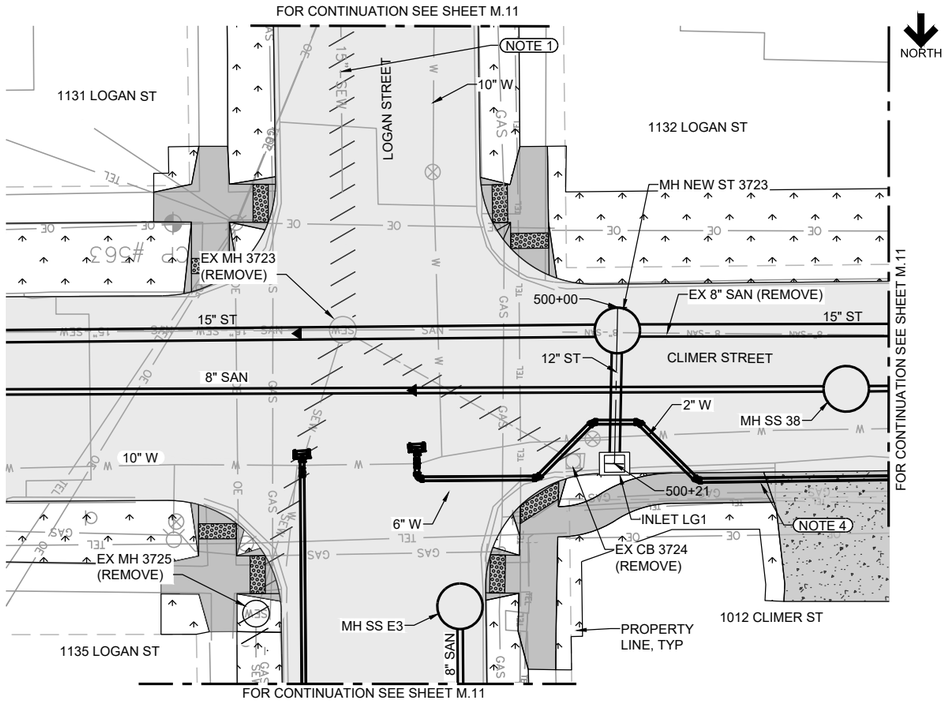
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 20'

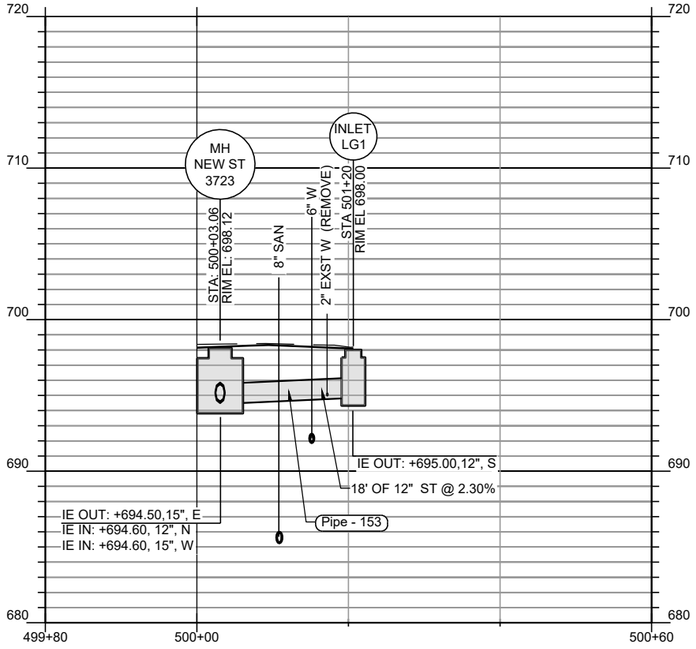
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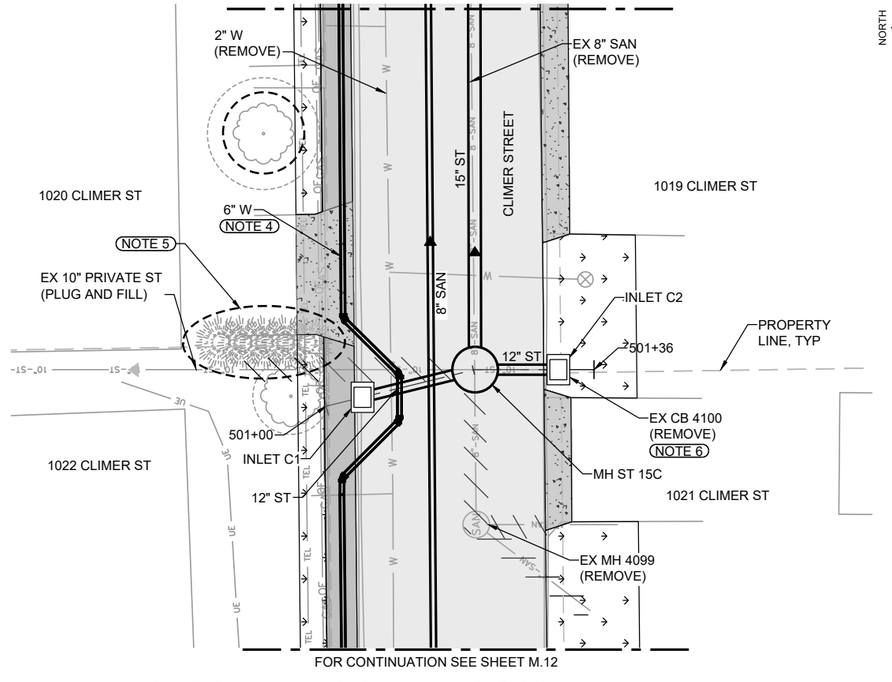
AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5
© STANLEY CONSULTANTS

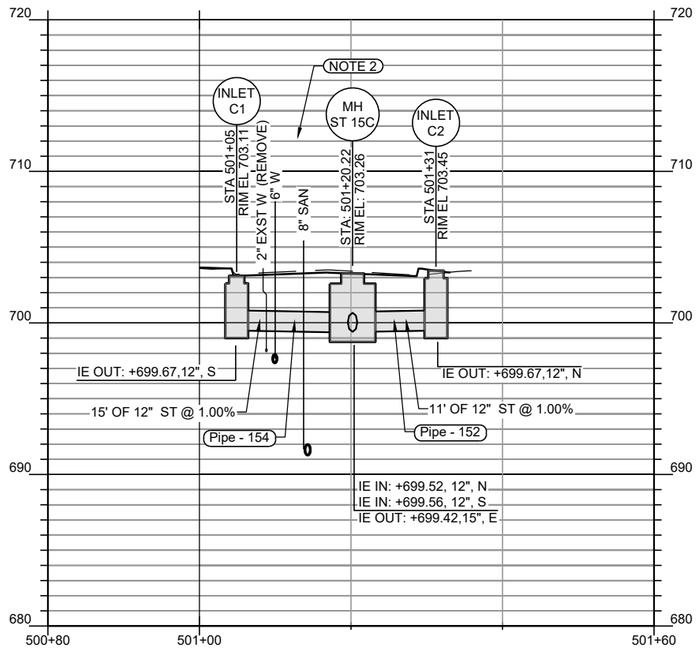


STORM INLETS PLAN AND PROFILE
CLIMER STREET & LOGAN STREET
STA 500+00





STORM INLETS PLAN AND PROFILE
NEAR NEAR 1022 CLIMER ST
STA 501+00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. SANITARY SEWER ON LOGAN STREET SOUTH OF CLIMER STREET ADDED IN PHASE 5 BY OTHERS. SEE SHEET M.11 FOR PH5 SANITARY SEWER LOCATION.
2. MAINTAIN A MINIMUM OF 18-INCHES OF CLEARANCE BETWEEN BOTTOM OF STORM AND TOP OF NEW WATER MAIN TO MAINTAIN CLEARANCE IF NECESSARY.
3. USE CITY STOCK OF CLASS IV GASKETED 12-INCH RCP FOR INLET PIPING TO INLETS LG1, CI, AND C2. REFER TO C SHEET TABLES FOR DESIGNATION OF WHICH ITEMS ARE ASSUMED TO BE CITY STOCK.
4. SEE MPW DRAWINGS FOR WATER REPLACEMENT ON CLIMER STREET TO BE INSTALLED BY MPW CREW.
5. PROTECT EXISTING SHRUBBERY IF PIPE ABANDONMENT ACTIVITIES CAN BE PERFORMED WITHOUT DAMAGE TO SHRUBS.
6. REMOVE EXISTING INLET WITH GRATE LOCATED BEHIND THE CURB. REPLACE WITH INLET BEHIND THE CURB AND FLAT AREA GRATE WITHOUT CURB BOX (NEENAH R-3290-A OR EQUAL) MAINTAIN POSITIVE DRAINAGE FROM PRIVATE PROPERTY TO INLET. SHAPE AREA TO DRAIN.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER
STORM INLETS ON CLIMER ST

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

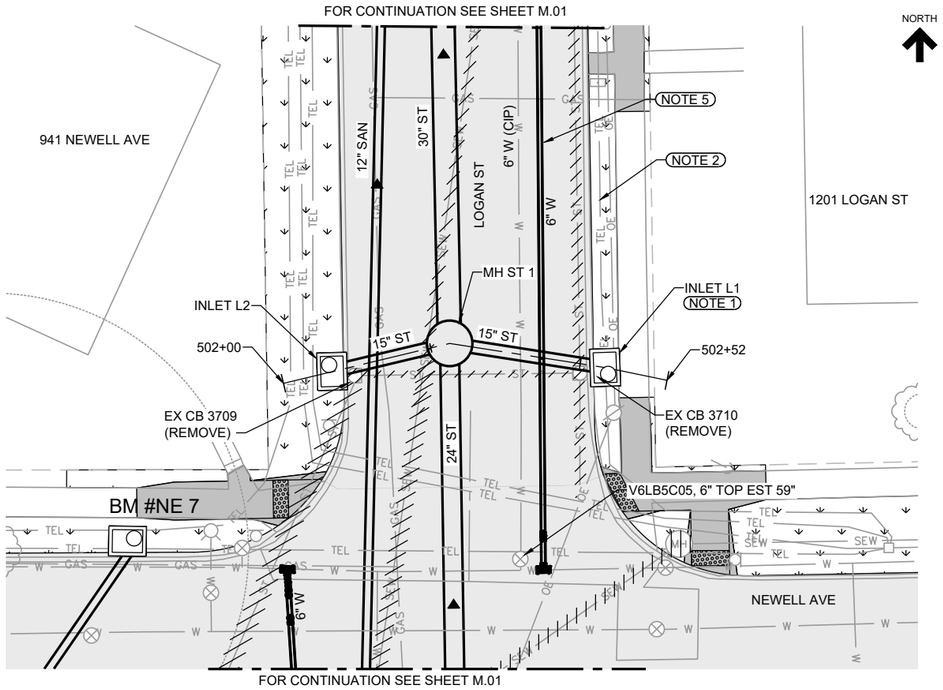
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NO. 17660.60.40 | REV. 0

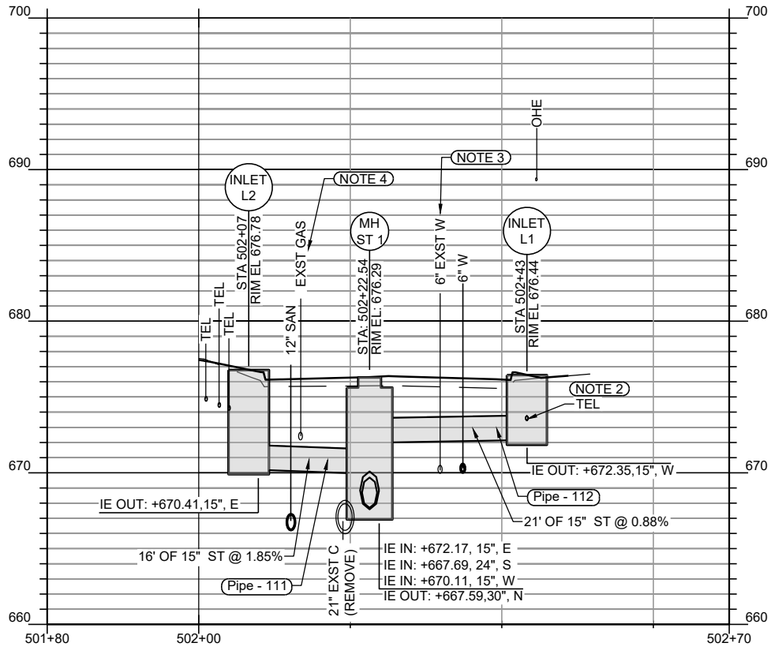
M.13

CADD D3-R5

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STORM INLETS PLAN AND PROFILE
NEAR 1201 LOGAN STREET
STA 502+00



NOTES

1. INSTALL NEW INLETS AT LOCATIONS SHOWN. POSITION INLET STRUCTURES IN CURB LINE AS SHOWN ON SUDAS DETAILS. REMOVE EXISTING INLETS IN THEIR ENTIRETY.
2. PROTECT EXISTING UTILITIES. COORDINATE WITH UTILITIES OWNERS ON PROTECTION OR RELOCATION.
3. MAINTAIN A MINIMUM 18-INCH CLEARANCE BETWEEN THE BOTTOM OF THE STORM PIPE AND TOP OF EXISTING WATER MAIN.
4. MAINTAIN A MINIMUM OF 6-INCHES OF CLEARANCE BETWEEN THE BOTTOM OF GAS MAIN AND TOP OF PROPOSED STORM SEWER.
5. SEE MPW PLANS FOR WATER MAIN WORK TO BE INSTALLED BY CITY'S PHASE 6E CONTRACTOR ON LOGAN STREET.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER
INLETS ON LOGAN ST

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 10'
NO. 17660.60.40
REV. 0
M.14

CADD D3-R5

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NOTES

1. SEE SHEET M.19 FOR LOCATION OF EXISTING 48-INCH CMP PIPE ON EXISTING UPPER WEST BRANCH SEWER BETWEEN ADDRESSES 1104 AND 1106 IOWA AVENUE. PHOTOS ARE STILL IMAGES FROM INTERNAL SEWER VIDEO RECORDED ON JULY 9, 2024 BY THE CITY PRIOR TO ANY PHASE 6C IMPROVEMENTS.

   THE FOLLOWING IS A SUMMARY OF OBSERVATIONS IN PHOTOS.

   PHOTO 1 AND 2: HEADWALL/TRANSITION BETWEEN CONCRETE ARCH SECTION AND CMP.

   PHOTO 3: CMP SECTION.

   PHOTO 4, 5, AND 6: TOP OF CMP PIPE AT MATERIAL TRANSITION.

   PHOTO 7, 8, 9: INTERNAL FLANGES ON EACH SIDE OF CMP AT APPROXIMATELY 9 AND 3 O'CLOCK.

   PHOTO 10: CMP SECTION WITH 48-INCH ROUND CONCRETE PIPE BEYOND.

   PHOTO 11: SERVICE LINE FOR 1106 OR 1104 IOWA AVENUE. SERVICE HAS BEEN RELOCATED AND PICKED UP IN SANITARY SEWER INSTALLED ON IOWA AVENUE. THIS CONNECTION CAN BE ABANDONED.

   PHOTO 12: TRANSITION BETWEEN CMP AND ROUND CONCRETE PIPE.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

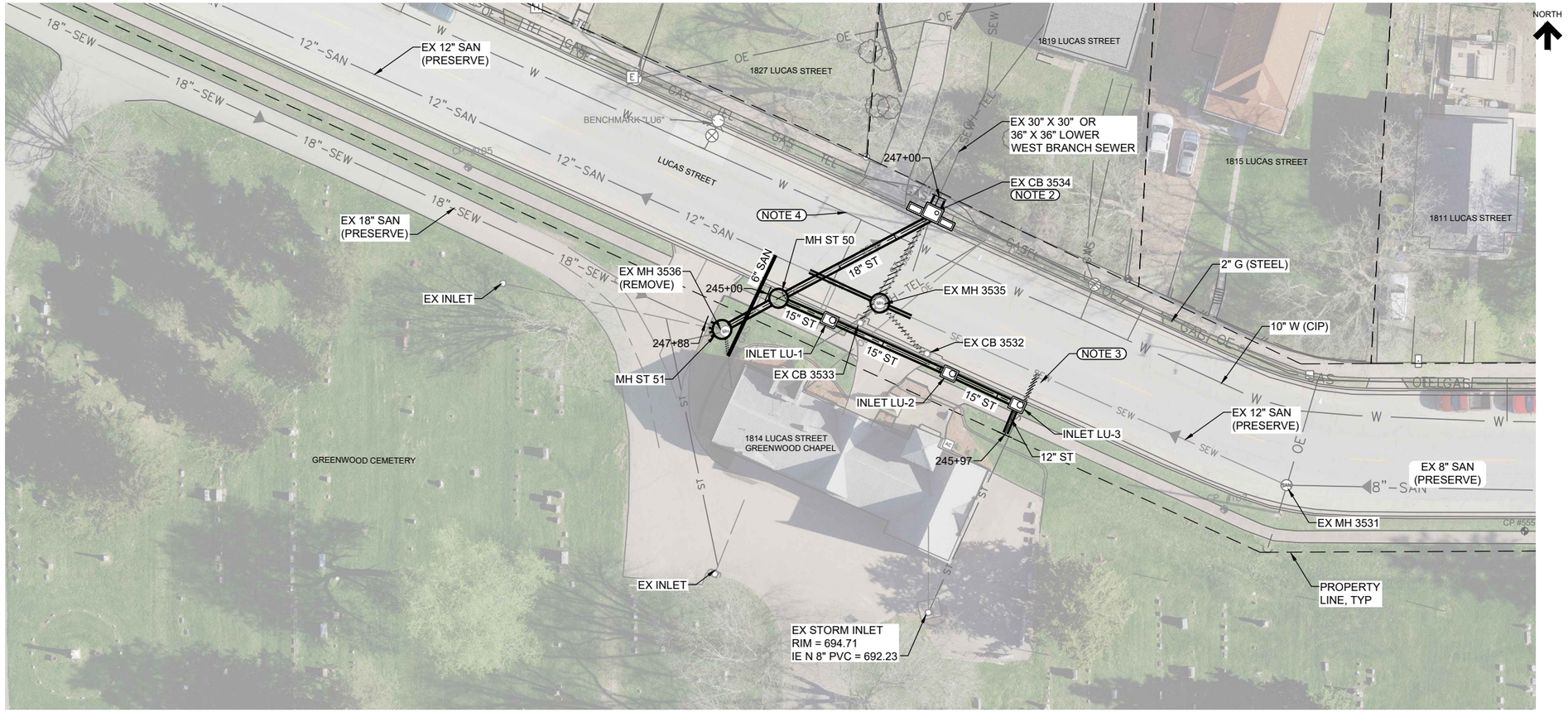
STORM SEWER CMP INTERIOR PICTURES

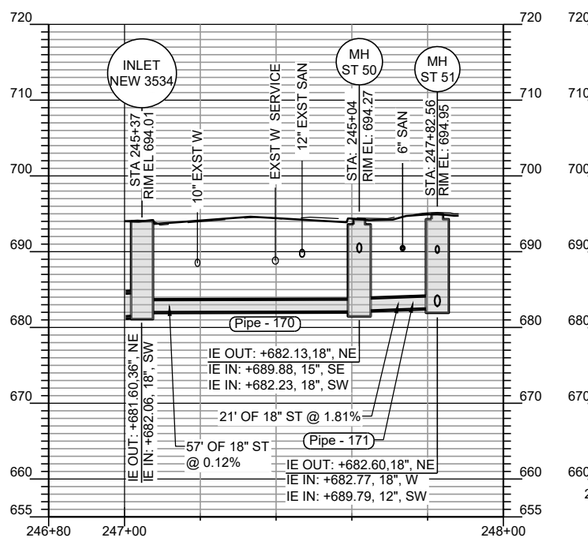
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 20'

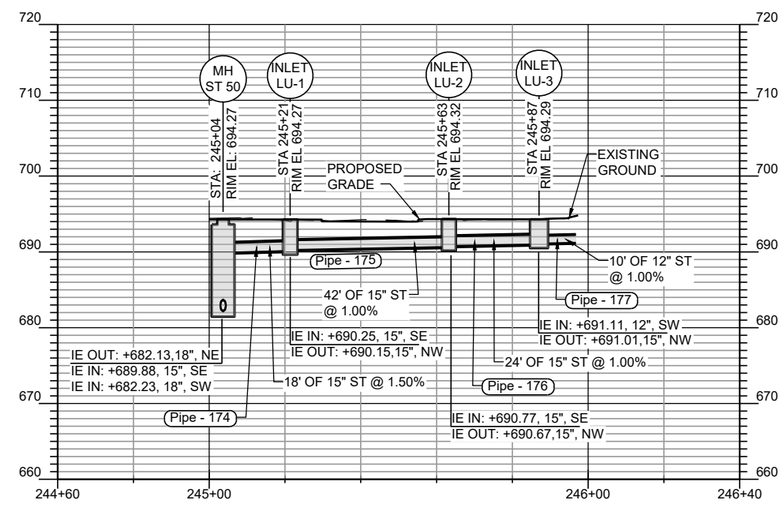
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M.15	0

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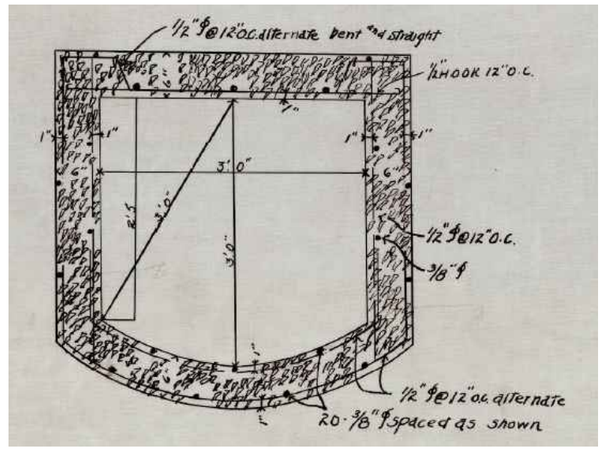




PROFILE - STATION 247+00



PROFILE - STATION 245+00



SECTION
EXISTING LOWER WEST BRANCH SEWER
NO SCALE

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

NOTES

1. SURVEY REPRESENTS COMBINED FIELD CONDITIONS FROM 2019 - 2020, 2025.
2. REMOVE AND REPLACE EX CB 3534 WITH NEW CUSTOM INLET. EXISTING STRUCTURE INCLUDES A 12.8' DEEP BRICK MANHOLE WITH A 15' LONG CONCRETE TOP WITH 3 CURB OPENINGS. NEW CUSTOM INLET SHALL USE SUDAS DETAIL SW-545 WITH EXTENDED CURB OPENINGS ON EACH SIDE. MODIFY SW-545 DETAIL AS DESCRIBED AND MATCH FIELD CONDITIONS. INSTALL OVER TOP OF EXISTING LWBS AND PROTECT EXISTING SEWER. SIZE OF LWBS IS 30X30 OR 36X36 SQUARE CONCRETE BOX SIMILAR TO EXISTING SECTION SHOWN ON THIS SHEET. NEW DEEP BOX SHALL BE A MINIMUM OF 6' WIDE INSIDE DIMENSION WITH AN EXTENSION UNIT ON EACH SIDE. EACH EXTENSION UNIT SHALL BE 32" DEEP X 4.5' ID LONG.
3. LOCATE NEW INLET LU-3 IN LINE WITH EXISTING INLET PIPE EXTENDING FROM THE SOUTHEAST PORTION OF THE CHAPEL PARKING LOT TO THE EXISTING 12-INCH SANITARY IN LUCAS STREET. ELEVATION OF EXISTING PIPE IS NOT KNOWN. INSTALL INLET, PLUG CONNECTION TO EXISTING SANITARY, AND CONNECT TO EXISTING STORM SEWER FROM SOUTHWEST. CONNECT TO EXISTING PIPE WITH COUPLER. IF COUPLER IS NOT FEASIBLE INSTALL CONCRETE COLLAR TO CONNECT PIPES WITH CITY'S AUTHORIZATION.
4. PROTECT EXISTING WATER LINE DURING INSTALLATION OF STORM SEWER UNDERNEATH MAIN. MINIMIZE WIDTH OF EXCAVATION TO MAINTAIN SUPPORT OF EXISTING MAIN.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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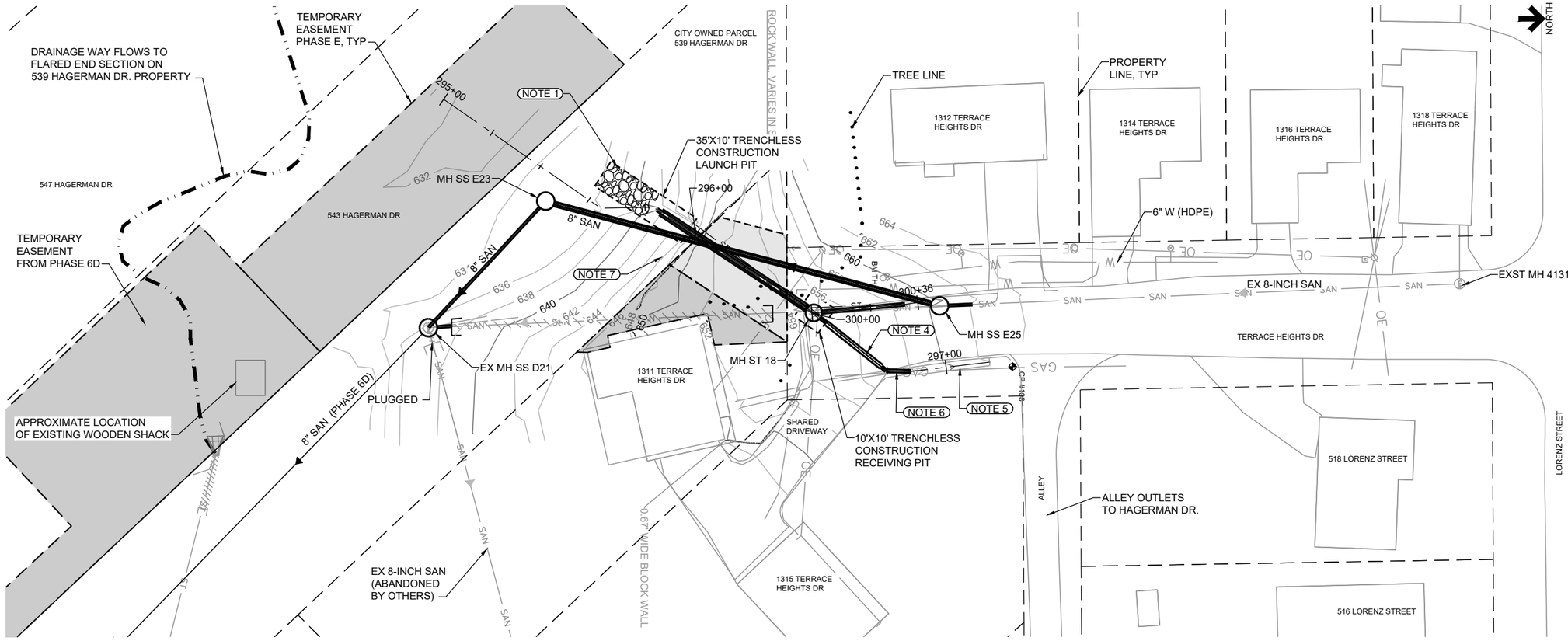
CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

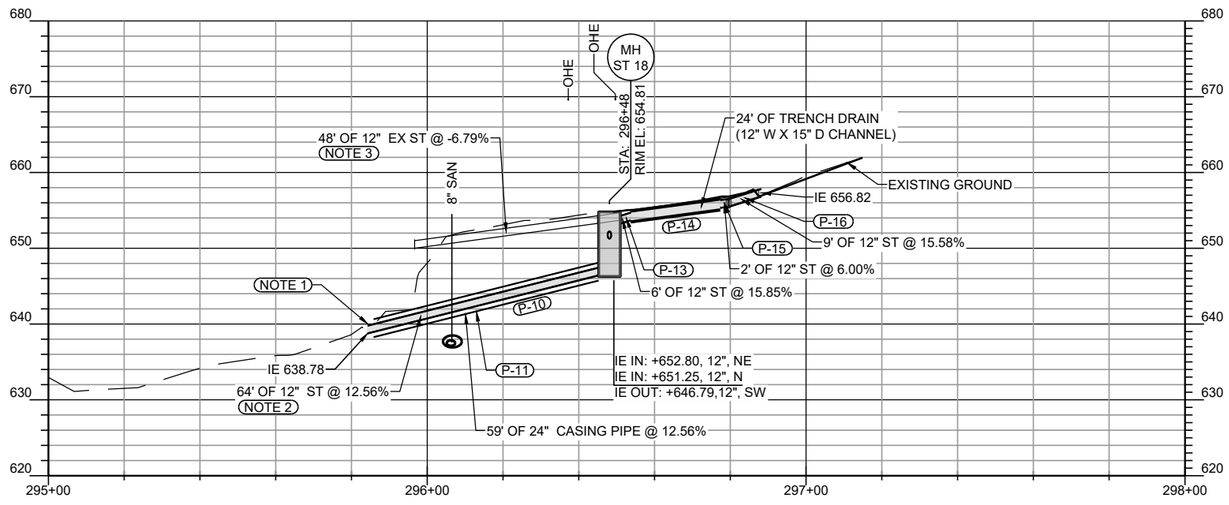
STORM SEWER
GREENWOOD CHAPEL AREA

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

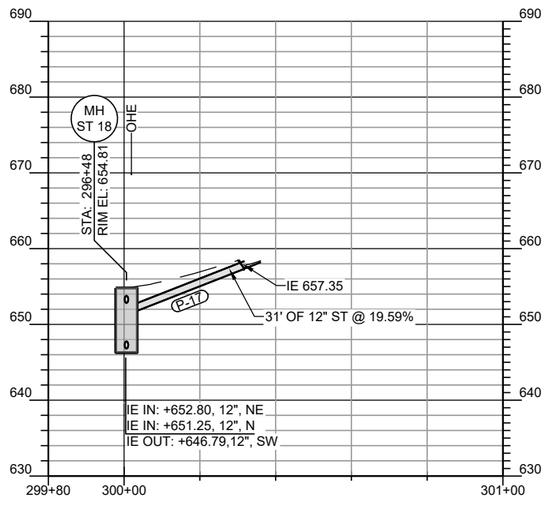
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NO. 17660.60.40
REV. 0
M.16

CADD D3-R5
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PROFILE THROUGH STORM PIPE GOING UNDER LIMESTONE BLOCK WALL



PROFILE THROUGH WEST CULVERT

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. INSTALL RCP APRON SECTION AND FOOTING ACCORDING TO SUDAS FIGURE 4030.221 AND 4030.222. INSTALL EROSION STONE FOR PIPE OUTLET IN ACCORDANCE WITH 9040.110. INSTALL A 8-INCH THICK LAYER OF EROSION STONE DOWNSTREAM OF OUTLET PIPE, WIDTH OF 10' AND 20' IN LENGTH. ADDITIONAL EROSION CONTROL STONE PLACEMENT MUST BE APPROVED BY CITY.

   FILL EXISTING ERODED AREAS AND DEEP HOLE WITH TRENCH FOUNDATION (1-INCH CLEAN) OR STABILIZED (FOUNDATION) MATERIAL.

2. REPLACE EXISTING 12-INCH PIPE THRU THE ROCK WALL WITH NEW 12-INCH CORRUGATED HDPE PIPE WITH TRENCHLESS CONSTRUCTION. INSTALL CASING IF REQUIRED FOR CONTRACTOR'S TRENCHLESS METHOD SELECTED. PROVIDE CASING DIAMETER AND CASING SPACERS IN ACCORDANCE WITH SUDAS SECTION 3020. PROTECT ALL EXISTING UTILITIES AND EXISTING SURFACE FEATURES. REPAIR ANY DAMAGE TO SURFACE FEATURES.

3. PLUG, FILL WITH FLOWABLE FILL AND ABANDON EXISTING 12" CORRUGATED PLASTIC PIPE THAT EXTENDS THRU LIMESTONE BLOCK ROCK WALL. AT ELEVATION IE OF 650.00. PROTECT EXISTING WALL.

4. INSTALL NEW TRENCH DRAIN WITH NEENAH R-4999 TYPE L3 VANE GRATE CASTING ACROSS PAVEMENT. APPROXIMATE LENGTH IS 24-FEET. ADJUST LENGTH FOR FIELD CONDITIONS. INSTALL CONCRETE CHANNEL FOR R4999 FRAME IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. INSIDE WIDTH OF FINISHED CHANNEL SHALL BE 12" AND CHANNEL DEPTH SET TO 15". INSTALL GRATES FLUSH WITH PAVEMENT. SEAL END OF CHANNEL AND PROVIDE PIPE OPENING FOR INLET AND OUTLET PIPES. INSTALL NEW PIPES TO CONNECT TO CULVERT INTAKES APPROXIMATELY AS SHOWN. SHAPE AND GRADE TO DRAIN AND PROVIDE COVER AND PROTECTION TO NEW PIPES.

5. PROTECT EXISTING GAS LINE. COORDINATE WITH GAS COMPANY ON PROTECTION OR RELOCATION.

6. REMOVE EXISTING CULVERTS ON EACH SIDE OF ROAD. REMOVE EXISTING SLOTTED DRAIN AND REPLACE WITH NEW.

7. PROTECT EXISTING CMP PIPE WITH IE = 645.05.

8. FOR PIPE MATERIAL REFER TO STORM SEWER PIPE TABLE ON C SHEETS.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

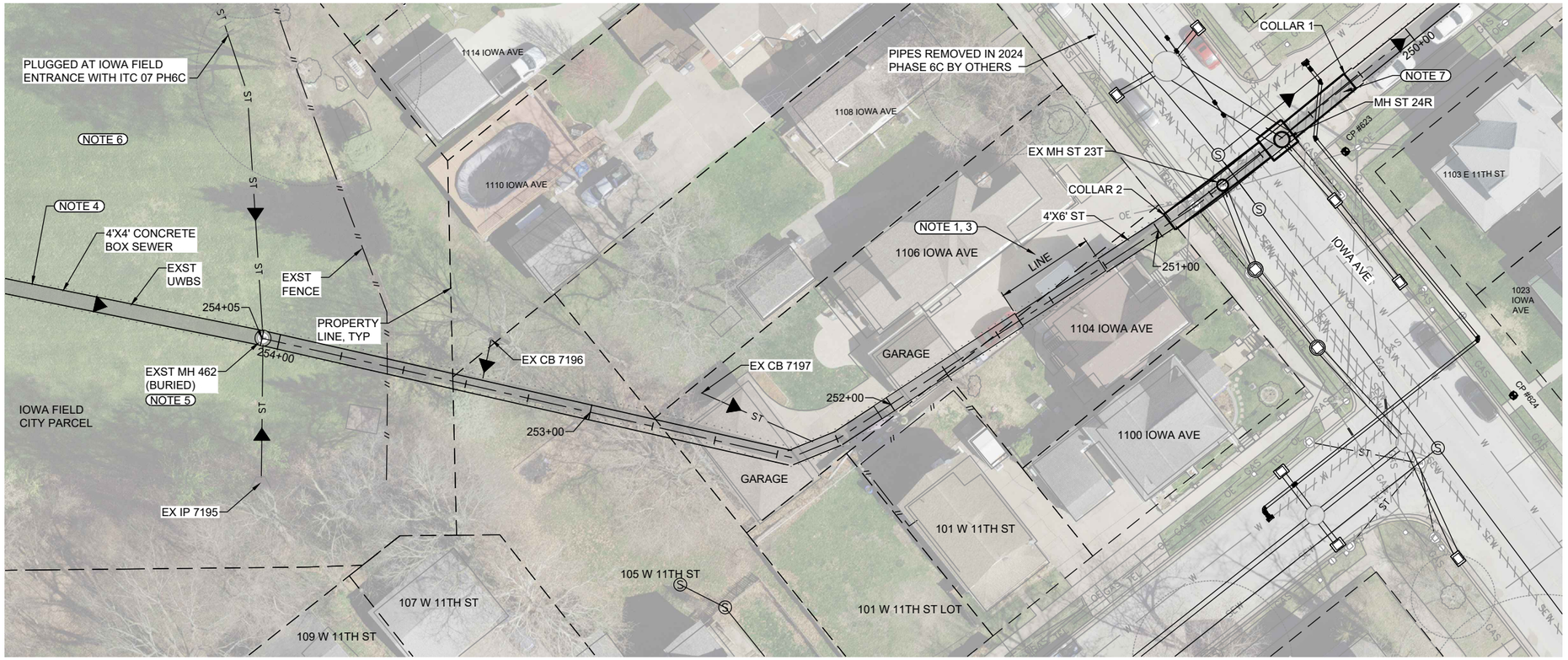
STORM SEWER
TERRACE HEIGHTS DRIVE

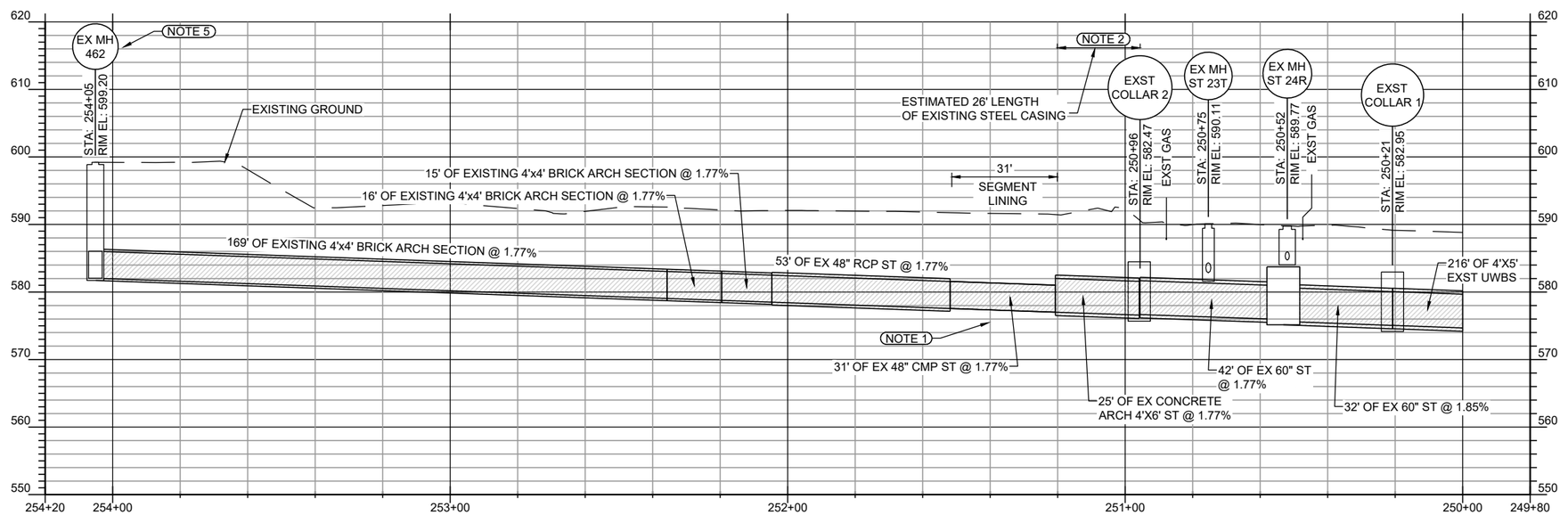
DESIGNED KK HEIM
DRAWN GM REEVES
CHECKED ER SCHALLERT
APPROVED JM BRADY
APPROVED KK HEIM
DATE MARCH 30, 2026

SCALE: 1" = 20'
NO. 17660.60.40
REV. 0
M.18

CADD D3-R5

STANLEY CONSULTANTS





AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NORTH

NOTES

1. INSTALL LINER IN 31' LONG SECTION OF CORRUGATED METAL PIPE (CMP). ACCESS POINTS ARE EXISTING MH 462 AND EXISTING MH ST 23T OR EXISTING MH ST 24R.

   SEE SHEET M.15 FOR PHOTOS OF INSIDE OF CMP SECTION.

   EXISTING MH ST 24R IS 96"X108" RECTANGULAR BASE SECTION WITH 48" RISER SECTION TO GRADE WITH 24" MH CASTING.

   EXISTING MH ST 23T IS 60"X60"X48" RCP TEE WITH 48" RISER SECTION TO GRADE WITH 24" MH CASTING.

2. EXISTING STEEL CASING INSTALLED INSIDE OF EXISTING UWBS IN PHASE 6C IN 2024 FROM PROPERTY LINE TOWARD THE WEST TO TRANSITION TO CMP. EXACT LENGTH OR STARTING POINT NEAR COLLAR 2 OF STEEL CASING MAY BE DIFFERENT THAN SHOWN.

3. CONTRACTOR AND SUPPLIER TO VERIFY SIZE OF CMP SECTION TO BE LINED. SIZE OF CMP IS SHOWN AS 48-INCHES IN VARIOUS REPORTS.

   CMP SECTION WAS INSTALLED INSIDE AN OLD BRICK SECTION OF SEWER THAT WAS REPAIRED IN THE 1950'S.

4. UPSTREAM FLOWS HAVE BEEN REMOVED. REMAINING FLOWS IN UWBS ARE LIMITED TO LOCAL STORM WATER FLOWS FROM THE IOWA FIELD AREA.

5. EXISTING MH 462 ACCESS IS BURIED. IF NEEDED FOR ACCESS, CONTRACTOR SHALL EXCAVATE AND USE AS AN ACCESS POINT, AND RE-BURY. IF ACCESS POINT IS TOO SMALL OR IS IN POOR CONDITION, REPORT TO CITY FOR DIRECTION.

6. SEE SHEET RR.19 FOR EROSION CONTROL AND EXISTING CONTOURS.

7. EXISTING ORIGINAL LWBS SEWER HAS BEEN REMOVED BETWEEN COLLAR 1 AND COLLAR 2 AND REPLACED WITH 60-INCH RCP.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER UWBS REHABILITATION

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

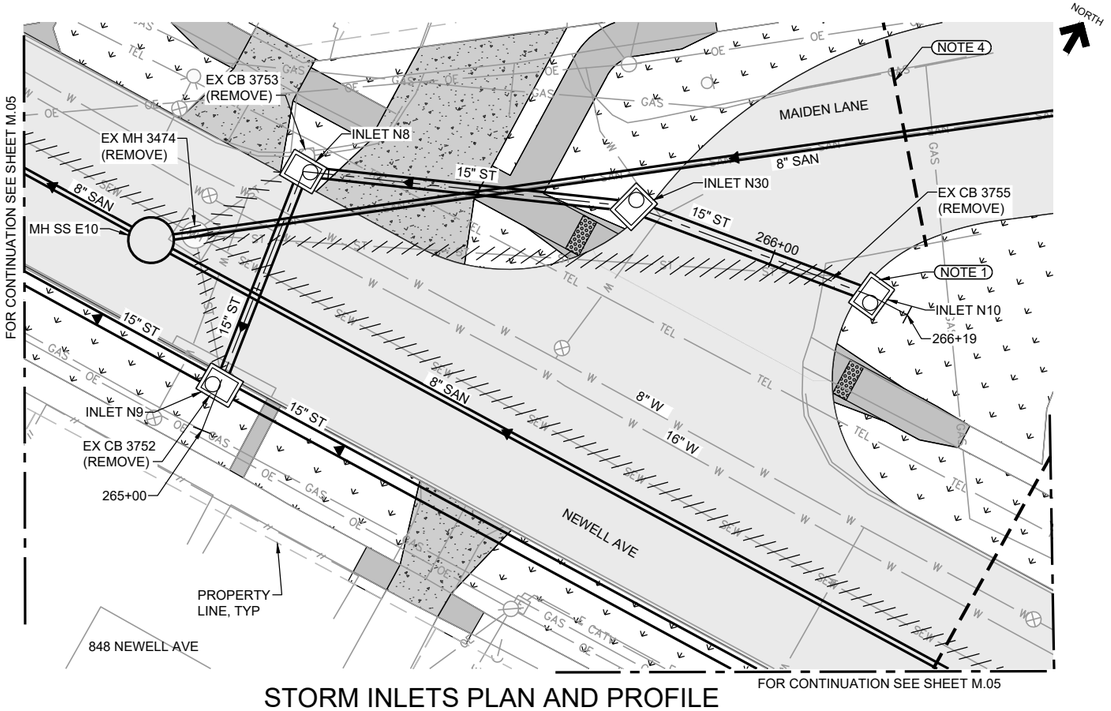
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NO. 17660.60.40 | REV. 0

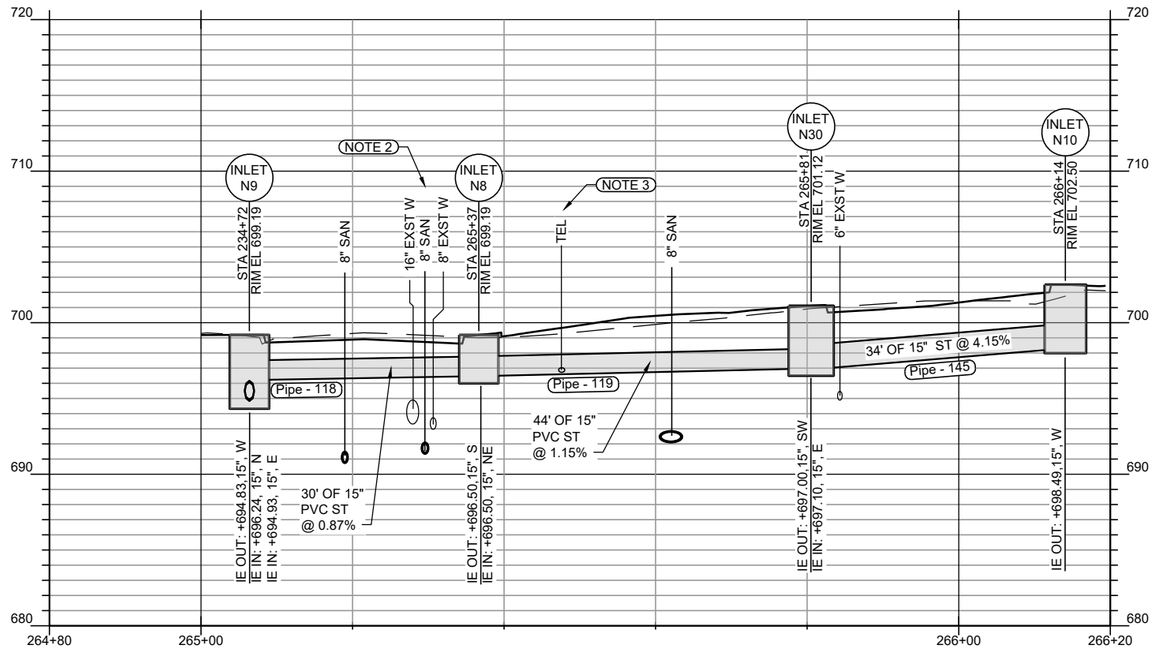
M.19

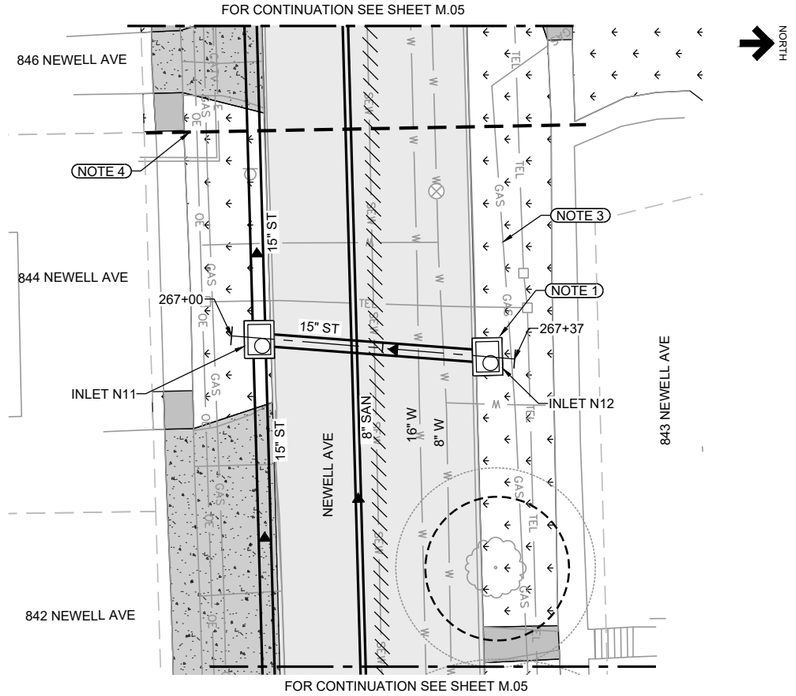
CADD D3-R5

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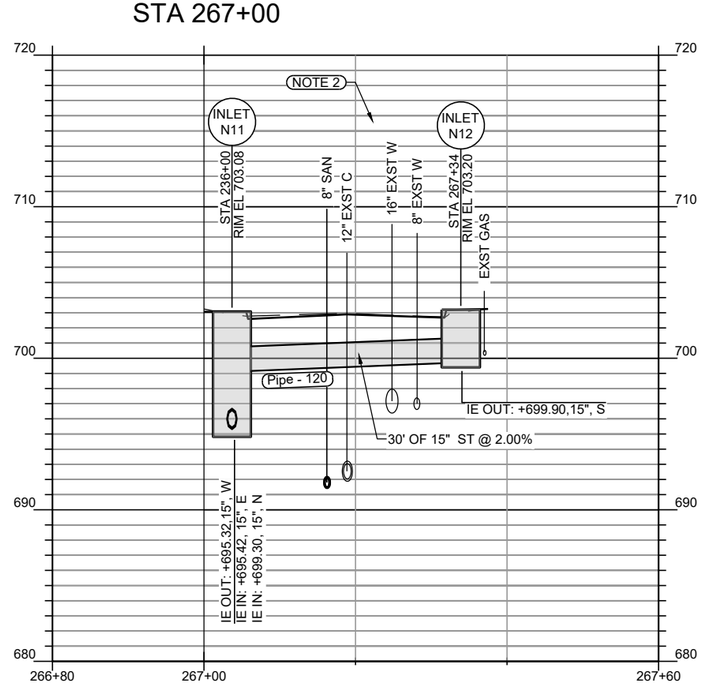


STORM INLETS PLAN AND PROFILE
NEAR 848 NEWELL AVE
STA 265+00





STORM INLETS PLAN AND PROFILE
NEAR 843 NEWELL AVE
STA 267+00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. INSTALL NEW INLETS AT LOCATIONS SHOWN. POSITION INLET STRUCTURE IN CURB LINE AS SHOWN ON SUDAS DETAILS.
2. MAINTAIN A MINIMUM OF 18-INCHES OF CLEARANCE BETWEEN BOTTOM OF STORM PIPE AND TOP OF EXISTING WATER MAIN. SEE MWM SHEET FOR ELEVATION DATA ON EXISTING WATER MAINS.
3. PROTECT EXISTING UTILITY. COORDINATE UTILITY SUPPORT OR RELOCATION WITH UTILITY OWNER.
4. APPROXIMATE STAGE BREAK TO NEAR MAIDEN LANE INTERSECTION. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN FLOW OF EXISTING SEWERS AT ALL TIMES. TEMPORARY SEWER CONNECTIONS MAY BE NEEDED.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER
STORM INLETS NEWELL AVE
SHEET 1

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

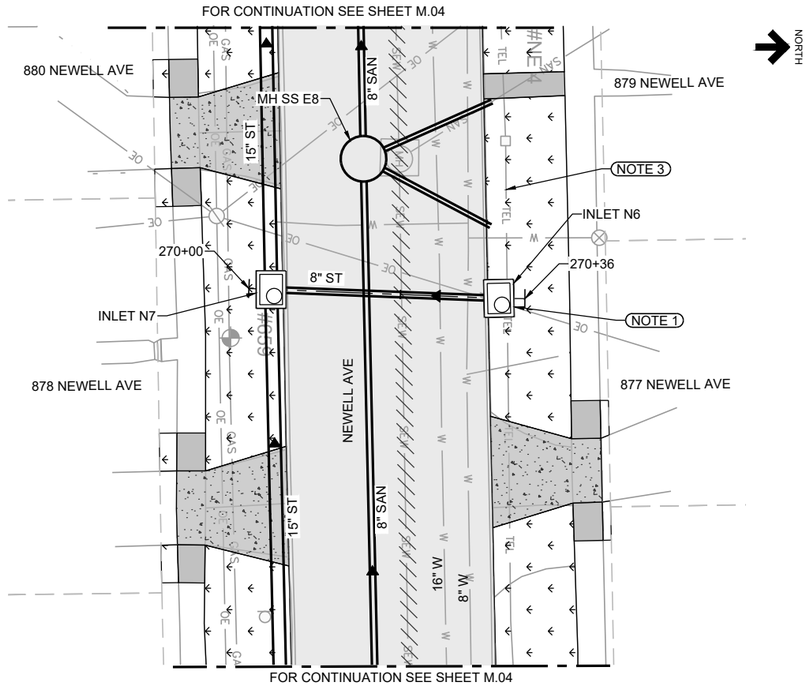
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NO. 17660.60.40 | REV. 0

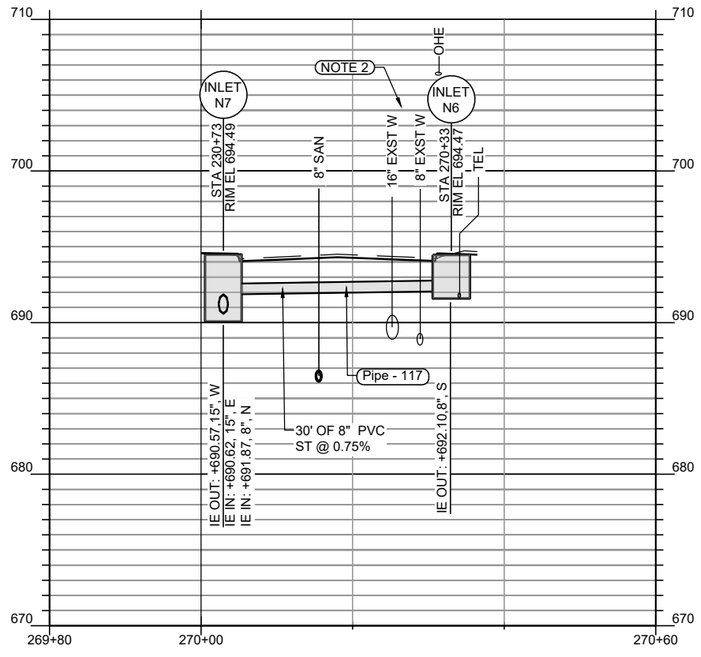
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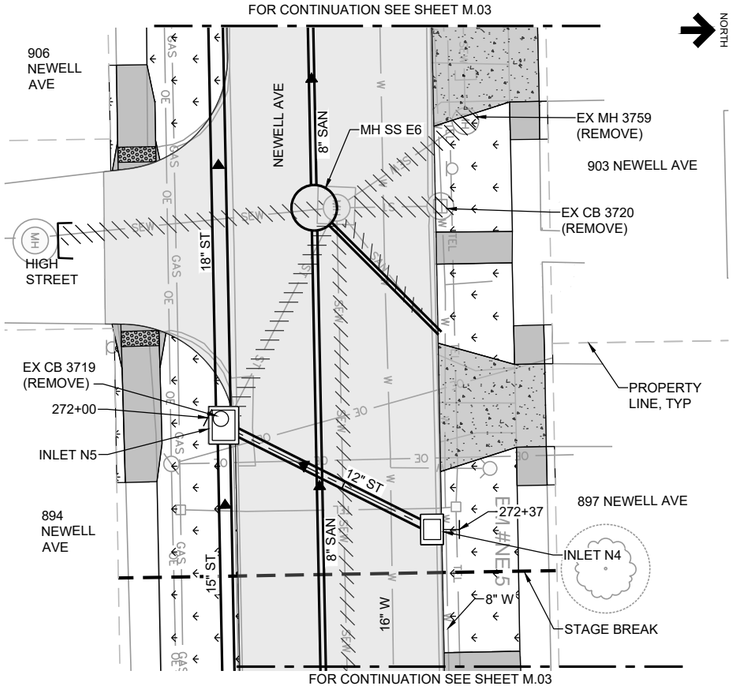
CADD D3-R5

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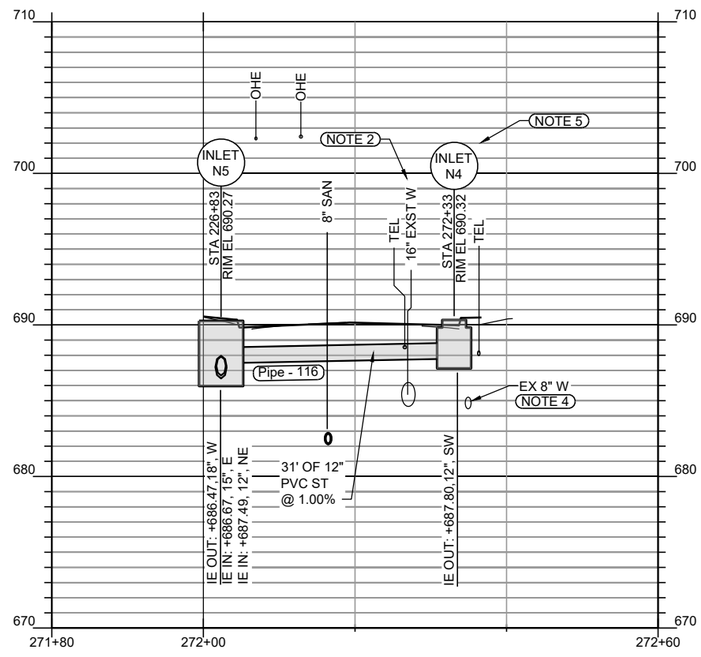


STORM INLETS PLAN AND PROFILE
NEAR 878 NEWELL AVE
STA 270+00





STORM INLETS PLAN AND PROFILE
NEAR 897 NEWELL AVE
STA 272+00



NOTES

1. INSTALL NEW INLETS AT LOCATIONS SHOWN. POSITION INLET STRUCTURE IN CURB LINE AS SHOWN ON SUDAS DETAILS.
2. MAINTAIN A MINIMUM OF 18-INCHES OF CLEARANCE BETWEEN BOTTOM OF STORM PIPE AND TOP OF EXISTING WATER MAIN.
3. PROTECT EXISTING UTILITY. COORDINATE WITH UTILITY OWNER FOR RELOCATION IF NECESSARY.
4. PROTECT EXISTING WATER. MAINTAIN EXISTING PIPE BACKFILL AND MATERIAL SUPPORT AROUND EXISTING WATER MAIN.
5. FIELD ADJUST RIM ELEVATION OF NEW INLET N4 TO MATCH PROPOSED PAVEMENT GRADES OF GUTTER AND TOP OF CURB. SEE L SHEET JOINTING PLAN FOR SURFACE ELEVATIONS AT INLET. CAST IN PLACE INLET MAY BE NEEDED TO ACHIEVE 18-INCHES OF CLEARANCE ABOVE 16-INCH WATER MAIN WITH INLET PIPING.

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

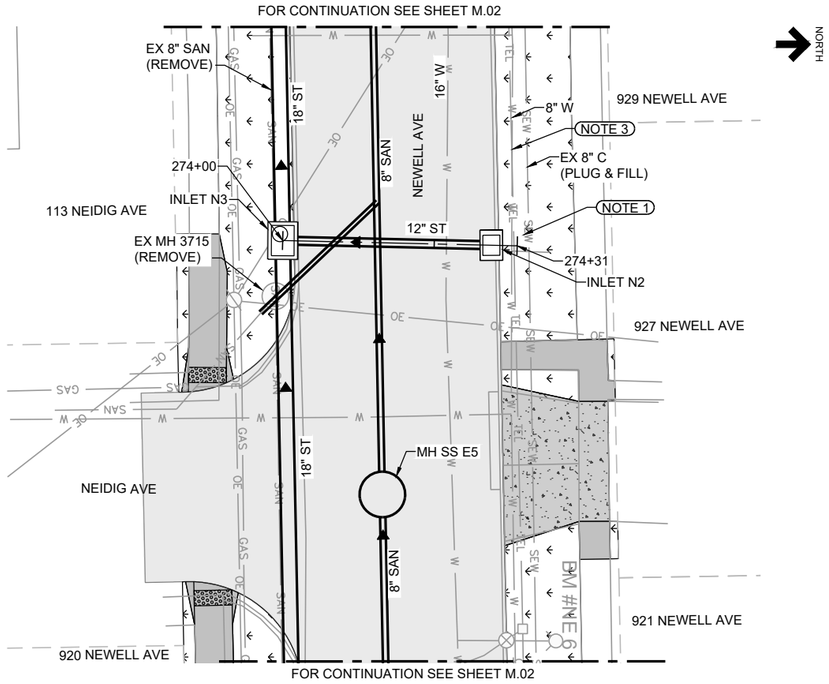
STORM SEWER
STORM INLETS NEWELL AVE
SHEET 2

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

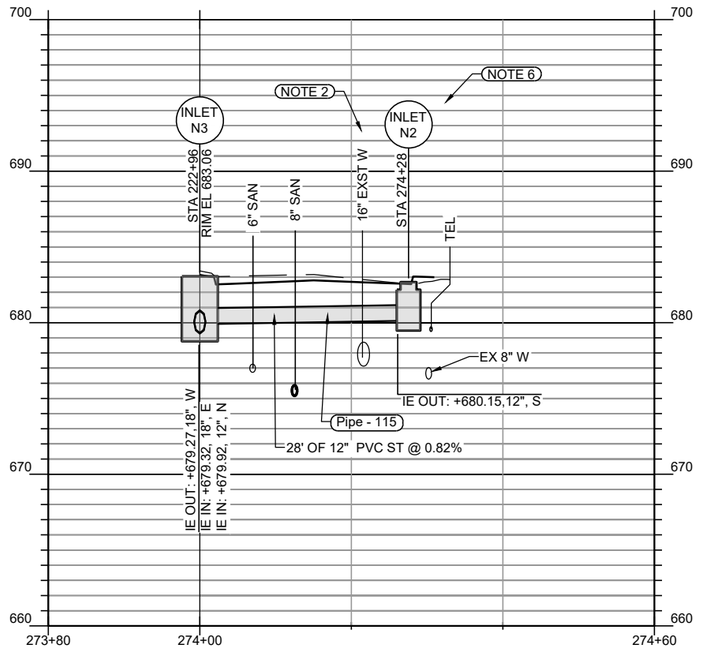
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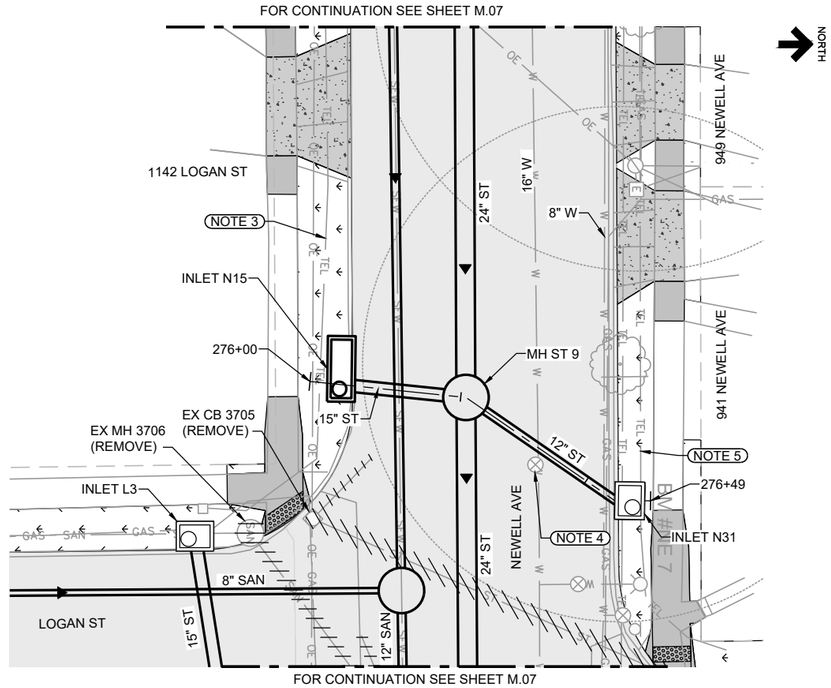
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M.23	0

I CADD D3-R5
10 STANLEY CONSULTANTS

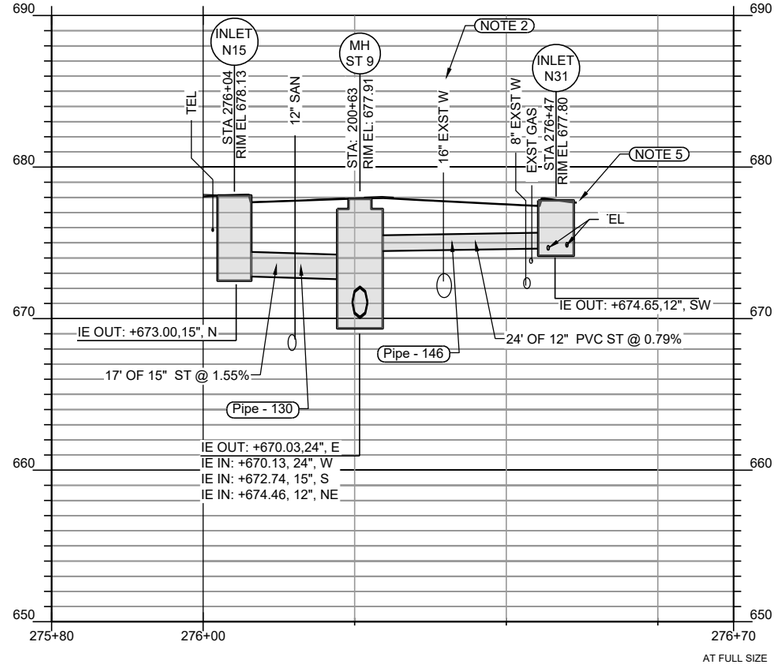


STORM INLETS PLAN AND PROFILE
NEAR 927 NEWELL AVE
STA 274+00





STORM INLETS PLAN AND PROFILE
NEAR 941 NEWELL AVE
STA 276+00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. INSTALL NEW INLETS AT LOCATIONS SHOWN. POSITION INLET STRUCTURE IN CURB LINE AS SHOWN ON SUDAS DETAILS.
2. MAINTAIN A MINIMUM OF 18-INCHES OF CLEARANCE BETWEEN BOTTOM OF STORM PIPE AND TOP OF EXISTING WATER MAIN.
3. PROTECT EXISTING UTILITY. COORDINATE WITH UTILITY OWNER FOR RELOCATION IF NECESSARY.
4. PROTECT EXISTING WATER VALVE.
5. COORDINATE WITH GAS AND TELEPHONE UTILITY ON PROTECTION OR RELOCATION OF UTILITY.
6. FIELD ADJUST RIM ELEVATION OF NEW INLET N2 TO MATCH PROPOSED PAVEMENT GRADES OF GUTTER AND TOP OF CURB. SEE L SHEET JOINTING PLAN FOR SURFACE ELEVATIONS AT INLET. CAST IN PLACE INLET MAY BE NEEDED TO ACHIEVE 18-INCHES OF CLEARANCE ABOVE 16-INCH WATER MAIN WITH INLET PIPING.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER
STORM INLETS NEWELL AVE
SHEET 3

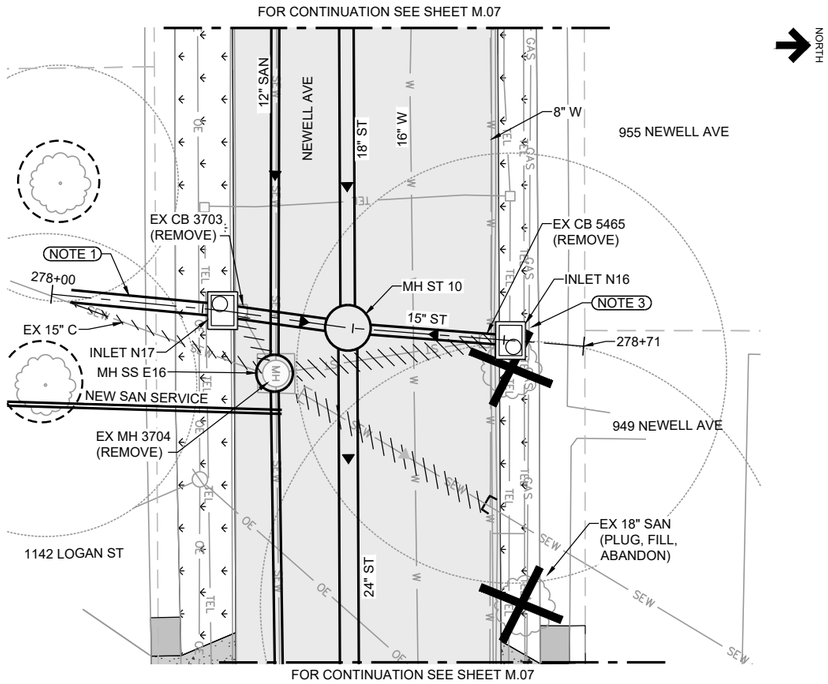
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 10'

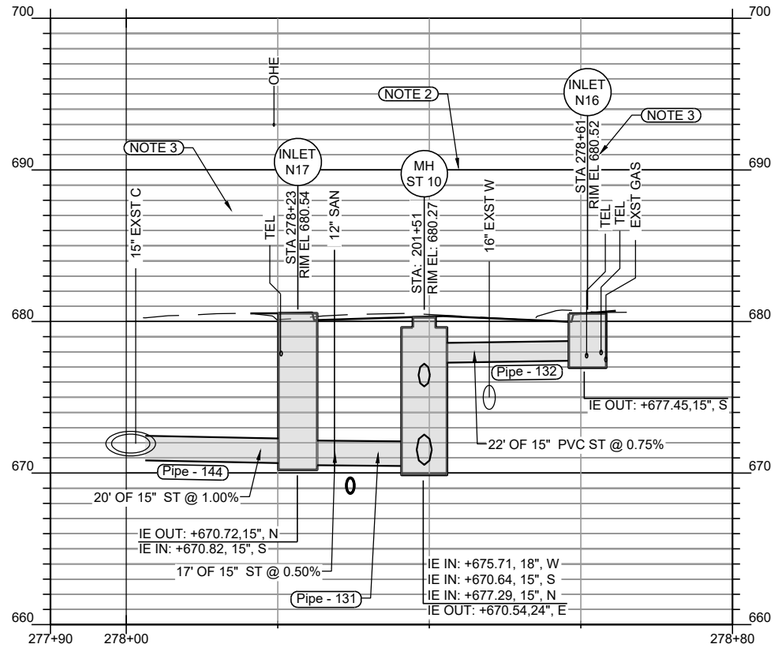
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M.24	0

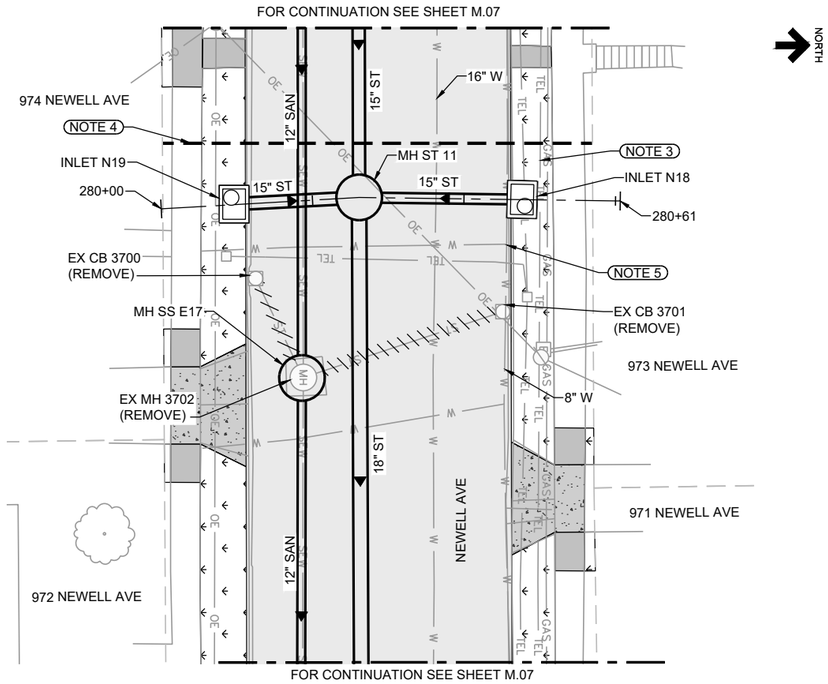
CADD D3-R5

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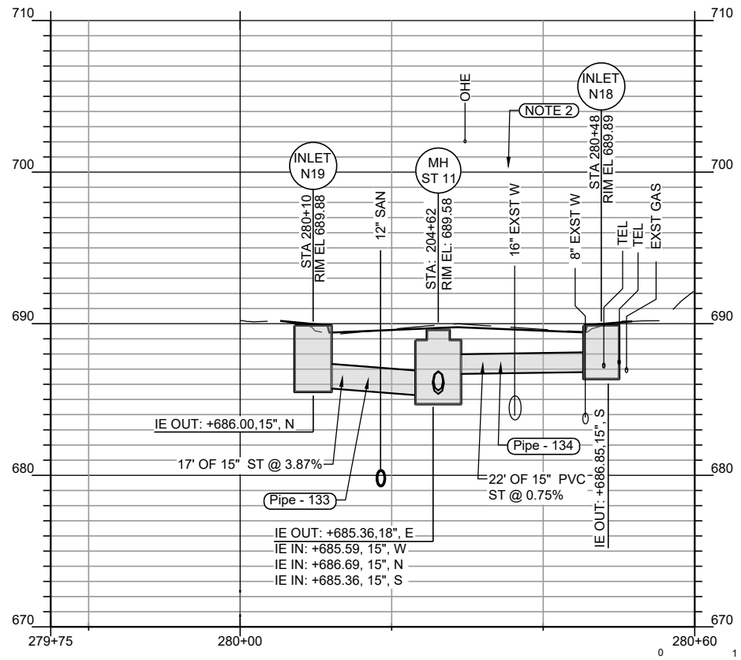


STORM INLETS PLAN AND PROFILE
NEAR 949 NEWELL AVE
STA 278+00





STORM INLETS PLAN AND PROFILE
NEAR 973 NEWELL AVE
STA 280+00



NOTES

1. LOCATE EXISTING SEWER AND CONNECT WITH FLEXIBLE WATERTIGHT SHIELDED COUPLER. CONTINUE POSITIVE PIPE SLOPE AND DIRECT TO NEW INLET.
2. MAINTAIN A MINIMUM OF 18-INCHES OF CLEARANCE BETWEEN BOTTOM OF STORM PIPE AND TOP OF EXISTING WATER MAIN.
3. PROTECT EXISTING GAS AND TELEPHONE. COORDINATE WITH UTILITY OWNERS ON PROTECTION OR RELOCATION.
4. APPROXIMATE STAGE BREAK PAST MH ST 11. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN FLOW OF EXISTING SEWERS AT ALL TIMES. TEMPORARY SEWER CONNECTIONS MAY BE NEEDED.
5. PROTECT EXISTING WATER MAIN. MAINTAIN EXISTING PIPE BACKFILL AND MATERIAL SUPPORT AROUND WATER MAIN.

NO.	REVISIONS	DSGN.	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER
STORM INLETS NEWELL AVE
SHEET 4

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

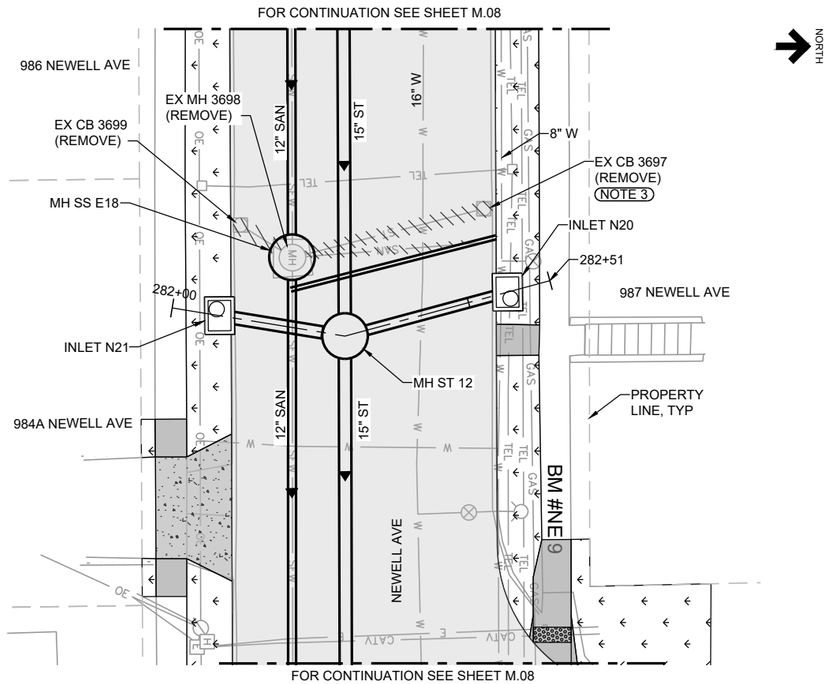
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M.25	0

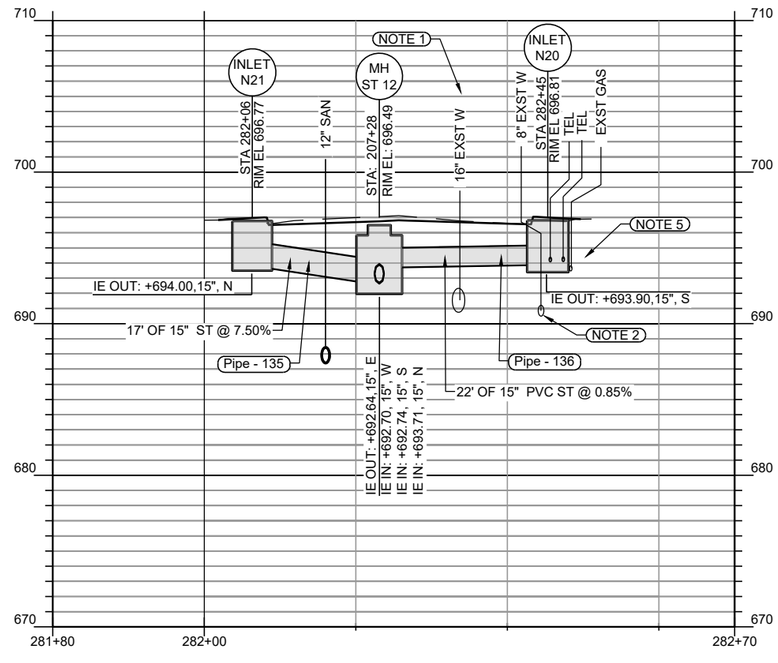
AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

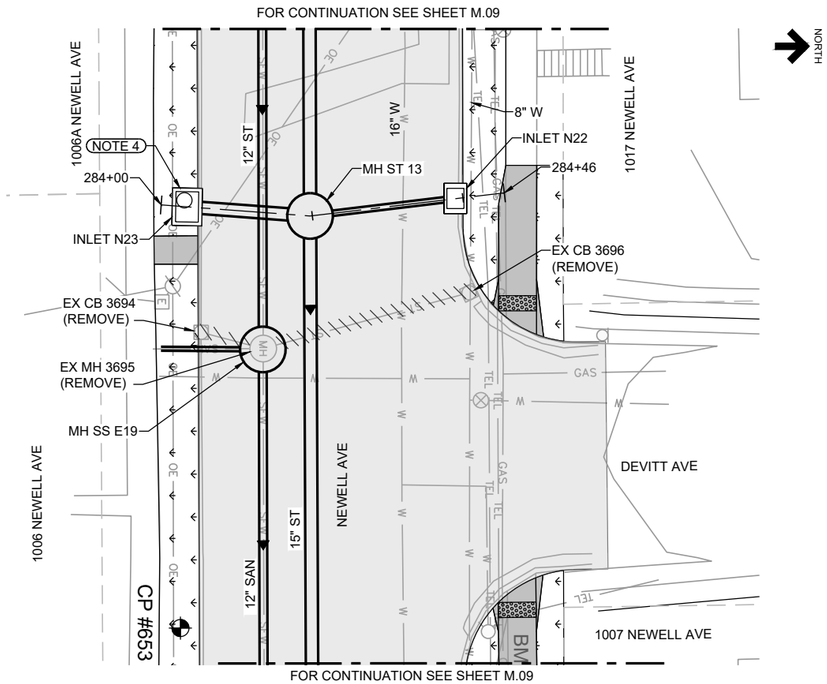
I CADD D3-R5

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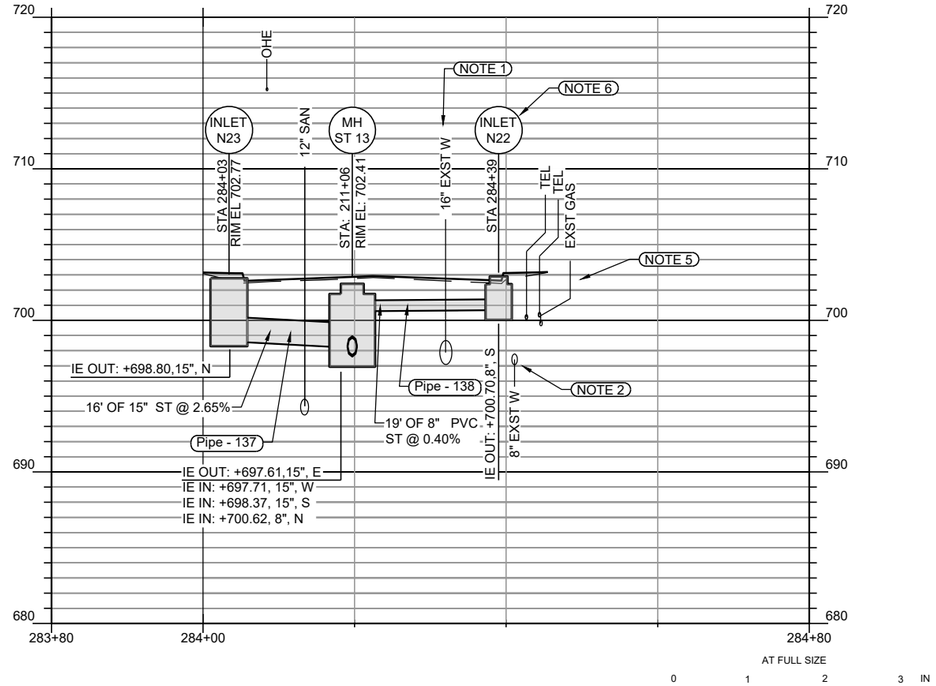


STORM INLETS PLAN AND PROFILE
NEAR 987 NEWELL AVE
STA 282+00





STORM INLETS PLAN AND PROFILE
NEAR 1017 NEWELL AVE
STA 284+00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. MAINTAIN A MINIMUM OF 18-INCHES OF CLEARANCE BETWEEN BOTTOM OF STORM PIPE AND TOP OF EXISTING WATER MAIN.
2. PROTECT EXISTING WATER. MAINTAIN EXISTING PIPE BACKFILL AND MATERIAL SUPPORT AROUND WATER MAIN.
3. REMOVE EXISTING INLETS AND PIPING IN THEIR ENTIRETY. PROTECT EXISTING UTILITIES.
4. INSTALL NEW INLETS AT LOCATIONS SHOWN. POSITION INLET STRUCTURE IN CURB LINE AS SHOWN ON SUDAS DETAILS.
5. COORDINATE WITH TELEPHONE AND GAS UTILITY ON PROTECTION OR RELOCATION OF UTILITY.
6. FIELD ADJUST RIM ELEVATION OF NEW INLET N22 TO MATCH PROPOSED PAVEMENT GRADES OF GUTTER AND TOP OF CURB. SEE L SHEET JOINTING PLAN FOR SURFACE ELEVATIONS AT INLET. CAST IN PLACE INLET IF NEEDED TO ACHIEVE 18-INCHES OF CLEARANCE ABOVE 16-INCH WATER MAIN WITH INLET PIPING.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

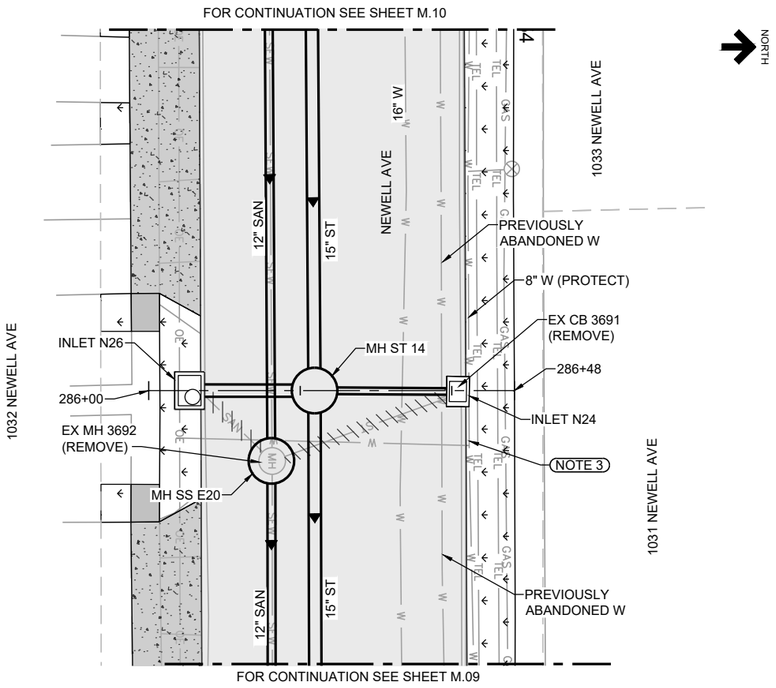
STORM SEWER
STORM INLETS NEWELL AVE
SHEET 5

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

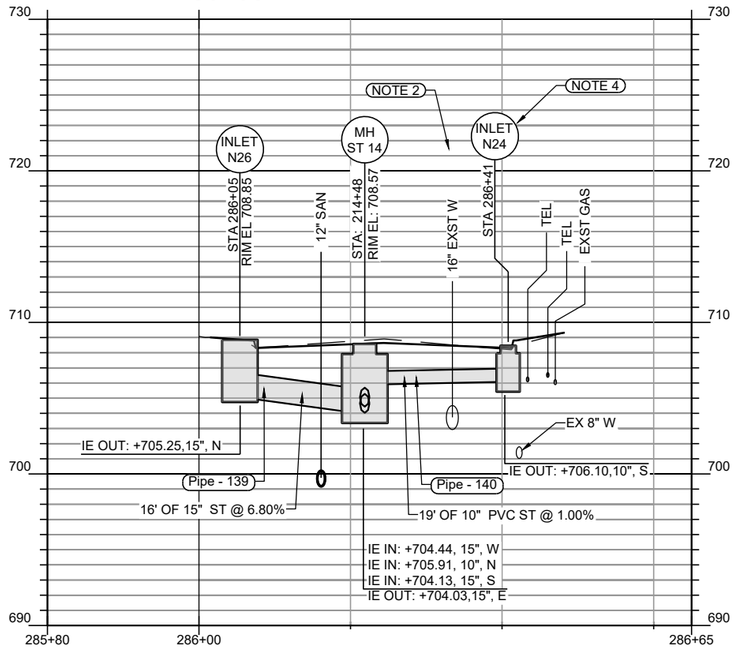
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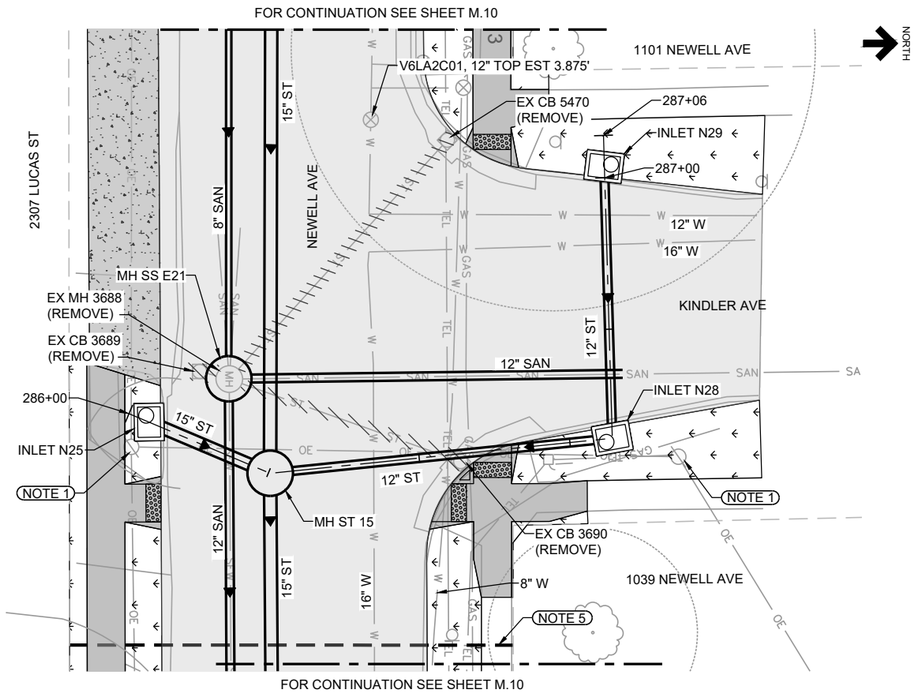
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I CADD D3-R5
STANLEY CONSULTANTS

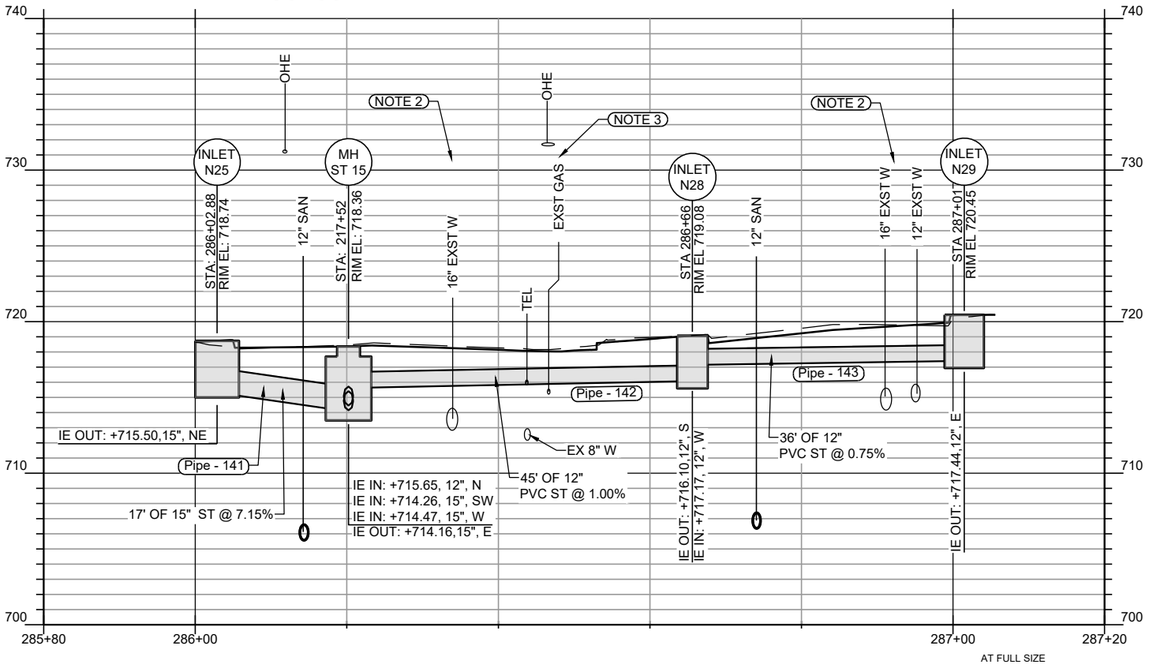


STORM INLETS PLAN AND PROFILE NEAR 1032 NEWELL AVE





STORM INLETS PLAN AND PROFILE NEAR 2307 LUCAS ST



NOTES

1. PROTECT EXISTING UTILITIES. SUPPORT POLE DURING CONSTRUCTION. IF UTILITIES CONFLICT WITH CONSTRUCTION COORDINATE WITH UTILITY OWNER ON RELOCATIONS.
2. PROVIDE A MINIMUM OF 18-INCHES CLEARANCE BETWEEN BOTTOM OF STORM SEWER AND TOP OF WATER.
3. PROTECT OR RELOCATE EXISTING TELEPHONE AND GAS. COORDINATE WITH UTILITY OWNERS.
4. FIELD ADJUST RIM ELEVATION OF NEW INLET N24 TO MATCH PROPOSED PAVEMENT GRADES OF GUTTER AND TOP OF CURB. SEE SHEET D.09 FOR RIM ELEVATION AT INLET. CAST IN PLACE INLET MAY BE NEEDED TO ACHIEVE 18-INCHES OF CLEARANCE ABOVE 16-INCH WATER MAIN WITH INLET PIPING.
5. APPROXIMATE STAGE BREAK TO THE EAST OF KINDLER INTERSECTION. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN FLOW OF EXISTING SEWERS AT ALL TIMES. TEMPORARY SEWER CONNECTIONS MAY BE NEEDED.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER
STORM INLETS NEWELL AVE
SHEET 6

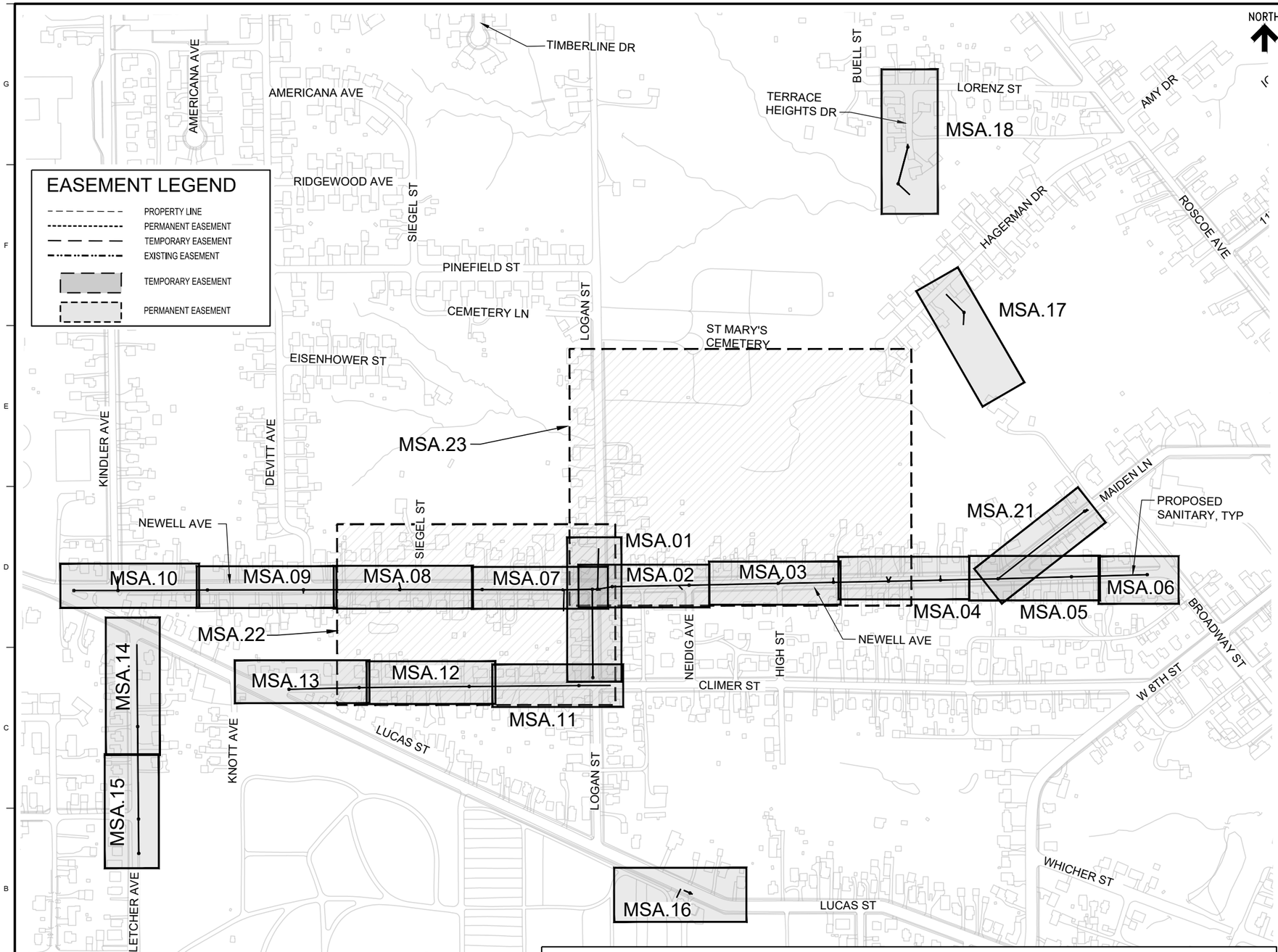
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 10'

NO. 17660.60.40	REV.
M.27	0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

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GENERAL NOTES

1. SHEETS MSA.19 AND MSA.20 DO NOT EXIST AND WILL NOT BE USED.
2. KEY PLAN DRAWING SHOWS PROPOSED SANITARY SEWERS SCHEMATICALLY. EXISTING UTILITIES ARE NOT SHOWN.
3. PROPOSED STORM SEWER IS SHOWN ON M SERIES DRAWINGS.
4. CONTRACTOR'S LICENSED LAND SURVEYOR SHALL PROVIDE RECORD DRAWING AS BUILT ELEVATIONS FOR ALL NEW AND EXISTING SEWERS, UTILITIES, AND SERVICE LINES ACCORDING TO SPECIFICATIONS. SEE ERN AND SPECIAL PROVISIONS.
5. SANITARY AND STORM SEWER PLAN DRAWINGS SHOW ONLY UTILITY SERVICES THAT WERE SURVEYED OR FIELD VERIFIED. NOT ALL SERVICES ARE SHOWN. CONTRACTOR SHALL LOCATE ALL SANITARY SERVICES ALONG PROPOSED SANITARY SEWER ALIGNMENT AND CONNECT TO NEW SANITARY SEWER. EACH PROPERTY OR RESIDENTIAL SERVICE SHALL BE ACCOUNTED FOR AND CONNECTED TO AN ACTIVE SANITARY TRUNK SEWER PRIOR TO CONTINUATION OF CONSTRUCTION PAST THAT PROPERTY. STORM CONNECTIONS SHALL NOT BE MADE TO NEW SANITARY SEWERS.
6. SANITARY SERVICE INFORMATION SHOWN IS SCHEMATIC AND MUST BE FIELD VERIFIED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING IF SERVICES ARE LIVE AND WHETHER THEY ARE STORM OR SANITARY. CONSULT CITY FOR CONFIRMATION ASSISTANCE.
7. CONTRACTOR SHALL STAY WITHIN CITY ROW LIMITS OR IDENTIFIED EASEMENTS AND CONSTRUCTION LIMITS AT ALL TIMES UNLESS OTHERWISE INDICATED. SURFACE REMOVAL AND REPLACEMENT LIMITS ON D SERIES DRAWINGS COINCIDE WITH CONSTRUCTION LIMITS. EASEMENT LIMITS ARE DENOTED ON SANITARY SEWER DRAWINGS. EASEMENT PLATS AND EXHIBITS WILL BE AVAILABLE TO CONTRACTOR'S SURVEYOR FOR USE DURING STAKING EASEMENTS. EASEMENT SHAPES CAN BE PROVIDED ELECTRONICALLY TO CONTRACTOR. STAKING OF EASEMENTS IS CONTRACTOR'S RESPONSIBILITY.
8. CONTRACTOR IS ENCOURAGED TO PERFORM EXPLORATORY TEST DIGS OR POTHOLING TO VERIFY DEPTH OF UTILITIES THAT COULD BE IN CONFLICT. COSTS TO PERFORM EXPLORATORY TEST DIGS OR POTHOLING ARE INCIDENTAL TO PIPE INSTALLATION UNLESS AUTHORIZED BY THE CITY AND SPECIFICALLY DEFINED AS AN ITEM TO BE PAID.
9. UNSUITABLE TRENCH EXCAVATED MATERIAL TO BE DISPOSED OF AT A LOCATION DETERMINED BY THE CONTRACTOR.
10. PRESERVE AND PROTECT TREES TO EXTENT POSSIBLE. COORDINATE WITH CITY ON EXTENT OF PROTECTION, DECISION TO REMOVE TREES, AND REMEDIAL ACTION IF DAMAGED. IF NECESSARY TRIM TREE BRANCHES BACK TO AVOID OVERHEAD CONFLICT WITH EXCAVATION MACHINERY TO PRESERVE TREES. SEE R SHEETS FOR LEGEND OF TREE REMOVALS.
11. SEE SUDAS SPECIFICATION SECTION 3010 FOR PIPE BACKFILL COMPACTION TESTING REQUIREMENTS AND FREQUENCY.
12. FIELD CONDITIONS DURING CONSTRUCTION MAY REQUIRE MODIFICATIONS TO PLAN LOCATION, PIPE SLOPES, OR ELEVATIONS OF PROPOSED GRAVITY SEWER. FIELD CHANGES MUST BE APPROVED BY CITY. SEWER CONSTRUCTION SHALL BE PERFORMED IN CONFORMANCE WITH DESIGN INTENT, CAPACITY CALCULATIONS, AND REGULATORY CRITERIA. IF NECESSARY, MODIFICATIONS TO PIPE SLOPE OR PIPE SIZE SHALL BE MADE CAREFULLY TO MAINTAIN MINIMUM DESIGN CAPACITY OF THE GRAVITY SEWERS. CONSULT DESIGN ENGINEER WHEN MODIFICATIONS REDUCE PIPE SIZE OR REDUCE/FLATTEN PIPE SLOPES TO CONFIRM PROJECT DESIGN CAPACITY IS MAINTAINED.
13. RIM ELEVATIONS OF MANHOLES ARE BASED ON PROPOSED GRADE ELEVATIONS WHERE AVAILABLE. OTHER LOCATIONS SHALL MATCH EXISTING CONDITIONS. RIM ELEVATIONS SHALL BE ADJUSTED TO MATCH ELEVATIONS OF AS-PLACED PAVEMENT. SEE DETAIL A.05 FOR FLUSH CASTING INSTALLATION TECHNIQUE.
14. SEE C SERIES SHEETS FOR PIPE AND MANHOLES TABLES INCLUDING NORTHING AND EASTING COORDINATE OF CENTER OF PROPOSED MANHOLE STRUCTURES.

EXISTING UTILITY NOTICE:
THE SIZE, NUMBER AND LOCATION OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND ARE FOR GENERAL INFORMATION ONLY. UTILITY SERVICE CONNECTIONS ARE NOT SHOWN ON THIS DRAWING. CONTRACTOR IS RESPONSIBLE FOR OBTAINING EXACT LOCATIONS OF EXISTING UTILITIES FROM UTILITY COMPANIES. SOME EXISTING UTILITIES MAY NOT BE SHOWN.

SHEETS MSA 19, MSA 20 DO NOT EXIST AND WILL NOT BE USED

GENERAL NOTES CONTINUED

15. REFER TO SUDAS DETAILS APPLICABLE TO PROJECT SUMMARIZED ON SHEET A.02 TABLE AND ADDITIONAL PIPE DETAILS ON A SERIES SHEETS.
16. SEE J SHEETS FOR TRAFFIC CONTROL AND STAGING PLANS AND LOGAN AND NEWELL SEWER CONSTRUCTION SEQUENCE.
17. WHEN EXISTING SANITARY SERVICES ARE CONNECTED TO NEW SANITARY SEWERS, REPLACE SERVICE TO A LOCATION OF 5' MAXIMUM BEYOND THE NEW BACK OF CURB WHEN SERVICE IS IN POOR CONDITION OR MATERIAL IS NOT PVC OR DIP. CONTRACTOR TO CONNECT NEW SERVICE PIPE TO AN EXISTING PIPE IN SOUND CONDITION. ADDITIONAL SERVICE LINE REPLACEMENT BEYOND THE CURB GREATER THAN 5-FEET MUST BE APPROVED BY CITY.
18. SUBDRAIN IS NOT SHOWN ON PLAN DRAWINGS. SUBDRAIN IS REQUIRED UNDER PAVEMENT ACCORDING TO DETAIL ON SHEET B.01 AND ESTIMATE REFERENCE NOTES. SUBDRAIN SHALL BE OUTLET TO NEAREST INLET.
19. SEE C SHEETS FOR TABLES WITH INFORMATION ON MANHOLES AND INTAKES TO BE REMOVED; DROP CONNECTIONS; AND SANITARY SERVICE LINE LENGTH SUMMARY.

AT FULL SIZE
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MUSCATINE, IOWA

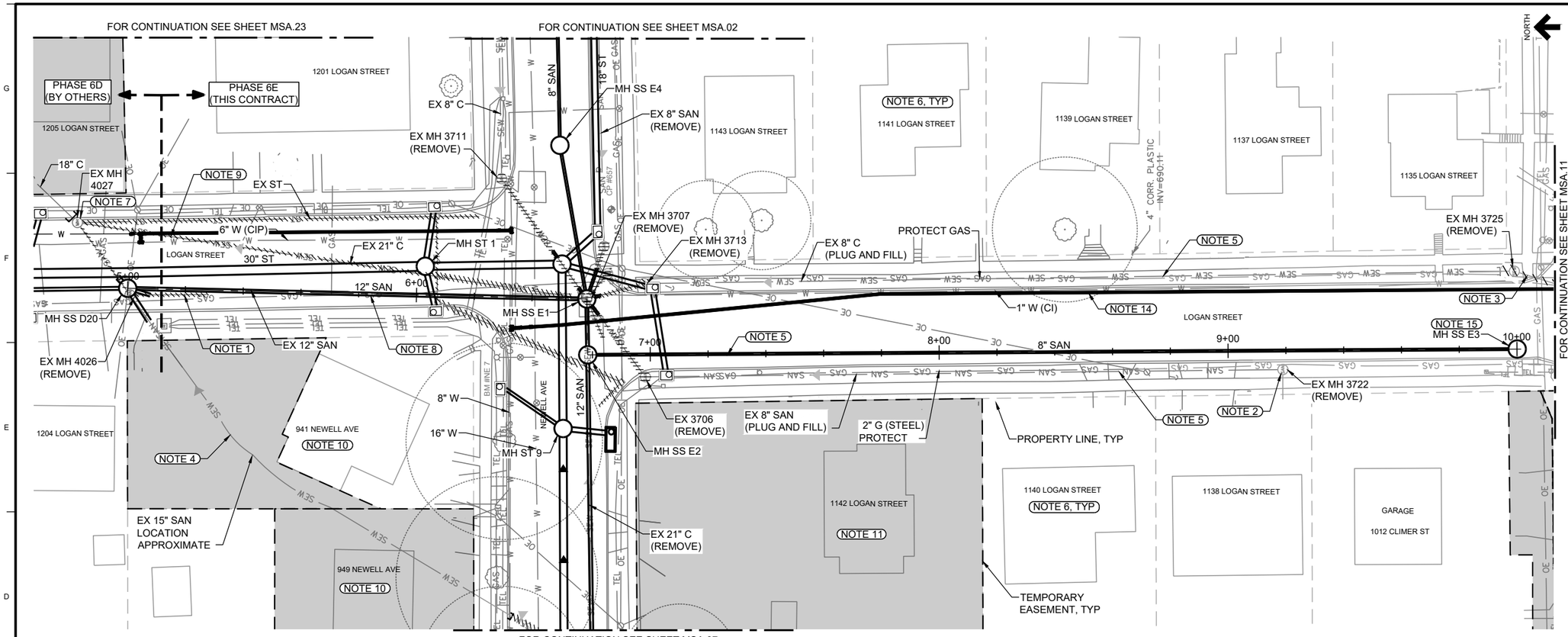
OVERALL SANITARY SEWER KEY PLAN

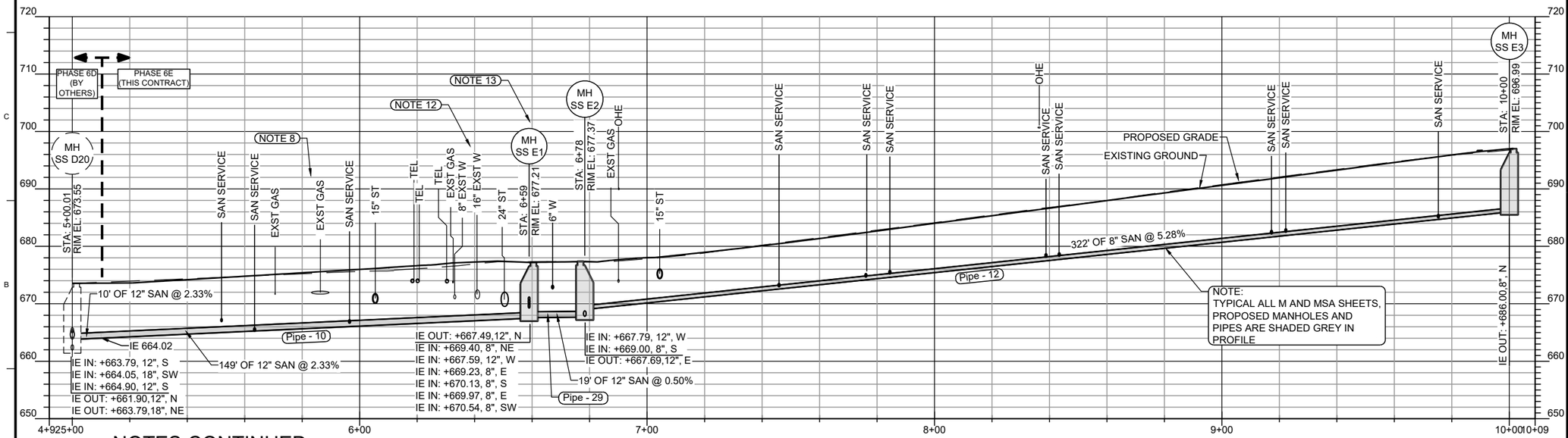
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: AS NOTED
NO. 17660.60.40
REV. 0
MSA.00

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NOTES

1. LOCATE END OF NEW SANITARY INSTALLED IN PHASE 6D BY OTHERS, REMOVE PIPE PLUG AND CONTINUE INSTALLATION OF SANITARY SEWER ON LOGAN ST AT LOCATION SHOWN. REMOVE EXISTING 12-INCH SANITARY WHOSE LOCATION IS UNKNOWN AND IS NOT CONNECTED TO EX MH 3707.
2. DETERMINE IF 4-INCH CLAY CONNECTED TO EX MH 3722 FROM WEST IS AN ACTIVE SANITARY SERVICE. IF ACTIVE CONNECT TO NEW SANITARY SEWER ON LOGAN.
3. UPON COMPLETION OF SEWER WORK IN CLIMER INTERSECTION, DISCONNECT AND REMOVE 8-INCH CLAY SEWER AT EX MH 3725 FROM SOUTHWEST.
4. UPON REMOVAL OF SERVICES AND FLOWS FROM 15-INCH SANITARY EXTENDING FROM MH SSD20/EX MH 4206 ACROSS PROPERTIES OF 941 AND 949 NEWELL AVENUE AND TOWARD MH 3704, 15-INCH SANITARY SHALL BE PLUGGED AND FILLED.
5. INSTALL NEW SANITARY BETWEEN NEWELL AND CLIMER AT LOCATION SHOWN. EXISTING SEWERS IN THE EAST AND WEST BOULEVARD SHALL BE PLUGGED, FILLED, AND ABANDONED IN PLACE.
6. LOCATE ALL EXISTING SERVICES AND CONNECT TO NEW SANITARY SEWER. DISCONNECT AND PLUG SERVICE LINE CONNECTIONS TO EXISTING COMBINED AND SANITARY SEWERS.
7. TEMPORARY CONNECTIONS OF NEW PHASE 6E STORM AND SANITARY CAN BE MADE TO EXISTING MH 4027 IF PHASE 6D SANITARY AND STORM SEWERS ARE NOT AVAILABLE AT THE BEGINNING OF PHASE 6E. PIPE SIZE OF ANY TEMPORARY CONNECTIONS SHALL BE AS LARGE AS THE PROPOSED PIPING.
8. PROTECT EXISTING GAS LINE NEAR ALIGNMENT OF NEW SANITARY. IF RELOCATION IS NEEDED COORDINATE WITH GAS COMPANY.
9. EX 21" C TO REMAIN ACTIVE UNTIL 6E COMPLETION OF UPSTREAM SEPARATION AT A MINIMUM PAST EX MH 3704 (ON NEWELL) AND TEMPORARY CONNECTIONS ARE NO LONGER NEEDED.
10. EXISTING SANITARY SERVICES FOR 941 NEWELL AND 949 NEWELL CONNECT TO EXISTING 15" SAN THROUGH PROPERTIES. INTERCEPT EXISTING SERVICE LINES IN YARDS AND RUN NEW SERVICE TO NEW SANITARY IN THE STREET.
11. ADDRESS 1142 LOGAN STREET SERVICE CONNECTS TO EXISTING 15-INCH COMBINED THAT CUTS THROUGH PRIVATE PROPERTY, SEE SHEET MSA.22. LOCATE SERVICE FOR 1142 AND CONNECT TO LOGAN OR NEWELL SANITARY SEWER.

NOTES CONTINUED

12. PROTECT EXISTING WATER AND SUPPORT DURING CONSTRUCTION OF NEW PIPES UNDERNEATH WATER.
13. SEE SHEET MSA.07 FOR NOTES ABOUT TEMPORARY CONNECTIONS AT MH SS E1 TO EXISTING SEWERS. TEMPORARY CONNECTIONS SHALL NOT INCLUDE DROP CONNECTIONS. ROTATE ECCENTRIC CONE SECTION OF SANITARY MANHOLE AND PLACE CASTING AS SHOWN ON JOINTING PLANS (L SHEETS).
14. SEE MPW PLANS FOR WATER MAIN WORK TO BE INSTALLED BY CITY'S PHASE 6E CONTRACTOR ON LOGAN STREET.
15. ROTATE ECCENTRIC CONE SECTION OF SANITARY MANHOLE AND PLACE CASTING AS SHOWN ON JOINTING PLANS (L SHEETS).

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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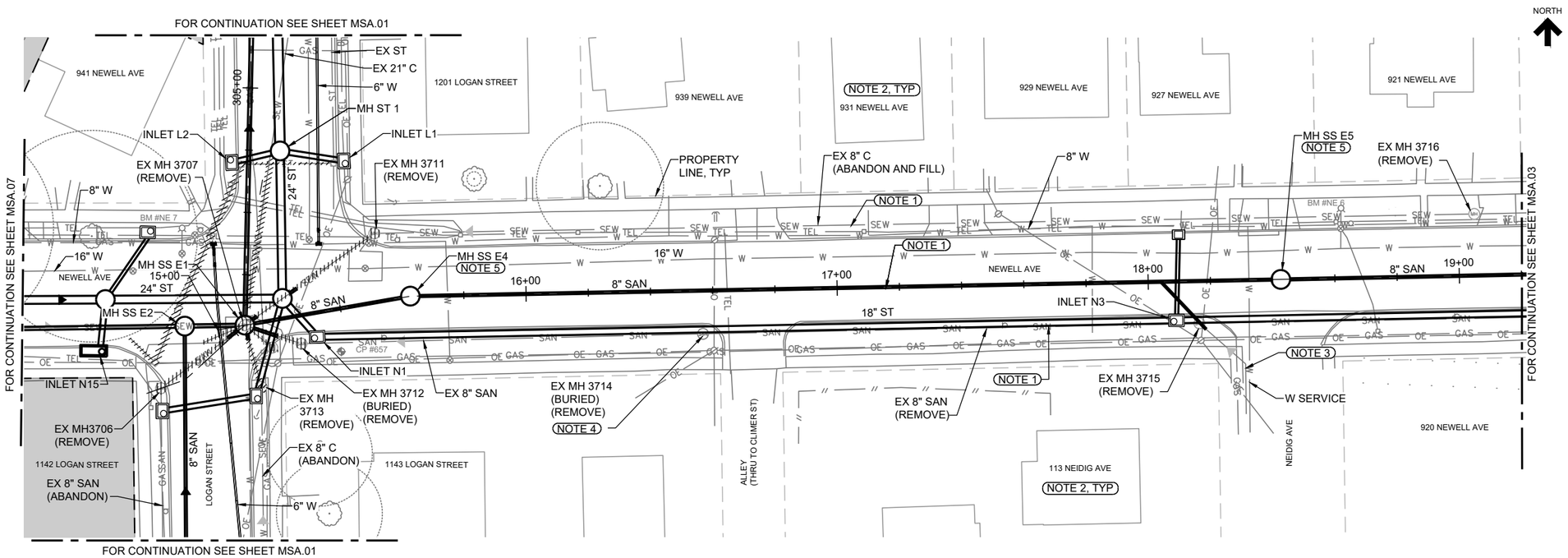
CITY OF MUSCATINE - PHASE 6E
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MUSCATINE, IOWA

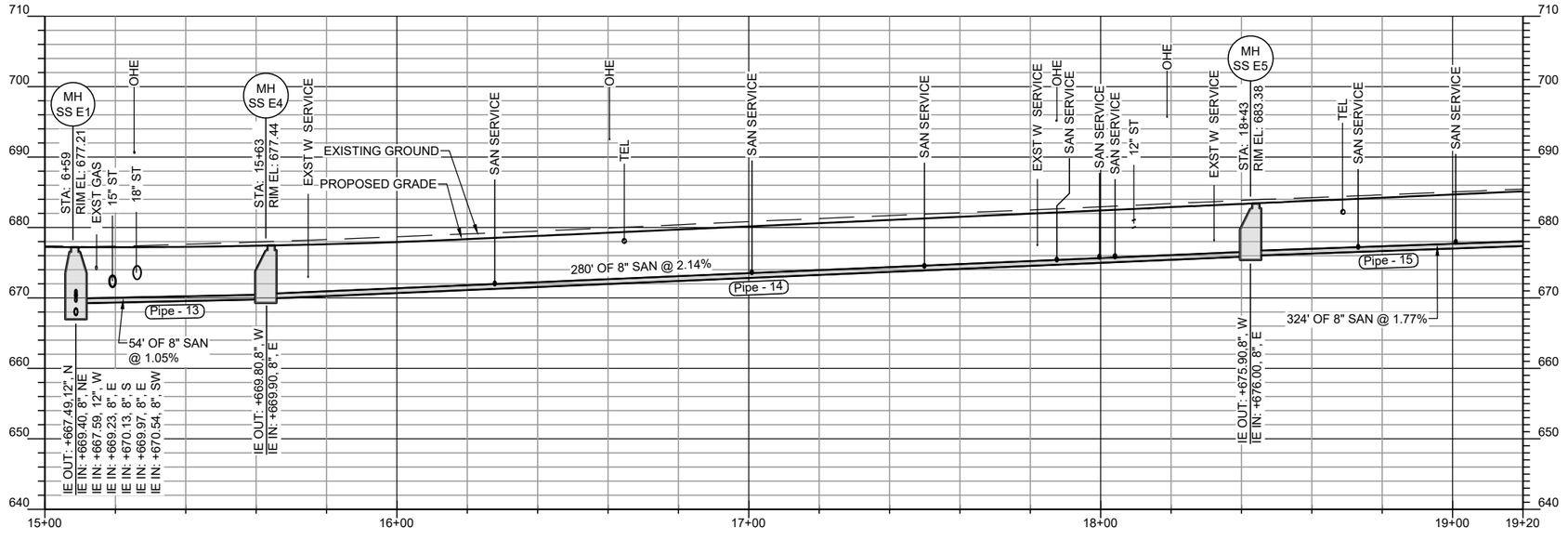
SANITARY SEWER LOGAN STREET

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 20'
NO. 17660.60.40
REV. 0
MSA.01

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NOTES

1. INSTALL NEW SANITARY ON NEWELL AVENUE FROM LOGAN TO HIGH STREET AT LOCATION SHOWN. LOCATE SANITARY SERVICES CONNECTED TO EXISTING SEWERS AND CONNECT TO NEW SEWER. PLUG EXISTING SERVICE CONNECTIONS TO EXISTING SEWERS. TRANSITION UPSTREAM FLOWS TO NEW SANITARY SEWER PRIOR TO REMOVAL OF EXISTING SEWERS. TEMPORARY CONNECTIONS BETWEEN EXISTING AND NEW SEWERS MAY BE REQUIRED AT THE LOGAN INTERSECTION TO MAINTAIN CONTINUOUS SEWAGE FLOW DURING CONSTRUCTION.

   REMOVE EXISTING 8-INCH SANITARY RUNNING IN SOUTH BOULEVARD IN ITS ENTIRETY. PLUG, FILL, AND ABANDON IN PLACE EXISTING 8-INCH COMBINED RUNNING IN NORTH BOULEVARD.

2. LOCATE ALL EXISTING SANITARY SERVICES AND CONNECT TO NEW SANITARY SEWER.

3. AT EXISTING MH 3715 DISCONNECT EXISTING 6-INCH SERVICE AND EXTEND TO NEW SANITARY. EXISTING SERVICE IS FROM ADDRESS 111 NEIDIG.

4. CONFIRM EXISTING 10-INCH CONCRETE PIPE CONNECTION FROM SOUTHEAST IS PLUGGED AS INDICATED BY SURVEY. DURING MANHOLE REMOVAL, PRESERVE EXISTING PIPE PLUG OF 10-INCH PIPE FROM SOUTHEAST. IF DISTURBED, RE-PLUG WITH CONCRETE.

5. ROTATE ECCENTRIC CONE SECTION OF SANITARY MANHOLE AND PLACE CASTING AS SHOWN ON JOINTING PLANS (L SHEETS).

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
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SANITARY SEWER NEWELL AVENUE SHEET 1

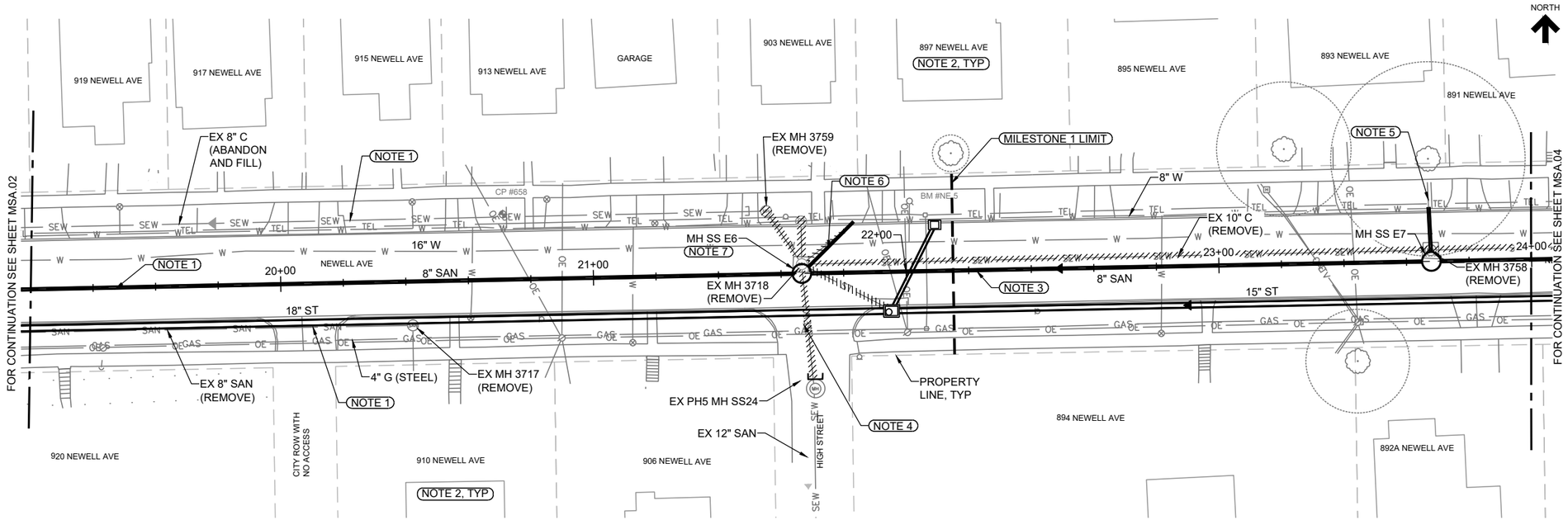
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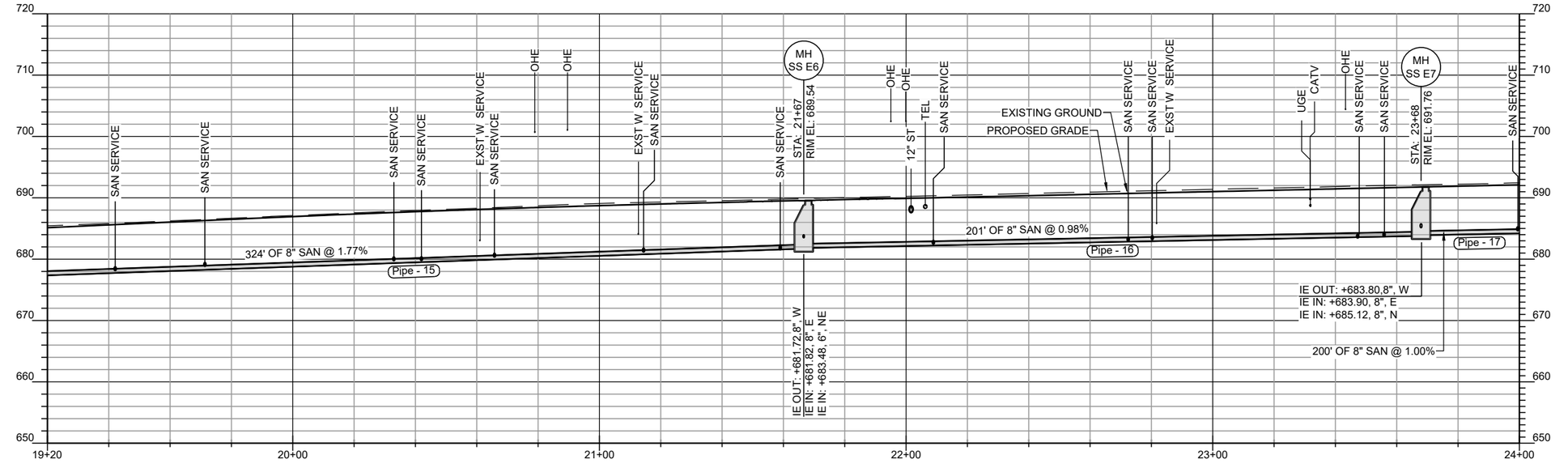
SCALE: 1" = 20'

NO. 17660.60.40 | REV. MSA.02 | 0

AT FULL SIZE

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AT FULL SIZE

0 1 2 3 IN

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NOTES

1. INSTALL NEW SANITARY ON NEWELL AVENUE FROM LOGAN TO HIGH STREET AT LOCATION SHOWN. LOCATE SANITARY SERVICES CONNECTED TO EXISTING SEWERS AND CONNECT TO NEW SEWER. PLUG EXISTING SERVICE CONNECTIONS TO EXISTING SEWERS. TRANSITION UPSTREAM FLOWS TO NEW SANITARY SEWER PRIOR TO REMOVAL OF EXISTING SEWERS. TEMPORARY CONNECTIONS BETWEEN EXISTING AND NEW SEWERS MAY BE REQUIRED AT THE LOGAN INTERSECTION TO MAINTAIN CONTINUOUS SEWAGE FLOW DURING CONSTRUCTION.

   REMOVE EXISTING 8-INCH SANITARY RUNNING IN SOUTH BOULEVARD IN ITS ENTIRETY. PLUG, FILL, AND ABANDON IN PLACE EXISTING 8-INCH COMBINED RUNNING IN NORTH BOULEVARD.

2. LOCATE ALL EXISTING SANITARY SERVICES AND CONNECT TO NEW SANITARY SEWER.

3. INSTALL NEW SANITARY ON ALIGNMENT SHOWN, SOUTH OF NEW PAVEMENT CENTERLINE. REMOVE EXISTING SEWER AND MANHOLES AS WORK PROGRESSES AND CONNECT ALL ACTIVE SANITARY SERVICES TO NEW SANITARY. PLUG ALL OPEN ENDS OF INACTIVE SERVICES; REMOVE ANY PIPING IN STREET ROW, AND ABANDON REMAINING PIPING IN PLACE. FIELD VERIFY WHETHER SERVICE IS 'LIVE' AND WHETHER IT IS STORM OR SANITARY.

4. EXISTING SEWER ON HIGH STREET WAS MODIFIED IN PHASE 5 BY OTHERS. MANHOLE PH5 MH SS24 WAS ADDED AND CONNECTION TO NEWELL AVENUE SEWER WAS PLUGGED OFF.

   IF ABANDONED HIGH STREET SEWER REMAINS IN RIGHT-OF-WAY REMOVE TO THE LIMITS OF PAVEMENT REMOVAL IN THIS CONTRACT AND PLUG OFF SEWER.

5. AT EX MH 3758 CONNECT TO EXISTING 8-INCH CLAY TO NORTH AT ELEVATION SHOWN. CONFIRM IF PIPE IS AN ACTIVE SANITARY SERVICE PRIOR TO CONNECTING.

6. AT EX MH 3718 CONNECT TO EXISTING 6-INCH STEEL PIPE TO NORTHEAST. CONFIRM PIPE IS ACTIVE SANITARY SERVICE PRIOR TO CONNECTING.

7. ROTATE ECCENTRIC CONE SECTION OF SANITARY MANHOLE AND PLACE CASTING AS SHOWN ON JOINTING PLANS (L SHEETS).

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SANITARY SEWER NEWELL AVENUE SHEET 2

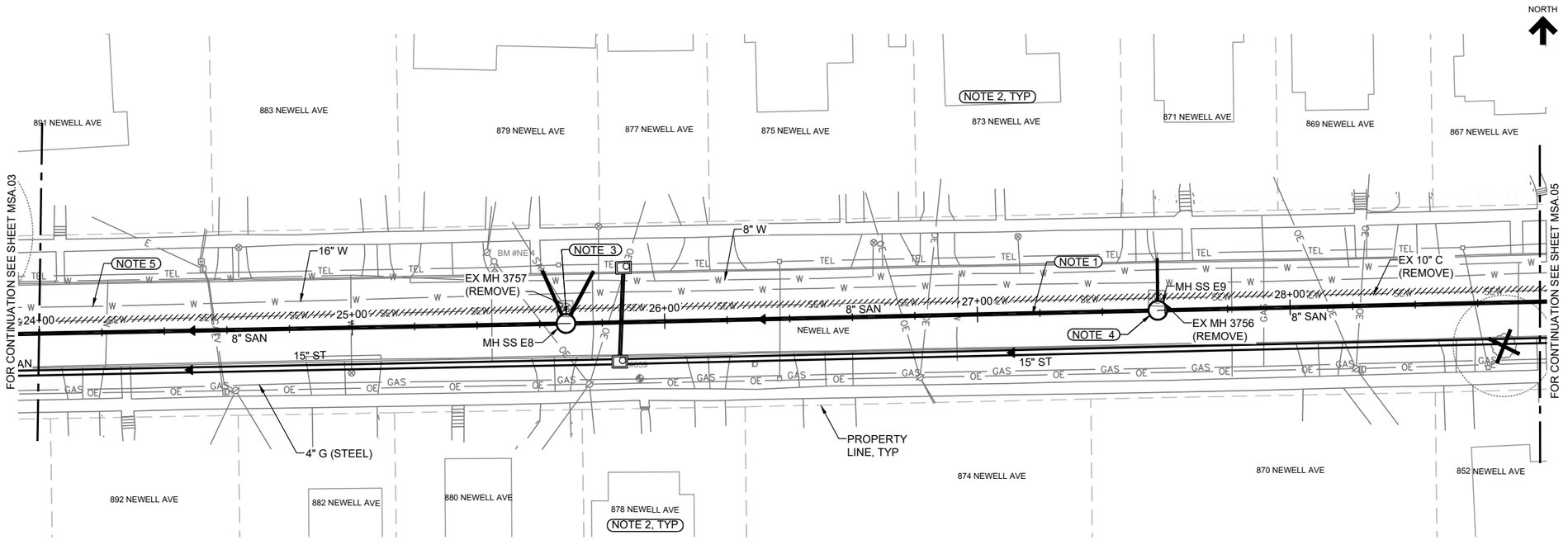
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APPROVED	JM BRADY
APPROVED	KK HEIM
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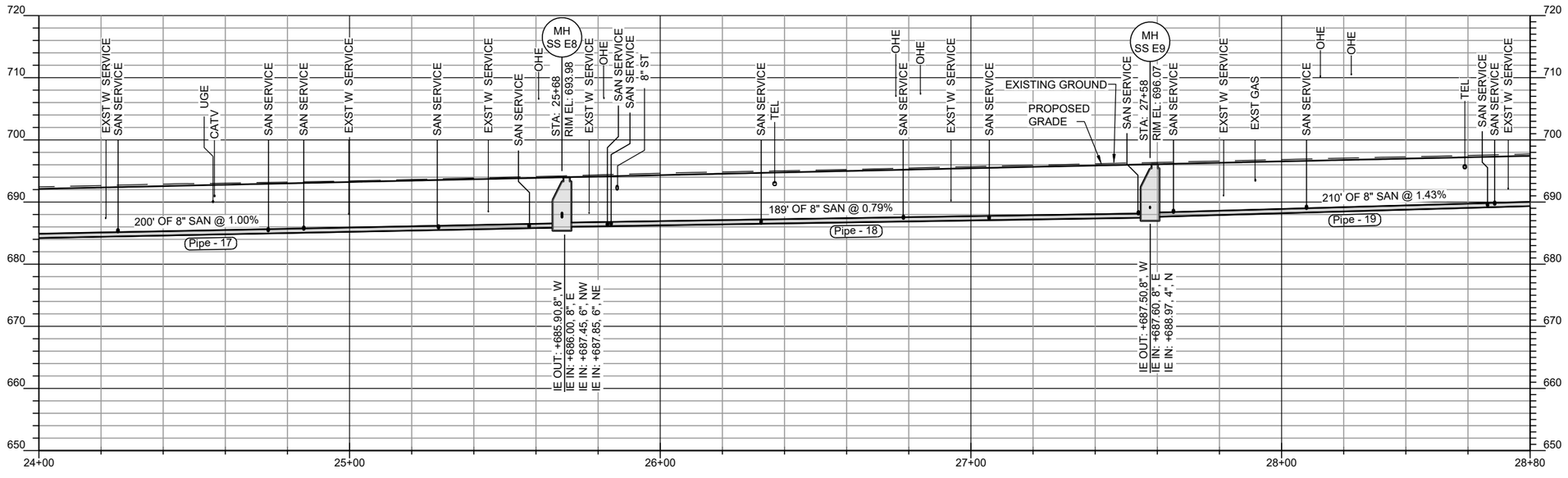
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AT FULL SIZE

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0 1 2 3 4 5 6 7 8 cm

NOTES

1. INSTALL NEW SANITARY ON ALIGNMENT SHOWN, SOUTH OF NEW PAVEMENT CENTERLINE. REMOVE EXISTING SEWER AND MANHOLES AS WORK PROGRESSES AND CONNECT ALL ACTIVE SANITARY SERVICES TO NEW SANITARY. PLUG ALL OPEN ENDS OF INACTIVE SERVICES; REMOVE ANY PIPING IN THE STREET ROW, AND ABANDON REMAINING PIPING IN PLACE. FIELD VERIFY WHETHER SERVICE IS 'LIVE' AND WHETHER IT IS STORM OR SANITARY.
2. LOCATE ALL EXISTING SANITARY SERVICES AND CONNECT TO NEW SANITARY SEWER.
3. AT EX MH 3757 DETERMINE IF EXISTING 6-INCH CLAY SERVICE LINES FROM EAST AND NORTHWEST ARE ACTIVE SANITARY SERVICES. CONNECT ACTIVE SERVICES TO NEW MANHOLE AT ELEVATIONS SHOWN. EXTEND SEVICES BEYOND PAVEMENT ACCORDING TO PROJECT PROCEDURES FOR SERVICES IF EXISTING MATERIAL IS UNACCEPTABLE. ALTERNATIVELY CONNECT ACTIVE SERVICE TO SANITARY SEWER WITH WYE CONNECTION NEAR MANHOLE.
4. AT EX MH 3756 DETERMINE IF EXISTING 4-INCH STEEL PIPE FROM NORTH IS AN ACTIVE SANITARY SERVICE. CONNECT ACTIVE SERVICES TO NEW MANHOLE AT ELEVATION SHOWN.
5. PROTECT EXISTING WATER.

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MUSCATINE, IOWA

SANITARY SEWER
NEWELL AVENUE
SHEET 3

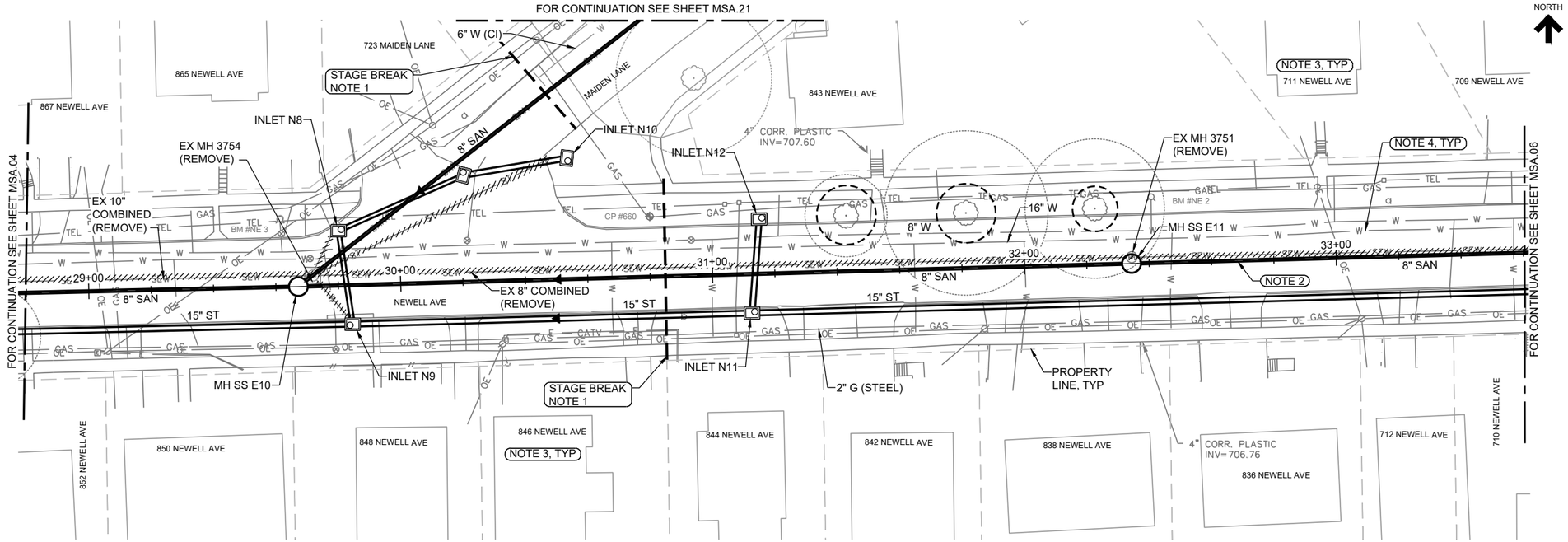
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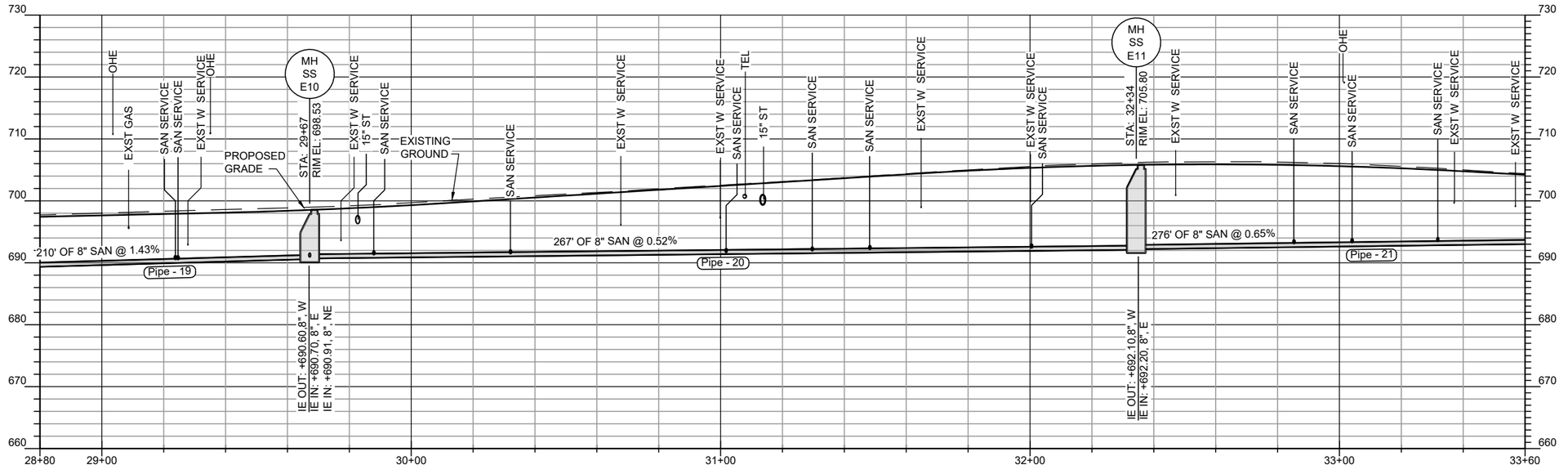
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AT FULL SIZE

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NOTES

1. APPROXIMATE STAGE BREAK TO NEAR MAIDEN LANE INTERSECTION. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN FLOW OF EXISTING SEWERS AT ALL TIMES. TEMPORARY SEWER CONNECTIONS MAY BE NEEDED.
2. INSTALL NEW SANITARY ON ALIGNMENT SHOWN, SOUTH OF NEW PAVEMENT CENTERLINE. REMOVE EXISTING SEWER AND MANHOLES AS WORK PROGRESSES AND CONNECT ALL ACTIVE SANITARY SERVICES TO NEW SANITARY. PLUG ALL OPEN ENDS OF INACTIVE SERVICES; REMOVE ANY ABANDONED PIPING IN STREET ROW, AND ABANDON REMAINING PIPING IN PLACE. FIELD VERIFY WHETHER SERVICE IS 'LIVE' AND WHETHER IT IS STORM OR SANITARY.
3. LOCATE ALL EXISTING SANITARY SERVICES AND CONNECT TO NEW SANITARY SEWER.
4. PROTECT EXISTING WATER.

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SANITARY SEWER NEWELL AVENUE SHEET 4

DESIGNED	KK HEIM
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CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

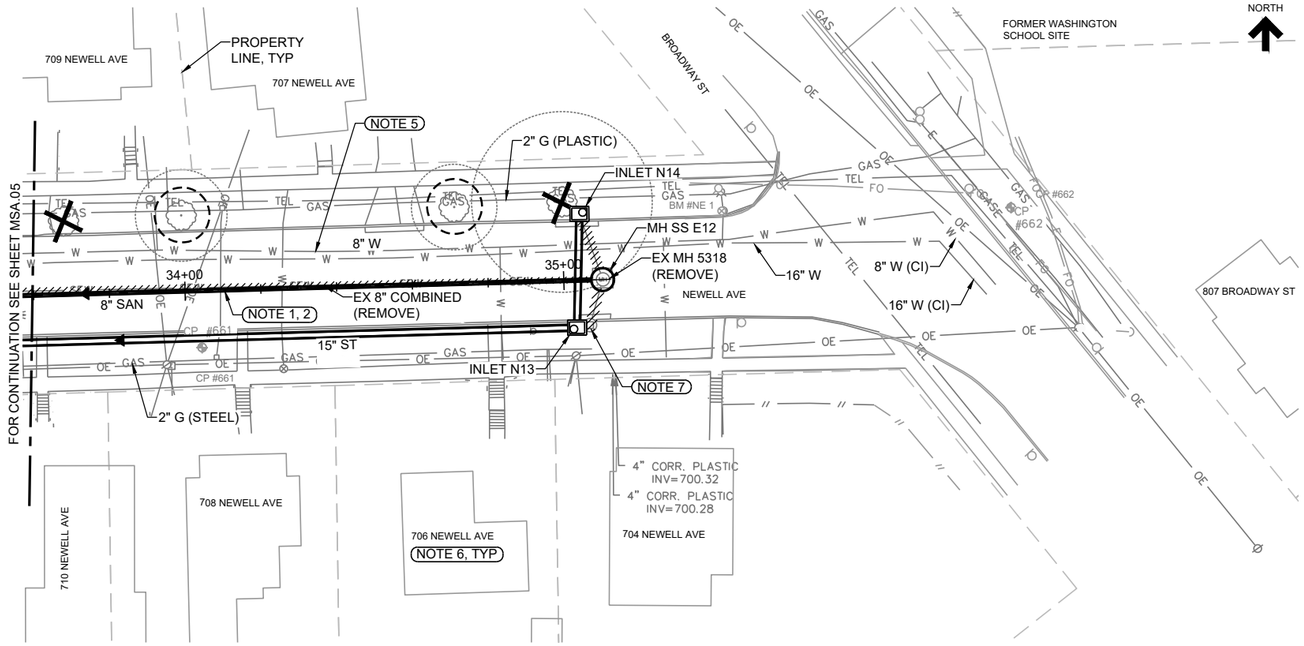
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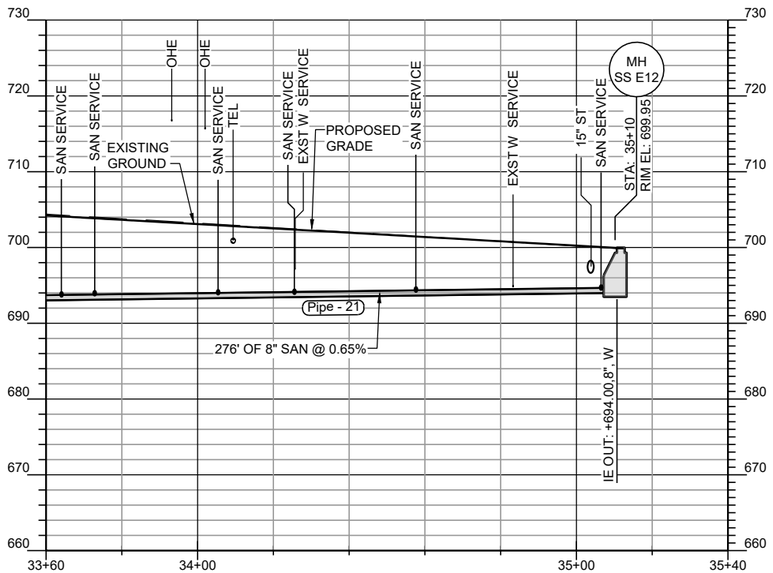
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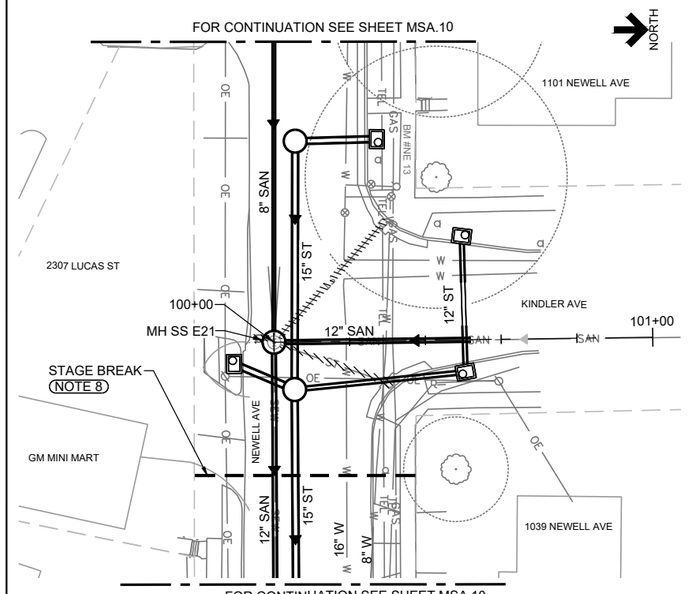
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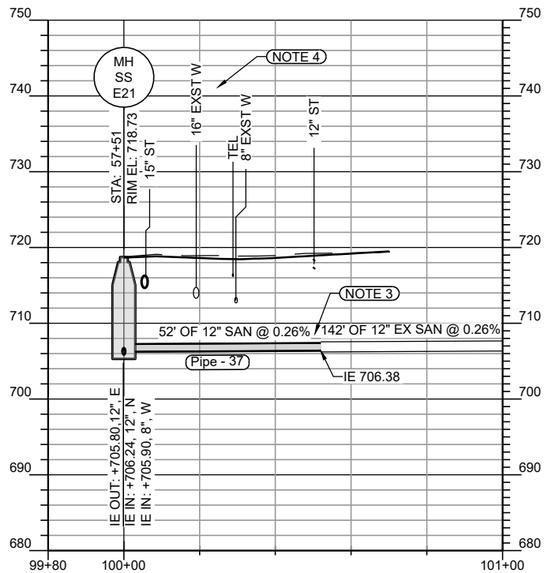


NEWELL AVENUE PLAN AND PROFILE





KINDLER AVENUE PLAN AND PROFILE



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. EXISTING 8-INCH COMBINED SEWER BETWEEN MH 5318 AND MH 3754 IS TRUSS PIPE INSTALLED IN 1991. EXISTING MANHOLES 5318, 3751, 3754 ARE PRECAST. REMOVE AND REPLACE EXISTING PIPE AND MANHOLES WITH NEW.
2. INSTALL NEW SANITARY SEWER ON ALIGNMENT SHOWN, SOUTH OF NEW PAVEMENT CENTERLINE. REMOVE EXISTING SEWER AND MANHOLES AS WORK PROGRESSES AND CONNECT ALL ACTIVE SANITARY SERVICES TO NEW SANITARY. PLUG ALL OPEN ENDS OF INACTIVE SERVICES; REMOVE ANY ABANDONED PIPING IN STREET ROW, AND ABANDON REMAINING PIPING IN PLACE. FIELD VERIFY WHETHER SERVICE IS 'LIVE' AND WHETHER IT IS STORM OR SANITARY.
3. REPLACE EXISTING SANITARY FROM KINDLER AVE THROUGH INTERSECTION AND CONNECT TO EXISTING CLAY PIPE WITH MANUFACTURER RECOMMENDED WATER TIGHT PIPE ADAPTOR WITH SHIELDED ELASTOMERIC COUPLINGS.
4. PROVIDE A MINIMUM OF 6-INCHES OF CLEARANCE BETWEEN BOTTOM OF WATER AND TOP OF SANITARY. SUPPORT WATER LINES DURING CONSTRUCTION.
5. PROTECT WATER LINES.
6. LOCATE EXISTING SANITARY SERVICES AND CONNECT TO NEW SANITARY SEWER.
7. EXISTING INLETS CONNECTED TO MH 5318 WERE PREVIOUSLY PLUGGED OFF USING MECHANICAL PLUGS AND DO NOT CONTRIBUTE STORM FLOWS TO COMBINED SEWER.
8. APPROXIMATE STAGE BREAK TO THE EAST OF KINDLER INTERSECTION. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN FLOW OF EXISTING SEWERS AT ALL TIMES. TEMPORARY SEWER CONNECTIONS MAY BE NEEDED.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER
NEWELL AVENUE
SHEET 5

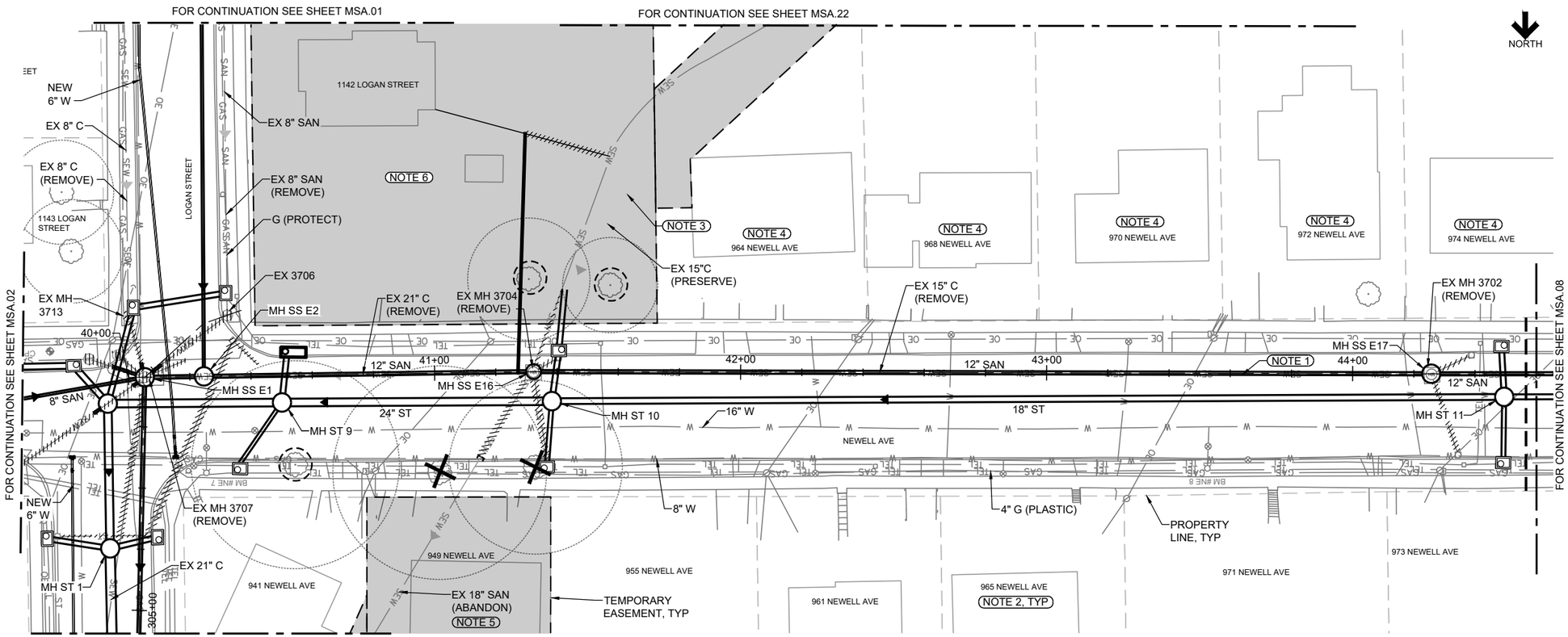
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DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

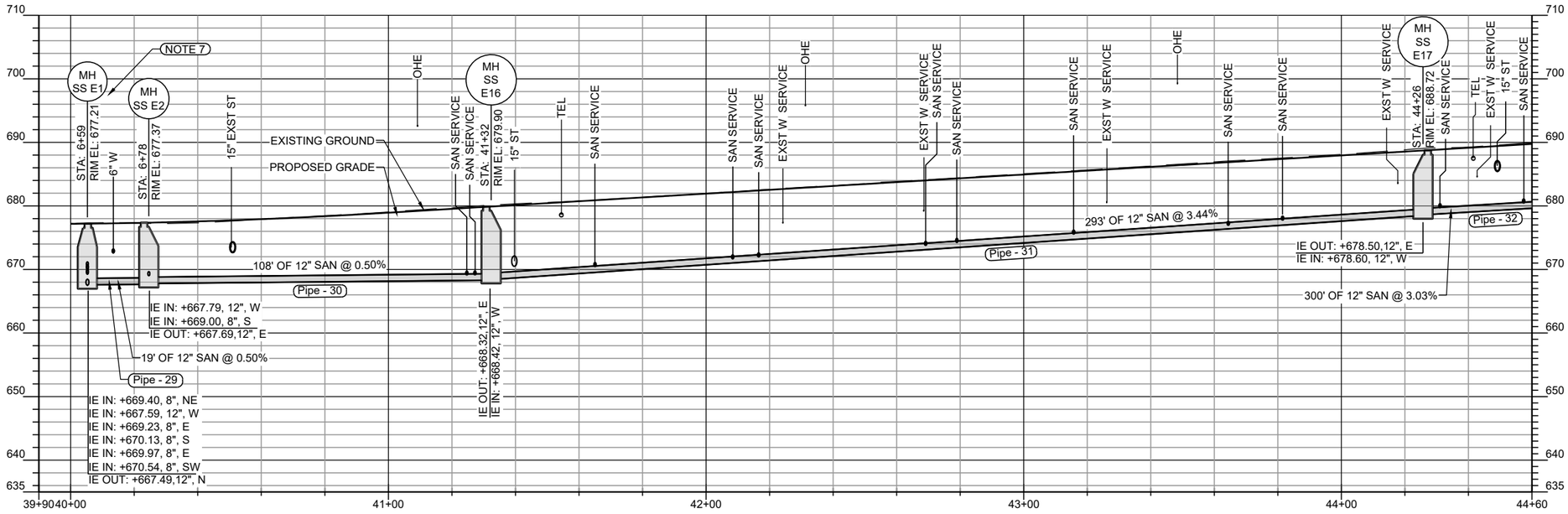
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NOTES

1. INSTALL NEW SANITARY ON ALIGNMENT OF EXISTING COMBINED. REMOVE EXISTING SEWER AND MANHOLES AS WORK PROGRESSES AND CONNECT ALL ACTIVE SANITARY SERVICES TO NEW SANITARY. PLUG ALL OPEN ENDS OF INACTIVE SERVICES; AND ABANDON REMAINING PIPING IN PLACE. FIELD VERIFY WHETHER SERVICE IS 'LIVE' AND WHETHER IT IS STORM OR SANITARY.
2. LOCATE ALL EXISTING SANITARY SERVICES AND CONNECT TO NEW SANITARY SEWER.
3. 15-INCH COMBINED SEWER FROM SOUTHEAST CROSSES PROPERTIES 1142 LOGAN ST, PLUS 964, 968, 970 AND 972 NEWELL AVENUE TO EX MH 425 (BURIED) LOCATED NEAR THE JOINT PROPERTY LINE OF 972 NEWELL AND 1022 CLIMER ST. REMOVE ALL SANITARY SERVICE CONNECTIONS FROM 15"C. PRESERVE 15" FOR STORM WATER..
4. ADDRESSES 964, 968, 970, 972, 974 NEWELL AVENUE ARE KNOWN TO HAVE SANITARY CONNECTION TO NEWELL AVENUE COMBINED SEWER. CONNECT TO NEW SANITARY ON NEWELL.
5. EX 18-INCH SANITARY IS CONNECTED TO EX MH 4026 ON LOGAN ST WHICH WAS PLANNED FOR REMOVAL AND REPLACEMENT WITH MH SS D20 IN PHASE 6D BY OTHERS. PIPING EXTENDS TO EX MH 3704 BUT IS NOT CONNECTED AT MH. SANITARY SERVICES FOR ADDRESSES 949 AND 941 NEWELL AND 1204 LOGAN ARE KNOWN TO BE CONNECTED TO THIS LINE. ONCE SERVICES ARE REMOVED, PIPE CAN BE PLUGGED, FILLED AND ABANDONED IN PLACE.
6. EXISTING SANITARY SERVICE FOR 1142 LOGAN STREET IS CONNECTED TO EXISTING 15-INCH COMBINED BEHIND THE HOUSE. LOCATE AND INTERCEPT THE SERVICE LINE BEHIND THE HOUSE AND REROUTE TO NEWELL AVENUE. COORDINATE WITH CITY AND PROPERTY OWNER ON IDEAL LOCATION TO REROUTE SERVICE LINE THROUGH YARD. PROTECT TREES IN YARD IF POSSIBLE. INSTALL CLEAN OUT IF THERE IS A CHANGE IN PIPE DIRECTION.
7. TO MAINTAIN SEWAGE FLOWS DURING CONSTRUCTION, TEMPORARY CONNECTIONS TO EXISTING SEWERS ARE LIKELY UNTIL PERMANENT SEWERS ARE INSTALLED. TEMPORARY CONNECTIONS SHOWN CONNECTED TO SS E1 INCLUDE:

   IE (SW) = 670.54, 8" LOGAN WEST SIDE
   IE (SE) = 670.13, 8" LOGAN EAST SIDE
   IE (SE) = 669.97, 8" NEWELL EAST, SOUTH SIDE
   IE (NE) = 669.40, 8" NEWELL EAST, NORTH SIDE

   IF TEMPORARY CONNECTIONS ARE CAST OR CORED INTO MH SS E1, TEMPORARY CONNECTIONS MUST BE PLUGGED OFF COMPLETELY AFTER FLOW TRANSITIONS AND TEMPORARY OPENING MUST BE SEALED OFF FORMING A WATER TIGHT SEAL. AVOID CASING OR CORING TEMPORARY CONNECTIONS INTO SSE1 FOR FLOW STAGING IF POSSIBLE. DROP CONNECTIONS FOR TEMPORARY CONNECTIONS ARE NOT NEEDED.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER
NEWELL AVENUE
SHEET 6

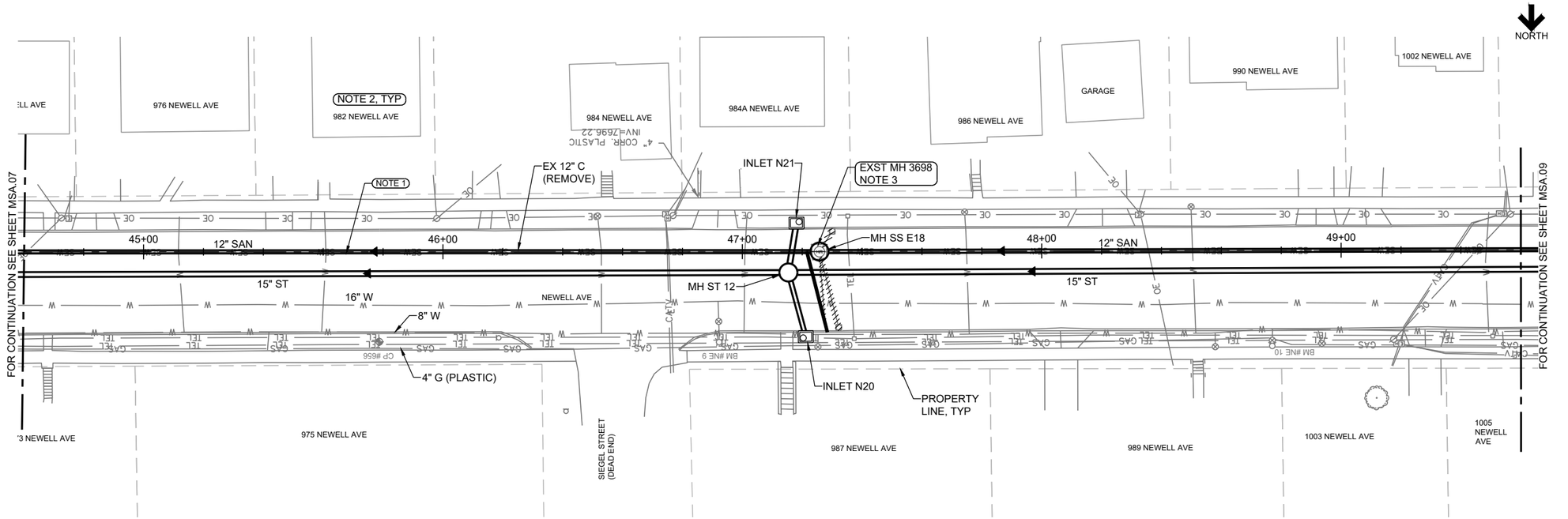
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DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

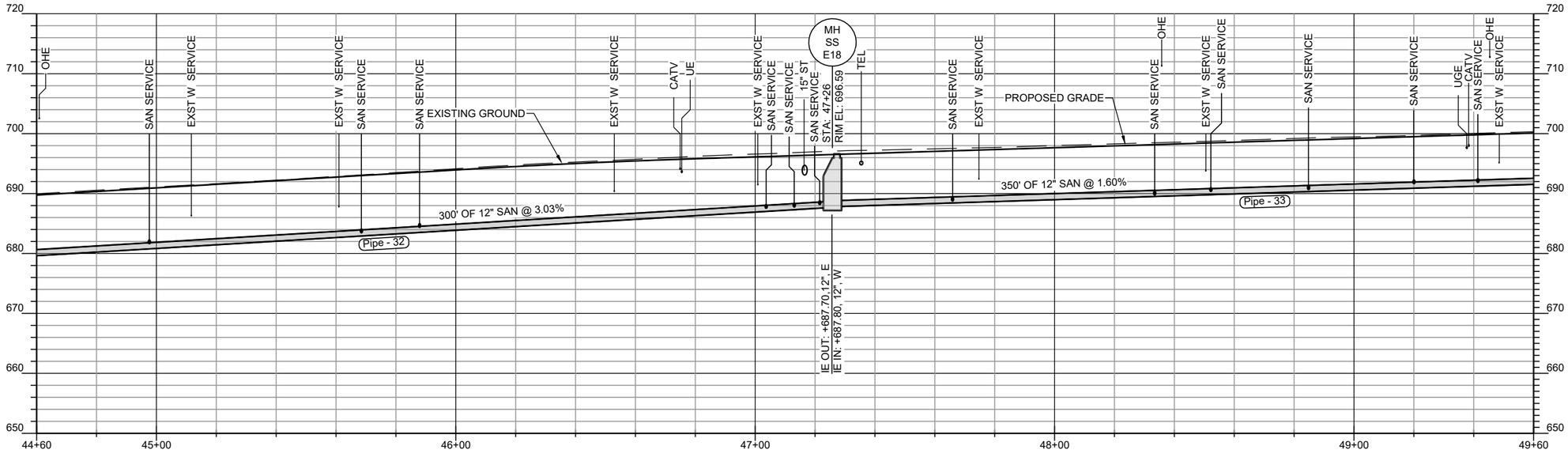
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REV.
MSA.07
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AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

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NOTES

1. INSTALL NEW SANITARY ON ALIGNMENT OF EXISTING COMBINED. REMOVE EXISTING SEWER AND MANHOLES AS WORK PROGRESSES AND CONNECT ALL ACTIVE SANITARY SERVICES TO NEW SANITARY. PLUG ALL OPEN ENDS OF INACTIVE SERVICES; AND ABANDON REMAINING PIPING IN PLACE. FIELD VERIFY WHETHER SERVICE IS 'LIVE' AND WHETHER IT IS STORM OR SANITARY.
2. LOCATE ALL EXISTING SANITARY SERVICES AND CONNECT TO NEW SANITARY SEWER.
3. REMOVE EXISTING MH 3698 IN ITS ENTIRETY. AT MH CONFIRM 4-INCH CLAY PIPE CONNECTION FROM NORTH IS SANITARY. IF SERVICE IS ACTIVE, INSTALL WYE CONNECTION IN NEW SANITARY PIPE FOR SERVICE LINE AND CONNECT TO EXISTING SERVICE LINE WITH SEWER SERVICE RISER ACCORDING TO DETAIL ON SHEET A.04 AND SUDAS FIGURE 4010.201.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER NEWELL AVENUE SHEET 7

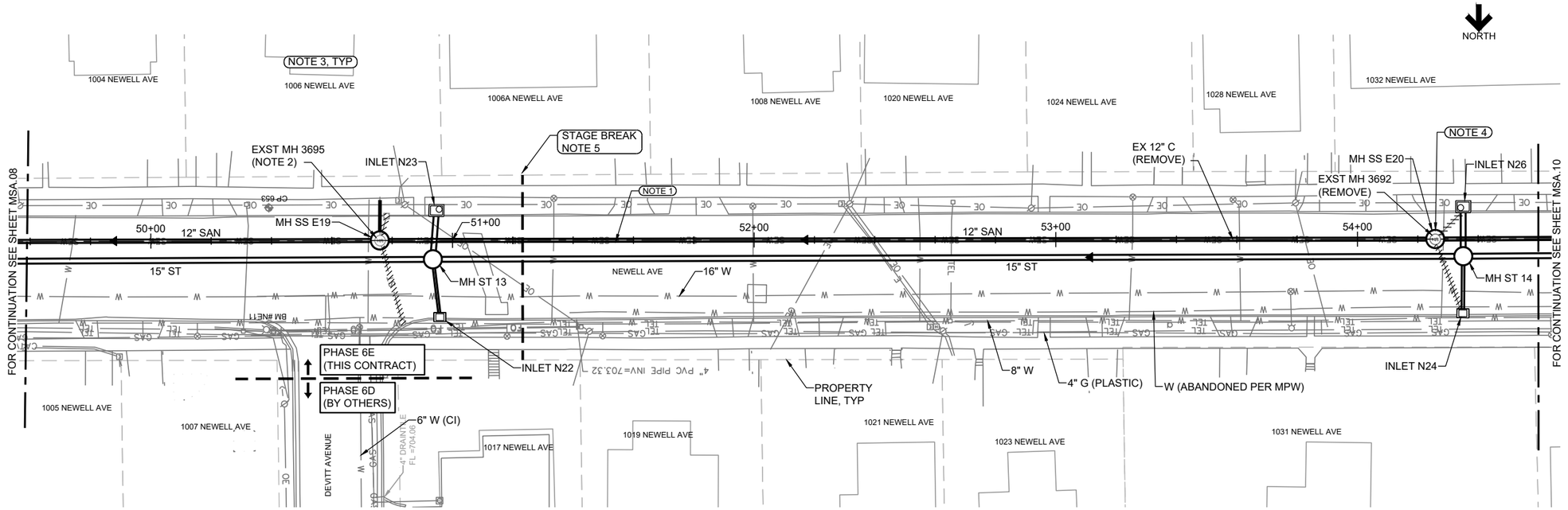
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DRAWN GM REEVES
CHECKED ER SCHALLERT
APPROVED JM BRADY
APPROVED KK HEIM
DATE MARCH 30, 2026

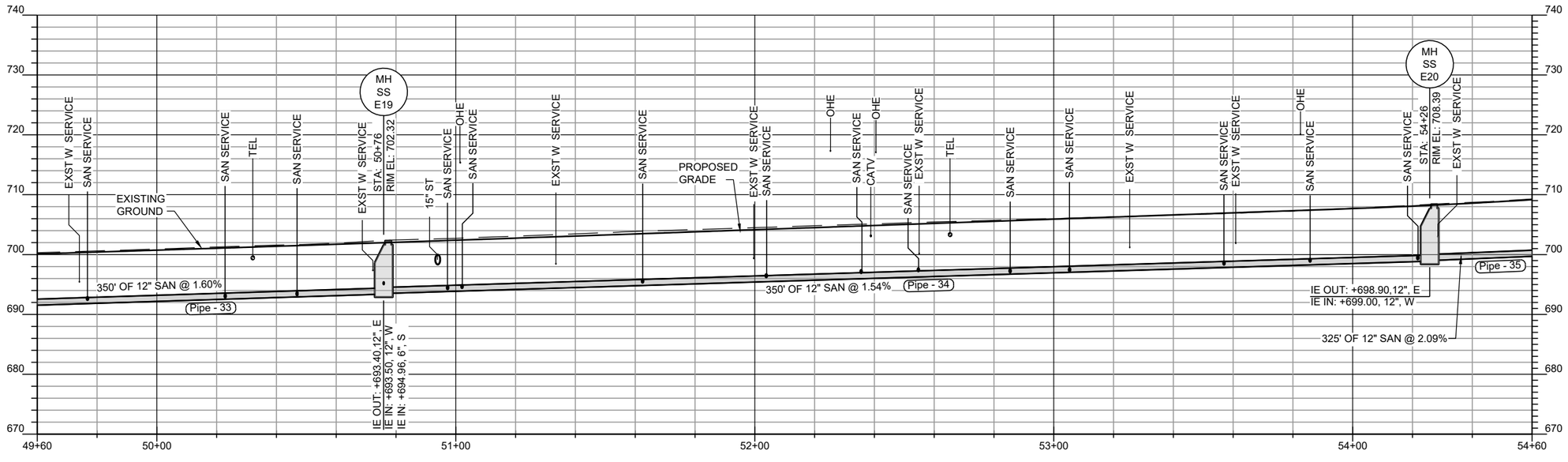
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NO. 17660.60.40
REV. 0
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AT FULL SIZE
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0 1 2 3 4 5 6 7 8 cm

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. INSTALL NEW SANITARY ON ALIGNMENT OF EXISTING COMBINED. REMOVE EXISTING SEWER AND MANHOLES AS WORK PROGRESSES AND CONNECT ALL ACTIVE SANITARY SERVICES TO NEW SANITARY. PLUG ALL OPEN ENDS OF INACTIVE SERVICES; AND ABANDON REMAINING PIPING IN PLACE. FIELD VERIFY WHETHER SERVICE IS 'LIVE' AND WHETHER IT IS STORM OR SANITARY.
2. REMOVE EXISTING MH 3695 IN ITS ENTIRETY. AT MH CONFIRM 6-INCH CLAY PIPE CONNECTION FROM SOUTH IS SANITARY AND CONNECT TO NEW MANHOLE AT ELEVATION SHOWN.
3. LOCATE ALL EXISTING SANITARY SERVICES AND CONNECT TO NEW SANITARY SEWER.
4. REMOVE EXISTING MH 3692 IN ITS ENTIRETY. AT MH CONFIRM 6-INCH CLAY FROM SW IS SANITARY. EXISTING 6-INCH ENTERS MH HIGH AT IE = 703.59. CONNECT SERVICE INTO MAINLINE SEWER WITH WYE FITTING AND SEWER SERVICE RISER PIPE ACCORDING TO DETAIL ON SHEET A.04 AND SUDAS FIGURE 4010.201.
5. APPROXIMATE STAGE BREAK TO THE WEST OF DEVITT AVENUE INTERSECTION. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN FLOW OF EXISTING SEWERS AT ALL TIMES. TEMPORARY SEWER CONNECTIONS MAY BE NEEDED.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER
NEWELL AVENUE
SHEET 8

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

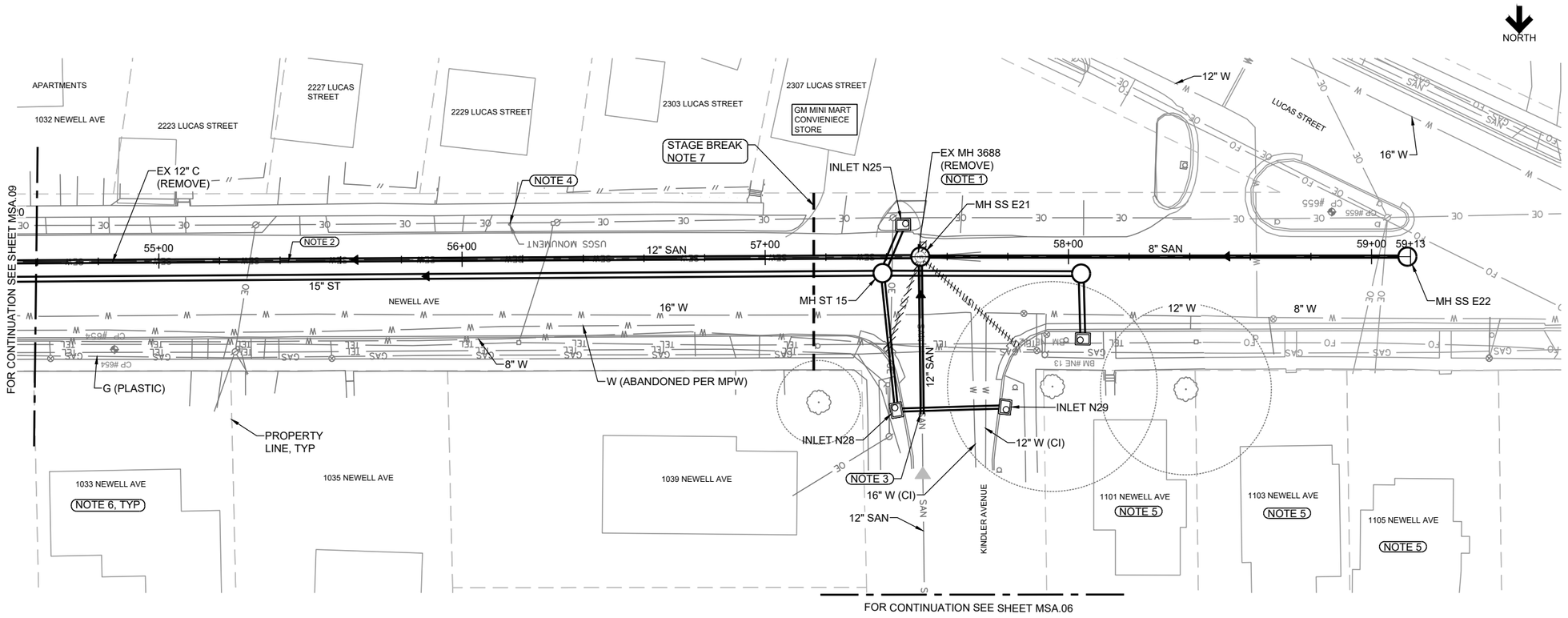
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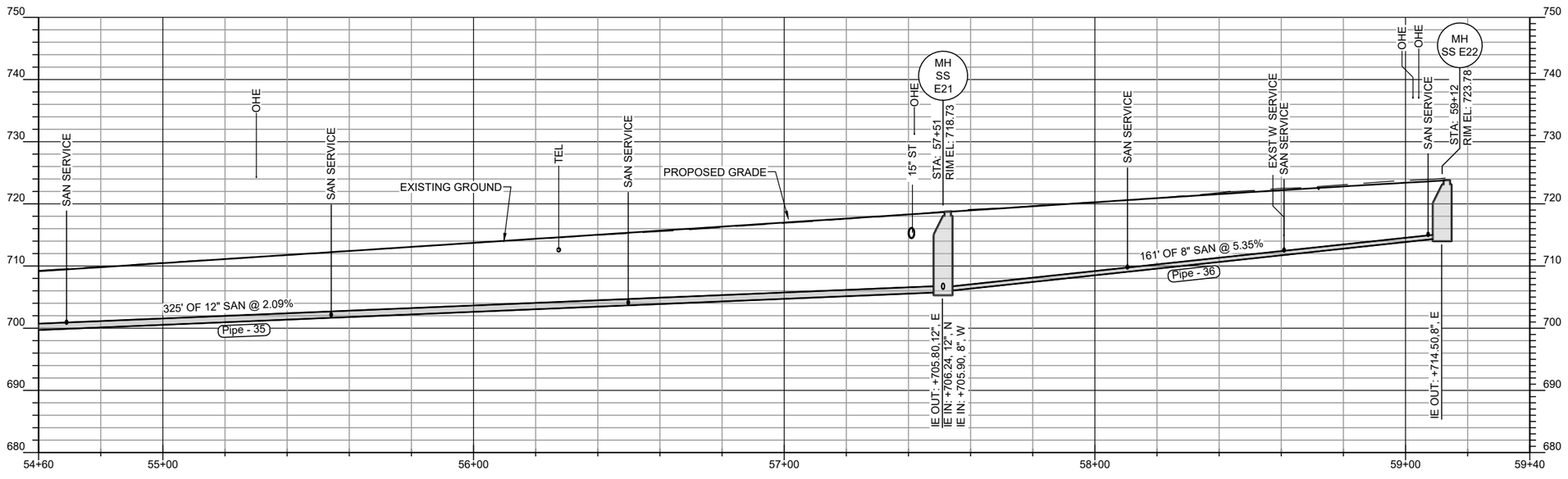
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NOTES

1. REMOVE EXISTING MH 3688. TWO SANITARY SERVICE FROM WEST CONNECT TO MH WITH STEEL PIPES AND ELBOW DOWNWARD. LOCATE SOURCE OF SANITARY SERVICES AND PICK UP IN NEW SANITARY INSTALLED ON NEWELL. ROTATE ECCENTRIC CONE SECTION OF SANITARY MANHOLE AND PLACE CASTING AS SHOWN ON JOINTING PLANS (L SHEETS)
2. INSTALL NEW SANITARY ON ALIGNMENT SHOWN. LOCATE ALL ACTIVE SANITARY SERVICES AND CONNECT TO NEW SANITARY. PLUG ALL OPEN ENDS OF INACTIVE SERVICES; AND ABANDON REMAINING PIPING IN PLACE. FIELD VERIFY WHETHER SERVICE IS 'LIVE' AND WHETHER IT IS STORM OR SANITARY.
3. CONNECT TO EXISTING 12-INCH CLAY SANITARY FROM KINDLER AVENUE. EXISTING PIPE SLOPE IS APPROXIMATELY 0.26%. CONNECT TO EXISTING PIPE WITH FLEXIBLE WATER TIGHT COUPLING WITH SHEAR BAND. SEE SHEET MSA.06 FOR PROFILE.
4. PROTECT EXISTING MONUMENT. IF DISTURBED RE-ESTABLISH BY PROFESSIONAL LAND SURVEYOR.
5. EXISTING SANITARY SERVICES FOR 1101, 1103, AND 1105 NEWELL CONNECT TO LUCAS STREET WITH LONG SERVICES WHICH MAY BE STACKED. LOCATE SERVICES AND CONNECT SEPARATELY TO NEW SANITARY SEWER ON NEWELL AVENUE.
6. LOCATE ALL EXISTING SANITARY SERVICES AND CONNECT TO NEW SANITARY SEWER.
7. APPROXIMATE STAGE BREAK TO THE EAST OF KINDLER AVENUE INTERSECTION. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN FLOW OF EXISTING SEWERS AT ALL TIMES. TEMPORARY SEWER CONNECTIONS MAY BE NEEDED.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER
NEWELL AVENUE
SHEET 9

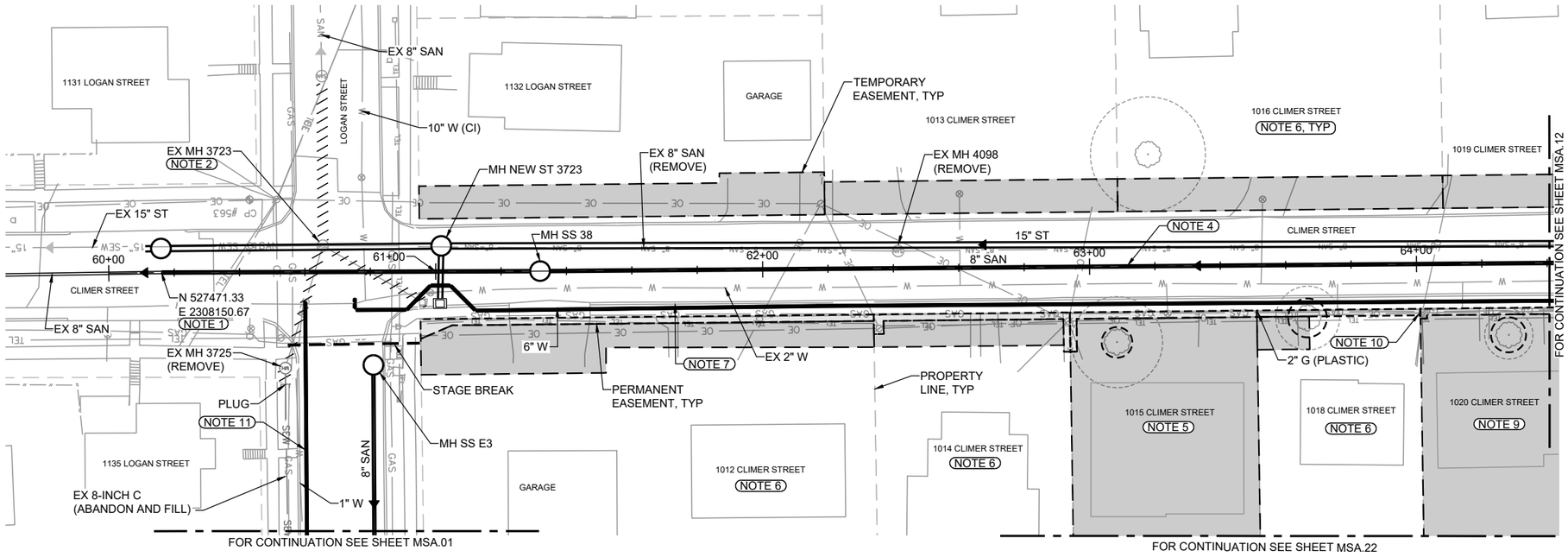
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APPROVED	KK HEIM
DATE	MARCH 30, 2026

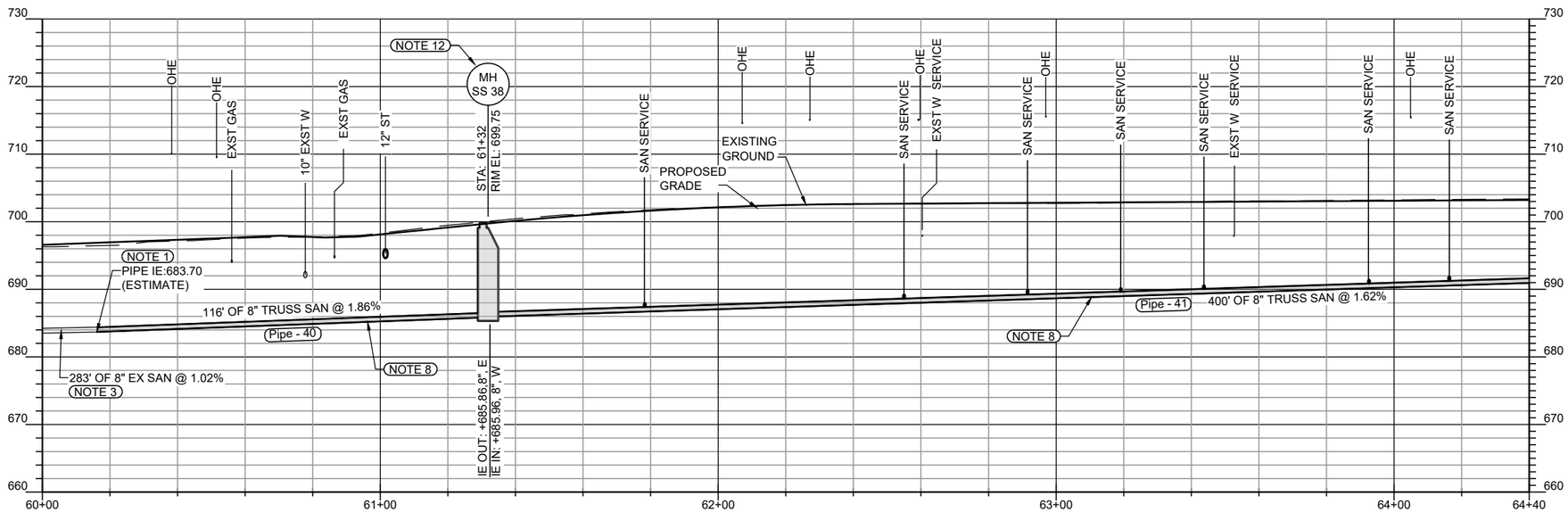
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NOTES

1. LOCATE AND CONNECT TO EXISTING NEW SANITARY SEWER INSTALLED IN PHASE 5 BY OTHERS. CONTINUE UNIFORM SLOPE TO MANHOLE SS 38. ADJUST INVERT ELEVATION OF MH SS 38 TO ACHIEVE UNIFORM SLOPE. REPORT TO DESIGN ENGINEER ELEVATIONS OF EXISTING PIPE. RECORD AS INSTALLED ELEVATIONS. AVOID CHANGE IN PIPE SLOPE BETWEEN MANHOLES. IF BELL END OF TRUSS PIPE IS NOT AVAILABLE, CONNECT TO EXISTING TRUSS PIPE WITH WATERTIGHT MANUFACTURERS COUPLER.
2. REMOVE EXISTING MANHOLE AND REPLACE WITH NEW MH 3723 AT LOCATION SHOWN. SEE M SHEETS FOR STORM SEWER INSTALLATION.
3. INVERT ELEVATION AND SLOPE ON PIPE INSTALLED IN PHASE 5 IN UNKNOWN. SLOPE SHOWN IS THE DESIGN SLOPE. ELEVATION IS BASED ON USING THE DESIGN SLOPE AND THE AS-BUILT ELEVATION OF INSTALLED MANHOLE AT NEIDIG AVENUE.
4. INSTALL NEW SANITARY SEWER AT LOCATION SHOWN. LOCATE ALL ACTIVE SANITARY SERVICES ALONG CLIMER ST. INSTALL WYES IN MAIN FOR EACH HOUSE AND PROVIDE A 6-INCH SERVICE LINE TO ROW AT MINIMUM SLOPE OF 1 PERCENT.
5. EXISTING SANITARY SERVICE FOR 1015 CLIMER STREET ARE CONNECTED TO EXISTING 15-INCH COMBINED SEWER BEHIND HOMES. LOCATE EXISTING SANITARY SERVICE AND DETERMINE IF EXISTING SERVICES CAN BE INTERCEPTED IN YARD OR IF SANITARY SERVICE WILL NEED TO BE RE-PLUMBED INSIDE THE HOUSE. THESE HOUSES SHALL BE CONNECTED TO NEW SANITARY IN CLIMER STREET. DISCONNECT AND PLUG ANY EXISTING SERVICES.
6. LOCATE ALL EXISTING SANITARY SERVICES AND CONNECT TO NEW SANITARY SEWER. DISCONNECT SERVICES FROM EXISTING 8-INCH SANITARY AND CONNECT TO NEW SANITARY.
7. SEE MPW DRAWINGS FOR REPLACEMENT OF EXISTING WATER MAIN WITH NEW MAIN. WATER WORK TO BE PERFORMED BY MPW'S CREW.
8. USE CITY STOCK OF TRUSS PIPE FOR PIPES NOTED.
9. SERVICES FOR 1020 AND 1022 CLIMER ARE LIKELY CONNECTED TO PRIVATE 10-INCH COMBINED RUNNING BETWEEN HOMES. INTERCEPT SERVICE AND RE-DIRECT TO CLIMER STREET. OTHERWISE RE-PLUMBING INSIDE THE HOME MAY BE NECESSARY AND SERVICE DIRECTED TOWARD CLIMER ST.
10. PROTECT EXISTING UTILITY POLES, TYPICAL.
11. WATER MAIN ON LOGAN STREET TO BE INSTALLED BY PHASE 6E SEWER CONTRACTOR. SEE MPW PLANS.

NOTES CONTINUED

12. UTILIZE CITY'S STOCK OF MANHOLE COMPONENTS FOR CLIMER STREET SANITARY MANHOLES WHEN SUFFICIENT TO CONSTRUCT A COMPLETE MANHOLE; OTHERWISE PROVIDE A NEW MANHOLE.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

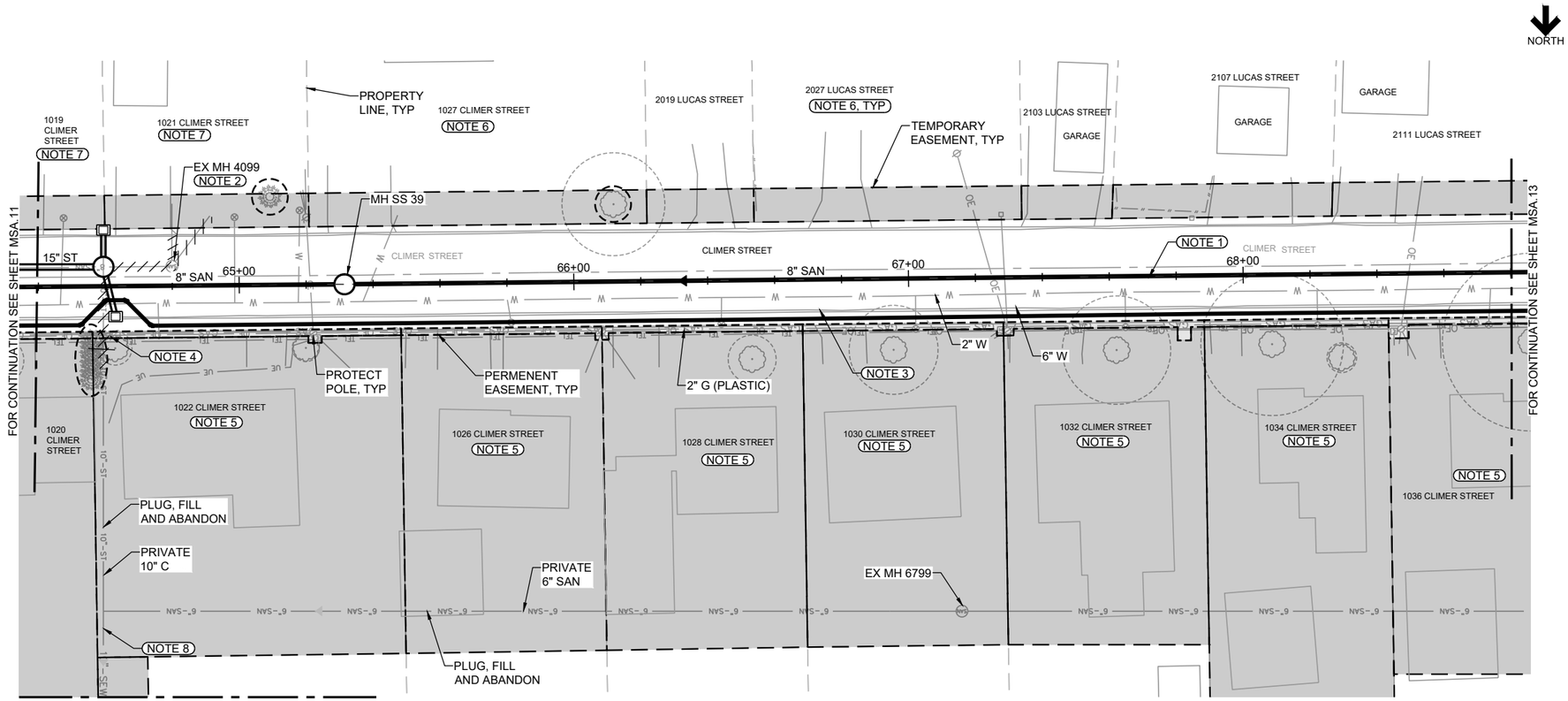
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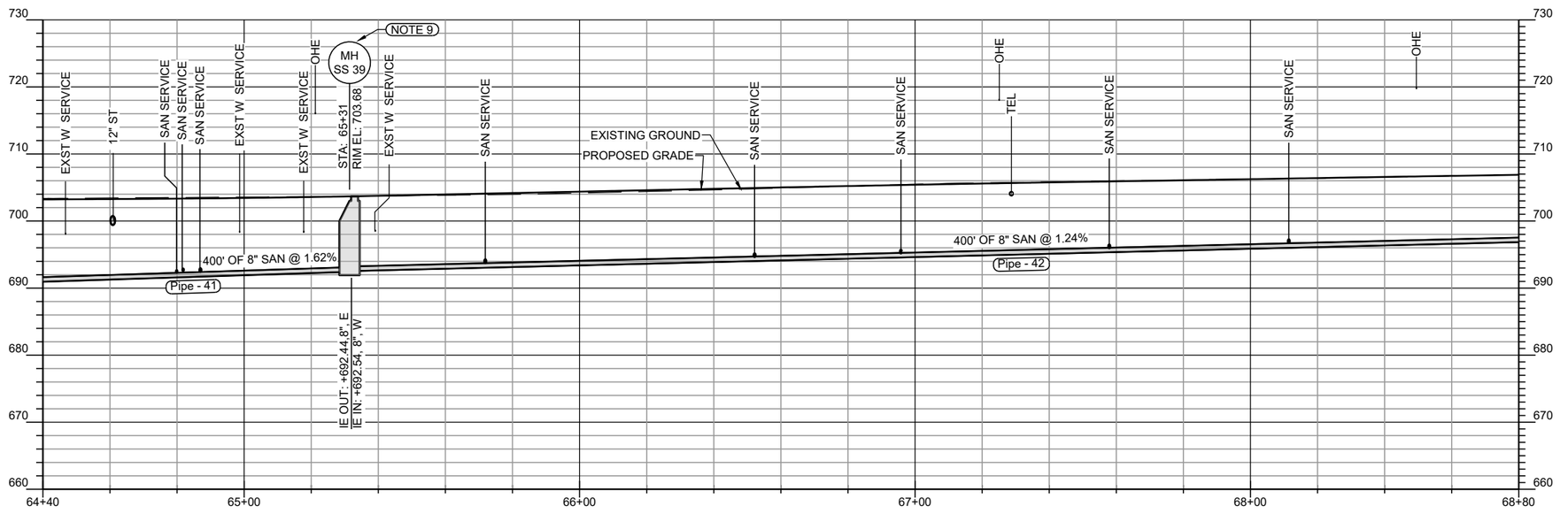
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DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 20'
NO. 17660.60.40
REV. 0
MSA.11

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

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NOTES

1. INSTALL NEW SANITARY AT LOCATION SHOWN. LOCATE AND CONNECT ALL ACTIVE SANITARY SERVICES CONNECTED TO EXISTING PRIVATE SANITARY SEWER. PLUG ALL ABANDONED PIPE ENDS WITH CONCRETE.
2. REMOVE EX MH 4099 IN ITS ENTIRETY AND CONNECT SANITARY SERVICES TO NEW SANITARY. SPACE OUT SEWER WYES TO FIT ON BRANCH SEWER. SEWER SERVICE RISERS MAY BE NEEDED. PLUG ALL OPEN PIPE ENDS WITH CONCRETE. INSTALL CLEANOUTS NEAR ROW LINE WHEN CONNECTING TO EXISTING SERVICE LATERAL WITH HORIZONTAL DIRECTION CHANGE.
3. SEE MPW PLANS FOR WATER MAIN REPLACEMENT. INSTALLATION TO OCCUR BY MPW WORK CREW. SEWER CONTRACTOR TO PROTECT EXISTING AND PROPOSED WATER MAIN.
4. DISCONNECT AND PLUG OFF EXISTING 10-INCH STORM LINE NEAR ROW WITH A MINIMUM LENGTH OF 2' OF CONCRETE.
5. INSTALL NEW SANITARY SEWER WYE CONNECTIONS FOR 1022, 1026, 1028, 1030, 1032, 1034, 1036 CLIMER STREET ON THE TRUNK LINE. PROVIDE A 6-INCH SERVICE LINE TO THE ROW AT MINIMUM 1% SLOPE.

   LOCATE THE EXISTING SANITARY SEWER SERVICES FOR CLIMER STREET ADDRESSES WHICH CURRENTLY DISCHARGE TO THE PRIVATE SANITARY LINE LOCATED IN THE BACKYARD. DISCONNECT SERVICE FROM PRIVATE LINE, PLUG AND ABANDON THE PRIVATE LINE BY FILLING WITH FLOWABLE FILL.

   IF FEASIBLE, INSTALL NEW SERVICE LINE ON PRIVATE PROPERTY AND CONNECT TO NEW CLIMER STREET SANITARY. ALTERNATIVELY WORK INSIDE THE HOME MAY BE REQUIRED TO REDIRECT THE EXISTING PLUMBING TO DRAIN TOWARD CLIMER STREET. SEE ESTIMATE REFERENCE NOTES FOR PROCEDURES FOR INTERIOR RE-PLUMBING.
6. LUCAS STREET ADDRESSES AND 1027 CLIMER STREET HAVE SANITARY SERVICES FLOW TO LUCAS STREET.
7. SANITARY SERVICE FOR 1019 AND 1021 CLIMER STREET IS KNOWN TO FLOW TO CLIMER STREET. CONNECT TO NEW SANITARY AND PLUG CONNECTION TO EXISTING SANITARY.
8. EXISTING 10-INCH PRIVATE LINE CONNECTS TO EXISTING MH 425 (BURIED) LOCATED NEAR THE JOINT PROPERTY LINE OF 972 NEWELL AND 1022 CLIMER ST. EXISTING PIPE SHALL BE FILLED AND ABANDONED AFTER DISCONNECTING ALL UPSTREAM SANITARY AND STORM FLOWS.
9. UTILIZE CITY'S STOCK OF MANHOLE COMPONENTS FOR CLIMER STREET SANITARY MANHOLES WHEN SUFFICIENT TO CONSTRUCT A COMPLETE MANHOLE; OTHERWISE PROVIDE A NEW MANHOLE.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER CLIMER STREET SHEET 2

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

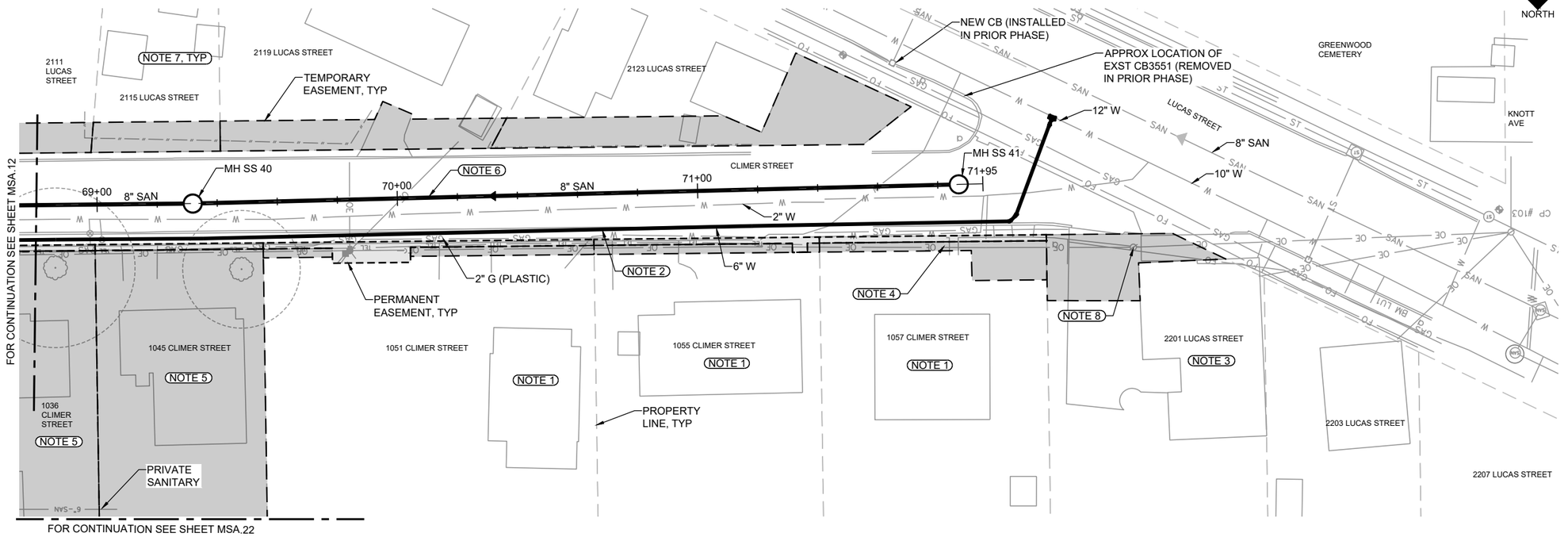
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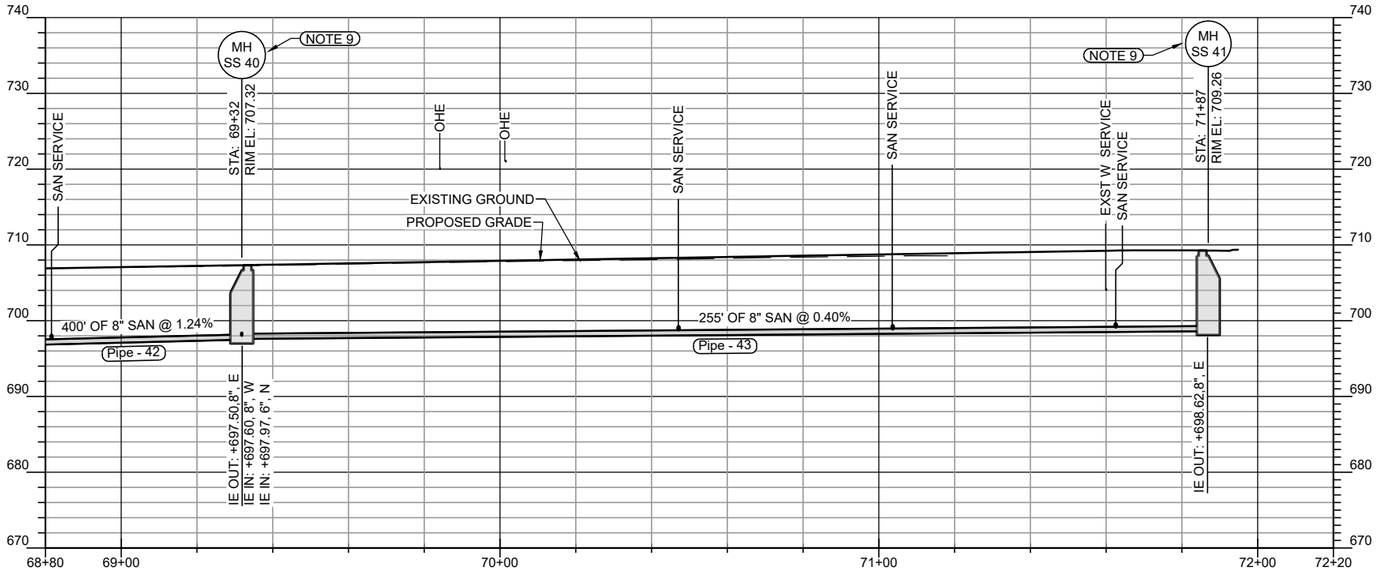
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AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

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NOTES

1. SANITARY HOUSE SERVICE FOR 1051, 1055 AND 1057 CLIMER STREET ARE ON A STACKED PRIVATE SERVICE CONNECTED TO LUCAS STREET COMBINED SEWER NEAR EXISTING INLET CB3551. CONNECT HOUSES TO NEW SANITARY ON CLIMER WITH SEPARATE SERVICE CONNECTIONS.
2. SEE MPW PLANS FOR WATER MAIN REPLACEMENT ON CLIMER BETWEEN LOGAN AND LUCAS. INSTALLATION TO OCCUR BY MPW WORK CREW. SEWER CONTRACTOR TO PROTECT EXISTING AND PROPOSED WATER MAIN.
3. CONFIRM SANITARY SERVICE FOR 2201 LUCAS STREET IS CONNECTED TO PHASE 5 LUCAS ST. SANITARY SEWER. IF NECESSARY CONNECT 2201 LUCAS ST SERVICE TO NEW CLIMER ST SEWER.
4. REMOVE SHRUB NEAR CORNER OF SIDEWALK IF NECESSARY.
5. INSTALL NEW SANITARY SEWER WYE CONNECTIONS FOR 1036 AND 1045 CLIMER STREET ON THE TRUNK LINE. PROVIDE A 6-INCH SERVICE LINE TO THE ROW AT MINIMUM 1% SLOPE.

   LOCATE THE EXISTING SANITARY SEWER SERVICES FOR 1036 AND 1045 CLIMER STREET, WHICH CURRENTLY DISCHARGE TO A PRIVATE SANITARY LINE LOCATED IN THE BACKYARD. DISCONNECT SERVICE FROM PRIVATE LINE, PLUG AND ABANDON THE PRIVATE LINE BY FILLING WITH FLOWABLE GROUT.

   IF FEASIBLE, INSTALL NEW SERVICE LINE ON PRIVATE PROPERTY AND CONNECT TO NEW CLIME STREET SANITARY. ALTERNATIVELY WORK INSIDE THE HOME MAY BE REQUIRED TO REDIRECT THE EXISTING PLUMBING TO DRAIN TOWARD CLIMER STREET. SEE ESTIMATE REFERENCE NOTES FOR PROCEDURES FOR INTERIOR RE-PLUMBING.
6. INSTALL NEW SANITARY AT LOCATION SHOWN. LOCATE AND CONNECT ALL ACTIVE SANITARY SERVICES CONNECTED TO EXISTING PRIVATE SANITARY SEWER. PLUG ALL ABANDONED PIPE ENDS WITH CONCRETE.
7. LUCAS STREET ADDRESSES HAVE SANITARY SEWER SERVICES THAT CONNECT TO LUCAS STREET.
8. MPW IS PLANNING TO RELOCATE UTILITY POLE. COORDINATE WITH MPW ON RELOCATION SCHEDULE.
9. UTILIZE CITY'S STOCK OF MANHOLE COMPONENTS FOR CLIMER STREET SANITARY MANHOLES WHEN SUFFICIENT TO CONSTRUCT A COMPLETE MANHOLE; OTHERWISE PROVIDE A NEW MANHOLE.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER CLIMER STREET SHEET 3

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

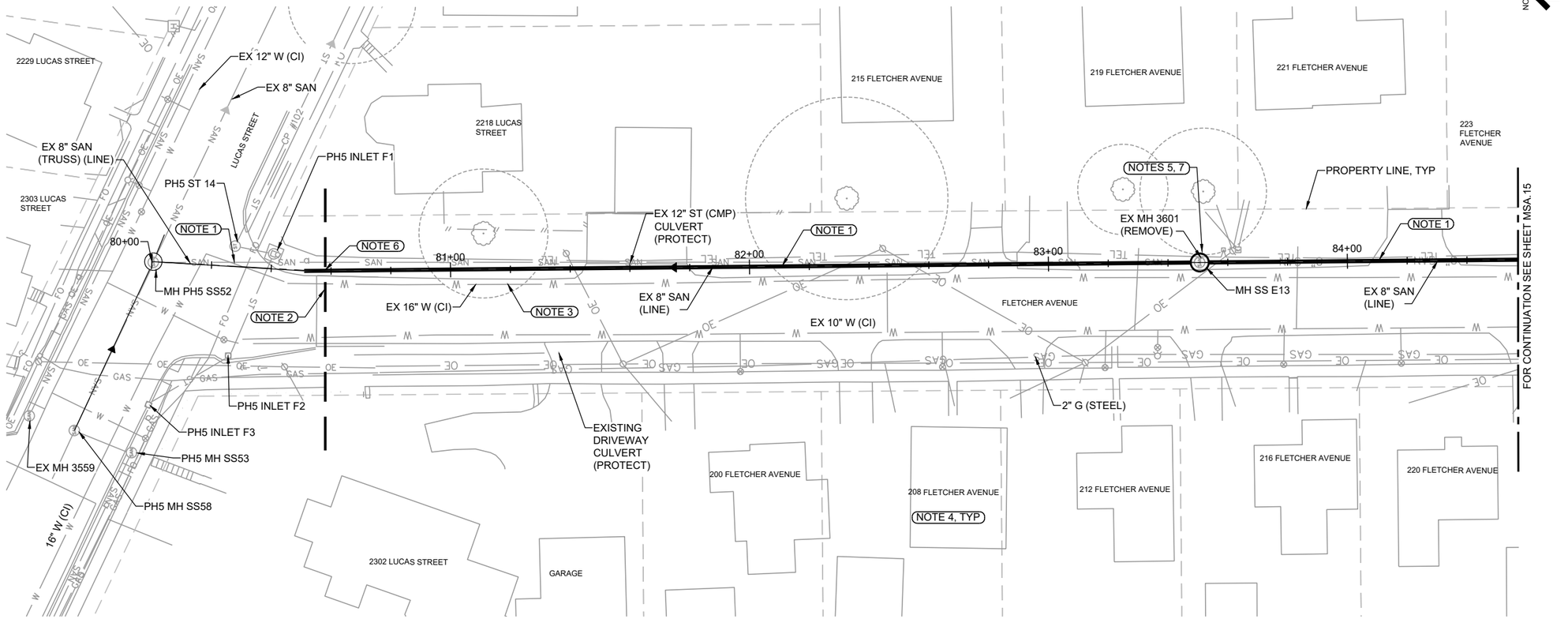
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

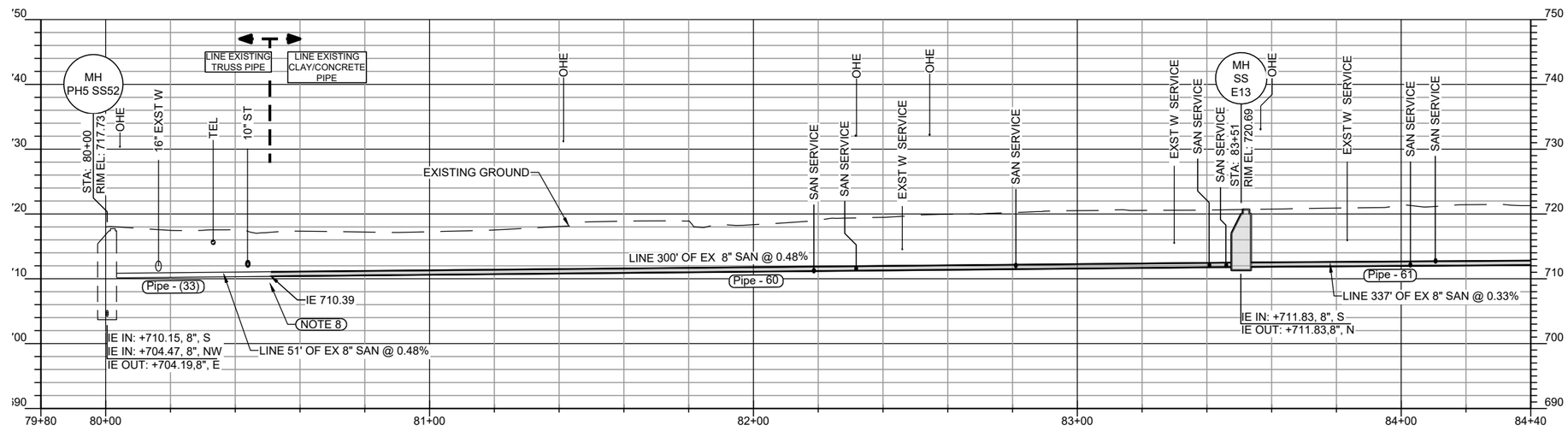
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NO. 17660.60.40	REV.
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NOTES

1. EXISTING SANITARY SEWER ON FLETCHER AVENUE WILL BE PRESERVED. LINE PIPE FROM MH PH5 SS52 THRU TRUSS PIPE SEGMENT. CONTINUE INSTALLING CIPP LINER IN EXISTING SECTION OF 8-INCH CLAY OR UN-REINFORCED CONCRETE PIPE TO BE PRESERVED AND REUSED FOR SANITARY SEWER. SEE SPECS FOR LINING REQUIREMENTS.
2. DRAWING SHOWS EXISTING CONDITIONS OF THE FLETCHER AND LUCAS INTERSECTION AFTER THE PHASE 5 CONSTRUCTION BY OTHERS.
3. PROTECT EXISTING WATER LINE.
4. LOCATE ALL EXISTING SANITARY SERVICES AND REINSTATE ACTIVE SERVICES TO LINED MAINLINE SEWER.
5. REMOVE AND REPLACE EXISTING BRICK MANHOLE MH 3601 WITH PRECAST MANHOLE AND CONNECT TO EXISTING SANITARY SEWERS. SEE FIGURE 6010.303 FOR INSTALLATION OF MANHOLE OVER EXISTING PIPE.
6. FOR SEWER LINING, CONTRACTOR SHALL ESTABLISH A PUBLIC INFORMATION AND NOTIFICATION PROGRAM AS DETAILED IN SUDAS SPEC 4050, 1.07C.
7. PRESERVE EXISTING PAVEMENT. PATCH BACK TO LIMITS SHOWN ON D DRAWINGS AROUND MANHOLE. RESTORE ANY DISTURBED AREA TO MATCH EXISTING CONDITIONS.
8. ELEVATION OF SANITARY SEWER IS BASED ON AS-DESIGNED PHASE 5 CONDITIONS. ACTUAL ELEVATION MAY VARY.

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER FLETCHER AVENUE - SHEET 1

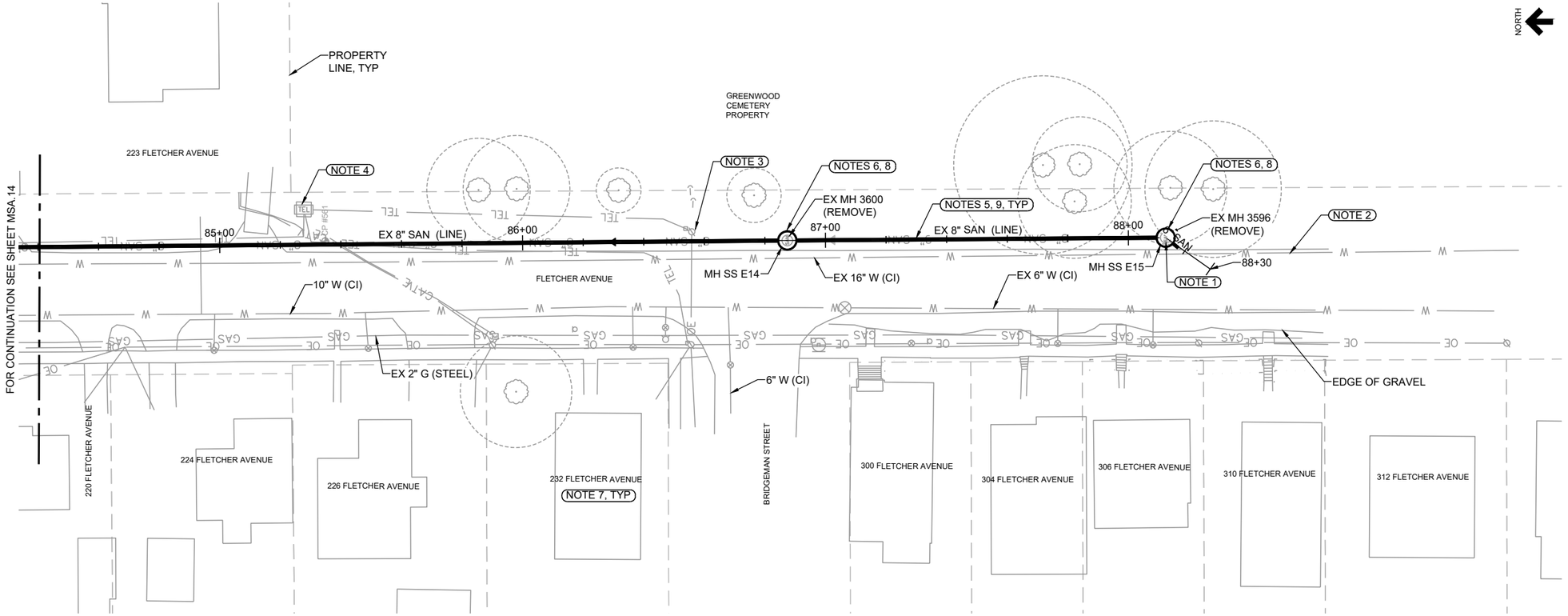
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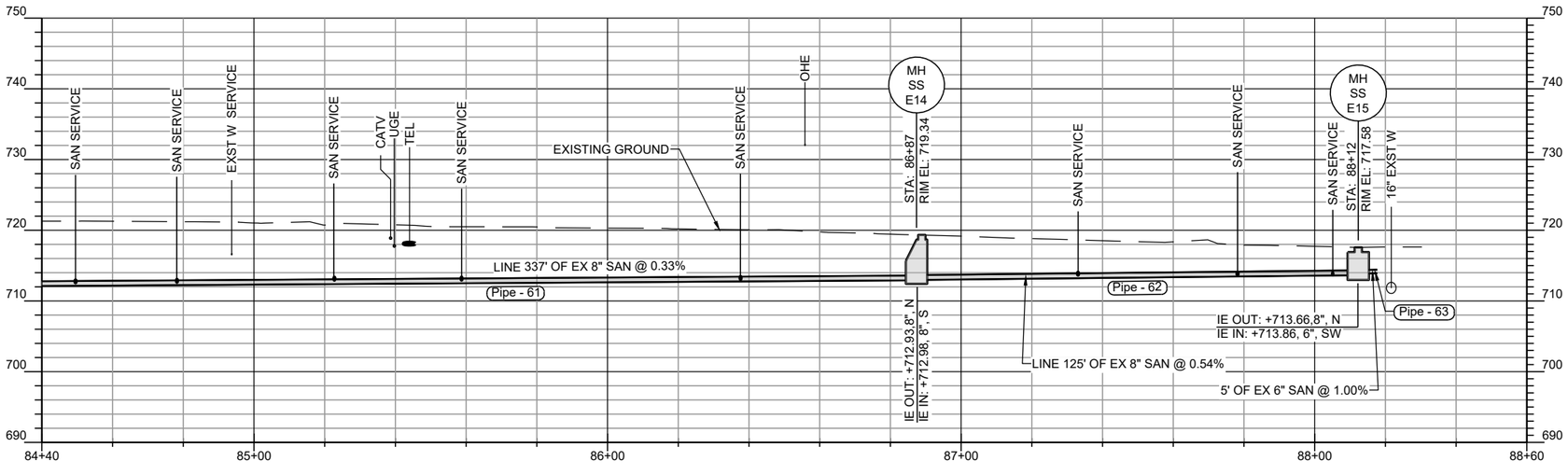
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
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NO. 17660.60.40
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MSA.14

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NOTES

1. CONNECT EXISTING 6-INCH LINE FROM SOUTHWEST. SLOPE ON EXISTING SERVICE LINE IS NOT KNOWN. CONNECT TO SERVICE LINE AND MAINTAIN 18-INCHES OF CLEARANCE ABOVE EXISTING WATER LINE.
2. PROTECT EXISTING WATER LINE.
3. PROTECT EXISTING POLE AND TELEPHONE PEDESTAL.
4. PROTECT EXISTING ABOVE GRADE UTILITY BOXES.
5. EXISTING 8-INCH CLAY OR UN-REINFORCED CONCRETE PIPE WILL BE PRESERVED, LINE WITH CIPP LINER, AND REUSE FOR SANITARY SEWER. SEE SPECS FOR LINING REQUIREMENTS.
6. REMOVE AND REPLACE EXISTING BRICK MANHOLES MH 3600 AND MH 3596 WITH PRECAST MANHOLES AND CONNECT TO EXISTING SANITARY SEWERS. SEE FIGURE 6010.303 FOR INSTALLATION OF MANHOLES OVER EXISTING PIPES.
7. LOCATE ALL EXISTING SANITARY SERVICES AND REINSTATE ACTIVE SERVICES TO LINED MAINLINE SEWER.
8. PRESERVE EXISTING PAVEMENT. PATCH BACK TO LIMITS SHOWN ON D DRAWINGS AROUND MANHOLES. RESTORE ANY DISTURBED AREA TO MATCH EXISTING CONDITIONS.
9. FOR SEWER LINING, CONTRACTOR SHALL ESTABLISH A PUBLIC INFORMATION AND NOTIFICATION PROGRAM AS DETAILED IN SUDAS SPEC 4050, 1.07C.

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AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER
FLETCHER AVENUE - SHEET 2

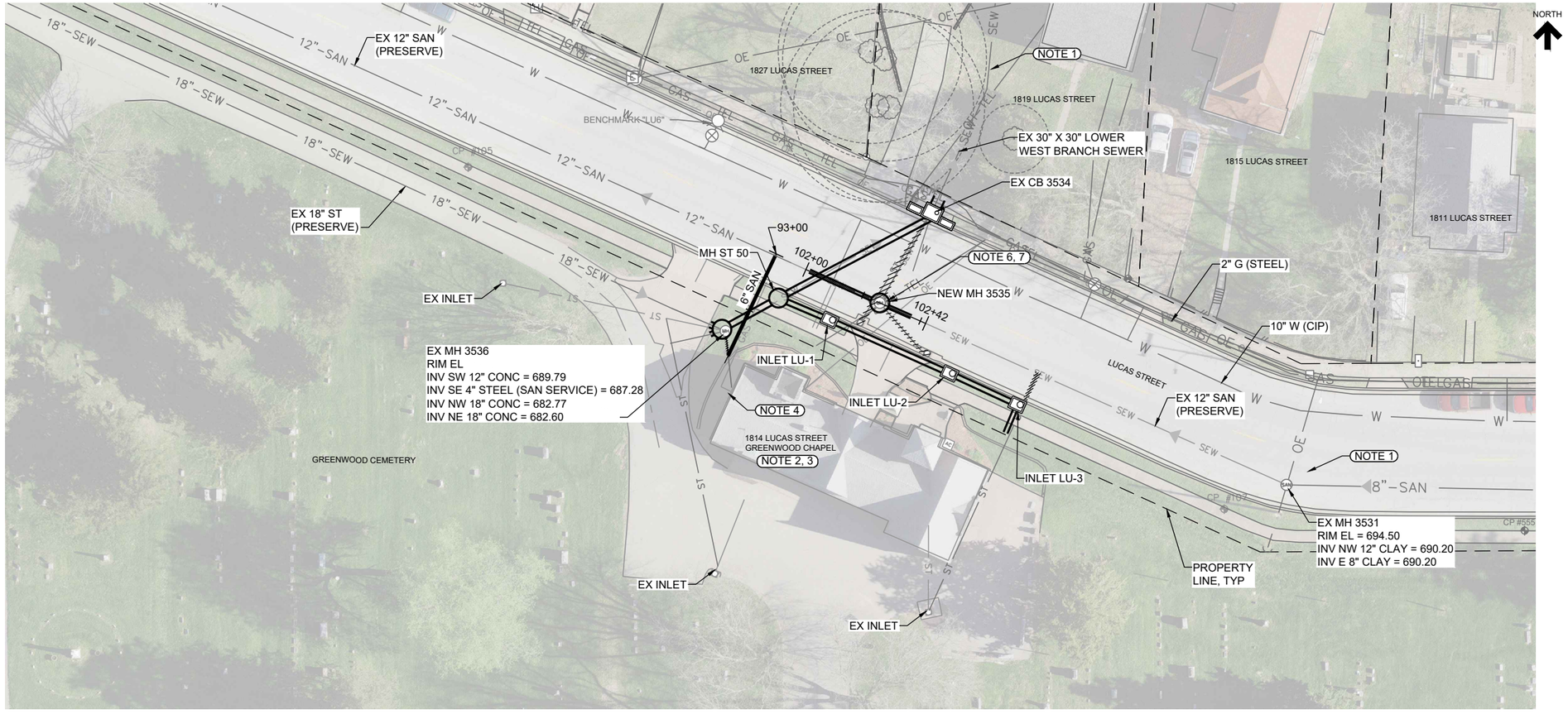
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DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

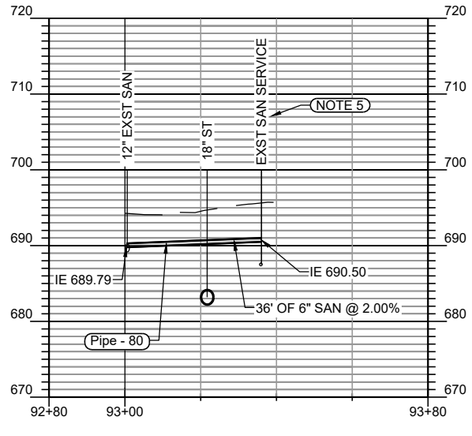
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MSA.15	0

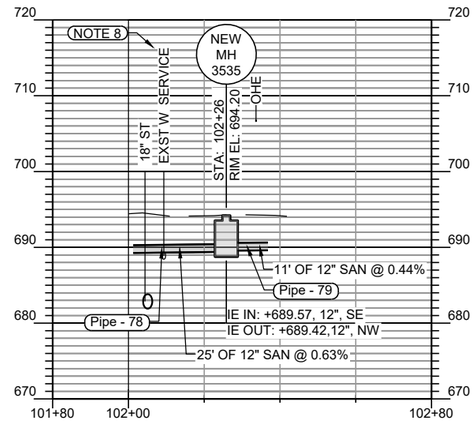
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PROFILE NEW SANITARY SERVICE TO CHAPEL



PROFILE NEW SANITARY MANHOLE 3535

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. SURVEY REPRESENTS COMBINED FIELD CONDITIONS FROM 2019 - 2020, AND 2025.
2. GREENWOOD CHAPEL BUILDING SANITARY SERVICE IS CONNECTED TO EXISTING MH 3536.
3. CITY REPORTS THAT CHAPEL BUILDING HAS A SINGLE BATHROOM AT GRADE WITH NO BASEMENT.
4. CONTRACTOR TO LOCATE SANITARY SERVICE LINE EXITING THE BUILDING IN ADVANCE OF BEGINNING CONSTRUCTION AT THIS LOCATION. USE EXPLORATORY TRENCH PAY ITEM. REPORT TO CITY AND DESIGN ENGINEER ELEVATION OF SERVICE LINE. CONNECT TO EXISTING SERVICE AND INSTALL NEW GRAVITY SERVICE LINE. SERVICE SHALL BE CONNECTED TO EXISTING 12-INCH CLAY SANITARY SEWER IN STREET. SERVICE SADDLE INSTALLATION MUST MEET REQUIREMENTS OF SUDAS SECTION 4010, ARTICLE 3.06, 2. PROTECT EXISTING UTILITIES. EXISTING BURIED UTILITIES ENTER WEST SIDE OF BUILDING NEAR SANITARY SERVICE.
5. PROPOSED PIPE PROFILE SHOWN IS AN EXAMPLE OF THE ELEVATIONS THE SERVICE COULD BE INSTALLED AT. INSTALL NEW SERVICE TO DRAIN BY GRAVITY TO EXISTING 12-INCH SANITARY SEWER IN LUCAS ST. BASED ON ELEVATION OF SERVICE LINE AT MH 3536, SERVICE LINE FOR CHAPEL IS DEEPER THAN PROPOSED SERVICE. LOCATE EXISTING SERVICE LINE AT HIGHER ELEVATION AND CLOSER TO BUILDING AND INSTALL AS SHOWN.
6. REMOVE AND REPLACE EXISTING BRICK MH 3535 WITH NEW PRECAST MANHOLE. CONNECT TWO SANITARY SEWER PIPES TO MANHOLE, THE INCOMING 12-INCH PIPE FROM SE AND THE OUT GOING PIPE TO THE NW. DISCONNECT ANY INLET PIPING OR INACTIVE PIPING AND REMOVE IN ITS ENTIRETY. MATCH SLOPE ON EXISTING PIPES.
7. SURVEY COLLECTED ELEVATIONS FOR EXISTING MANHOLE 3535 ARE THE FOLLOWING. CONNECT TO SANITARY PIPES AS INDICATED WITH FLEXIBLE WATER TIGHT COUPLER.

   EX MH 3535
   RIM EL = 694.32

   INV SW 12" CLAY = 689.78 (DISCONNECT)
   INV SE 12" CLAY = 689.58 (DISCONNECT)
   INV NE 12" CLAY = 689.58 (DISCONNECT)
   INV SE 12" CLAY = 689.57 (CONNECT)
   INV NW 12" CLAY BOTTOM = 689.42 (CONNECT)
8. PROTECT EXISTING WATER SERVICE. RELOCATE IF NEEDED. SEE SHEET A.05 FOR WTER RELOCATION DETAIL.

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER LUCAS ST - GREENWOOD CHAPEL AREA

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

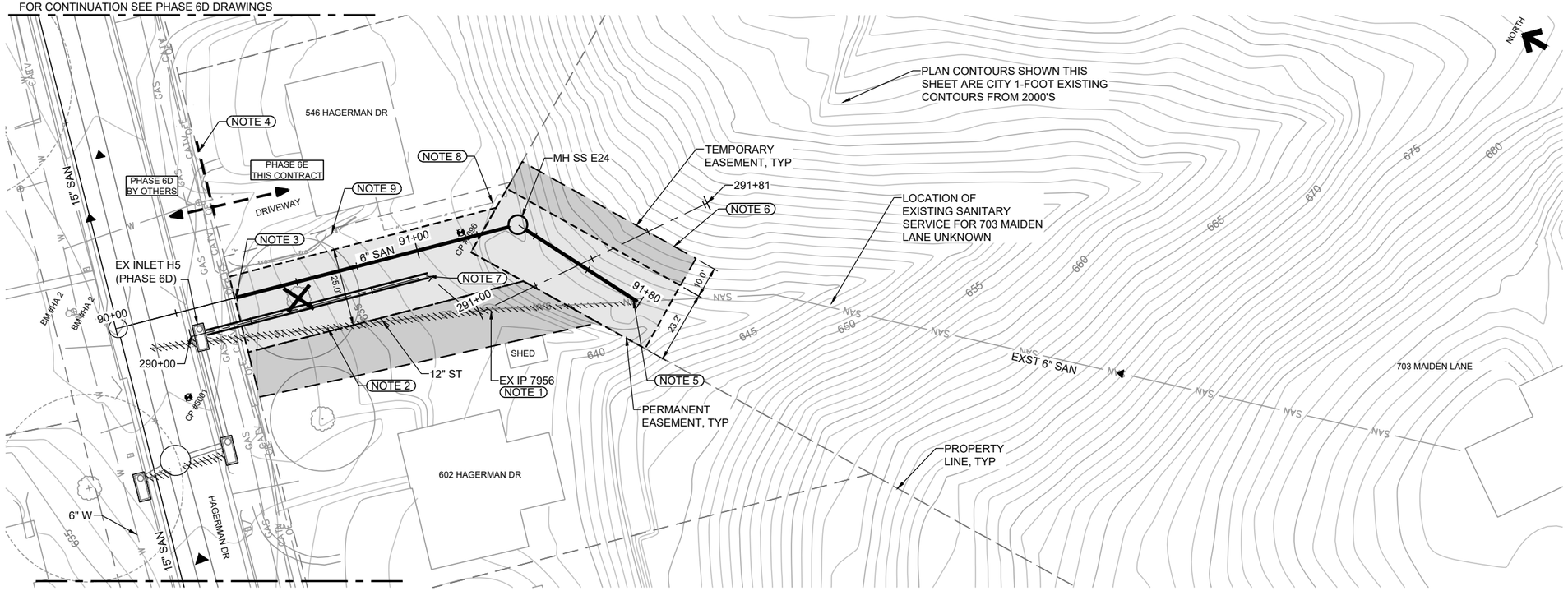
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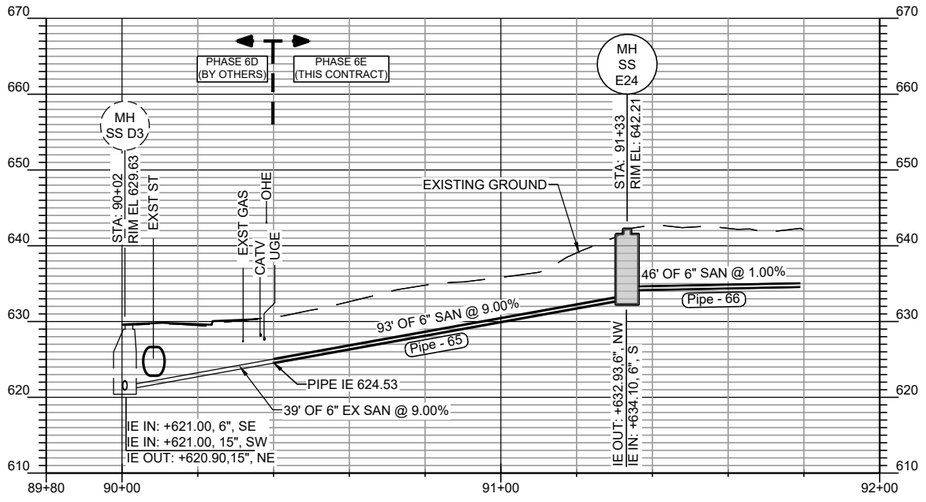
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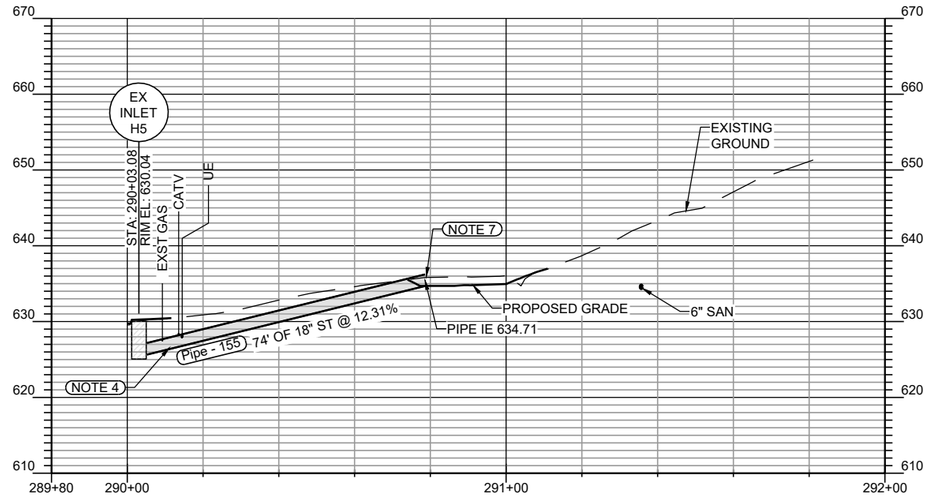
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SANITARY SEWER PROFILE



STORM SEWER PROFILE

NOTES

1. EXISTING SANITARY SERVICE FOR 703 MAIDEN LANE DISCHARGES INTO OPEN END OF 12-INCH CORRUGATED PLASTIC INTAKE PIPE (EX IP 7956) ON PROPERTY OF 602 HAGERMAN DRIVE. EXISTING PIPE INVERT OF STORM INTAKE IS IE = 635.46.
2. AT PHASE 6D INLET H5, DISCONNECT EXISTING PIPE OR FIND END OF NEW PIPE INSTALLED IN PREVIOUS PHASE AND INSTALL NEW STORM SEWER ON ALIGNMENT SHOWN. REMOVE EXISTING STORM PIPE AND EXISTING INTAKE IP 7956.
3. LOCATE END OF SANITARY SERVICE LINE STUB NEAR RIGHT OF WAY LINE INSTALLED IN PHASE 6D. REMOVE CAP AND CONTINUE SERVICE INSTALLATION AS SHOWN.
4. PROTECT EXISTING UTILITIES. IF RELOCATION IS NEEDED, COORDINATE WITH UTILITY OWNER.
5. LOCATE AND INTERCEPT EXISTING SERVICE LINE FROM 703 MAIDEN LANE AND CONNECT TO NEW SANITARY SERVICE LINE. ADJUST LOCATION OF NEW PIPE UPSTREAM OF MH SS E24 AS NEEDED TO INTERCEPT SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR STAKING EASEMENT AND STAYING WITHIN EASEMENT SHOWN. CONTRACTOR TO USE SURVEYOR PLAT TO STAKE EASEMENT.
7. INSTALL PIPE APRON AND GUARD ON END OF STORM PIPE. SUDAS FIGURE 4030.222 AND 4030.224. DAYLIGHT PIPE TO GRADE. RESHAPE EXISTING CONTOURS TO MODIFY LOW POINT AND REDIRECT DRAINAGE WAY FROM 703 MAIDEN LANE PROPERTY TO DRAIN TO NEW OPEN PIPE END. SHAPE AREA TO DRAIN. SEE D SHEET FOR PROPOSED CONTOURS. RESTORE DISTURBED AREA, AND PROTECT WITH EROSION MATTING OR EROSION STONE AS NEEDED.
8. PROTECT EXISTING FENCE IF DISTURBANCE IS NEEDED, REMOVE FENCE, SALVAGE, AND REINSTALL TO MATCH EXISTING. IF FENCE IS DAMAGED, REPLACE TO MATCH EXISTING.
9. EXISTING BLOCK RETAINING WALL AND FLOWER BED EXTENDS ALONG DRIVEWAY BELONGING TO 546 HAGERMAN EAST OF POWER POLE. PROTECT. RESTORE IF DAMAGED.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM AND SANITARY 602 HAGERMAN AND 703 MAIDEN LANE

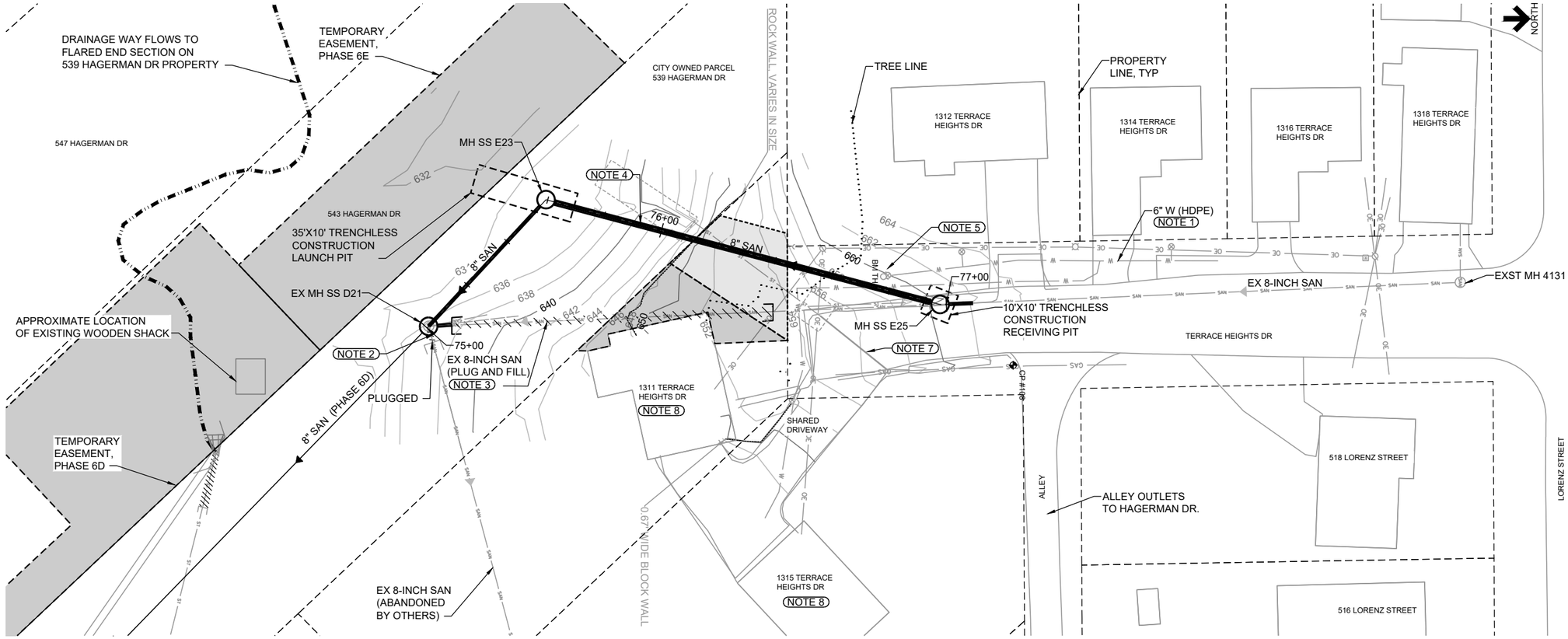
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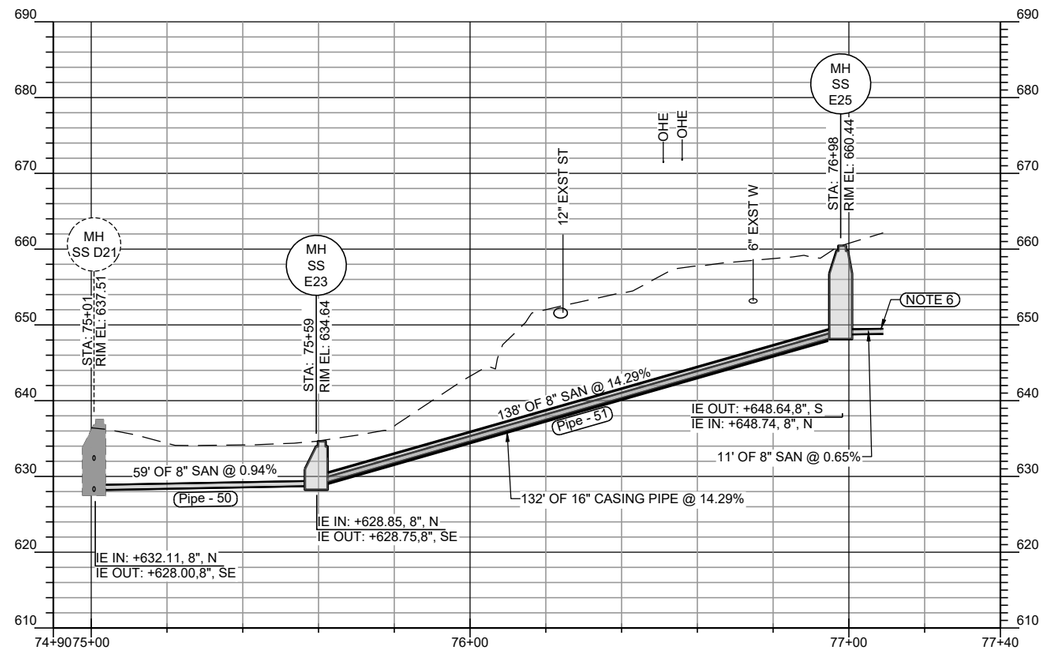
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	JM BRADY
DATE	MARCH 30, 2026

SCALE: 1" = 20'
NO. 17660.60.40
REV.
MSA.17
0

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NOTES

1. MPW MAPPING SHOWS ONE ABANDONED 6-INCH AND ONE ACTIVE 6-INCH.
2. MANHOLE SSD21 WAS INSTALLED IN PHASE 6D BY OTHERS AT RIM ELEVATION 637.51. CORE OPENING IN MANHOLE, INSTALL FLEXIBLE WATERTIGHT CONNECTOR, AND INSTALL NEW SANITARY SEWER. PLUG CONNECTION TO EXISTING TERRACE HEIGHTS SANITARY SEWER THEN FILL AND ABANDON PIPING IN PLACE.
3. CITY REPORTS DETERIORATION OF EXISTING SANITARY PIPE. LOCATION OF VOID IS THOUGHT TO BE LOCATED NEAR 1311 TERRACE HEIGHTS. REMOVE EXISTING SANITARY PIPE WITHIN TERRACE HEIGHTS ROW UNDER EXISTING PAVEMENT. PLUG OFF PIPE AND FILL WITH FLOWABLE FILL.
4. TRENCHLESS SEWER CONSTRUCTION UNDER WALL/STEEP SLOPE. INSTALL CASING IF REQUIRED FOR CONTRACTOR'S TRENCHLESS METHOD SELECTED. PROVIDE CASING DIAMETER AND CASING SPACERS IN ACCORDANCE WITH SUDAS SECTION 3020. PROTECT ALL EXISTING UTILITIES AND EXISTING SURFACE FEATURES. REPAIR ANY DAMAGE TO SURFACE FEATURES.
5. EXISTING FIRE HYDRANT IS LOCATED IN CITY ROW NEAR 1312 TERRACE HEIGHTS DR. PROTECT HYDRANT AND EXISTING WATER LINES.
6. CONNECT TO EXISTING 8-INCH CLAY SEWER WITH FLEXIBLE WATER TIGHT SHIELDED COUPLER. MATCH EXISTING PIPE SLOPE.
7. SEE SHEET M.18 FOR REPLACEMENT OF TRENCH DRAIN. NEW STORM AND TRENCH DRAIN ARE NOT SHOWN ON THIS MSA.18 SHEET.
8. FIND SANITARY SERVICE CONNECTIONS FOR 1311 AND 1315 TERRACE HEIGHTS AND CONNECT TO ACTIVE SANITARY SEWERS.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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MUSCATINE, IOWA

SANITARY SEWER TERRACE HEIGHTS DRIVE

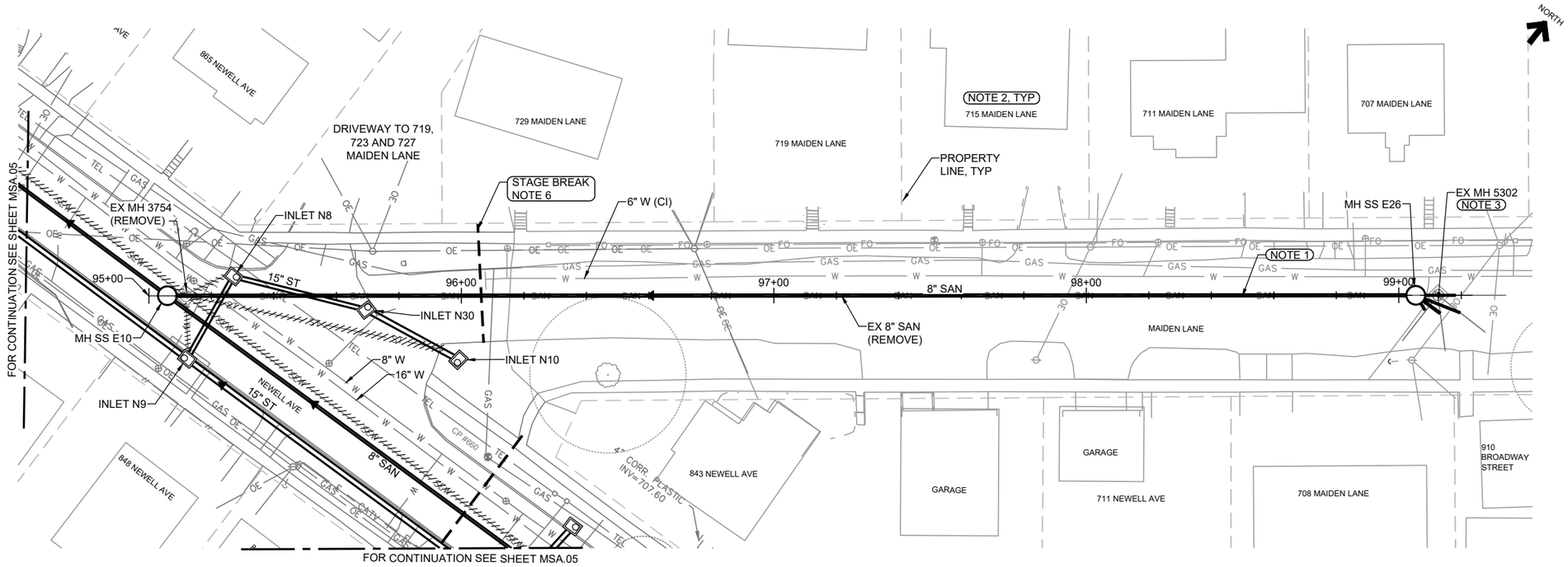
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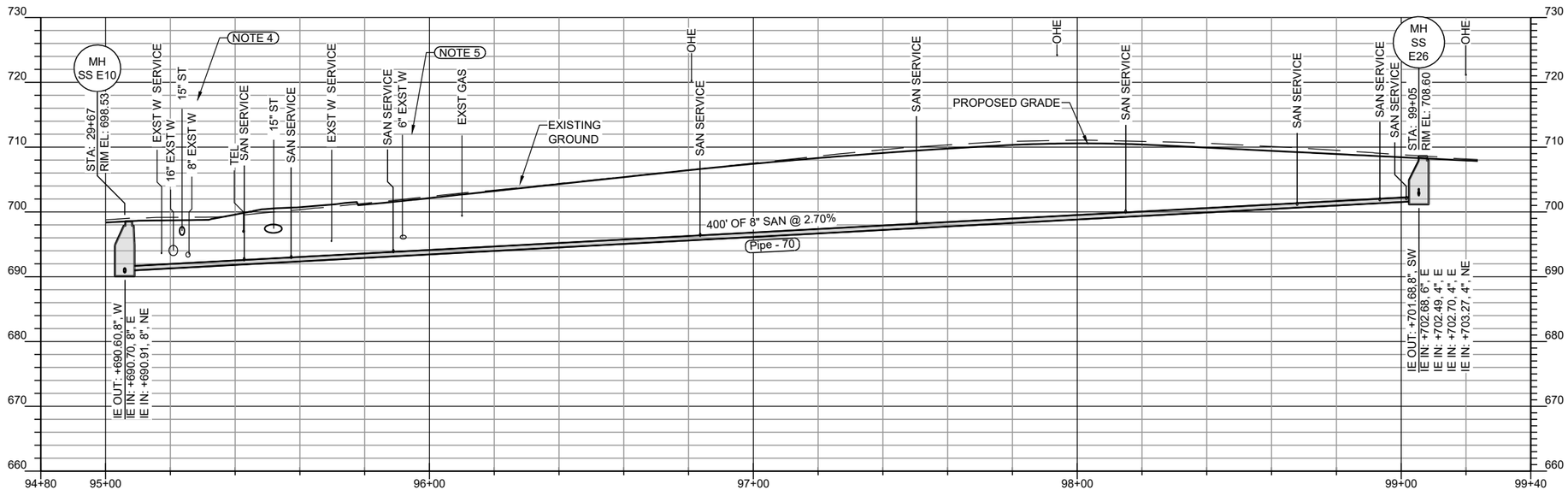
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 20'

NO. 17660.60.40	REV.
MSA.18	0

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. INSTALL NEW SANITARY SEWER ON ALIGNMENT SHOWN. REMOVE EXISTING SANITARY SEWER AND MANHOLES AS WORK PROGRESSES AND CONNECT ALL ACTIVE SANITARY SERVICES TO NEW SANITARY. PLUG ALL OPEN PIPE ENDS OF INACTIVE SERVICES AND ABANDON REMAINING PIPING IN PLACE. FIELD VERIFY WHETHER SERVICE IS 'LIVE' AND WHETHER IT IS STORM OR SANITARY.
2. LOCATE ALL EXISTING SANITARY SERVICES AND CONNECT TO NEW SANITARY SEWER.
3. REMOVE EXISTING MH 5302 AND REPLACE WITH NEW. EXISTING MH HAS 4 CONNECTIONS. DETERMINE IF EACH CONNECTION IS SANITARY AND RECONNECT AT ELEVATIONS SHOWN. ALTERNATIVELY SPACE OUT SEWER WYES TO FIT ON MAINLINE SEWER AND CONNECT TO EXISTING SERVICES. SEWER SERVICE RISER MAY BE NEEDED. SEE SHEET A.04 FOR DETAIL. INSTALL CLEANOUTS OUTSIDE OF PAVED SURFACE NEAR ROW LINE FOR HORIZONTAL DIRECTION CHANGE.
4. PROVIDE A MINIMUM OF 6-INCHES OF CLEARANCE BETWEEN BOTTOM OF WATER AND TOP OF NEW SANITARY. PROTECT WATER DURING SANITARY SEWER INSTALLATION.
5. EXISTING 6-INCH WATER SERVING MAIDEN LANE LIKELY CROSSES SANITARY IN THIS AREA. PROTECT EXISTING WATER.
6. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN SEWAE FLOW AT ALL TIMES. TEMPORARY SEWER CONNECTIONS MAY BE NEEDED BETWEEN STAGES.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER MAIDEN LANE

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 20'

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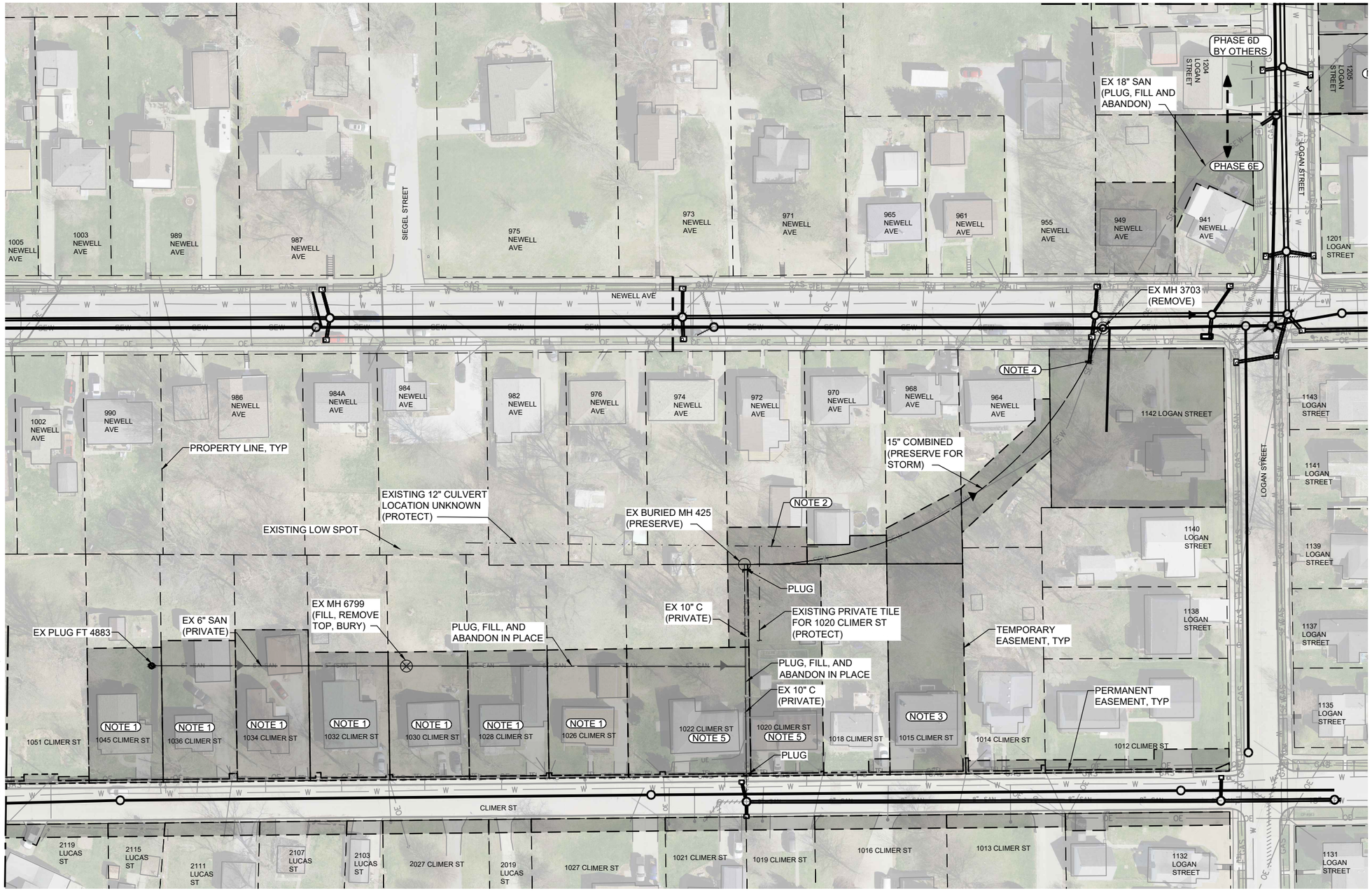
MSA.21 | 0

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NORTH

FOR CONTINUATION SEE SHEET MSA.23



FOR CONTINUATION SEE SHEET MSA.13

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. LOCATE EXISTING SANITARY SERVICE FOR HOUSES CONNECTED TO EXISTING 6-INCH PRIVATE SANITARY IN BACK YARDS. DETERMINE IF EXISTING SERVICES CAN BE INTERCEPTED IN THE YARD OR IF SANITARY SERVICES WILL NEED TO BE RE-PLUMBED INSIDE THE HOUSE IN ORDER TO CONNECT TO NEW CLIMER STREET SANITARY. IMPACTED ADDRESSES ARE 1045, 1036, 1034, 1032, 1030, 1028, 1026, 1022, AND 1020 CLIMER ST.
2. UNKNOWN WHERE 12-INCH CULVERT CONNECTS. PROTECT EXISTING CULVERT. POSSIBLE CONNECTION TO MH 425 OR DIRECTLY TO 15-INCH COMBINED.
3. EXISTING SANITARY SERVICES FOR 1015 CLIMER STREET CONNECT TO EXISTING 15-INCH COMBINED SEWER. DETERMINE IF EXISTING SERVICES CAN BE INTERCEPTED IN YARD OR IF SANITARY SERVICES WILL NEED TO BE RE-PLUMBED INSIDE THE HOUSE IN ORDER TO CONNECT TO NEW CLIMER STREET SANITARY.
4. CONNECT EXISTING 15-INCH COMBINED SEWER TO NEW STORM ON NEWELL ST. SEE SHEET M.07.
5. EXISTING SERVICES FOR 1022 AND 1020 CLIMER ARE THOUGHT TO BE CONNECTED TO THE EXISTING 10-INCH PRIVATE LINE BETWEEN HOUSES. LOCATE SERVICE, REDIRECT TO CLIMER STREET, OR RE-PLUMB HOUSE TO NEW CLIMER STREET SEWER.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

SANITARY SEWER
CLIMER PRIVATE SEWER AREA

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APPROVED	JM BRADY
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DATE	MARCH 30, 2026

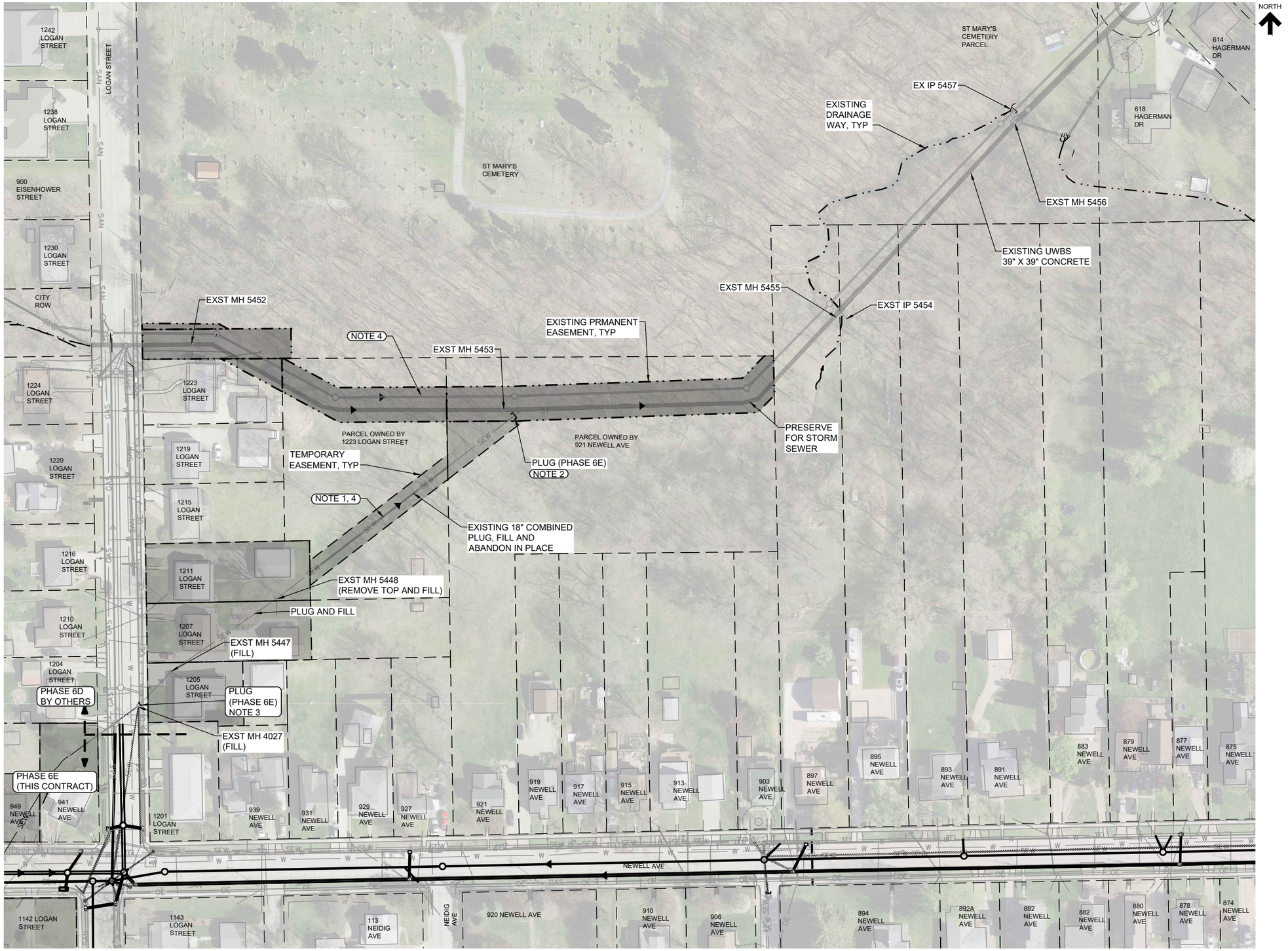
SCALE: 1" = 40'

NO. 17660.60.40 | REV. 0

MSA.22

CADD D3-R5

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. INSTALL PLUGS OR BULKHEADS AT ENDS AND BETWEEN EXISTING MH 4027, AND EXTENDING TO THE NORTHEAST TO THE EXISTING UWBS SEWER, PLUG OFF EXISTING 18-INCH COMBINED SEWER, FILL WITH FLOWABLE FILL, AND ABANDON EXISTING PIPE IN PLACE. PIPE ABANDONMENT SHALL NOT OCCUR UNTIL COMPLETION OF UPSTREAM SEPARATION OF SEWERS ON NEWELL, LOGAN AND CLIMER. AVOID PLUGGING OFF PREMATURELY TO MAINTAIN THE OPTION OF BYPASS PUMPING OR OVERFLOW DIVERSION TO THIS SEWER TO PROVIDE A MEANS TO RELIEVE UPSTREAM SEWERS DURING CONSTRUCTION.
2. DISCONNECT 18-INCH PIPE FROM EXISTING UWBS, PLUG PIPE END WITH CONCRETE TO FORM WATERTIGHT SEAL AND CREATE A BULKHEAD. SEAL AND PLUG OPENING IN UWBS TO 18-INCH SEWER.
3. DISCONNECT 18-INCH PIPE FROM EX MH 4027, PLUG PIPE END WITH CONCRETE TO FORM WATERTIGHT SEAL AND CREATE A BULKHEAD.
4. IF AREAS ARE DISTURBED DURING PIPE PLUGGING, FILLING, AND ABANDONMENT OR DURING ACCESS, RESTORE TO MATCH EXISTING CONDITIONS.

LEGEND

PERMANENT EASEMENT

TEMPORARY EASEMENT

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

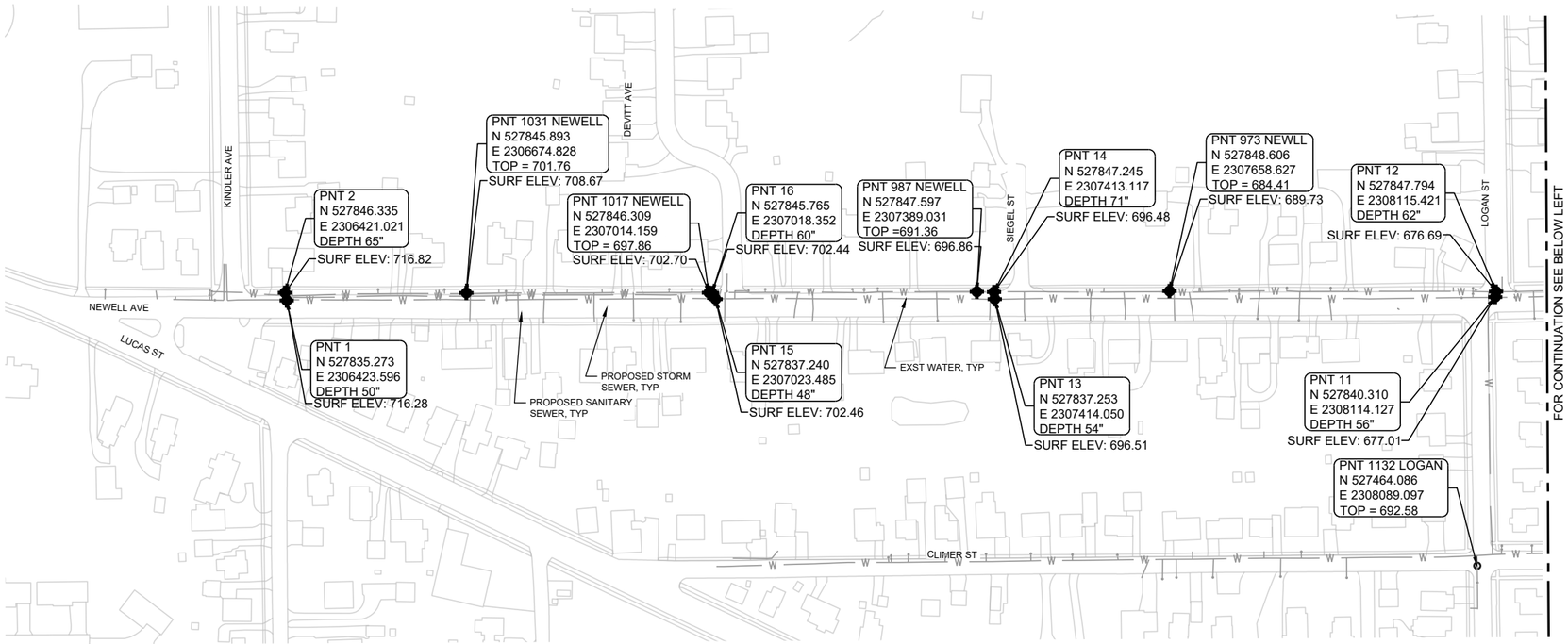
SANITARY SEWER ABANDONING SEWERS

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

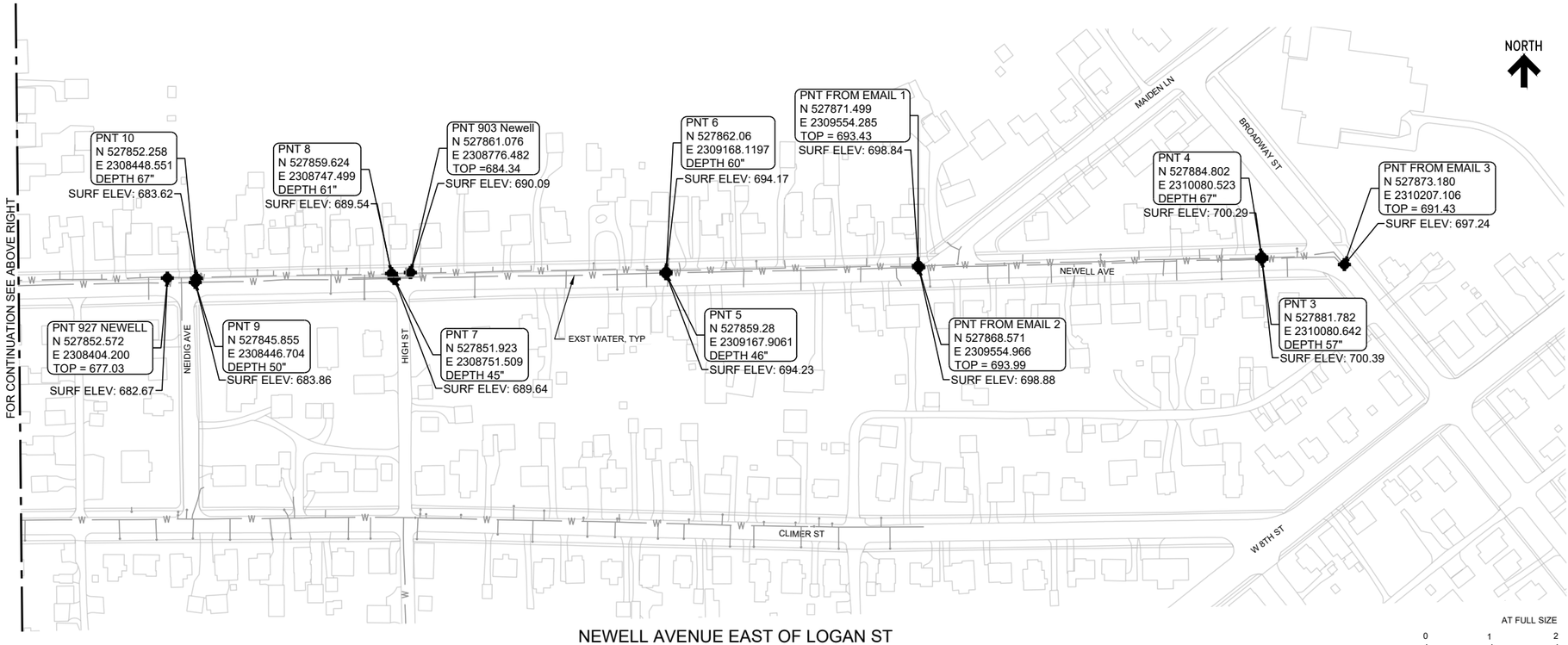
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NO. 17660.60.40 | REV. MSA.23 | 0

CADD D3-R5
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NEWELL AVENUE WEST OF LOGAN ST



NEWELL AVENUE EAST OF LOGAN ST

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. UTILITY DEPTH INFORMATION SUMMARIZED ON THIS SHEET WAS COLLECTED BY THE CITY, MPW, OR MPW HIRED CONSULTANT. 'TOP' REPRESENTS THE TOP OF PIPE FOR THE 8-INCH OR 16-INCH WATER MAIN ON NEWELL AVENUE. DEPTH REPRESENTS DEPTH FROM EXISTING GROUND SURFACE TO TOP OF WATERMAIN. SURF ELEV REPRESENTS THE GROUND ELEVATION PULLED FROM SURVEY DERIVED EXISTING GROUND SURFACE MODEL.
2. NOTE MPW COLLECTED DEPTH INFORMATION AT VARIOUS VALVES ALONG THE PROJECT. DATA IS REPRESENTED ON THE M OR MSA SHEETS NOTING THE VALVE NUMBER AND THE TOP OF PIPE (TOP) ESTIMATE. POTHOLE DATA COLLECTED ON THIS SHEET MWM.00 IS CONSIDERED A HIGHER LEVEL OF ACCURACY THAN THE ESTIMATE BASED ON VALVE DEPTH.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
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MUSCATINE, IOWA

WATER MAIN ELEVATION DATA

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 100'

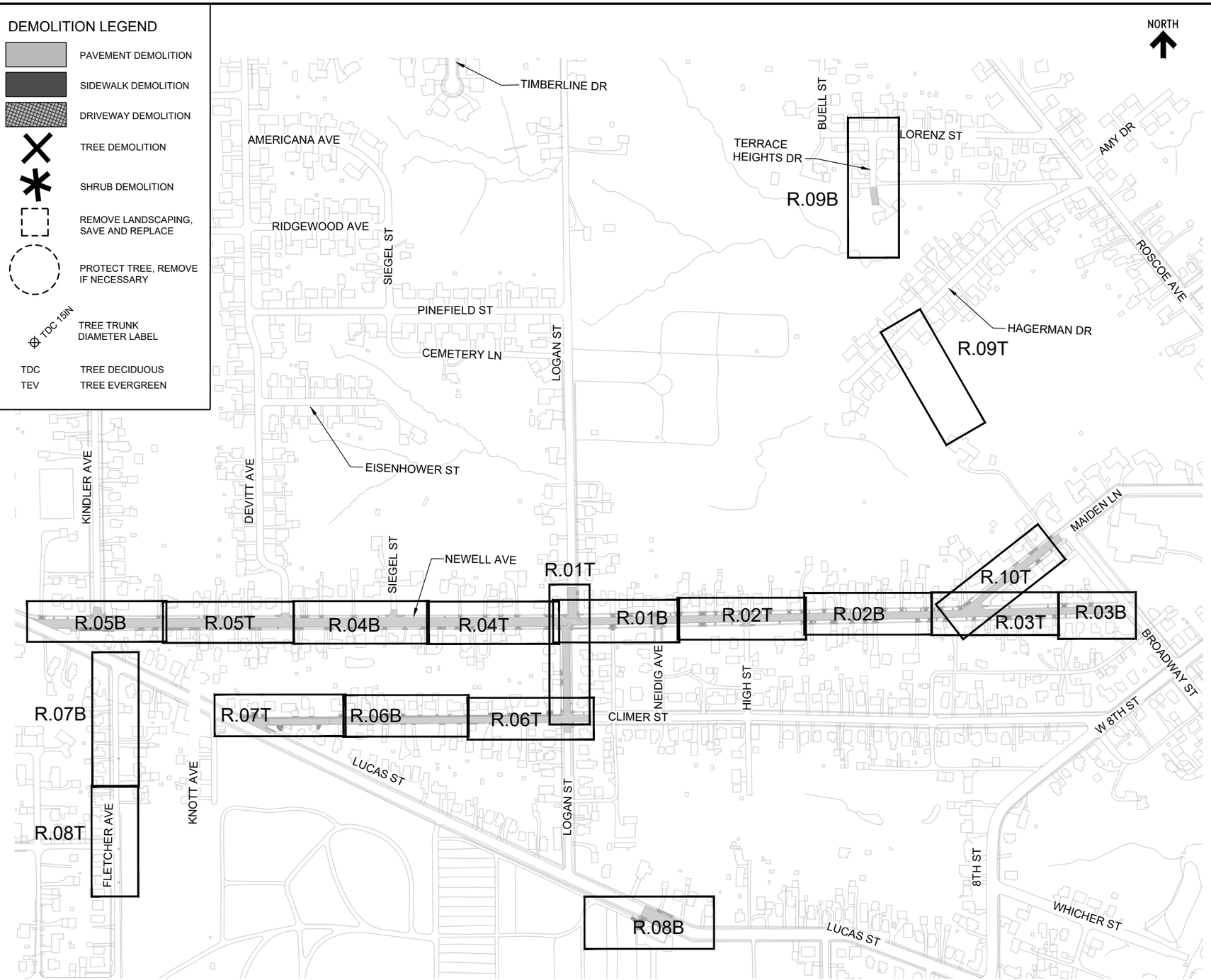
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MWM.00	0

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DEMOLITION LEGEND

- PAVEMENT DEMOLITION
- SIDEWALK DEMOLITION
- DRIVEWAY DEMOLITION
- TREE DEMOLITION
- SHRUB DEMOLITION
- REMOVE LANDSCAPING, SAVE AND REPLACE
- PROTECT TREE, REMOVE IF NECESSARY
- TDC 15IN — TREE TRUNK DIAMETER LABEL
- TDC — TREE DECIDUOUS
- TEV — TREE EVERGREEN



GENERAL NOTES

1. ROW LINES INDICATED ON PLANS ARE NOT SURVEYED. INFORMATION WAS OBTAINED FROM INFORMATION FROM MUSCATINE AREA GEOGRAPHICAL INFORMATION CONSORTIUM (MAGIC). PROPERTY SURVEY IS REQUIRED TO DETERMINE EXACT LOCATIONS. CONTRACTOR SHALL CONDUCT WORK WITHIN ROW LIMITS UNLESS EASEMENT OR CONSTRUCTION LIMITS ARE SHOWN ON PLANS.
2. CONTRACTOR SHALL PRESERVE AND PROTECT TREES TO GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. COORDINATE WITH CITY ON DECISION TO REMOVE ADDITIONAL TREES.
3. CONTRACTOR SHALL PROTECT UNDERGROUND LIGHTING CONDUITS AND JUNCTION BOXES. IF DAMAGED, CONTRACTOR SHALL REPAIR ACCORDING TO MUSCATINE POWER AND WATER (MP&W) REQUIREMENTS. CONTRACTOR SHALL CONTACT MP&W IF DAMAGE OCCURS TO LIGHTING CONDUITS AND JUNCTION BOXES FOR REPAIR REQUIREMENTS. CONTRACTOR WILL NOT BE PAID DIRECTLY FOR LIGHTING REPAIR WORK. REPAIR WORK IS CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT.
4. EXISTING DOWNSPOUT DRAIN PIPES THAT ARE LOCATED WITHIN THE CURB SECTION SHALL BE DISCONNECTED. CONNECTIONS ARE ONLY ALLOWED IF AUTHORIZED BY CITY. DISCONNECTING RELATED TO DOWNSPOUT DRAIN PIPES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT CONSTRUCTION WORK. NO ADDITIONAL PAYMENT WILL BE PROVIDED TO THE CONTRACTOR FOR THIS WORK. PAYMENT WILL ONLY BE MADE UPON AUTHORIZATION BY THE CITY WHEN CONNECTING EXISTING DRAIN PIPES TO THE NEW CURB USING AUTHORIZED CURB CASTINGS.
5. CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING FEATURES ON PRIVATE PROPERTY. ITEMS THAT ARE DAMAGED DUE TO CONSTRUCTION SHALL BE REPLACED/RECONSTRUCTED BY CONTRACTOR AT NO ADDITIONAL COST TO CITY. CONSTRUCTION STAKING OF CONSTRUCTION LIMITS IS THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATES OF CONSTRUCTION LIMITS ARE AVAILABLE WITH CADD FILE.
6. HMA MILLINGS AND PCC PAVEMENT REMOVED SHALL BE HAULED TO CITY OF MUSCATINE PUBLIC WORKS FACILITY ON WASHINGTON STREET, MUSCATINE, IA.
7. REMOVE AND SALVAGE BRICKS FROM BRICK STREET BASE. DELIVER SALVAGED BRICK TO CITY OF MUSCATINE PUBLIC WORKS FACILITY ON WASHINGTON STREET. LIMESTONE CURB THAT IS REMOVED SHALL BE HANDLED SAME AS BRICK.
8. IF NECESSARY, TRIM TREE BRANCHES BACK TO AVOID OVERHEAD CONFLICT WITH CONSTRUCTION MACHINERY TO PRESERVE TREES. CONTRACTOR SHALL COORDINATE WITH CITY.
9. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON PLANS HAS BEEN OBTAINED FROM MARTIN & WHITACRE SURVEY (SURVEY COMPLETED BETWEEN 2021 AND 2025). BUILDING OUTLINES SHOWN ARE FROM CITY OF MUSCATINE DATA SOURCE AND MAY NOT REFLECT CURRENT CONDITIONS.
10. ANY STREET SIGNS IN THE IMPACTED AREA SHOULD BE SALVAGED AND DELIVERED/STOCKPILED AT THE CITY PUBLIC WORKS STORAGE YARD IMMEDIATELY AFTER REMOVAL. IF SIGNS ARE DAMAGED OR MISSING, CONTRACTOR MAY BE SUBJECT TO FINES AS DETERMINED BY THE CITY. CITY REQUIRES CONTRACTOR TO REINSTALL SIGNS AT END OF CONSTRUCTION. REFER TO SIGN SUMMARY TABLE ON SHEET C.19.
11. PLACE INLET PROTECTION AROUND INTAKES THAT ARE AT A LOCALIZED LOW POINT AND RECEIVE RUNOFF FROM DISTURBED AREAS. PROTECT ALL PROPOSED AND EXISTING INTAKES (ONSITE AND OFFSITE) THAT HAVE POTENTIAL TO CAPTURE SITE RUNOFF. SEE RR SHEETS FOR RECOMMENDED EROSION CONTROL PROTECTION MEASURES.
12. SILT FENCE TO BE INSTALLED IN ACCORDANCE WITH THE SWPPP DOCUMENT PROVIDED HEREIN. THIS APPLIES THROUGHOUT THE ENTIRE PROJECT.
13. EXISTING PAVEMENT MARKINGS SHALL BE DOCUMENTED BY THE CONTRACTOR PRIOR TO DEMOLITION.
14. MAKE A CLEAN, FULL DEPTH SAWCUT AT DEMO LIMITS AND AT PHASE BOUNDARIES.
15. REFER TO SANITARY AND STORM SEWER PLAN DRAWINGS FOR PROPOSED SEWERS, MANHOLES, AND INLETS. ABANDONED OR REMOVED PIPES AND MANHOLES ARE HATCHED ON THE M AND MSA SERIES DRAWINGS.
16. SIDEWALK REMOVAL LIMITS SHOWN ARE MINIMUM REQUIRED. REMOVE SIDEWALK TO NEAREST JOINT.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

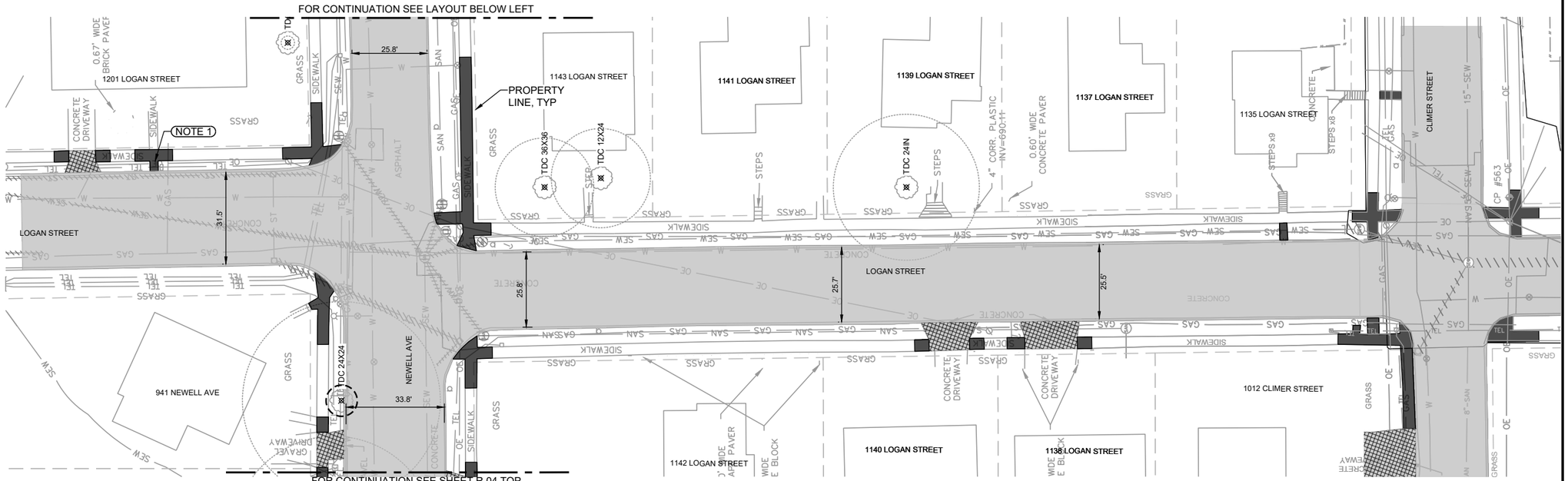
DEMOLITION OVERALL KEY PLAN

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

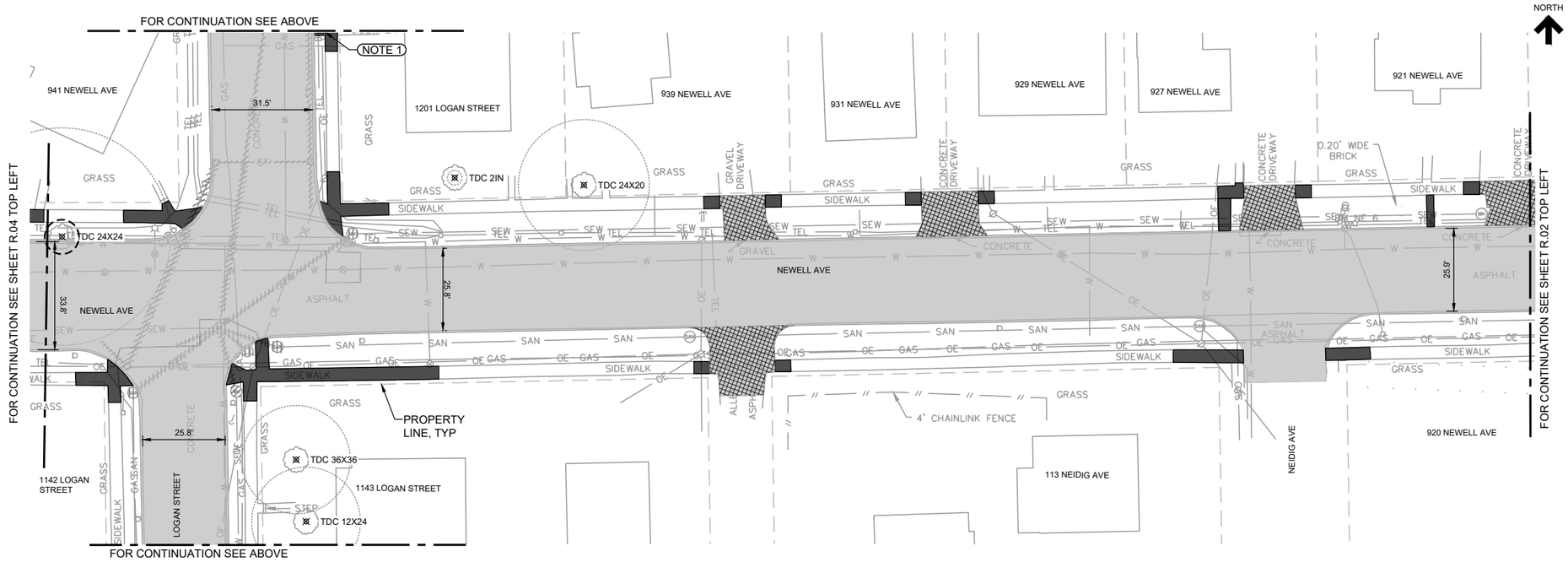
SCALE: AS NOTED
NO. 17660.60.40
REV. 0
R.00

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5
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LOGAN STREET DEMOLITION PLAN



NEWELL AVENUE DEMOLITION PLAN

NOTES

1. PROTECT OR REMOVE AND REINSTALL MAILBOX. COORDINATE WITH CITY AND PROPERTY OWNER FOR SAFE STORAGE OF MAILBOX DURING CONSTRUCTION.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

DEMOLITION PLAN
LOGAN STREET & NEWELL AVENUE

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

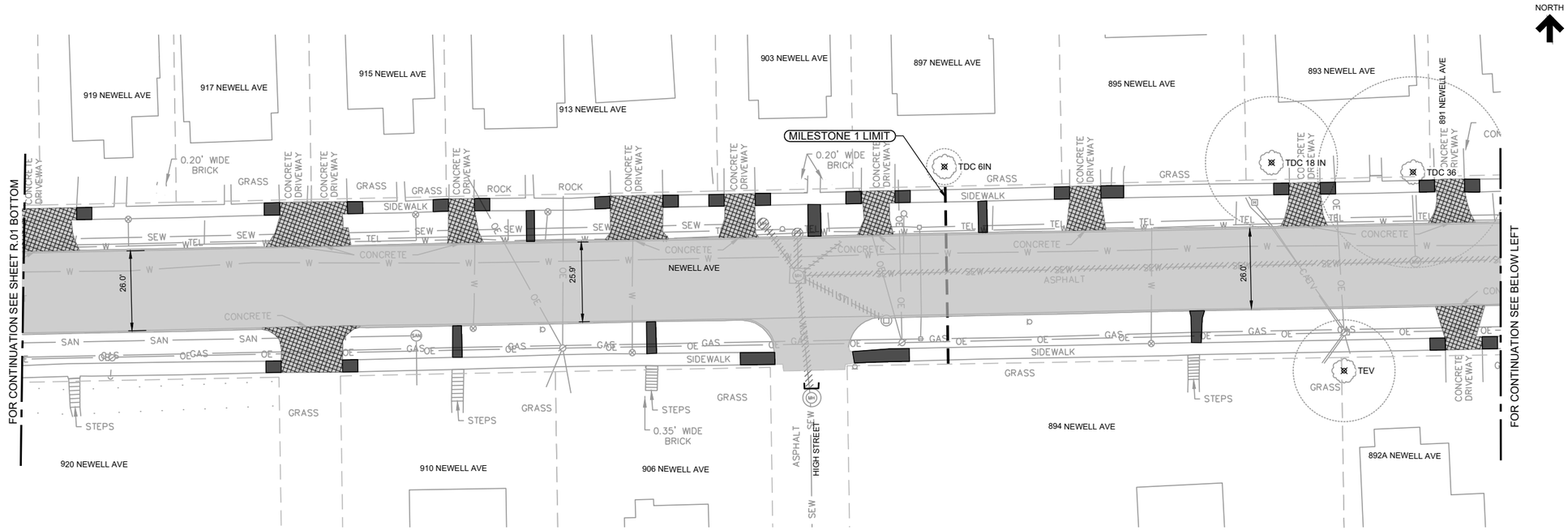
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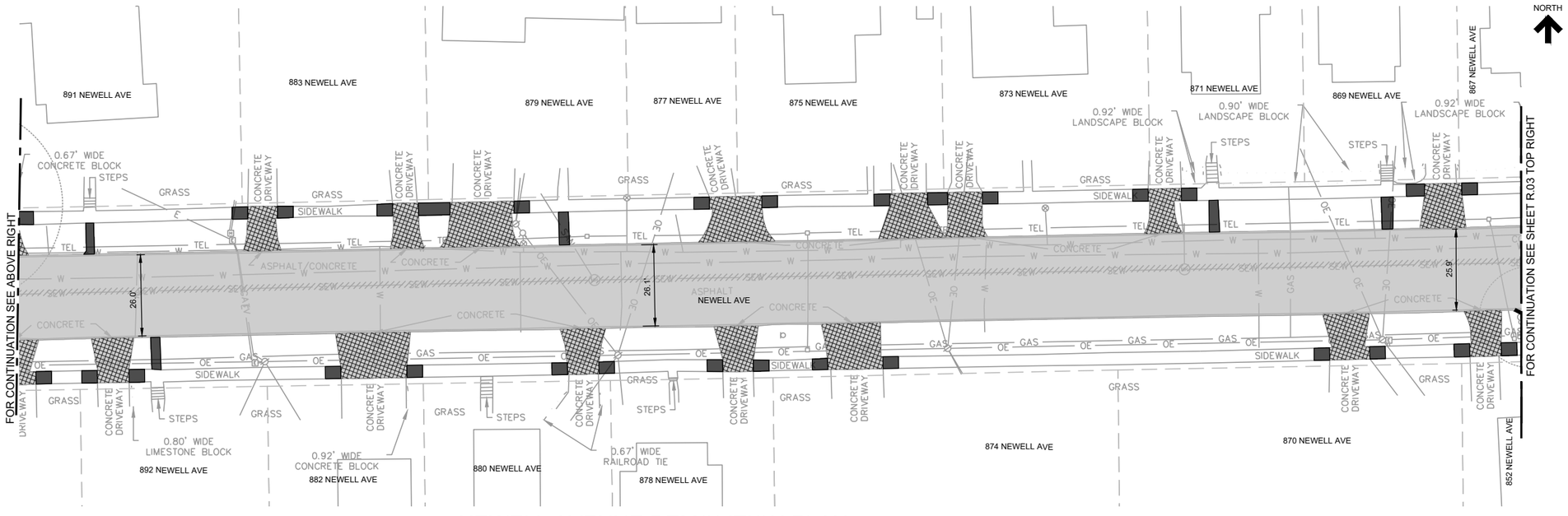
AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

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NEWELL AVENUE DEMOLITION PLAN



NEWELL AVENUE DEMOLITION PLAN

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

DEMOLITION PLAN
NEWELL AVENUE - SHEET 2

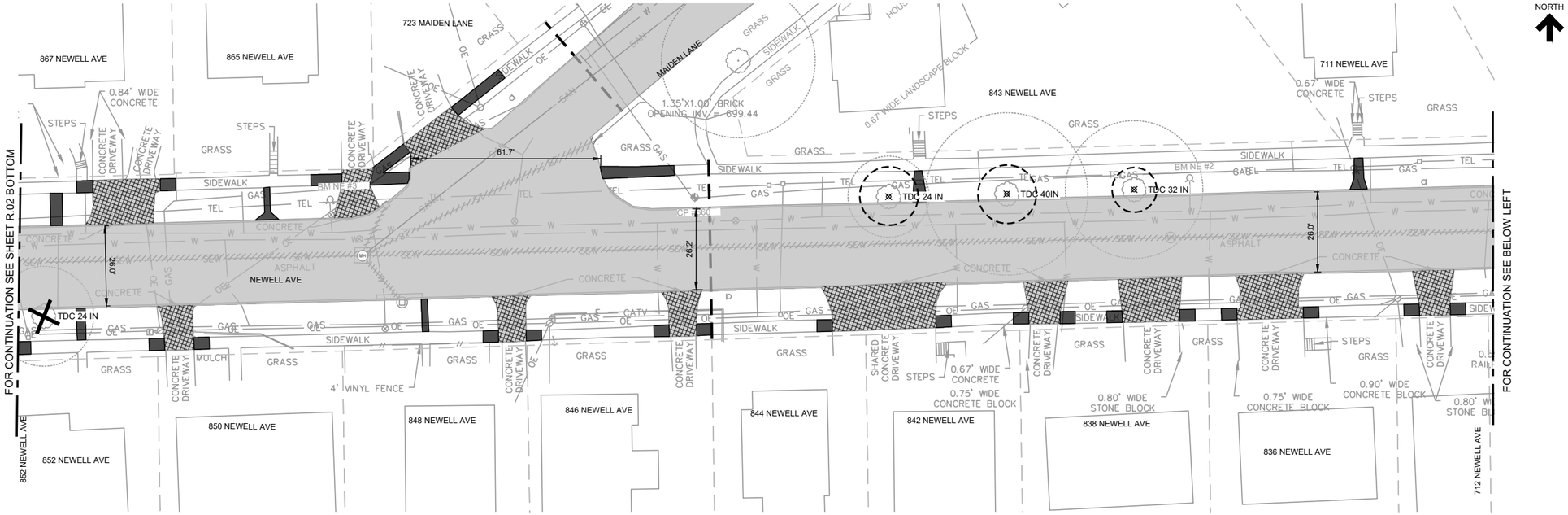
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

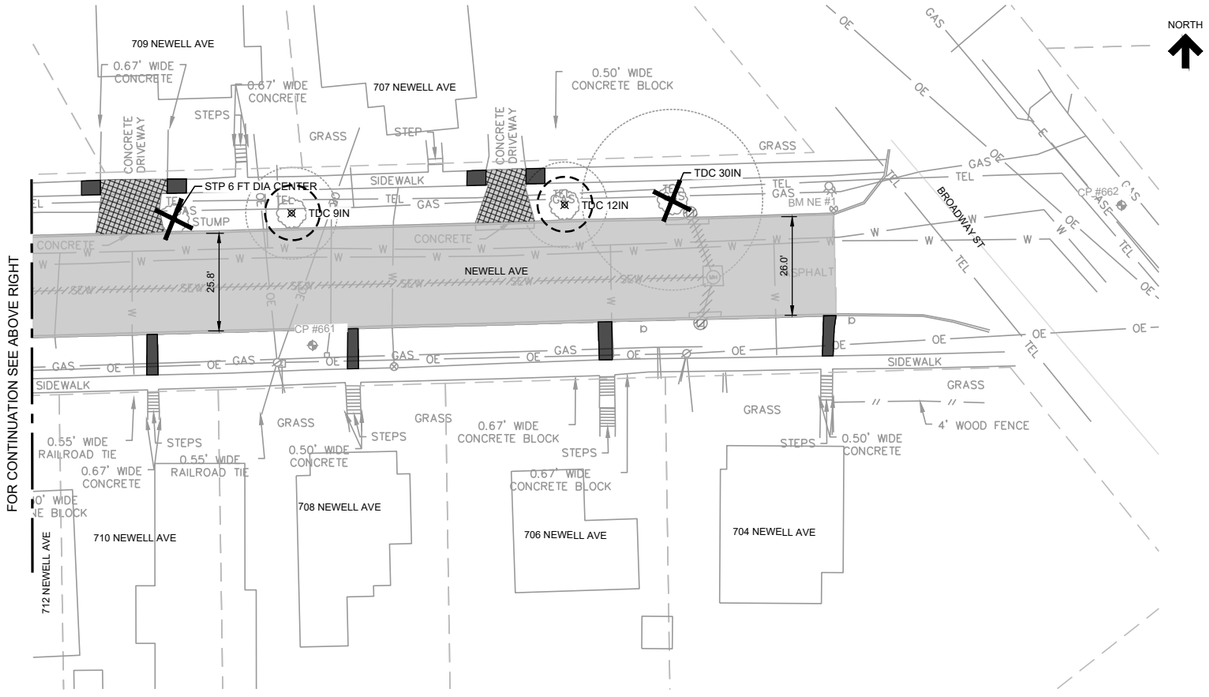
NO. 17660.60.40 | REV. R.02 | 0

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NEWELL AVENUE DEMOLITION PLAN



NEWELL AVENUE DEMOLITION PLAN

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

DEMOLITION PLAN
NEWELL AVENUE - SHEET 3

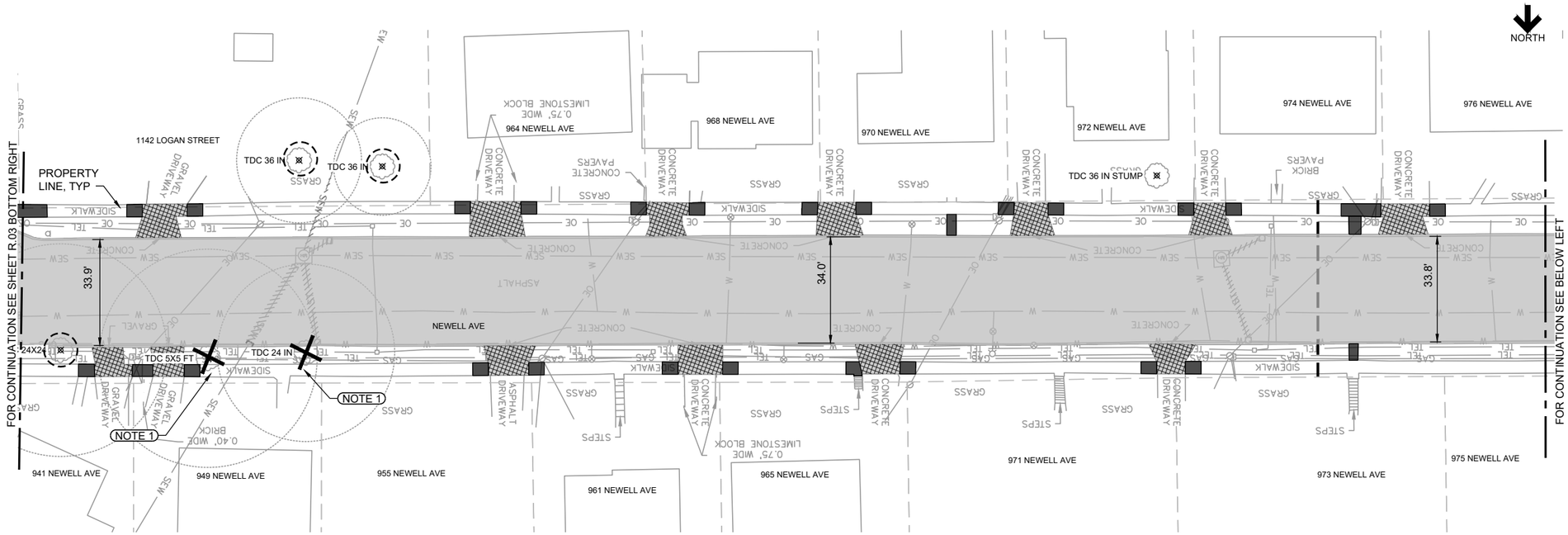
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

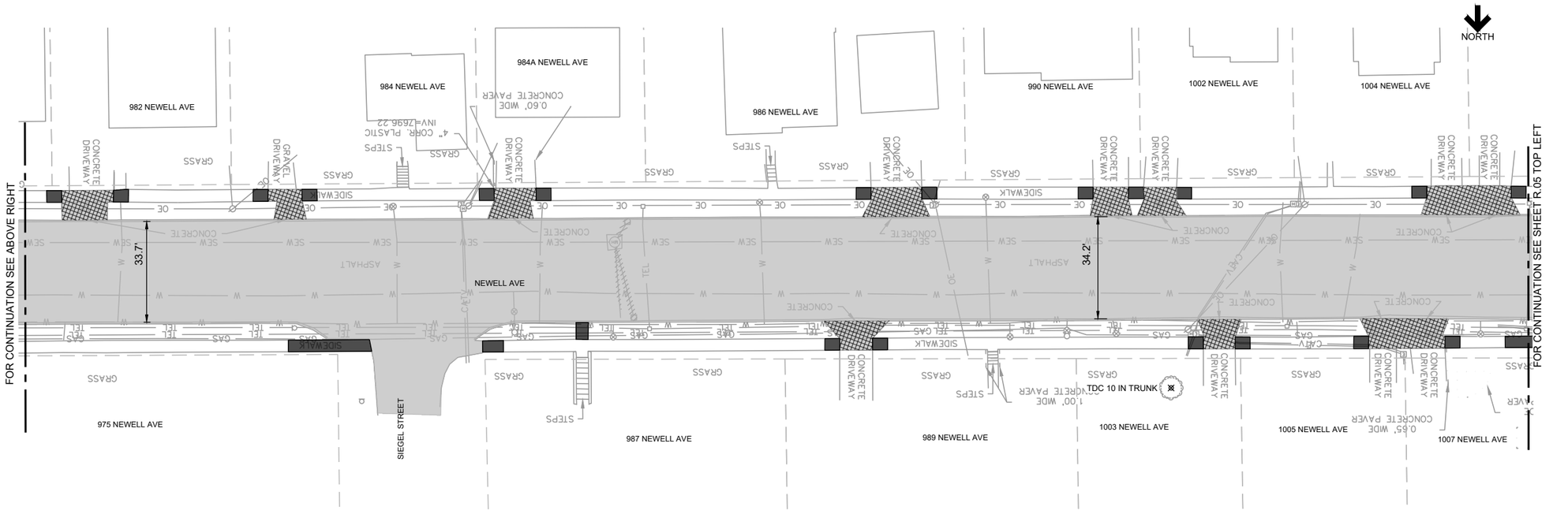
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R.03	0

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NEWELL AVENUE DEMOLITION PLAN



NEWELL AVENUE DEMOLITION PLAN

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. EXERCISE CAUTION DURING TREE REMOVAL TO PREVENT DAMAGE TO UTILITIES. CONTACT UTILITY COMPANIES PRIOR TO WORK IF UTILITY PROTECTION OR RELOCATION IS NEEDED.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

DEMOLITION PLAN
NEWELL AVENUE - SHEET 4

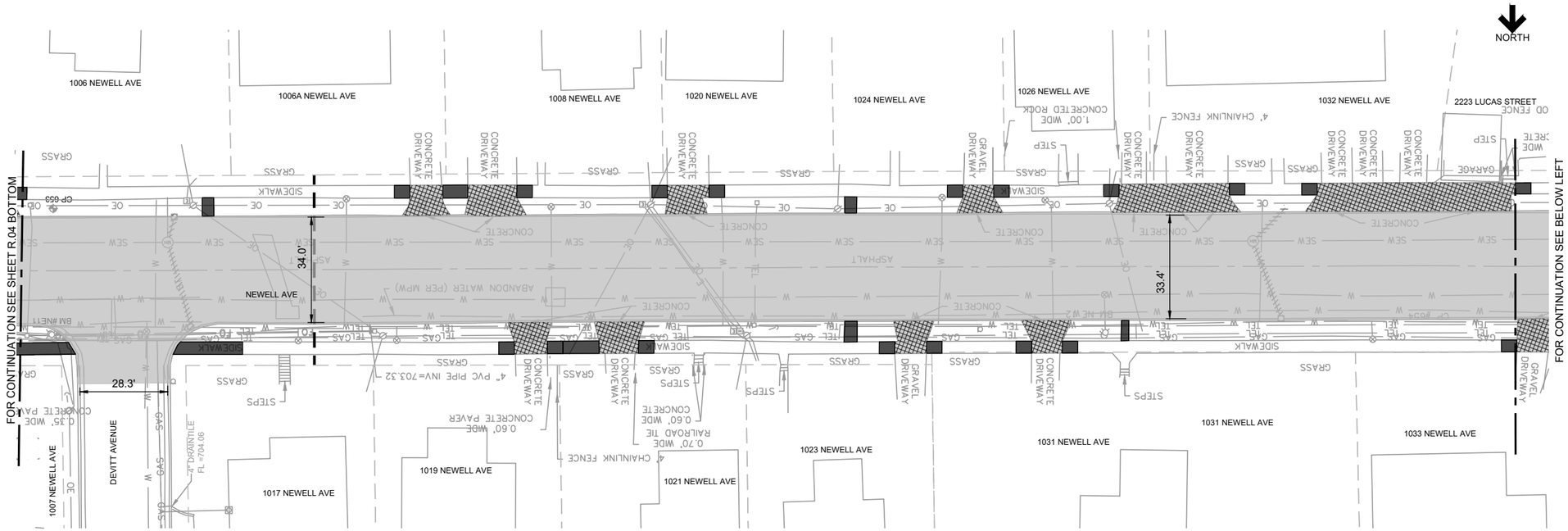
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DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

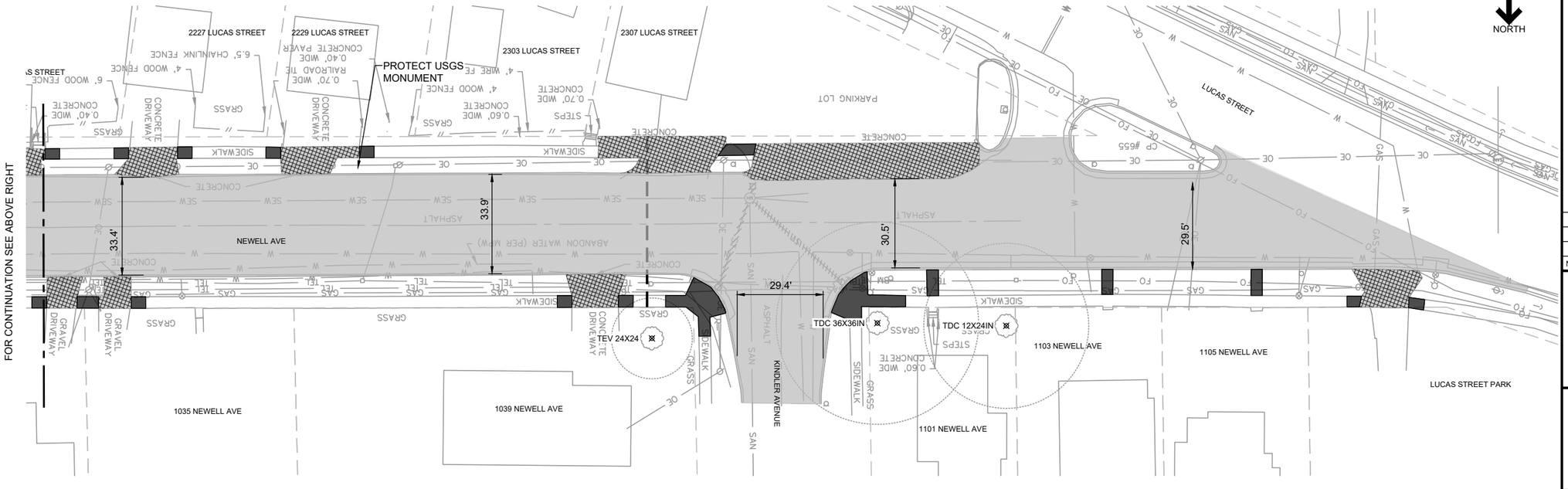
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NEWELL AVENUE DEMOLITION PLAN



NEWELL AVENUE DEMOLITION PLAN

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

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MUSCATINE, IOWA

DEMOLITION PLAN
NEWELL AVENUE - SHEET 5

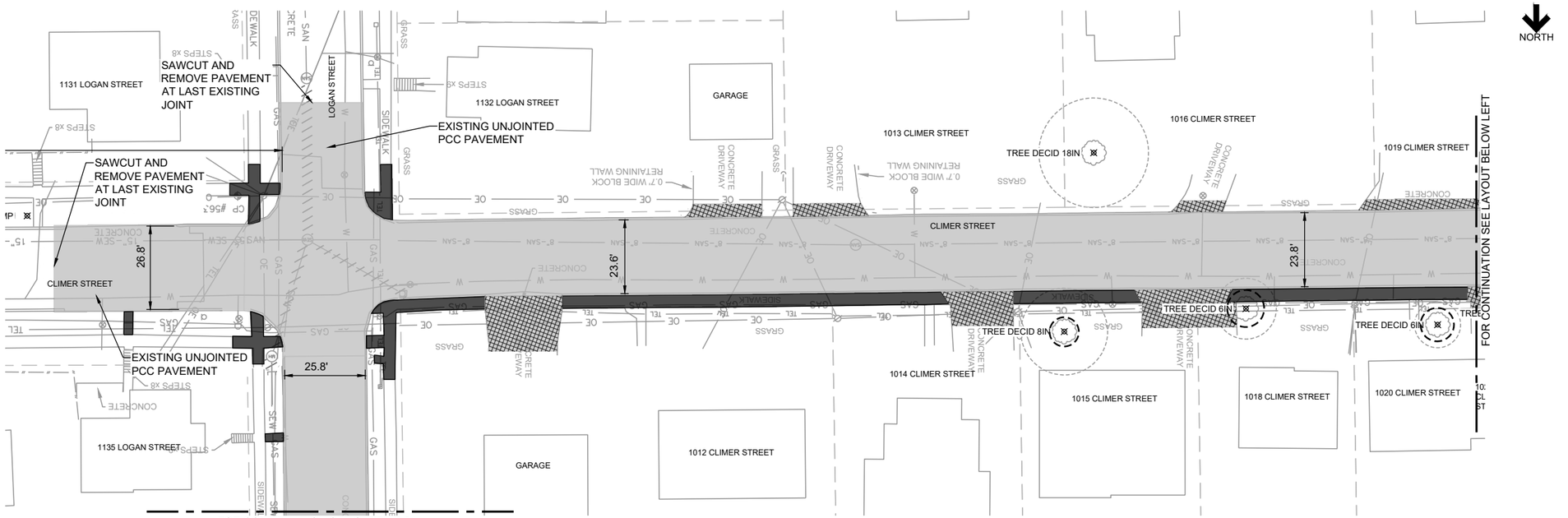
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DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

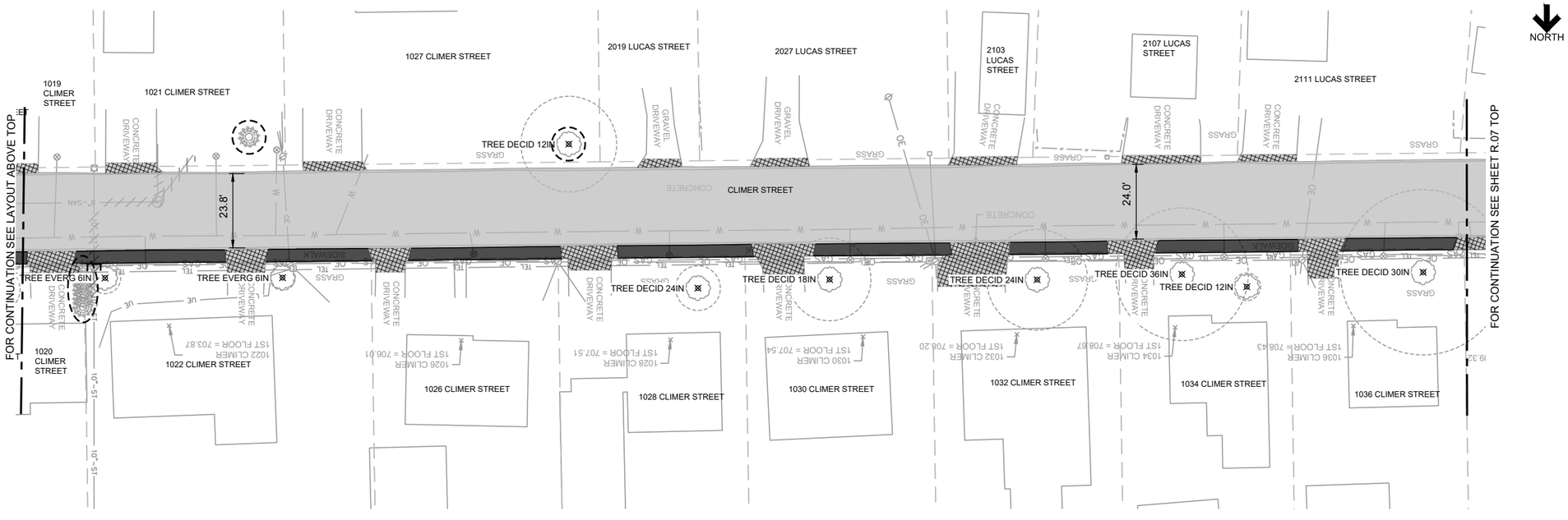
NO.	REV.
R.05	0

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CLIMER STREET DEMOLITION PLAN



CLIMER STREET DEMOLITION PLAN

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

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MUSCATINE, IOWA

DEMOLITION PLAN
CLIMER STREET - SHEET 1

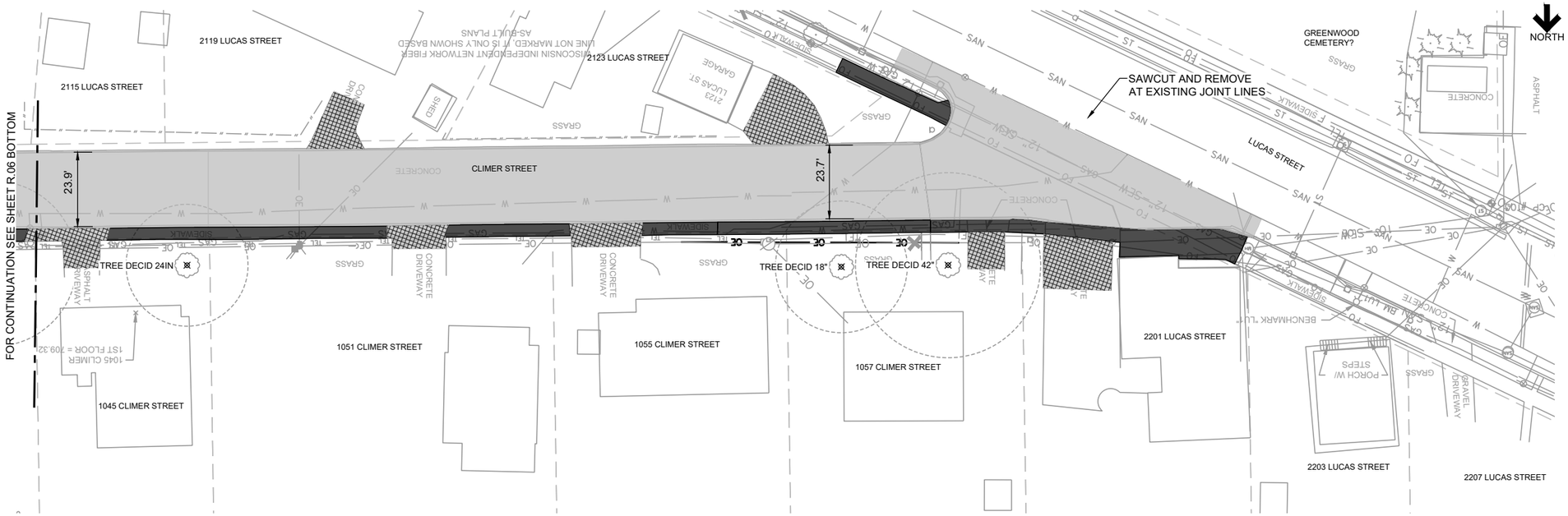
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DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

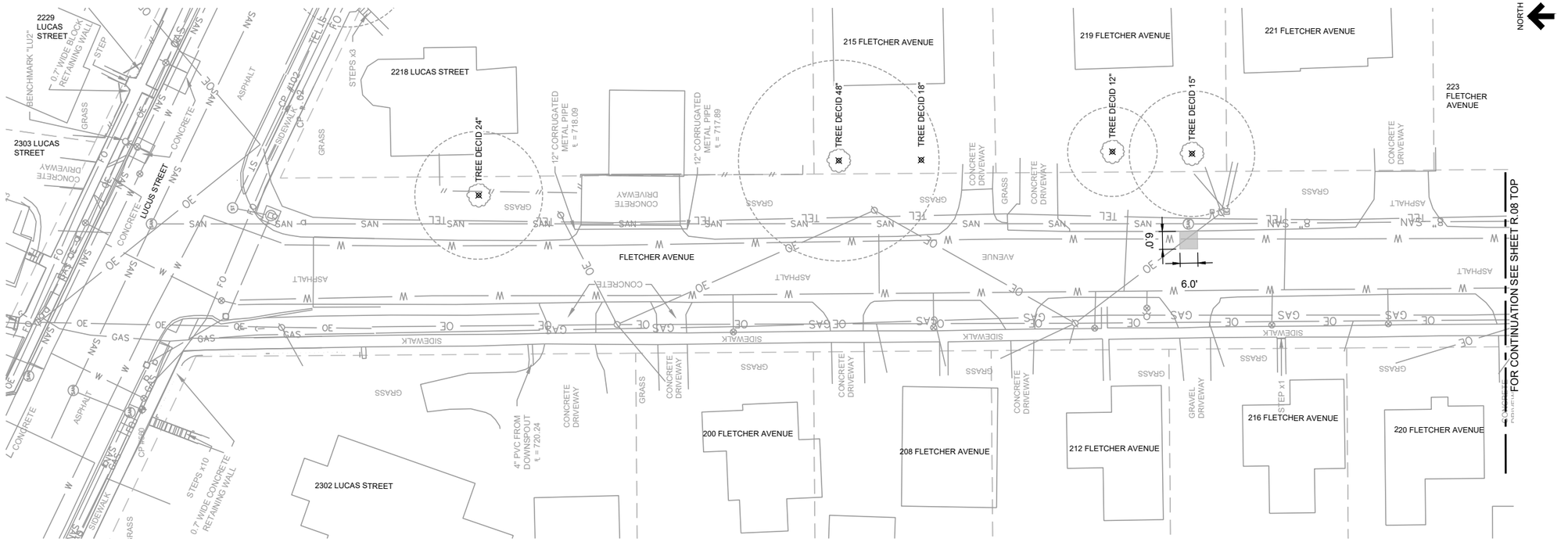
NO. 17660.60.40 | REV. R.06 | 0

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CLIMER STREET DEMOLITION PLAN



FLETCHER AVENUE DEMOLITION PLAN

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

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NO.	REVISIONS	DSGN.	CHKD	APVD	DATE

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MUSCATINE, IOWA

DEMOLITION PLAN
CLIMER STREET & FLETCHER AVENUE

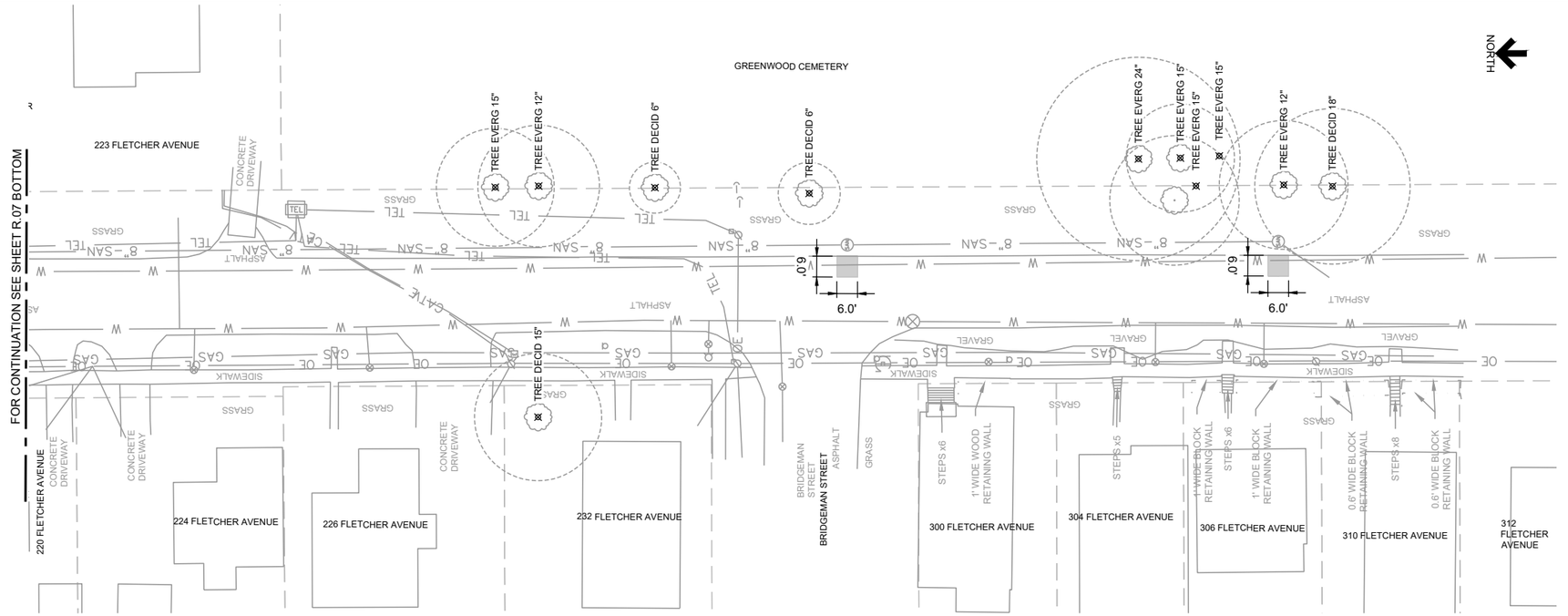
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DATE	MARCH 30, 2026

SCALE: 1" = 20'

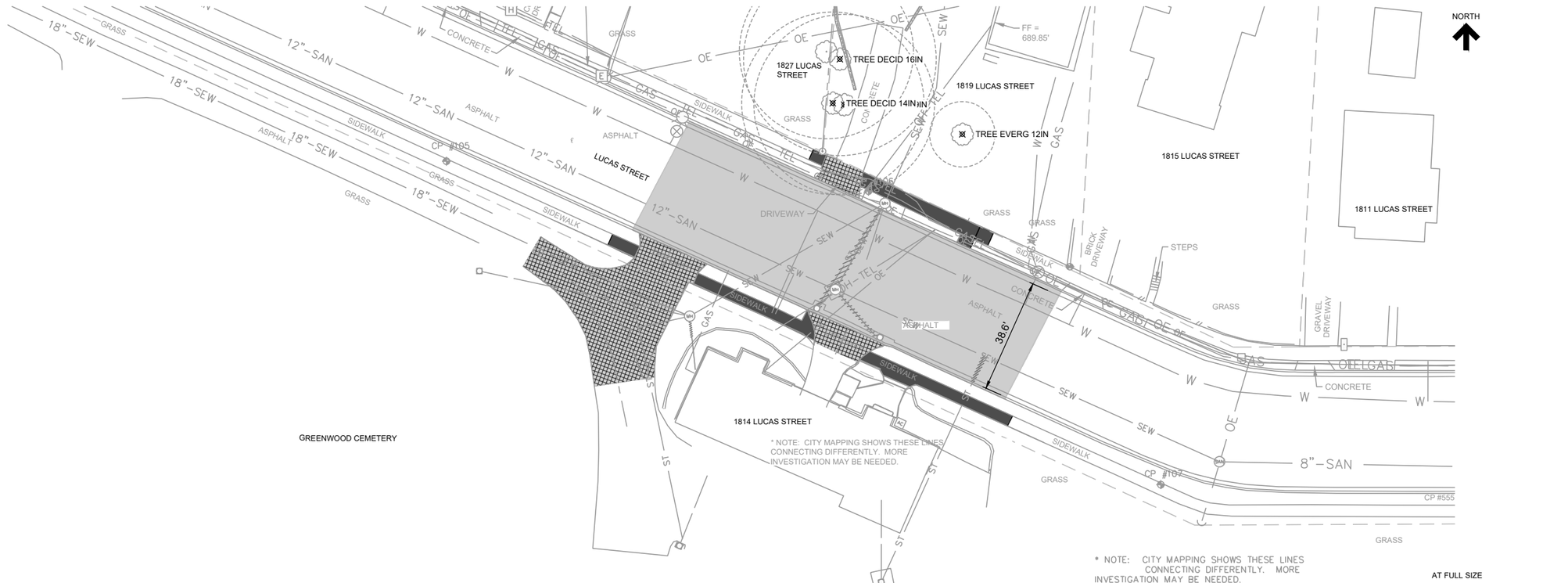
NO. 17660.60.40	REV.
R.07	0

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FLETCHER AVENUE DEMOLITION PLAN



GREENWOOD CHAPEL AREA DEMOLITION PLAN

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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MUSCATINE, IOWA

DEMOLITION PLAN - FLETCHER AVENUE & GREENWOOD CHAPEL

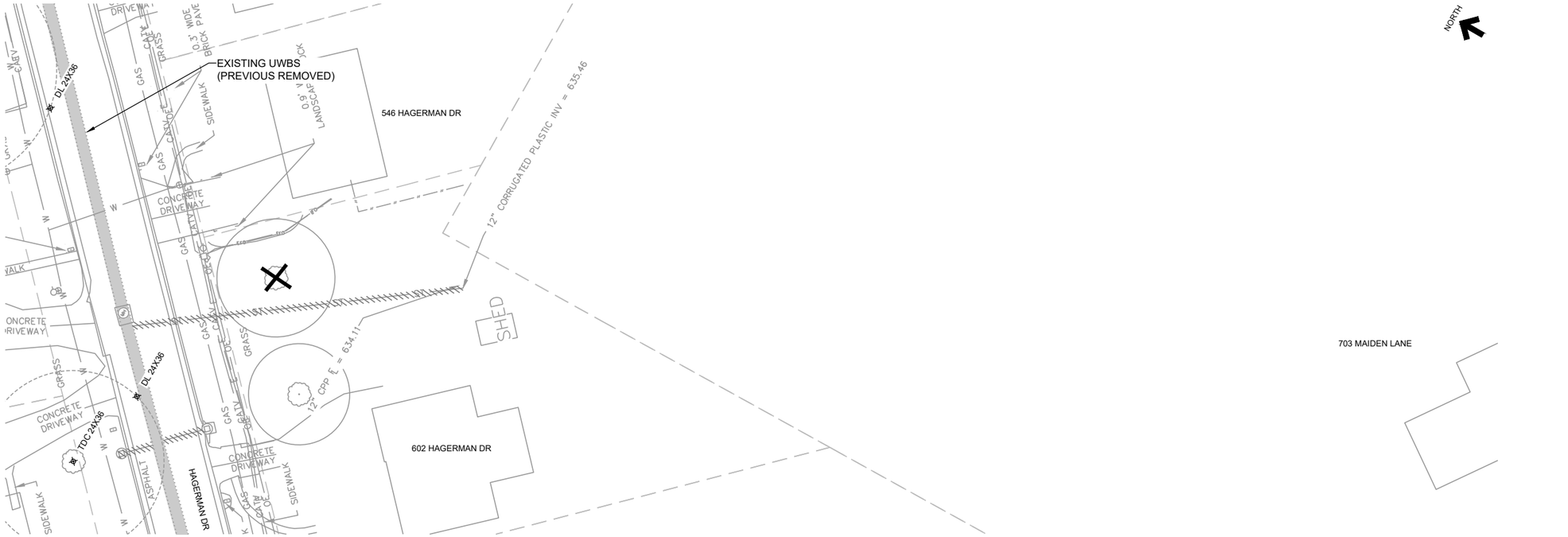
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DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

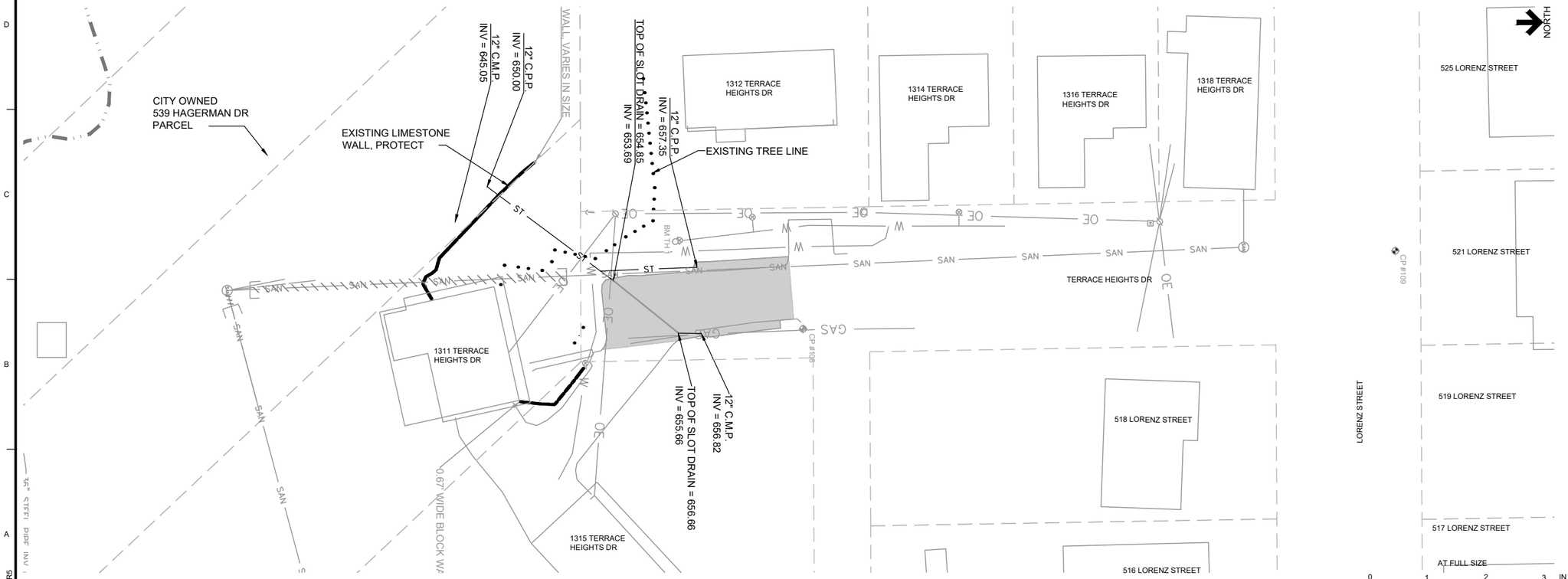
NO. 17660.60.40	REV.
R.08	0

CADD D3-R5

STANLEY CONSULTANTS



SANITARY SERVICE FOR 703 MAIDEN LANE DEMOLITION PLAN



TERRACE HEIGHTS DRIVE DEMOLITION PLAN

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

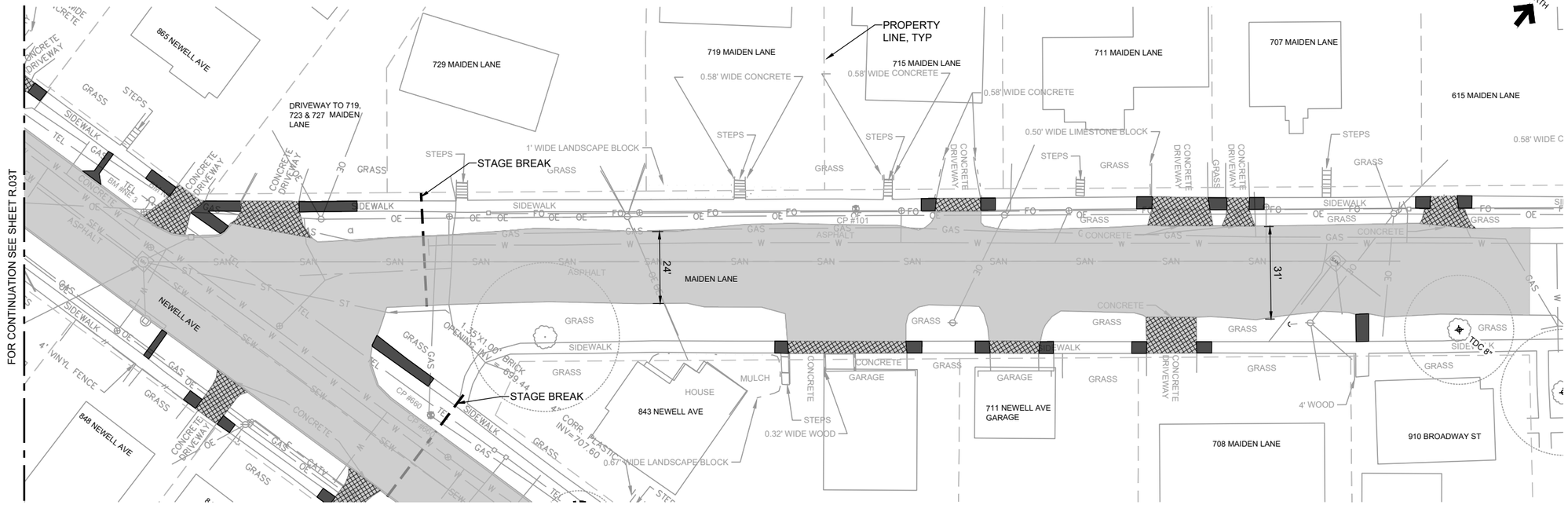
DEMOLITION PLAN - HAGERMAN MAIDEN & TERRACE HEIGHTS DRIVE

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

NO. 17660.60.40 | REV. R.09 | 0

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MAIDEN LANE DEMOLITION PLAN

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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DEMOLITION PLAN
MAIDEN LANE

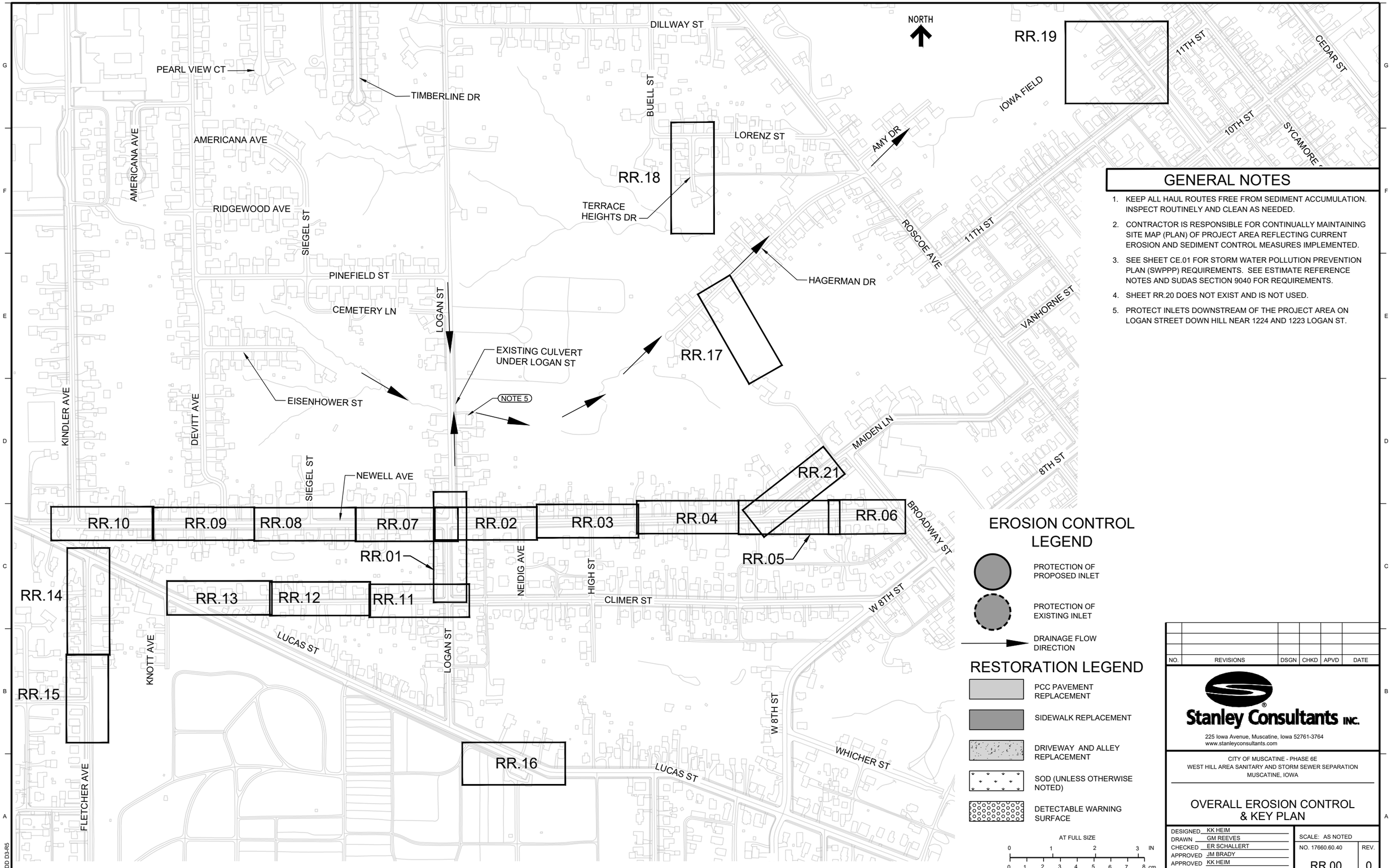
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 20'

NO. 17660.60.40	REV.
R.10	0

CADD D3-R5

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GENERAL NOTES

1. KEEP ALL HAUL ROUTES FREE FROM SEDIMENT ACCUMULATION. INSPECT ROUTINELY AND CLEAN AS NEEDED.
2. CONTRACTOR IS RESPONSIBLE FOR CONTINUALLY MAINTAINING SITE MAP (PLAN) OF PROJECT AREA REFLECTING CURRENT EROSION AND SEDIMENT CONTROL MEASURES IMPLEMENTED.
3. SEE SHEET CE.01 FOR STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS. SEE ESTIMATE REFERENCE NOTES AND SUDAS SECTION 9040 FOR REQUIREMENTS.
4. SHEET RR.20 DOES NOT EXIST AND IS NOT USED.
5. PROTECT INLETS DOWNSTREAM OF THE PROJECT AREA ON LOGAN STREET DOWN HILL NEAR 1224 AND 1223 LOGAN ST.

EROSION CONTROL LEGEND

- PROTECTION OF PROPOSED INLET
- PROTECTION OF EXISTING INLET
- DRAINAGE FLOW DIRECTION

RESTORATION LEGEND

- PCC PAVEMENT REPLACEMENT
- SIDEWALK REPLACEMENT
- DRIVEWAY AND ALLEY REPLACEMENT
- SOD (UNLESS OTHERWISE NOTED)
- DETECTABLE WARNING SURFACE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

OVERALL EROSION CONTROL & KEY PLAN

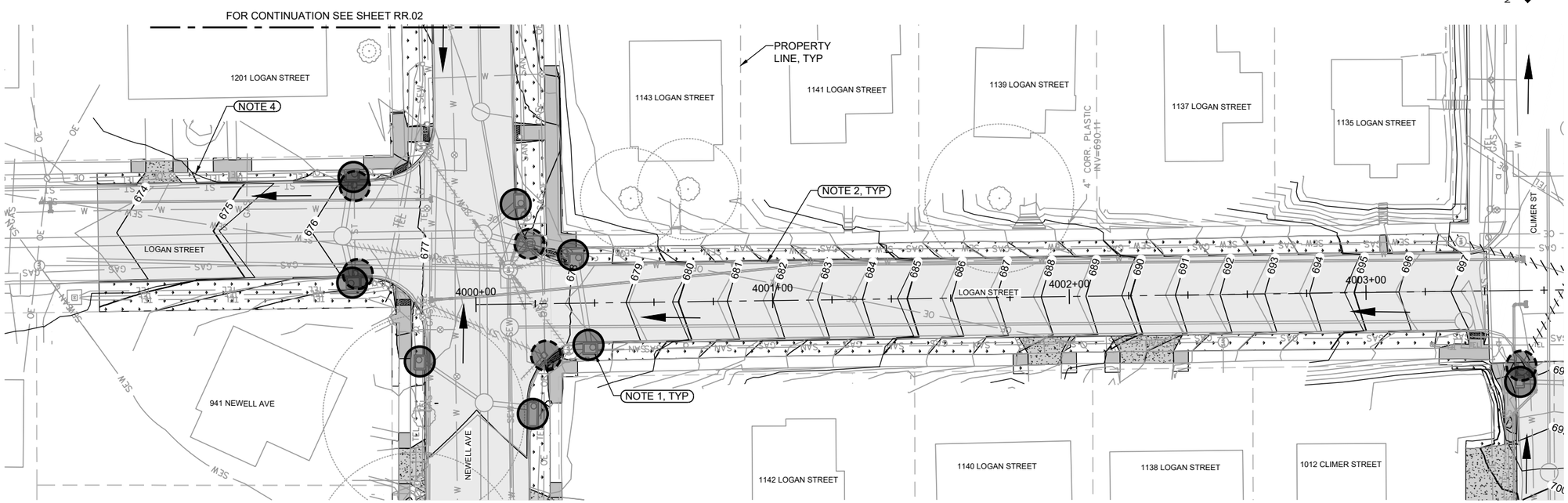
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

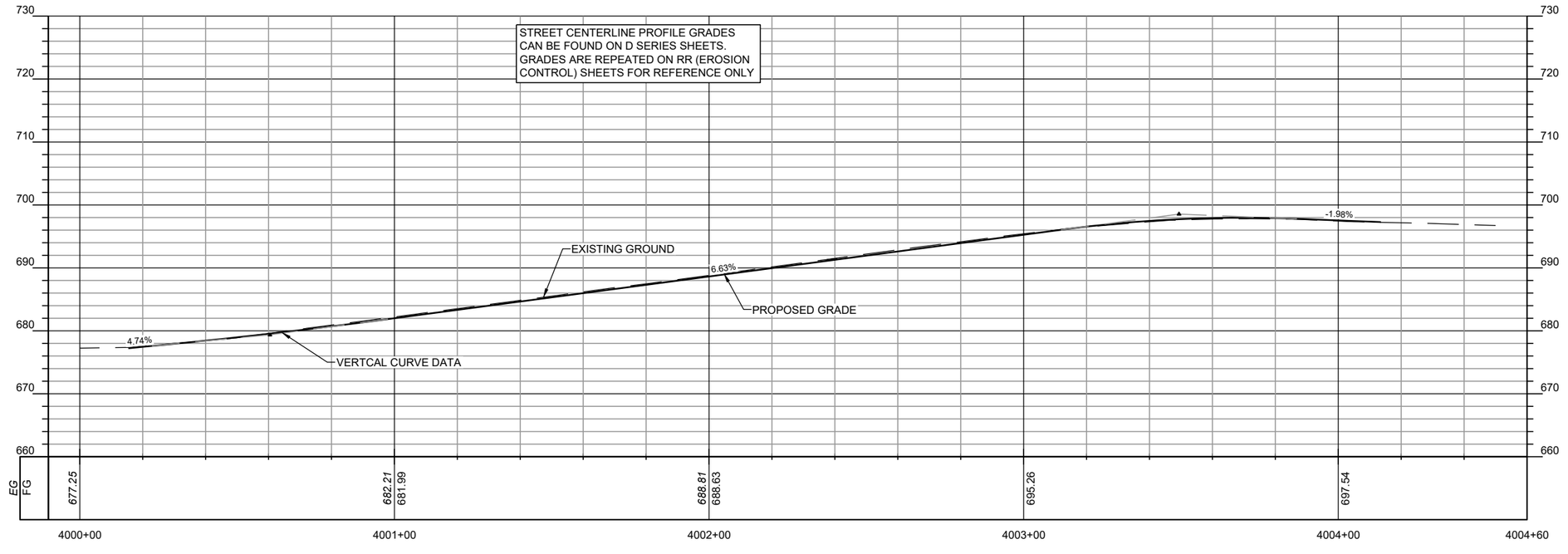
SCALE: AS NOTED

NO.	REV.
RR.00	0

I CADD D3-R5

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NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
2. PREVENT TOPSOIL FROM ENTERING STREET WITH INSTALLATION OF SILT FENCE, WATTLES, FILTER SOCKS OR OTHER EROSION PROTECTION METHOD BEHIND CURB, NOT SHOWN.
3. PROTECT INLETS DOWNSTREAM OF THE PROJECT AREA ON LOGAN STREET DOWN THE HILL NEAR 1224 AND 1223 LOGAN. SEE RR.00 FOR LOCATION.
4. PREVENT TRACKING MUD ONTO NEW OR EXISTING PAVEMENT. INSTALL STABILIZED CONSTRUCTION EXIT OR EXTRA TEMPORARY AGGREGATE SURFACING AT PROJECT TRANSITIONS TO PAVEMENT. ADJUST AS PAVEMENT IS PLACED. SEE SUDAS FIGURE 9040.120 FOR STABILIZED CONSTRUCTION EXIT.

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 1 LOGAN STREET

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

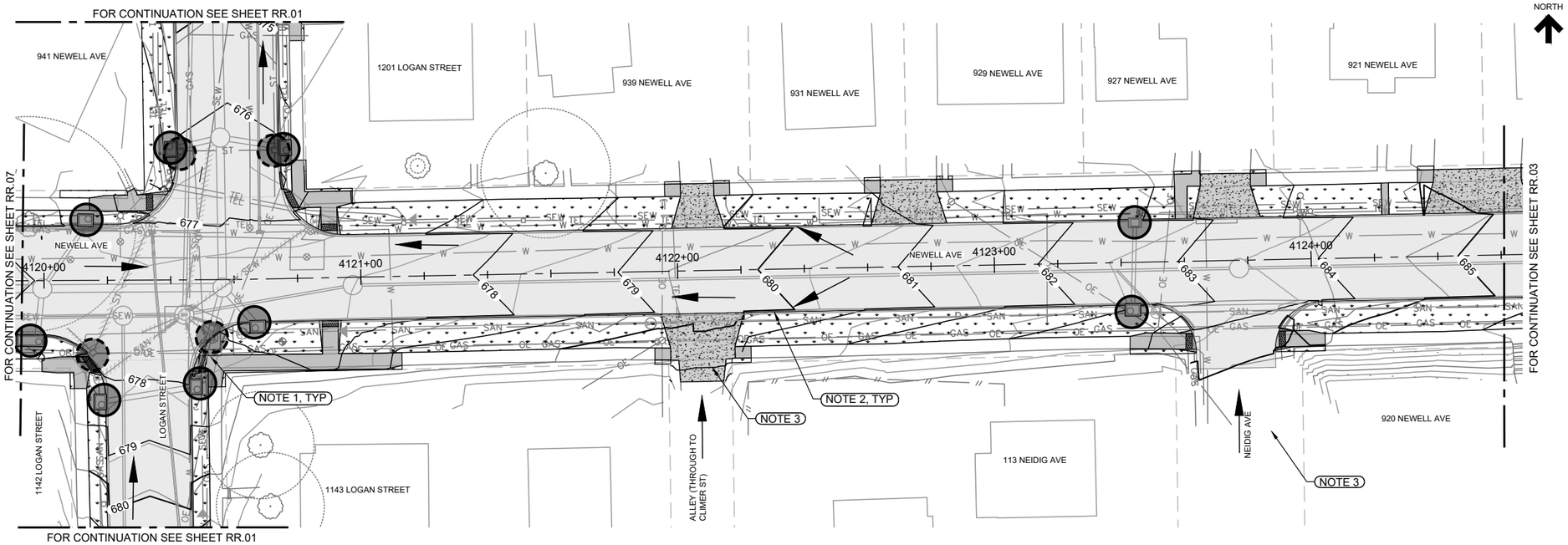
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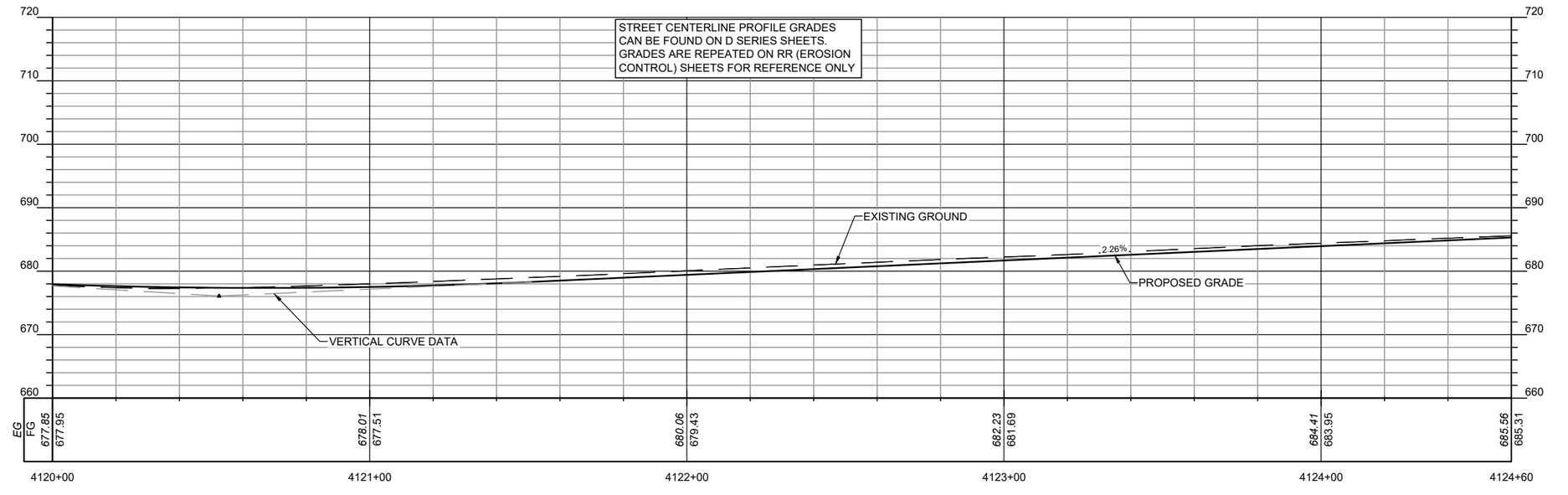
NO. 17660.60.40 | REV.

RR.01 | 0

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NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
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NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 2 NEWELL AVENUE

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

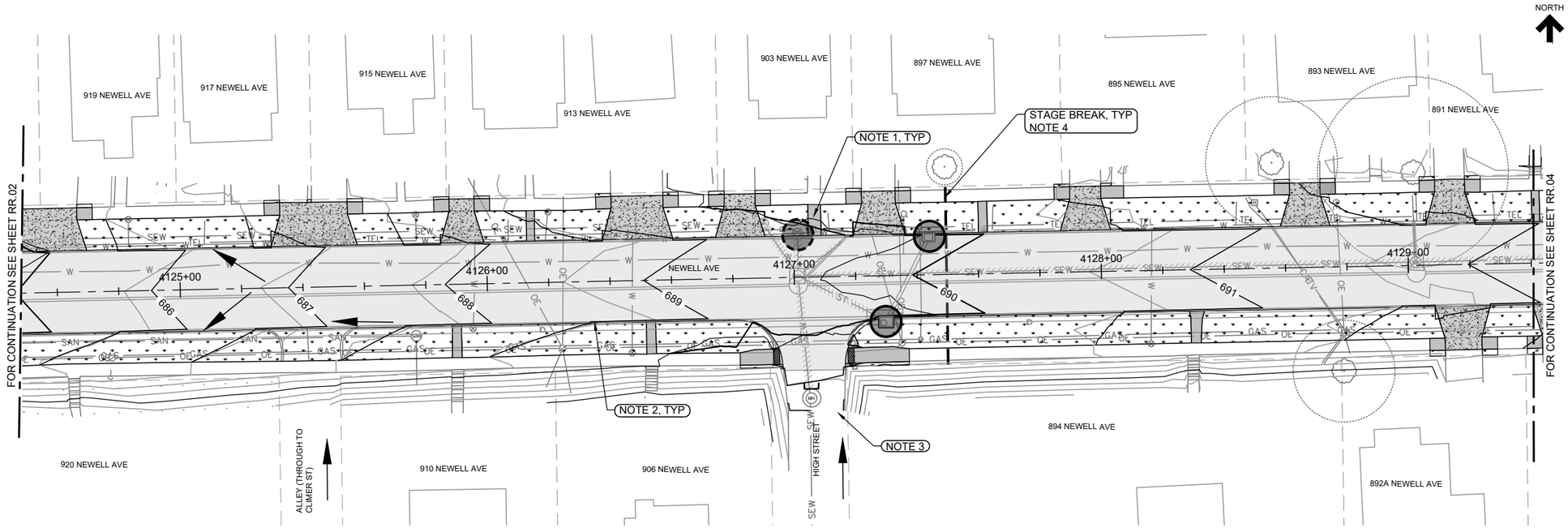
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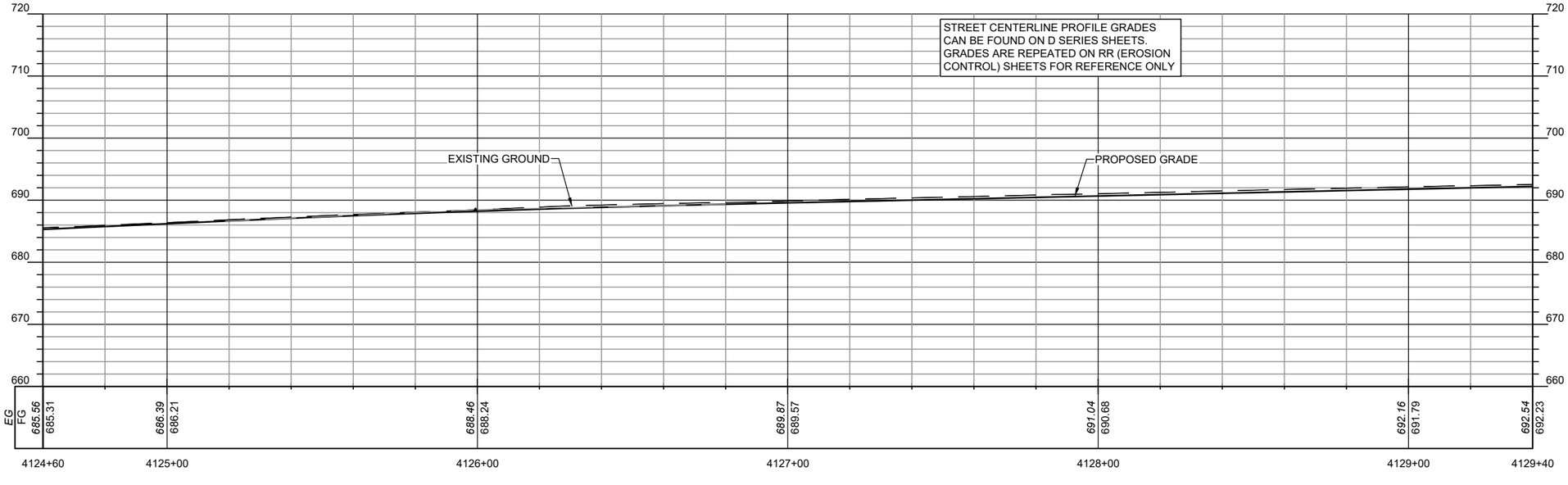
NO. 17660.60.40	REV.
RR.02	0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5

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NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
2. PREVENT TOPSOIL FROM ENTERING STREET WITH INSTALLATION OF SILT FENCE, WATTLES, FILTER SOCKS OR OTHER EROSION PROTECTION METHOD BEHIND CURB, NOT SHOWN.
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4. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN EROSION CONTROL UNTIL RESTORATION OF DISTURBED AREA AND COMPLETION OF PROJECT.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 3 NEWELL AVENUE

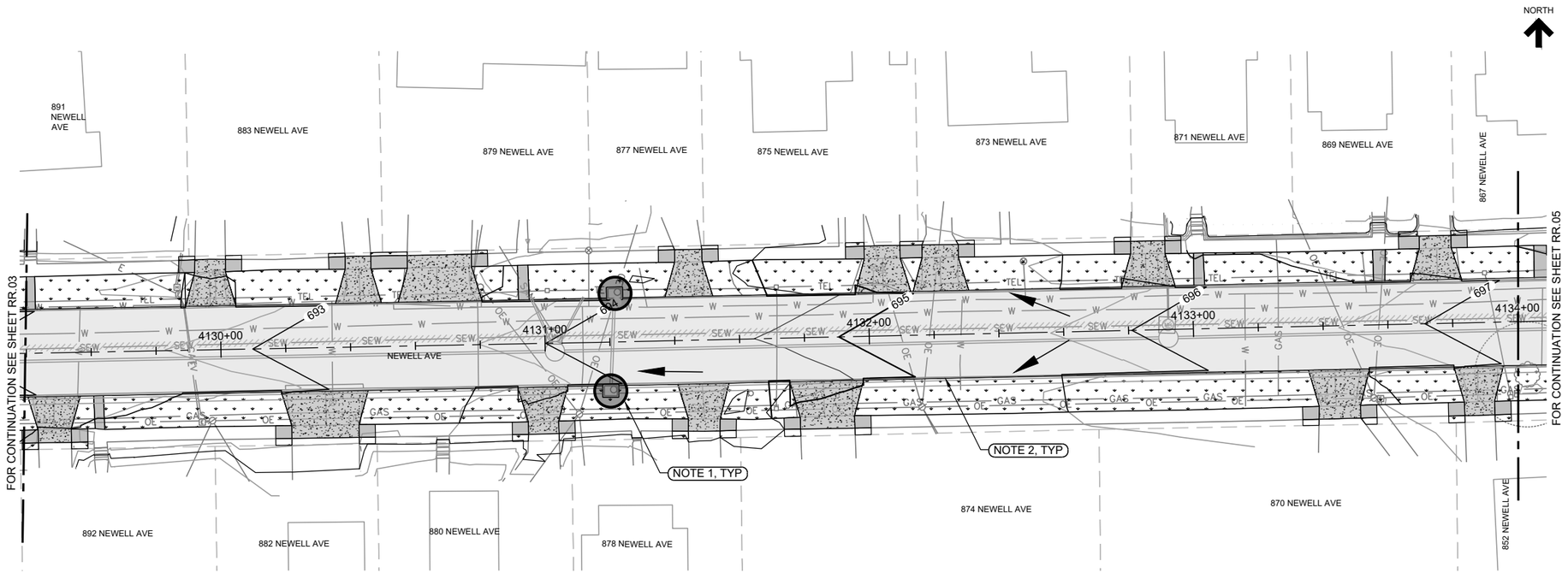
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

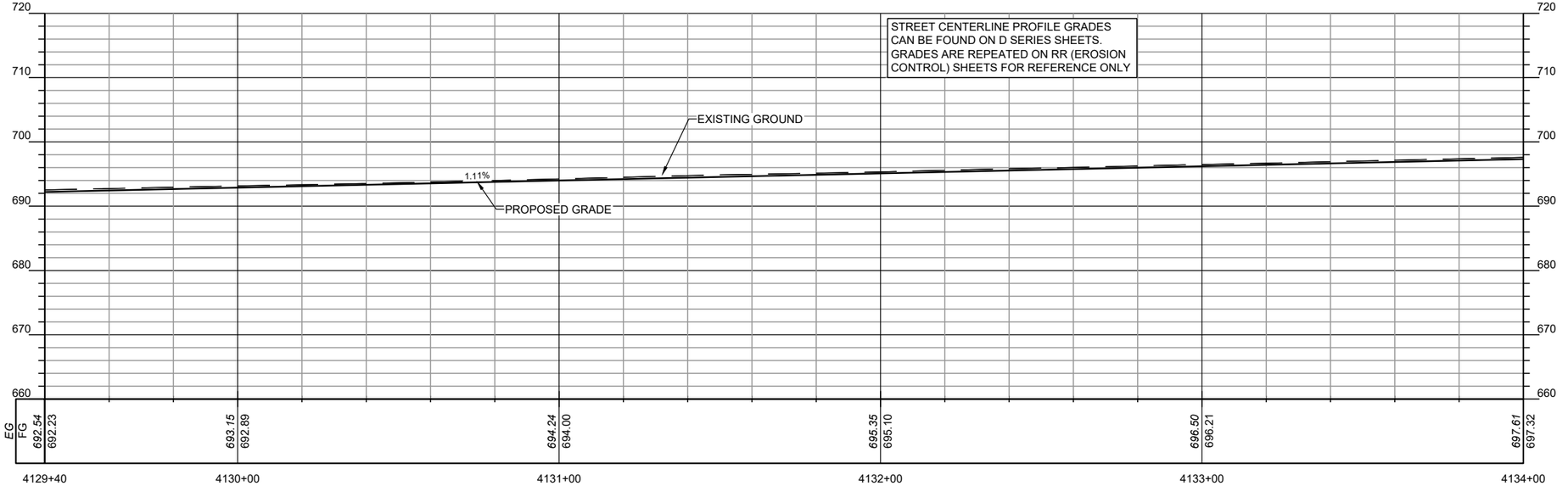
SCALE: 1" = 20'

NO. 17660.60.40	REV.
RR.03	0

CADD D3-R5

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
2. PREVENT TOPSOIL FROM ENTERING STREET WITH INSTALLATION OF SILT FENCE, WATTLES, FILTER SOCKS OR OTHER EROSION PROTECTION METHOD BEHIND CURB, NOT SHOWN.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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EROSION CONTROL PLAN - SHEET 4 NEWELL AVENUE

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 20'

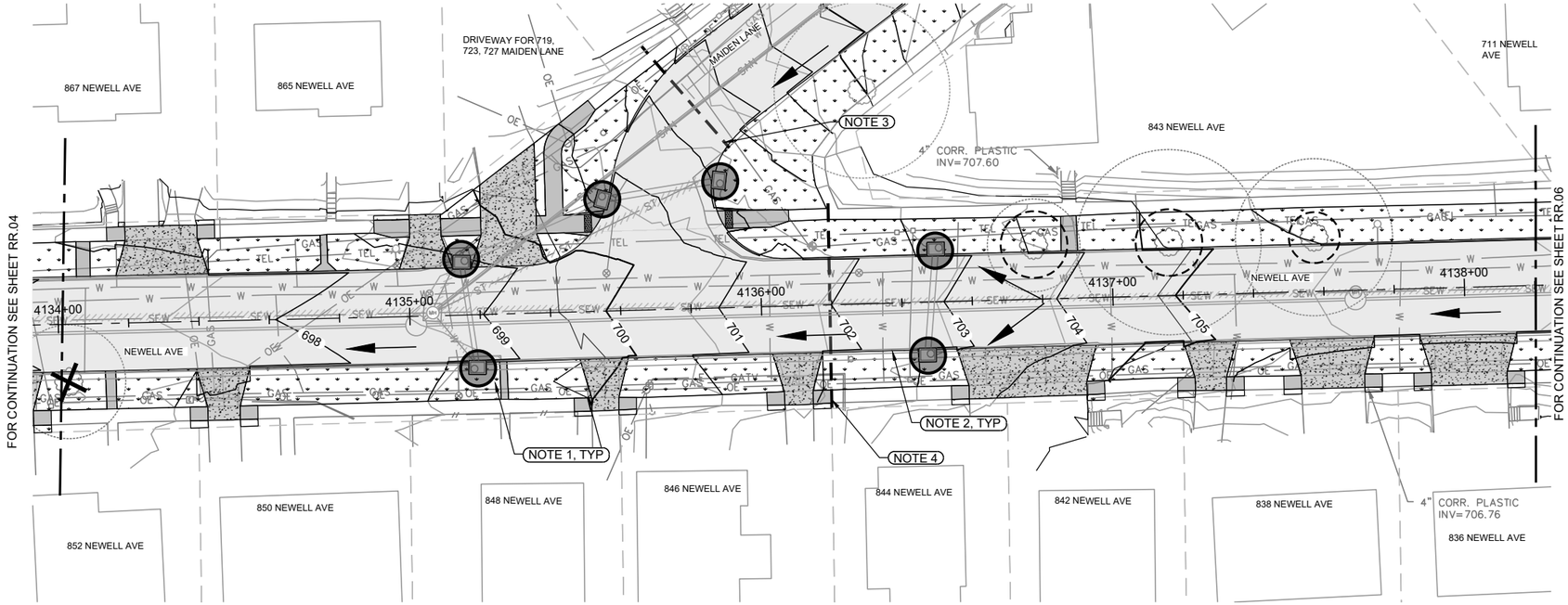
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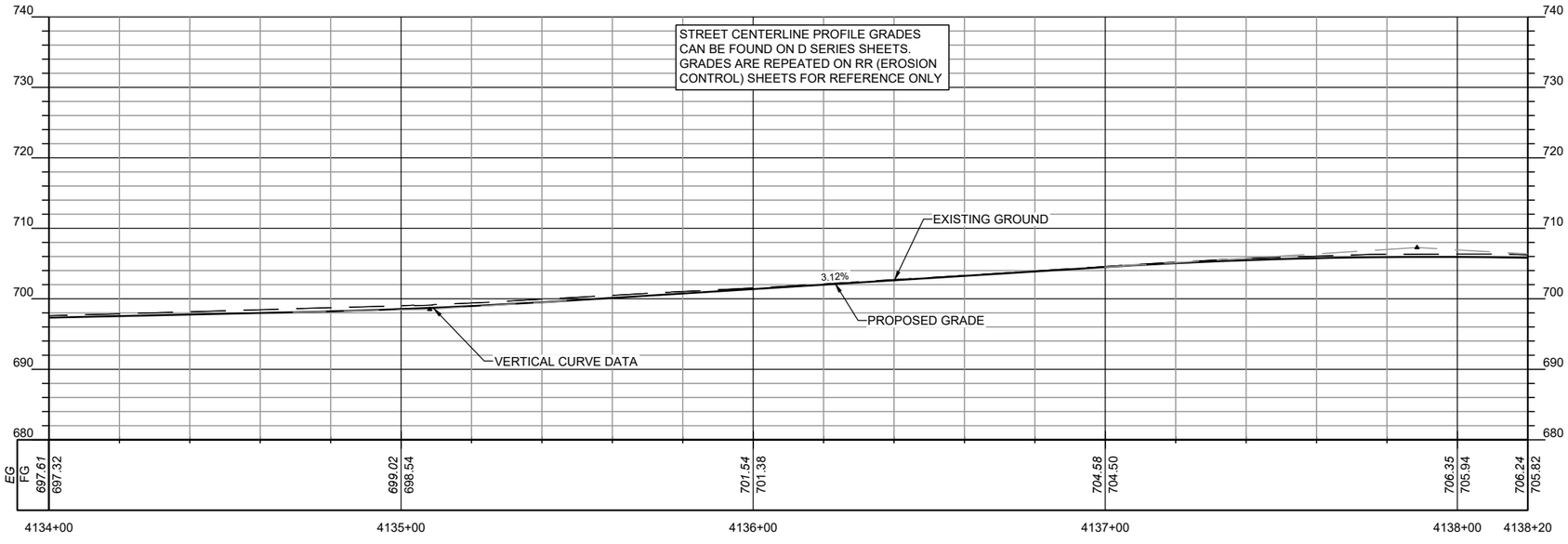
REV. 0

RR.04

CADD D3-R5

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NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
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3. PREVENT TRACKING MUD ONTO NEW OR EXISTING PAVEMENT. INSTALL STABILIZED CONSTRUCTION EXIT OR EXTRA TEMPORARY AGGREGATE SURFACING AT PAVEMENT TRANSITIONS. ADJUST AS PAVEMENT IS PLACED. SEE SUDAS FIGURE 9040.120 FOR STABILIZED CONSTRUCTION EXIT DETAIL.
4. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN EROSION CONTROL UNTIL RESTORATION OF DISTURBED AREAS AND COMPLETION OF PROJECT.

AT FULL SIZE

0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
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EROSION CONTROL PLAN - SHEET 5 NEWELL AVENUE

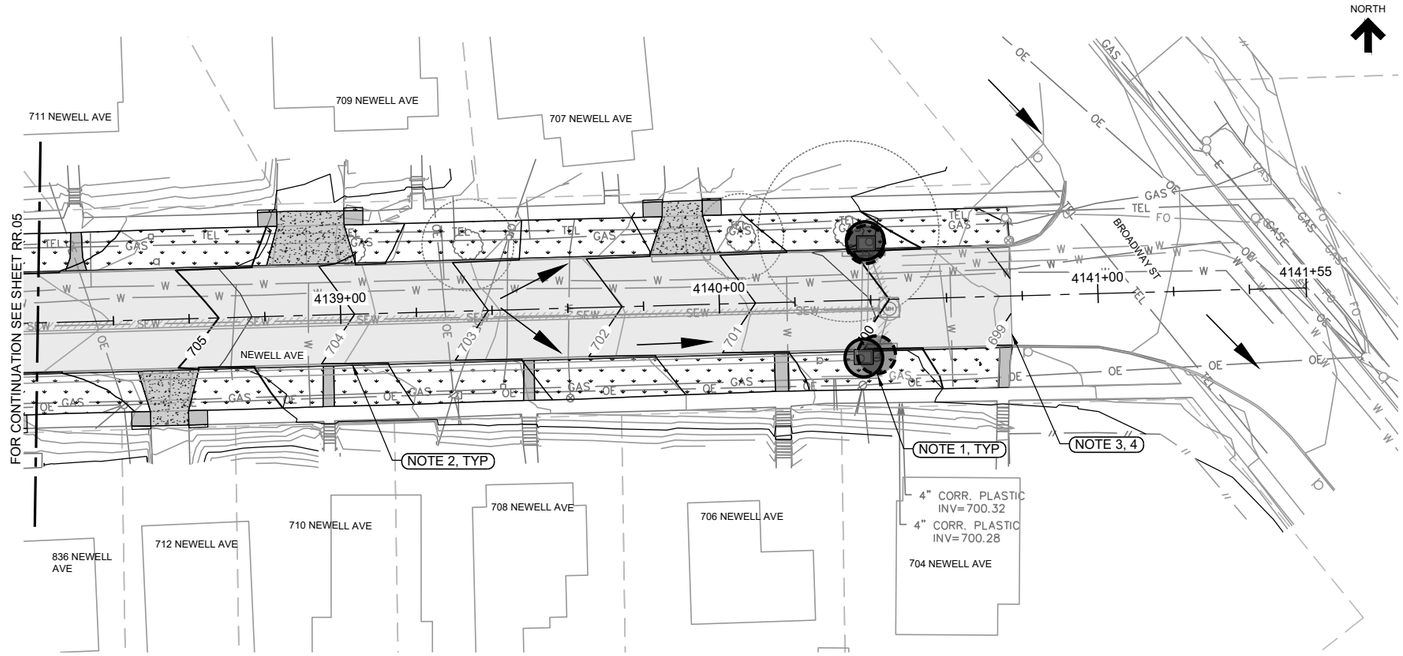
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

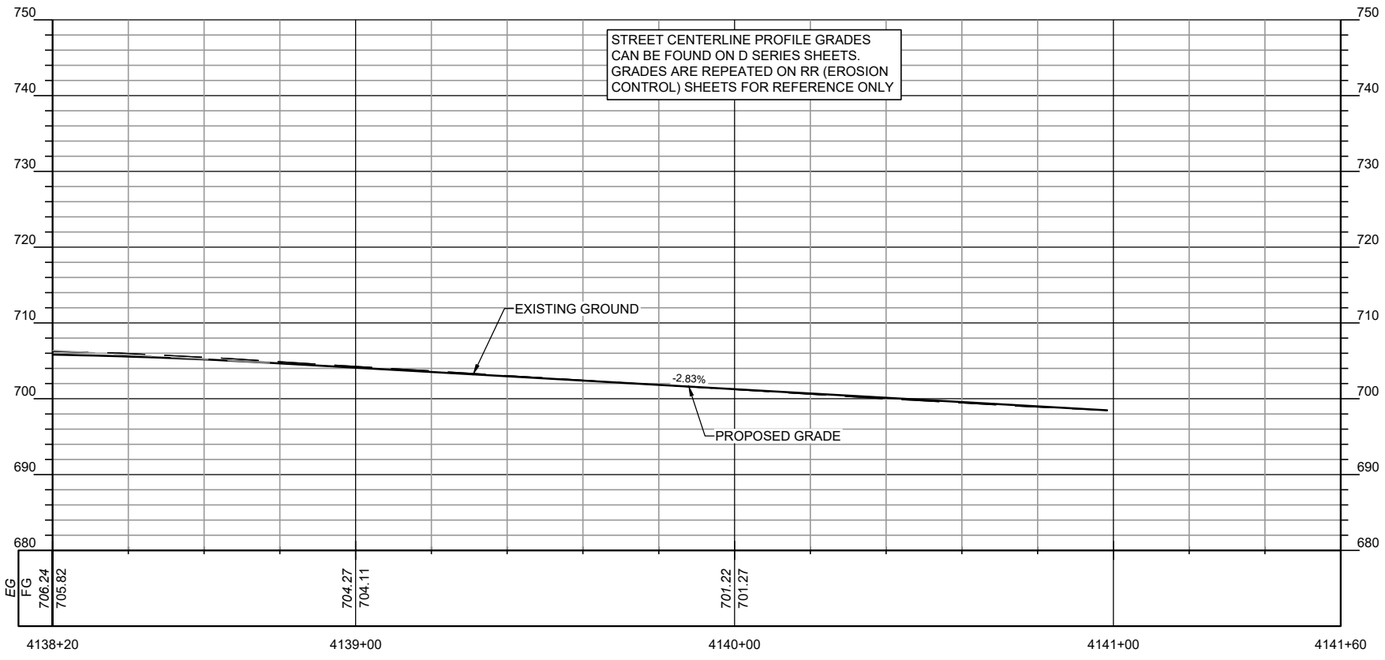
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NO. 17660.60.40	REV.
RR.05	0

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NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
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NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 6 NEWELL AVENUE

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

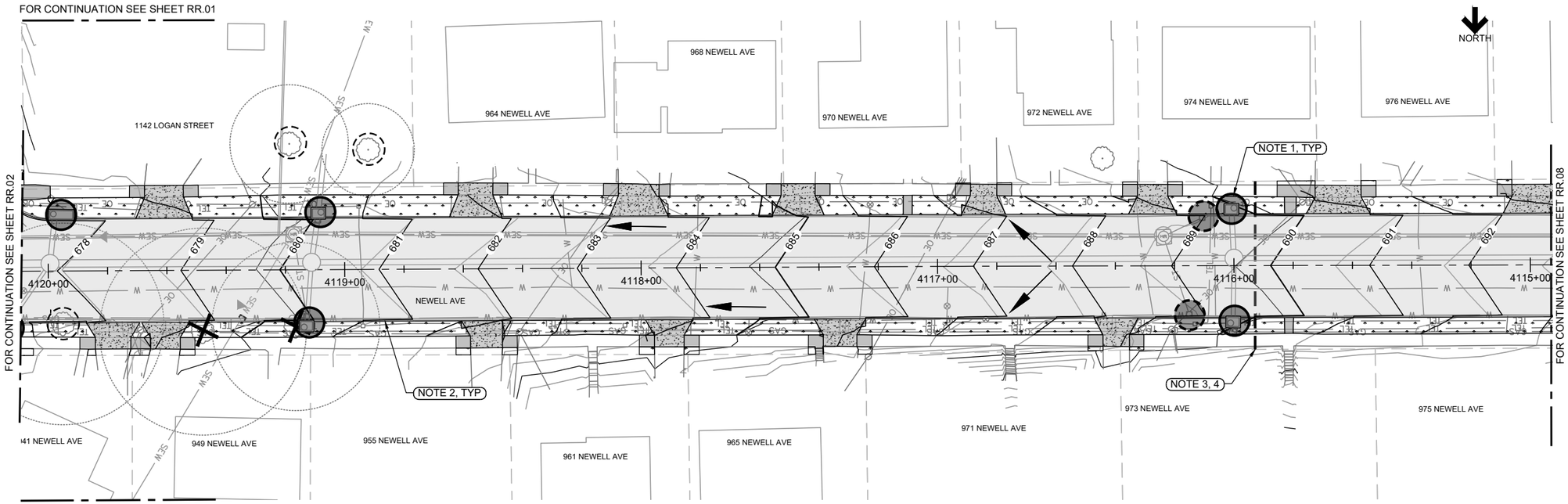
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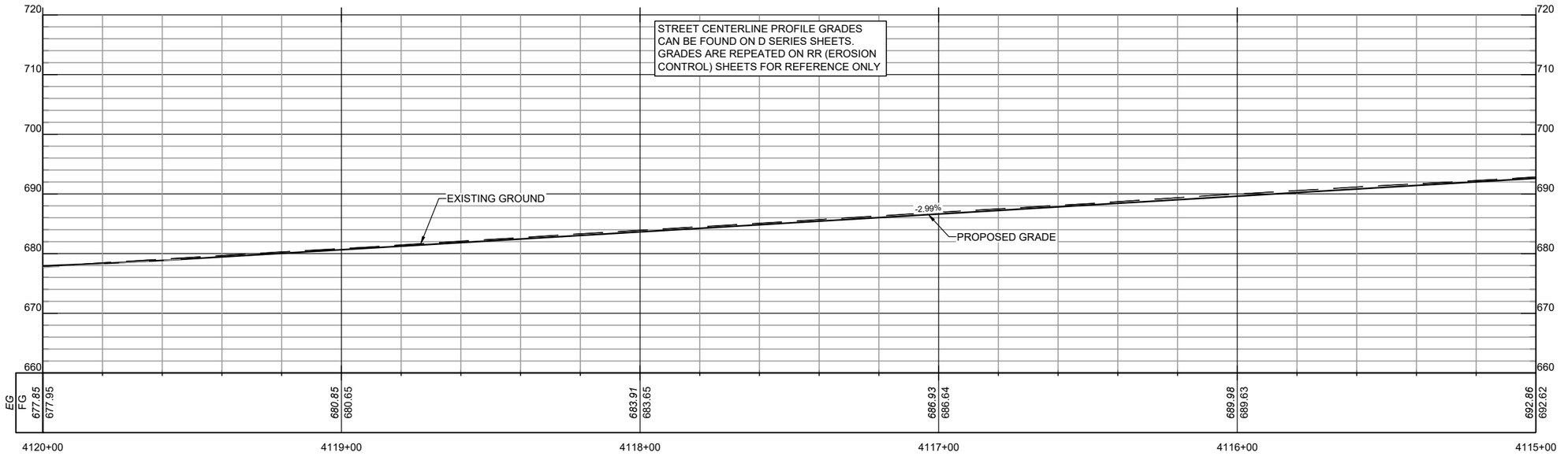
NO. 17660.60.40 | REV. RR.06 | 0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5

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NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
2. PREVENT TOPSOIL FROM ENTERING STREET WITH INSTALLATION OF SILT FENCE, WATTLES, FILTER SOCKS OR OTHER EROSION PROTECTION METHOD BEHIND CURB, NOT SHOWN.
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4. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN EROSION CONTROL UNTIL RESTORATION OF DISTURBED AREAS AND COMPLETION OF PROJECT.

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 7 NEWELL AVENUE

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 20'

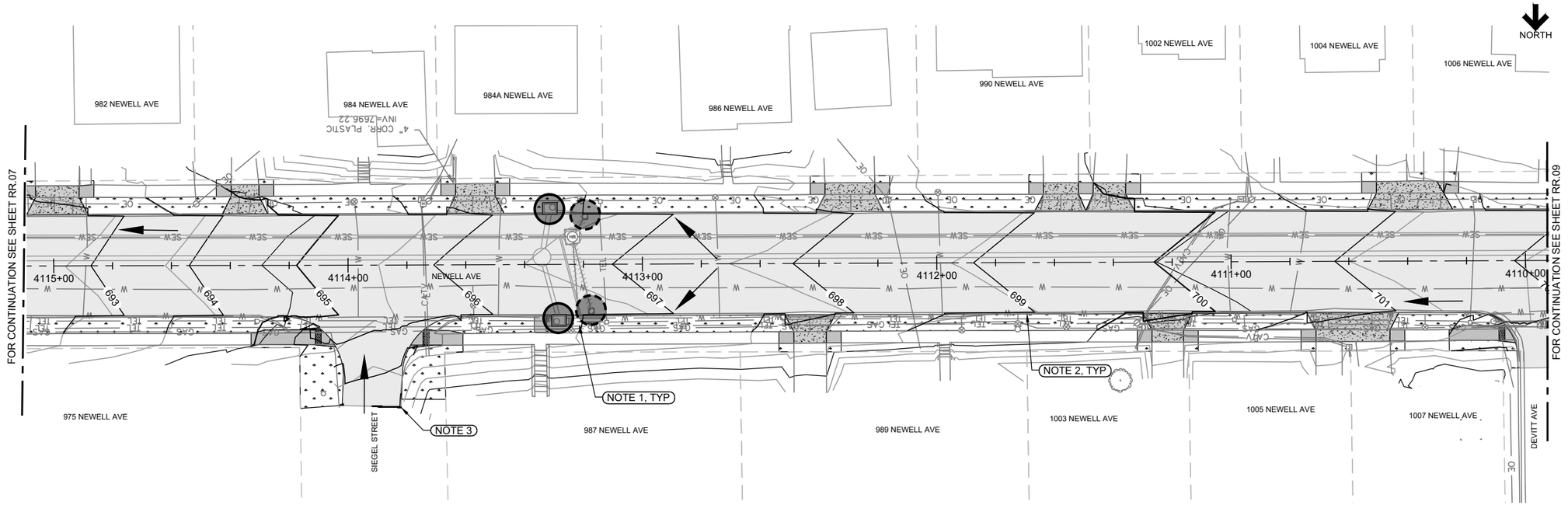
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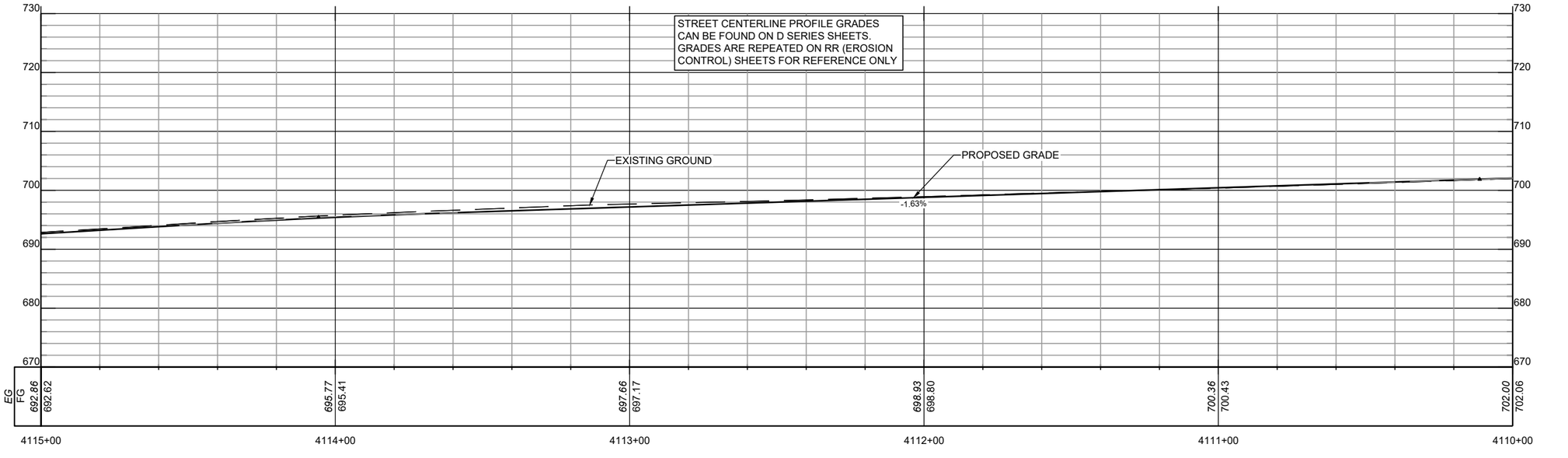
REV. 0

RR.07

CADD D3-R5

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
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NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 8 NEWELL AVENUE

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 20'

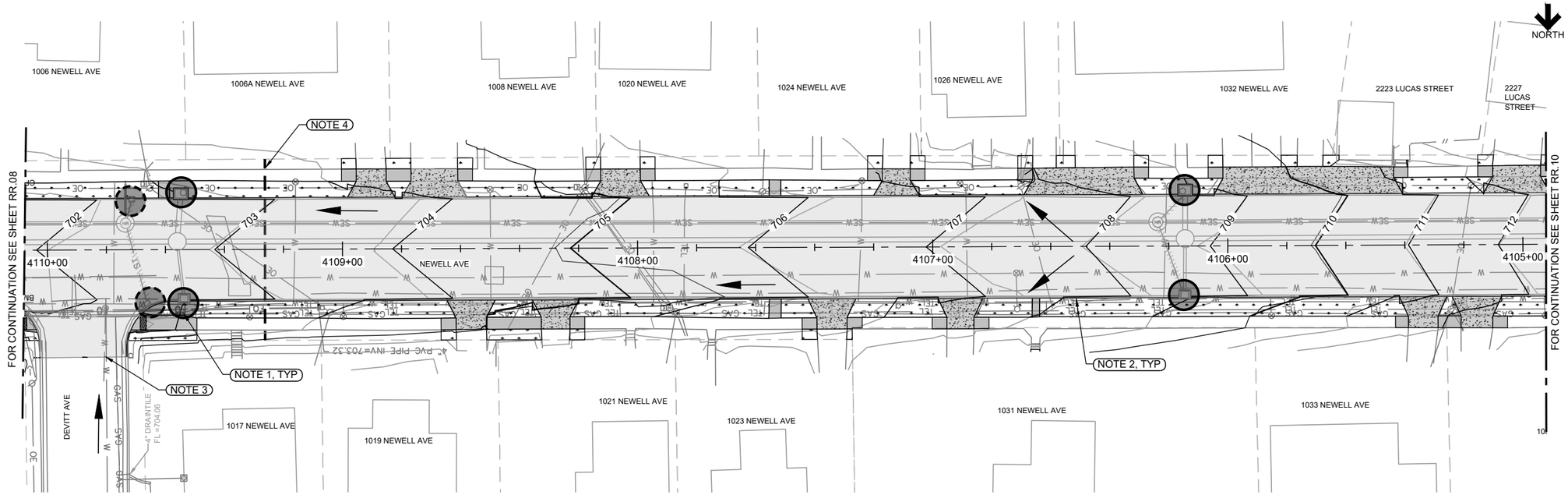
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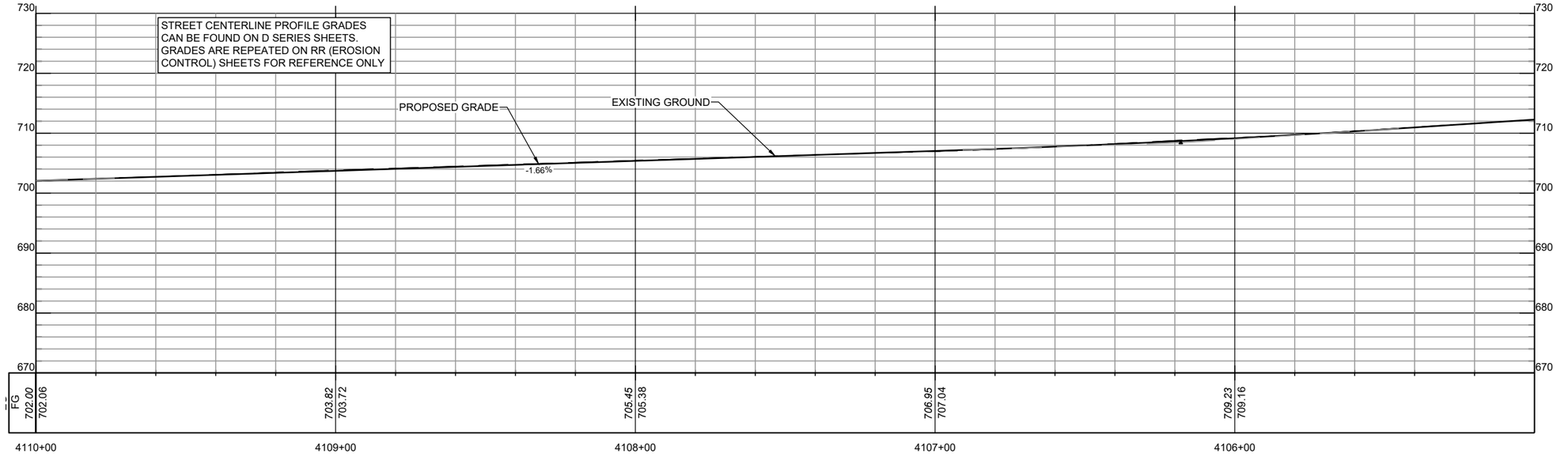
REV. 0

RR.08

CADD D3-R5

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NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
2. PREVENT TOPSOIL FROM ENTERING STREET WITH INSTALLATION OF SILT FENCE, WATTLES, FILTER SOCKS OR OTHER EROSION PROTECTION METHOD BEHIND CURB, NOT SHOWN.
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4. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN EROSION CONTROL UNTIL RESTORATION OF DISTURBED AREAS AND COMPLETION OF PROJECT.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 9 NEWELL AVENUE

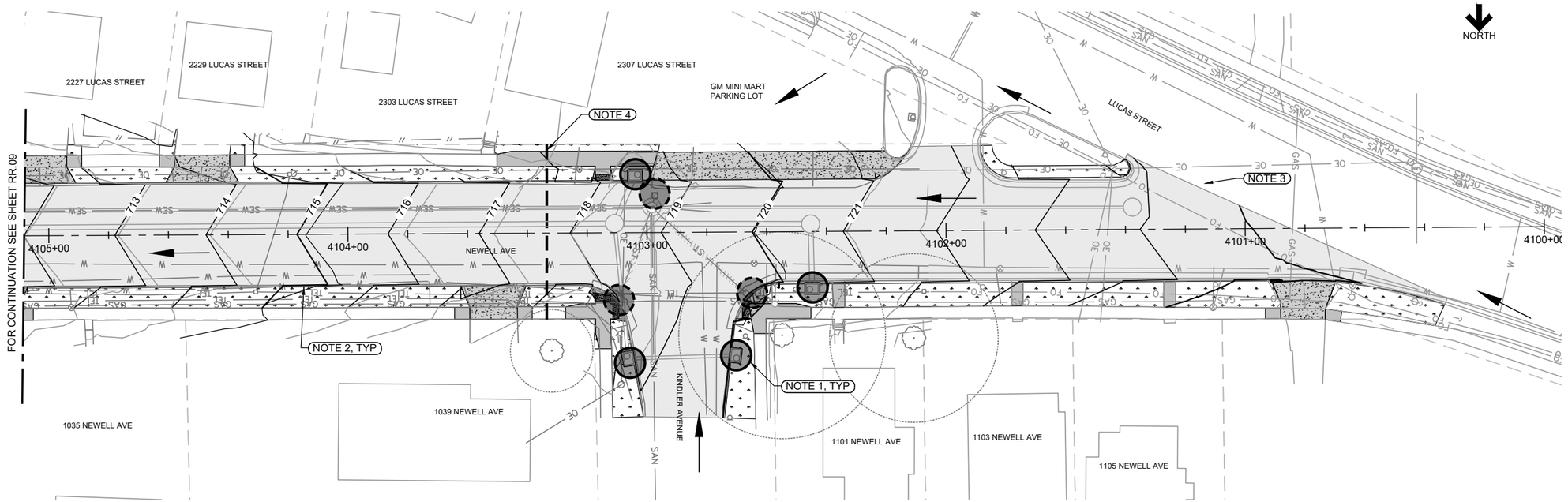
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

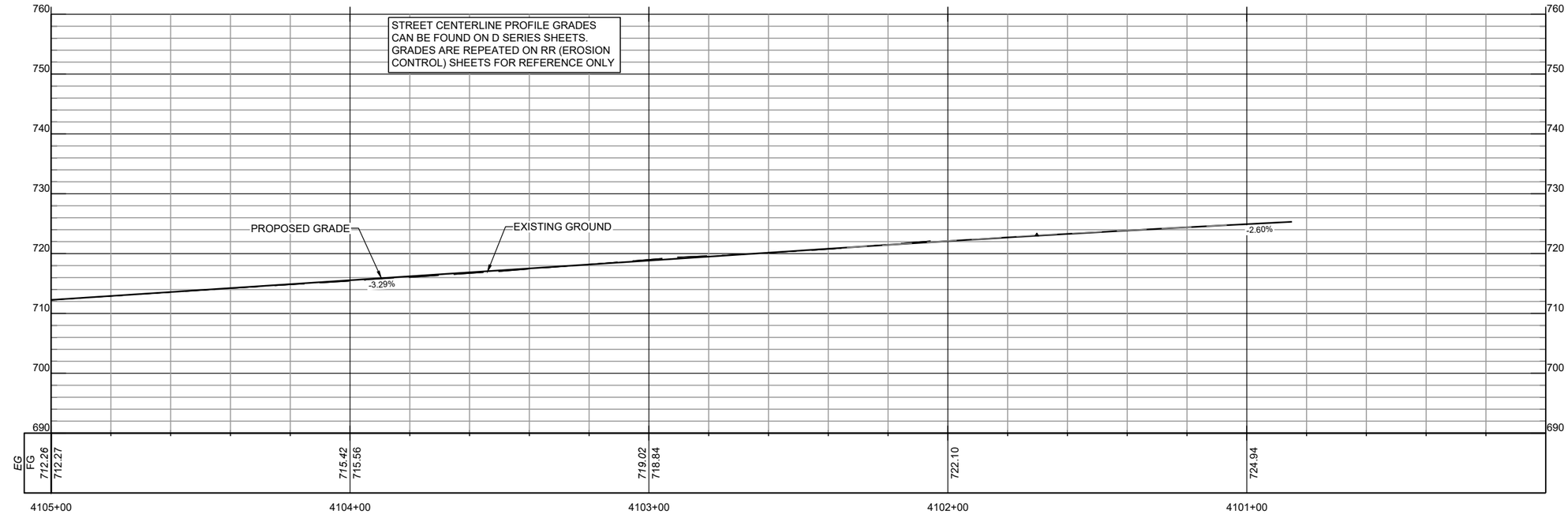
SCALE: 1" = 20'

NO. 17660.60.40 | REV. RR.09 | 0

AT FULL SIZE

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NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
2. PREVENT TOPSOIL FROM ENTERING STREET WITH INSTALLATION OF SILT FENCE, WATTLES, FILTER SOCKS OR OTHER EROSION PROTECTION METHOD BEHIND CURB, NOT SHOWN.
3. PREVENT TRACKING MUD ONTO NEW OR EXISTING PAVEMENT. INSTALL STABILIZED CONSTRUCTION EXIT OR EXTRA TEMPORARY AGGREGATE SURFACING AT PAVEMENT TRANSITION. ADJUST AS PAVEMENT IS PLACED. SEE SUDAS FIGURE 9040.120 FOR STABILIZED CONSTRUCTION EXIT DETAIL.
4. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN EROSION CONTROL UNTIL RESTORATION OF DISTURBED AREAS AND COMPLETION OF PROJECT.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 10 NEWELL AVENUE

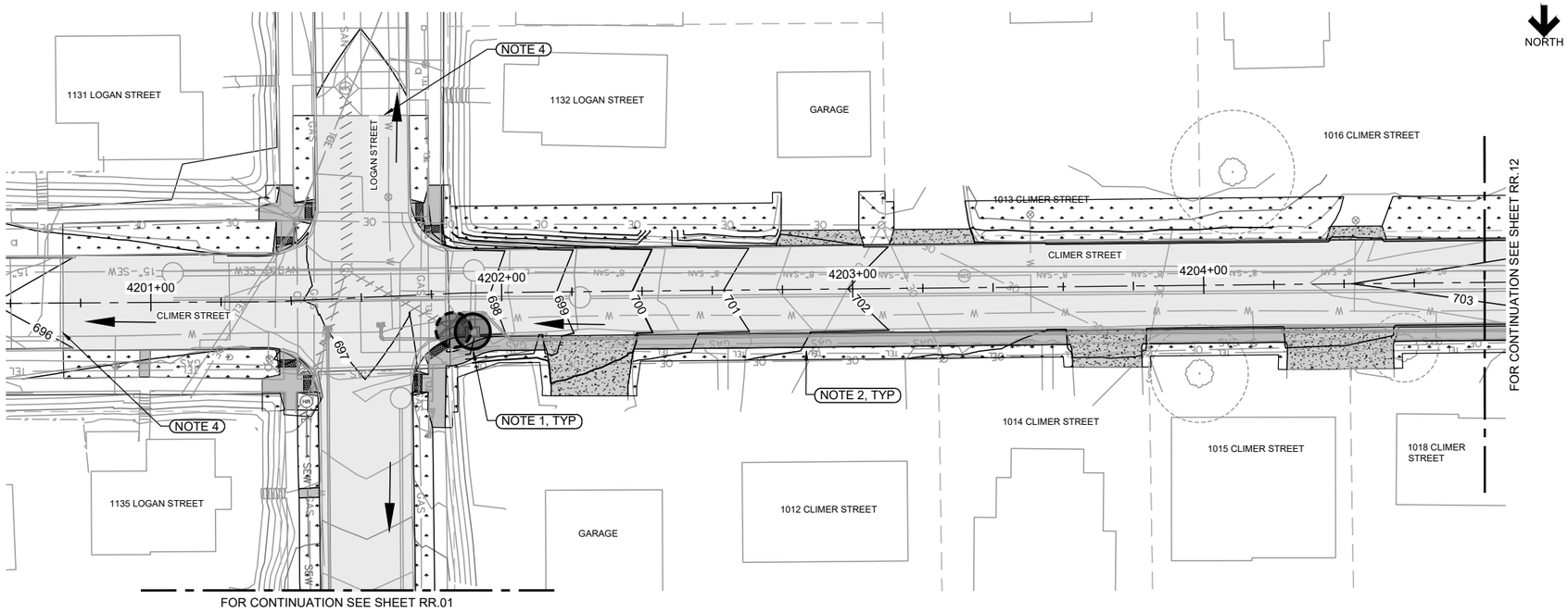
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

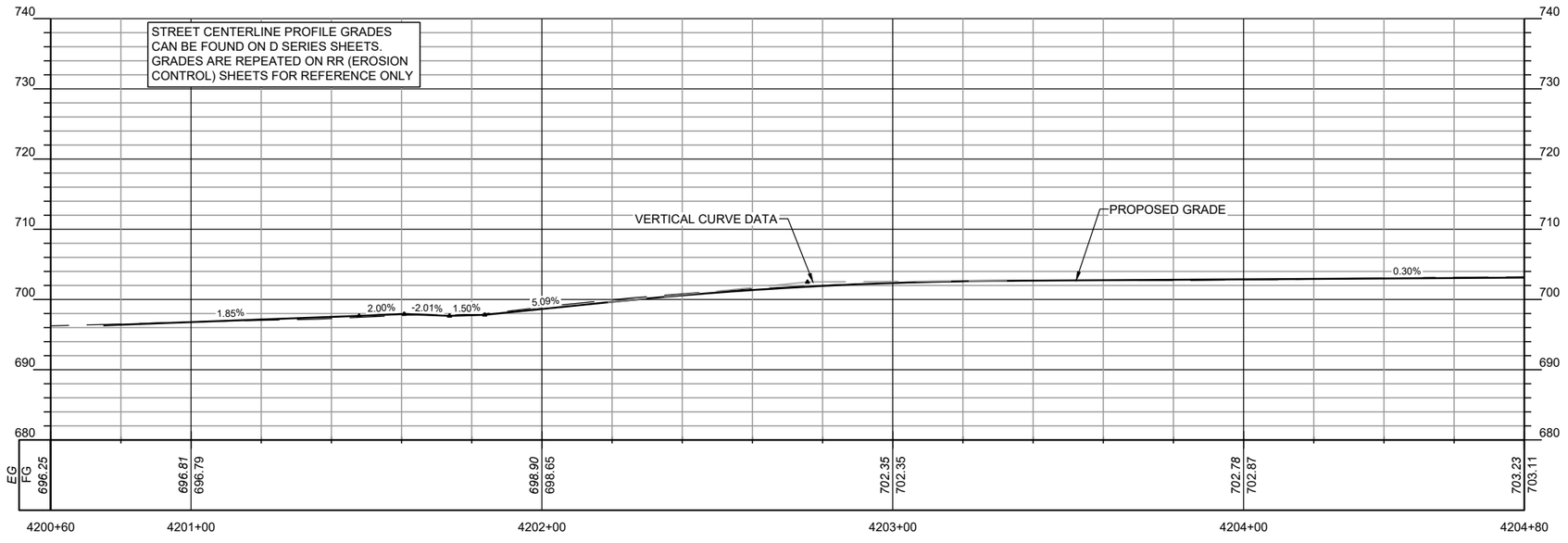
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NO. 17660.60.40 | REV. RR.10 | 0

CADD D3-R5

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NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
2. PREVENT TOPSOIL FROM ENTERING STREET WITH INSTALLATION OF SILT FENCE, WATTLES, FILTER SOCKS OR OTHER EROSION PROTECTION METHOD BEHIND CURB, NOT SHOWN.
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4. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN EROSION CONTROL UNTIL RESTORATION OF DISTURBED AREAS AND COMPLETION OF PROJECT.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 11 CLIMER STREET

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 20'

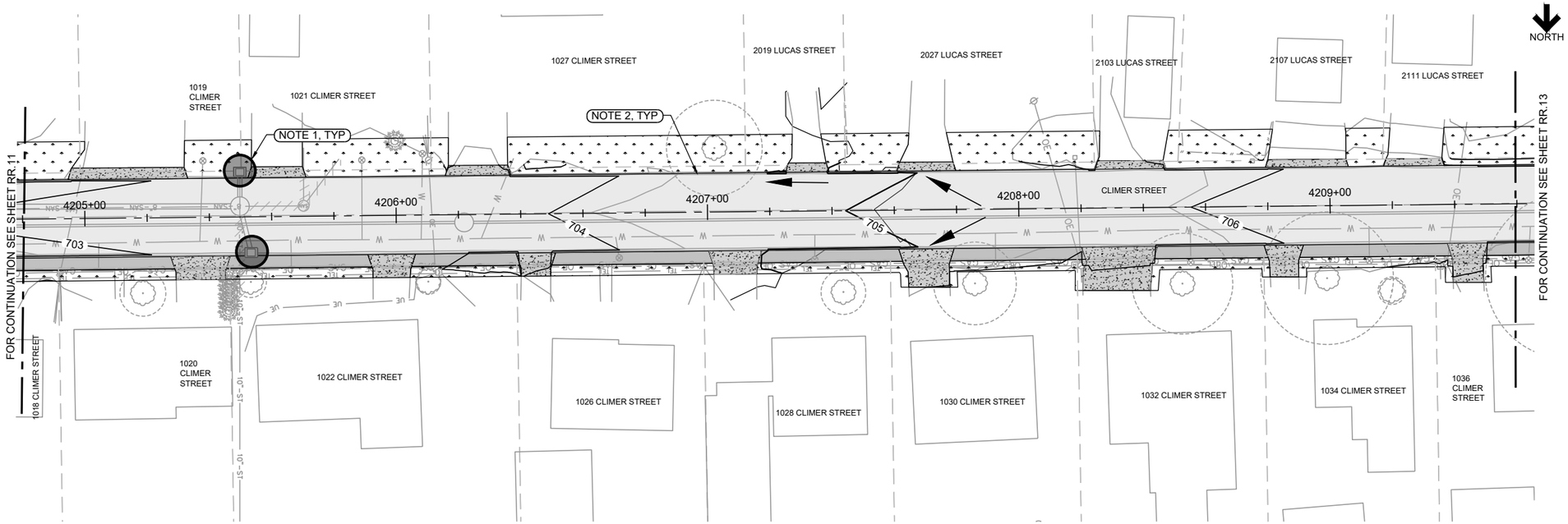
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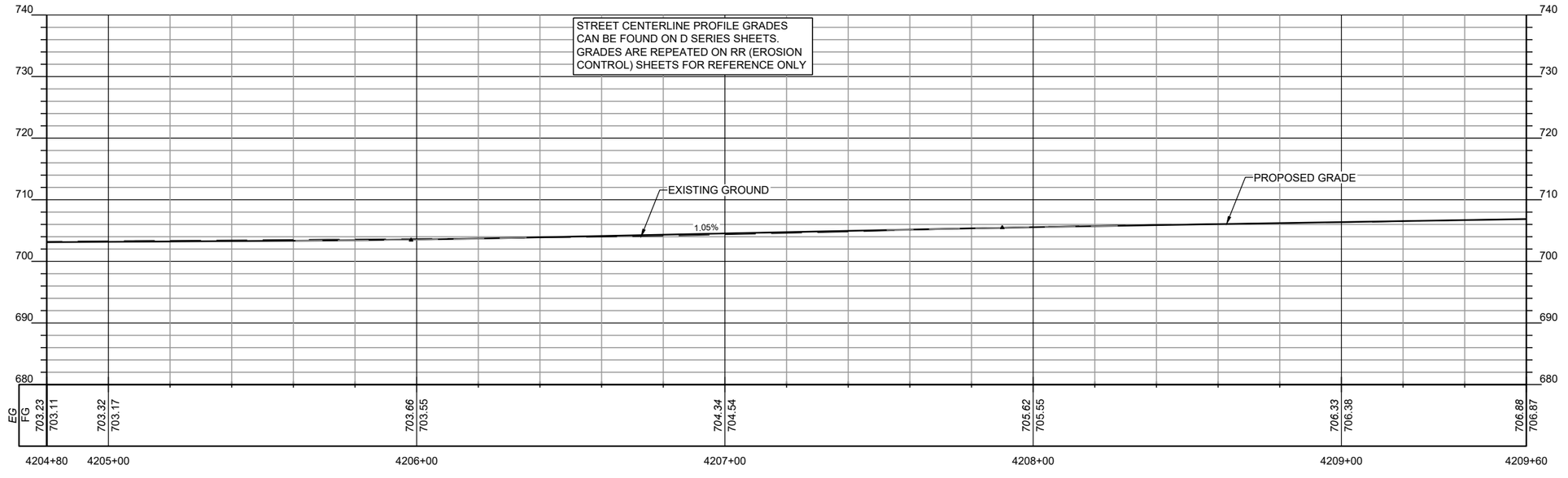
REV. 0

RR.11

CADD D3-R5

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
2. PREVENT TOPSOIL FROM ENTERING STREET WITH INSTALLATION OF SILT FENCE, WATTLES, FILTER SOCKS OR OTHER EROSION PROTECTION METHOD BEHIND CURB, NOT SHOWN.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 12 CLIMER STREET

DESIGNED KK HEIM
DRAWN GM REEVES
CHECKED ER SCHALLERT
APPROVED JM BRADY
APPROVED KK HEIM
DATE MARCH 30, 2026

SCALE: 1" = 20'

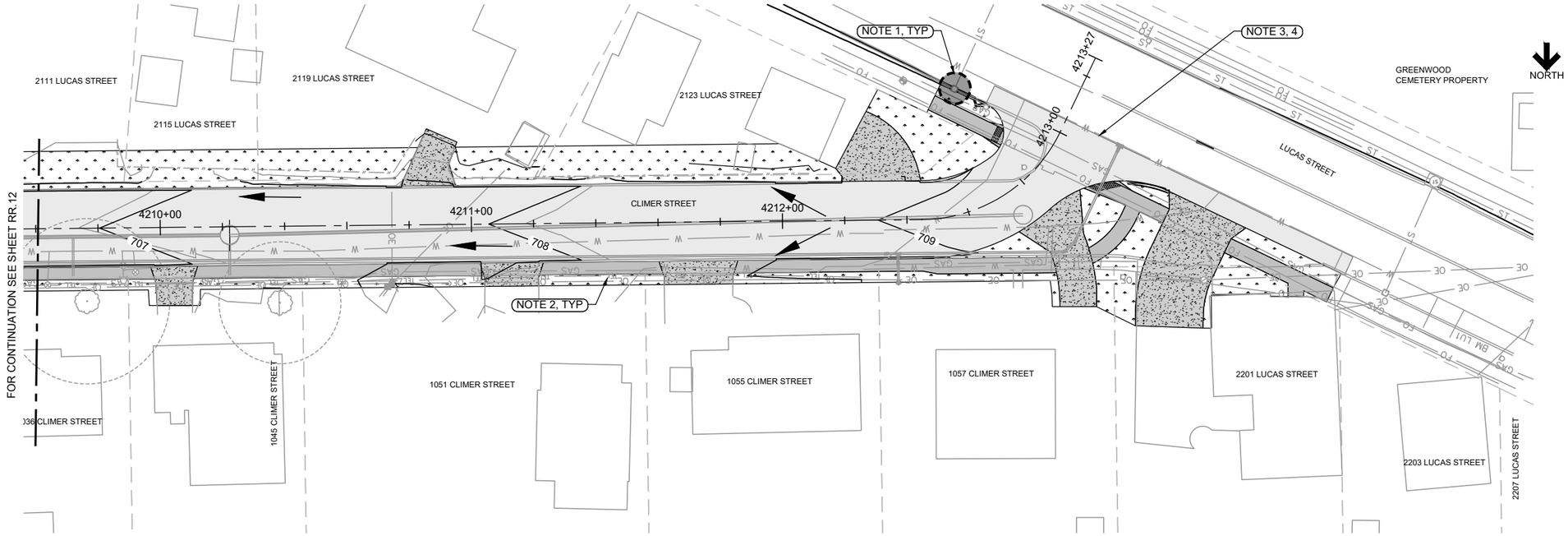
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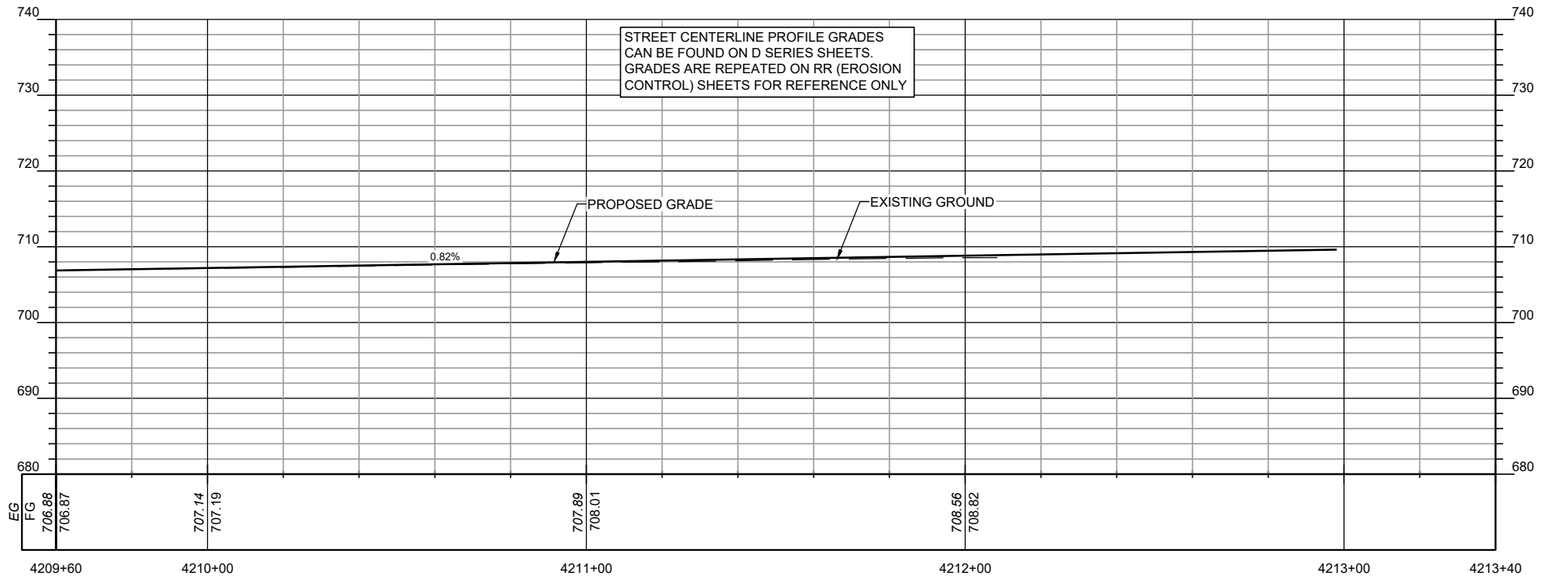
REV. 0

RR.12

CADD D3-R5

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NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
2. PREVENT TOPSOIL FROM ENTERING STREET WITH INSTALLATION OF SILT FENCE, WATTLES, FILTER SOCKS OR OTHER EROSION PROTECTION METHOD BEHIND CURB, NOT SHOWN.
3. PREVENT TRACKING MUD ONTO NEW OR EXISTING PAVEMENT. INSTALL STABILIZED CONSTRUCTION EXIT OR EXTRA TEMPORARY AGGREGATE SURFACING AT PAVEMENT TRANSITIONS. ADJUST AS PAVEMENT IS PLACED. SEE SUDAS FIGURE 9040.120 FOR STABILIZED CONSTRUCTION EXIT DETAIL.
4. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN EROSION CONTROL UNTIL RESTORATION OF DISTURBED AREAS AND COMPLETION OF PROJECT.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 13 CLIMER STREET

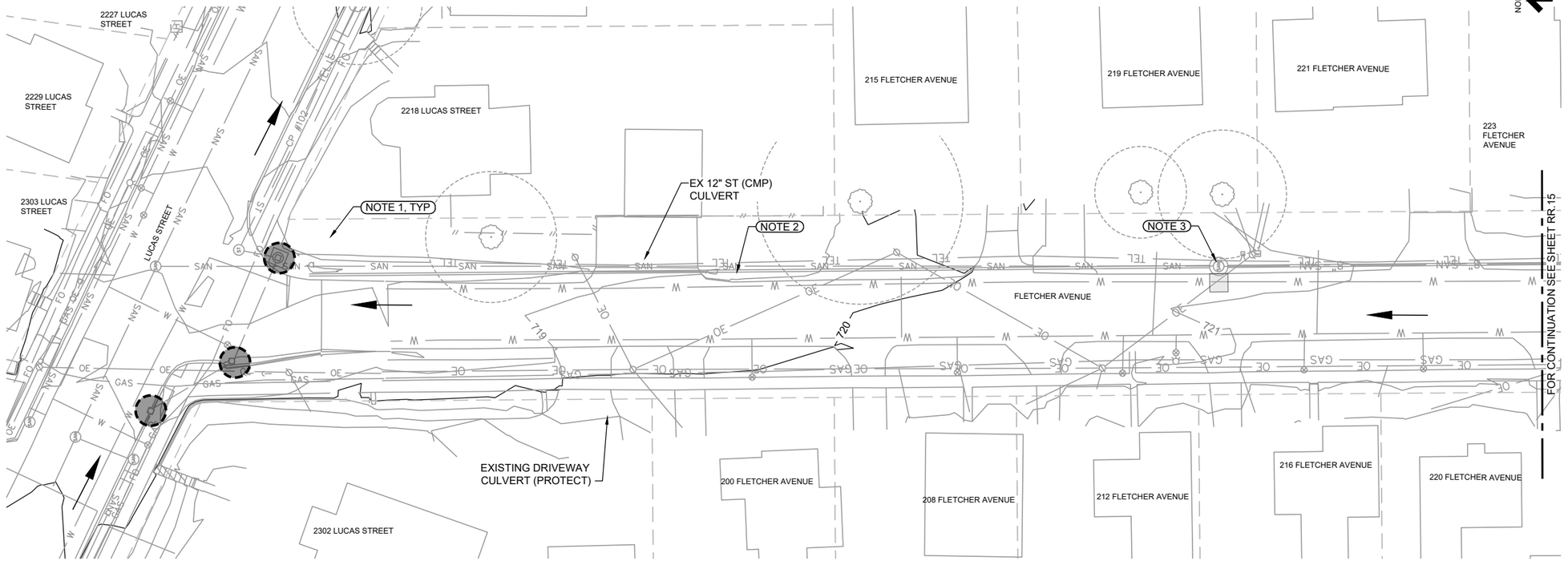
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

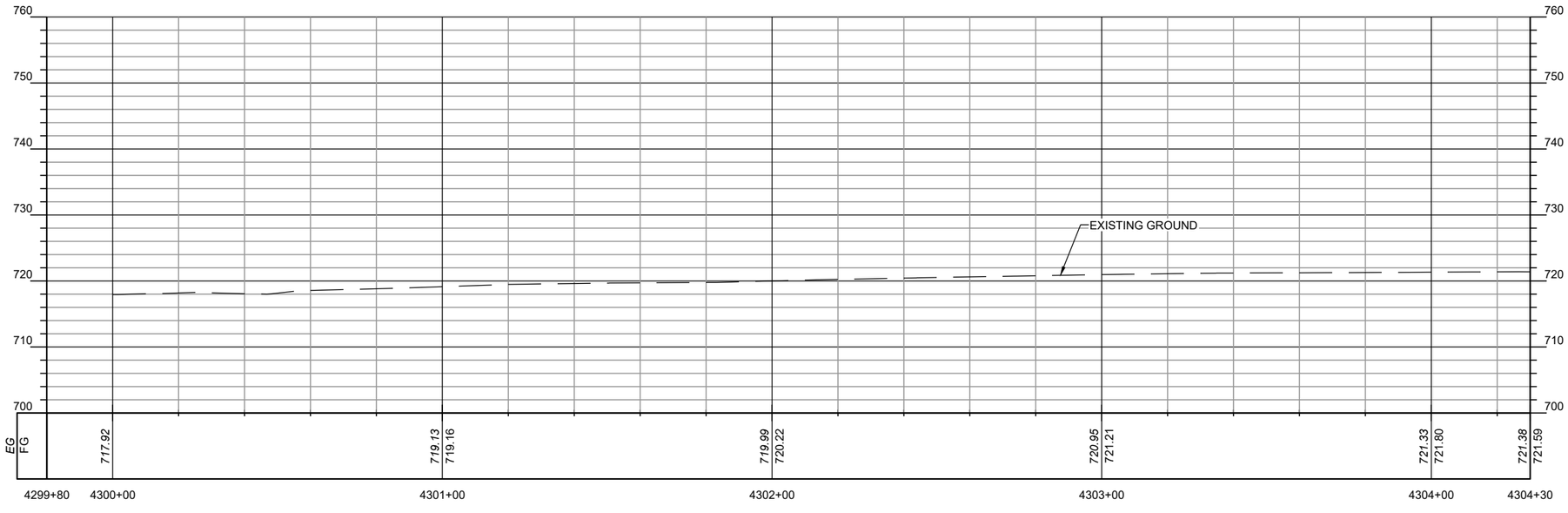
SCALE: 1" = 20'

NO. 17660.60.40 | REV. RR.13 | 0

CADD D3-R5

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NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
2. PROTECT EXISTING CULVERT WITH EROSION PROTECTION SUCH AS SILT FENCE, WATTLES, FILTER SOCKS IN THE DITCH UPSTREAM OF THE CULVERT WHILE EXCAVATION AND WORK TO REPLACE MANHOLES ON FLETCHER IS OCCURRING.
3. DURING MANHOLE REPLACEMENT AND PAVEMENT RESTORATION, USE EROSION CONTROL MEASURES TO PREVENT WASHING OF MATERIAL AWAY FROM EXCAVATION.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 14 FLETCHER AVENUE

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

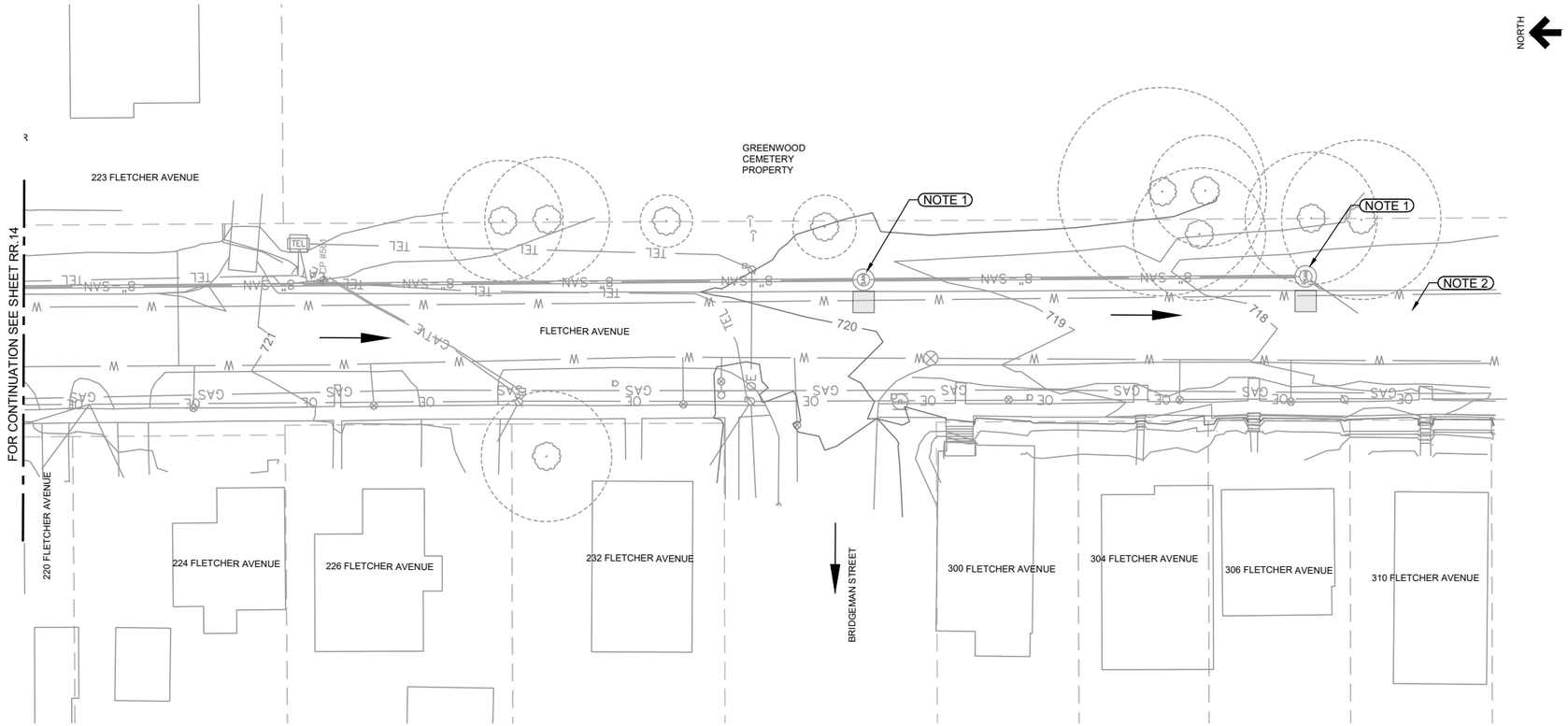
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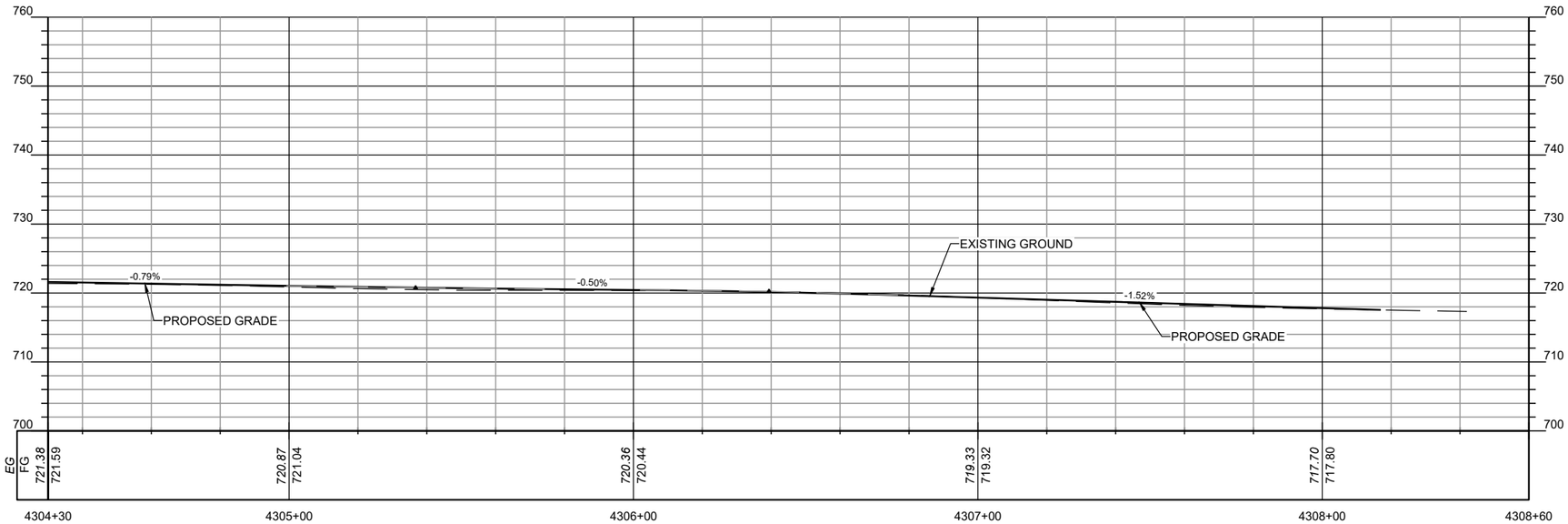
NO. 17660.60.40	REV.
RR.14	0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5

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NOTES

1. DURING MANHOLE REPLACEMENT AND PAVEMENT RESTORATION, USE EROSION CONTROL MEASURES TO PREVENT WASHING OF MATERIAL AWAY FROM EXCAVATION.
2. INSTALL DOWNSTREAM EROSION CONTROL IN DITCH OR SHOULDER IF NEEDED TO PREVENT MATERIAL FROM WASHING DOWNSTREAM.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 15 FLETCHER AVENUE

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

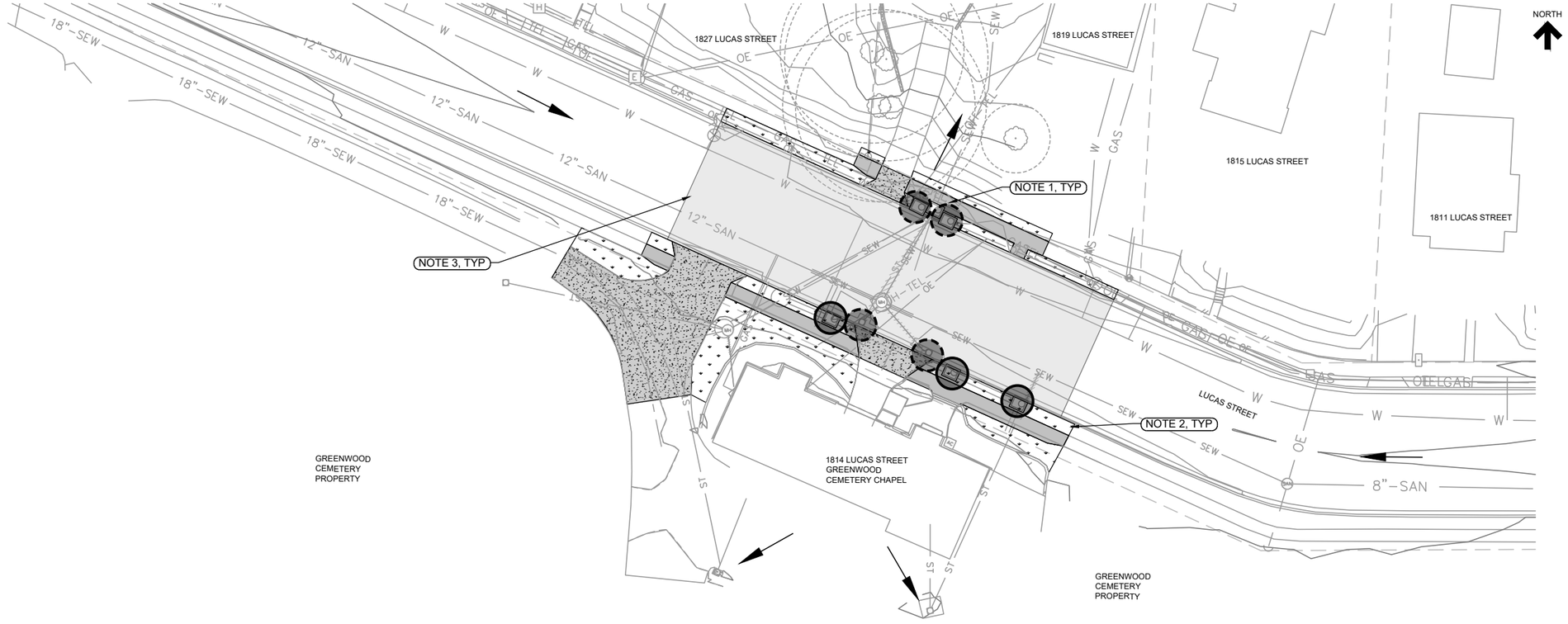
SCALE: 1" = 20'

NO. 17660.60.40 | REV. 0

RR.15

AT FULL SIZE

CADD D3-R5
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NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
2. PREVENT TOPSOIL FROM ENTERING STREET WITH INSTALLATION OF SILT FENCE, WATTLES, FILTER SOCKS OR OTHER EROSION PROTECTION METHOD BEHIND CURB, NOT SHOWN.
3. PREVENT TRACKING MUD ONTO NEW OR EXISTING PAVEMENT. INSTALL STABILIZED CONSTRUCTION EXIT OR EXTRA TEMPORARY AGGREGATE SURFACING AT PAVEMENT TRANSITIONS. ADJUST AS PAVEMENT IS PLACED. SEE SUDAS FIGURE 9040.120 FOR STABILIZED CONSTRUCTION EXIT DETAIL.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 16 GREENWOOD CHAPEL AREA

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 20'

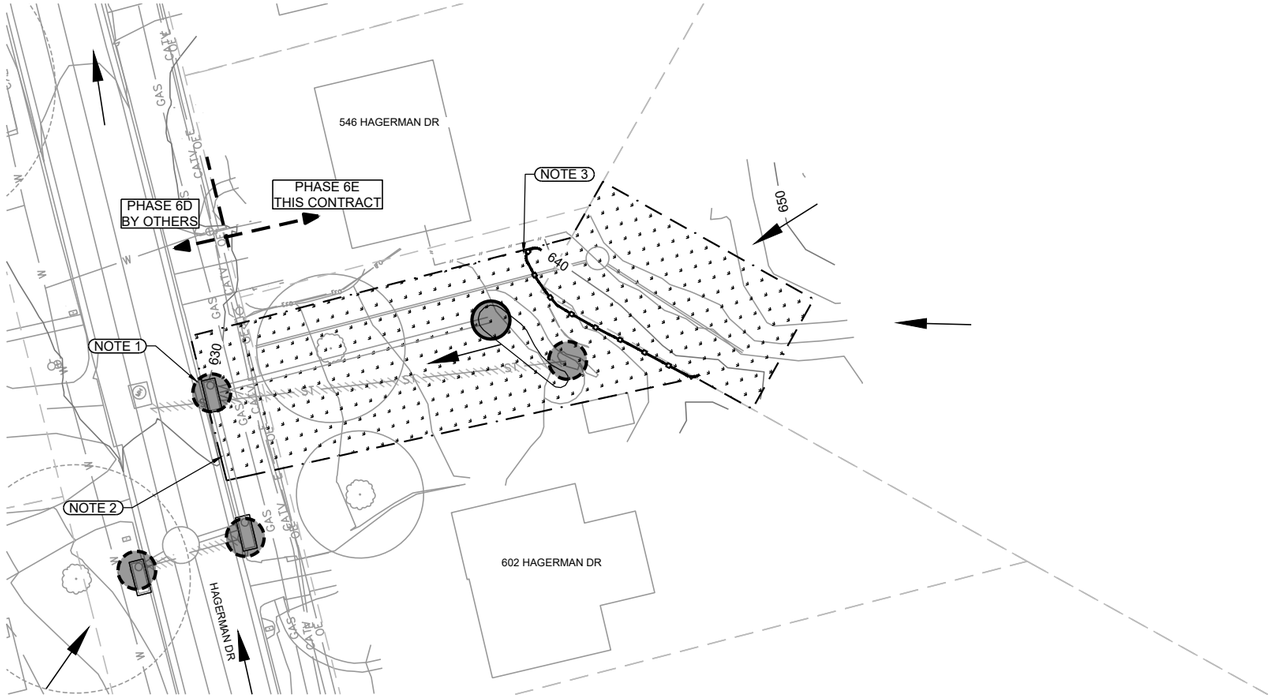
NO. 17660.60.40

RR.16

REV. 0

CADD D3-R5

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AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
2. PREVENT TOPSOIL FROM ENTERING STREET WITH INSTALLATION OF SILT FENCE, WATTLES, FILTER SOCKS OR OTHER EROSION PROTECTION METHOD BEHIND CURB, NOT SHOWN.
3. INSTALL SILT FENCE ALONG THE TOE OF SLOPE TO MINIMIZE MATERIAL WASHING INTO THE EXISTING OR NEW STORM INLET. SEE SUDAS DETAIL 9040.119 FOR SILT FENCE INSTALLATION.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 17 HAGERMAN DRIVE

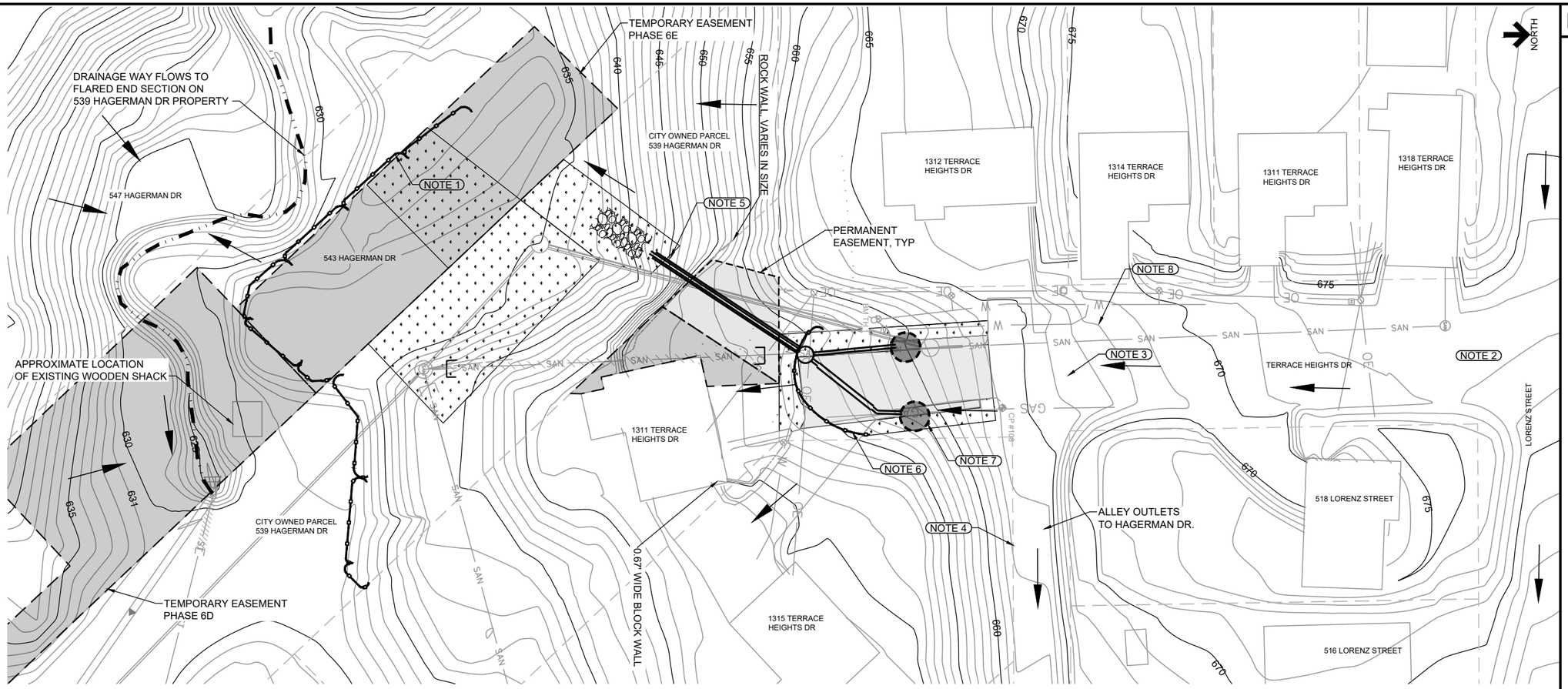
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 20'

NO. 17660.60.40	REV.
RR.17	0

CADD D3-R5

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NOTES

1. INSTALL SILT FENCE OR OTHER EROSION PROTECTION MEASURE DOWNSTREAM OF DISTURBANCE TO MINIMIZE SEDIMENT FROM WASHING INTO DOWNSTREAM DRAINAGE WAYS.
2. CONTOURS SHOWN ON THIS SHEET ARE CITY 1-FOOT CONTOURS FROM 2000.
3. PREVENT TRACKING MUD ONTO PAVEMENT. INSTALL STABILIZED CONSTRUCTION EXIT OR EXTRA TEMPORARY AGGREGATE SURFACING NEAR PAVEMENT ENTRANCES FROM CONSTRUCTION ZONES ON TERRACE HEIGHTS DRIVE, LORENZ STREET, OR HAGERMAN DRIVE. ADJUST AS NEW PAVEMENT IS PLACED. SEE SUDAS FIGURE 9040.120 FOR DETAIL.
4. EXISTING EROSION AND PAVEMENT DETERIORATION. AVOID USE OF ALLEY IF POSSIBLE. MAINTAIN EXISTING PROTECTIONS.
5. EXISTING EROSION AND DEEP CUT FORMED FROM WATER JET FROM EXPOSED PIPE THRU LIMESTONE WALL.
6. PROTECT DRIVEWAYS FROM ACCUMULATION OF MUD. CONSIDER USE OF WATTLES OR OTHER BARRIER DURING EXCAVATION ACTIVITY TO STOP MATERIAL FROM WASHING DOWN INTO DRIVEWAYS.
7. PROTECT EXISTING AND PROPOSED CULVERT INLETS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO EACH WORK STAGE.
8. EXISTING PAVED SHOULDER/DITCHES ON EACH SIDE OF TERRACE HEIGHTS END IN PIPE CULVERTS. PROTECT FROM SEDIMENT ACCUMULATION.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 18 TERRACE HEIGHTS DRIVE

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: 1" = 20'

NO. 17660.60.40

RR.18

REV. 0

CADD D3-R5

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NOTES

1. IF EXCAVATION OCCURS TO USE EXST MH 462 AS AN ACCESS POINT, PROTECT AREA FROM EROSION WITH SILT FENCE, WATTLES, OR FILTER SOCKS AS NEEDED. RESTORE AREA SHORTLY AFTER DISTURBANCE.
2. INSTALL INLET PROTECTION ON PRIVATE PROPERTY IF NECESSARY AROUND INLETS.
3. EXCAVATION IN INTERSECTION IS NOT ANTICIPATED OR REQUIRED. IF NECESSARY, PROTECT INLETS IN THE IOWA AVENUE AND E 11TH STREET INTERSECTION.

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 19 IOWA AVENUE

DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 30, 2026

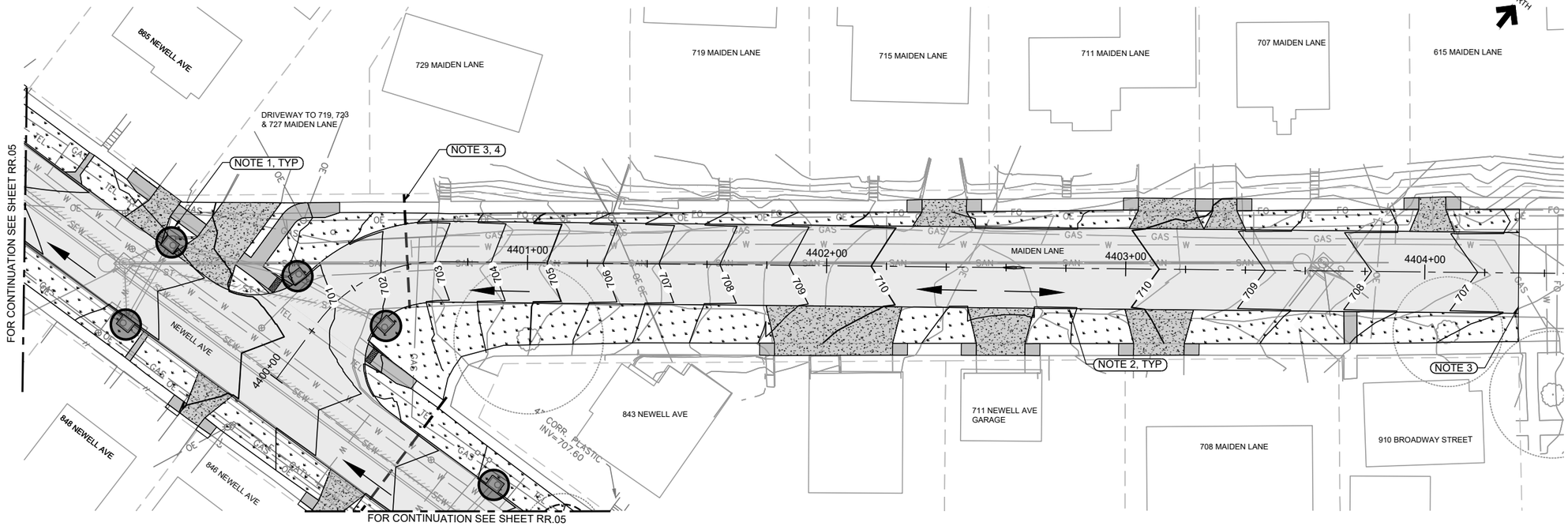
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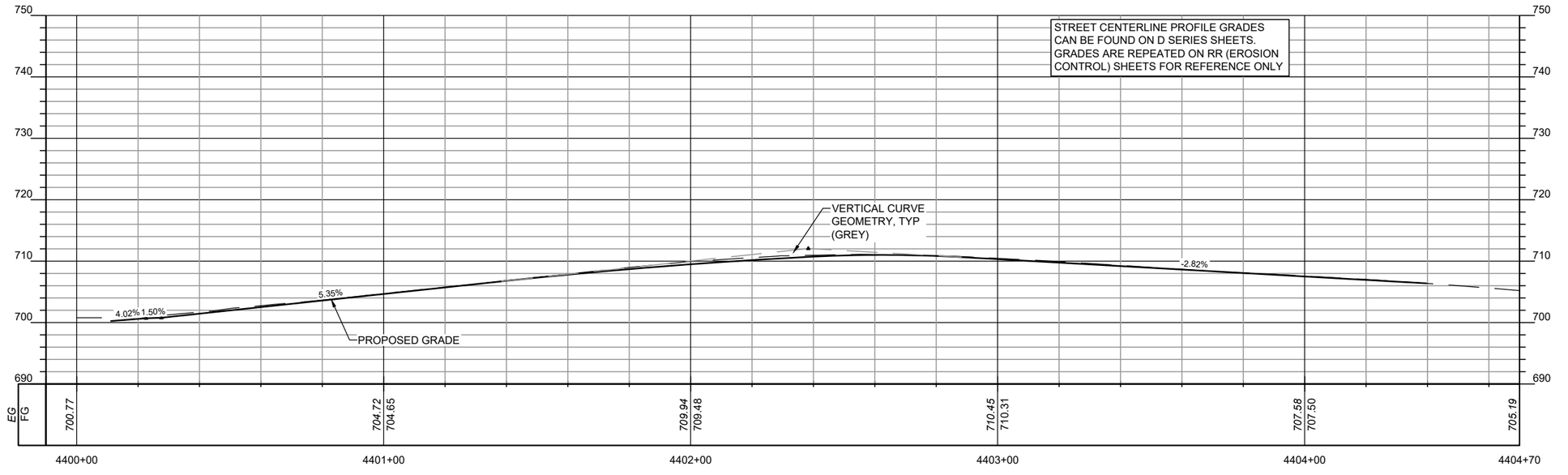
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RR.19

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NOTES

1. PROTECT EXISTING AND PROPOSED INLETS AND STORM SEWERS FOR DURATION OF CONSTRUCTION. ADJUST EROSION PROTECTION METHODS WITH CHANGES TO WORK STAGE.
2. PREVENT TOPSOIL FROM ENTERING STREET WITH INSTALLATION OF SILT FENCE, WATTLES, FILTER SOCKS OR OTHER EROSION PROTECTION METHOD BEHIND CURB, NOT SHOWN.
3. PREVENT TRACKING MUD ONTO NEW OR EXISTING PAVEMENT. INSTALL STABILIZED CONSTRUCTION EXIT OR EXTRA TEMPORARY AGGREGATE SURFACING AT TRANSITIONS TO PAVEMENT. ADJUST AS PAVEMENT IS PLACED. SEE SUDAS FIGURE 9040.120 FOR STABILIZED CONSTRUCTION EXIT DETAIL.
4. SEE SHEET J.03 FOR PROPOSED CONSTRUCTION STAGES. MAINTAIN EROSION CONTROL UNTIL RESTORATION OF DISTURBED AREAS AND COMPLETION OF PROJECT.

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

EROSION CONTROL PLAN - SHEET 20 MAIDEN LANE

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

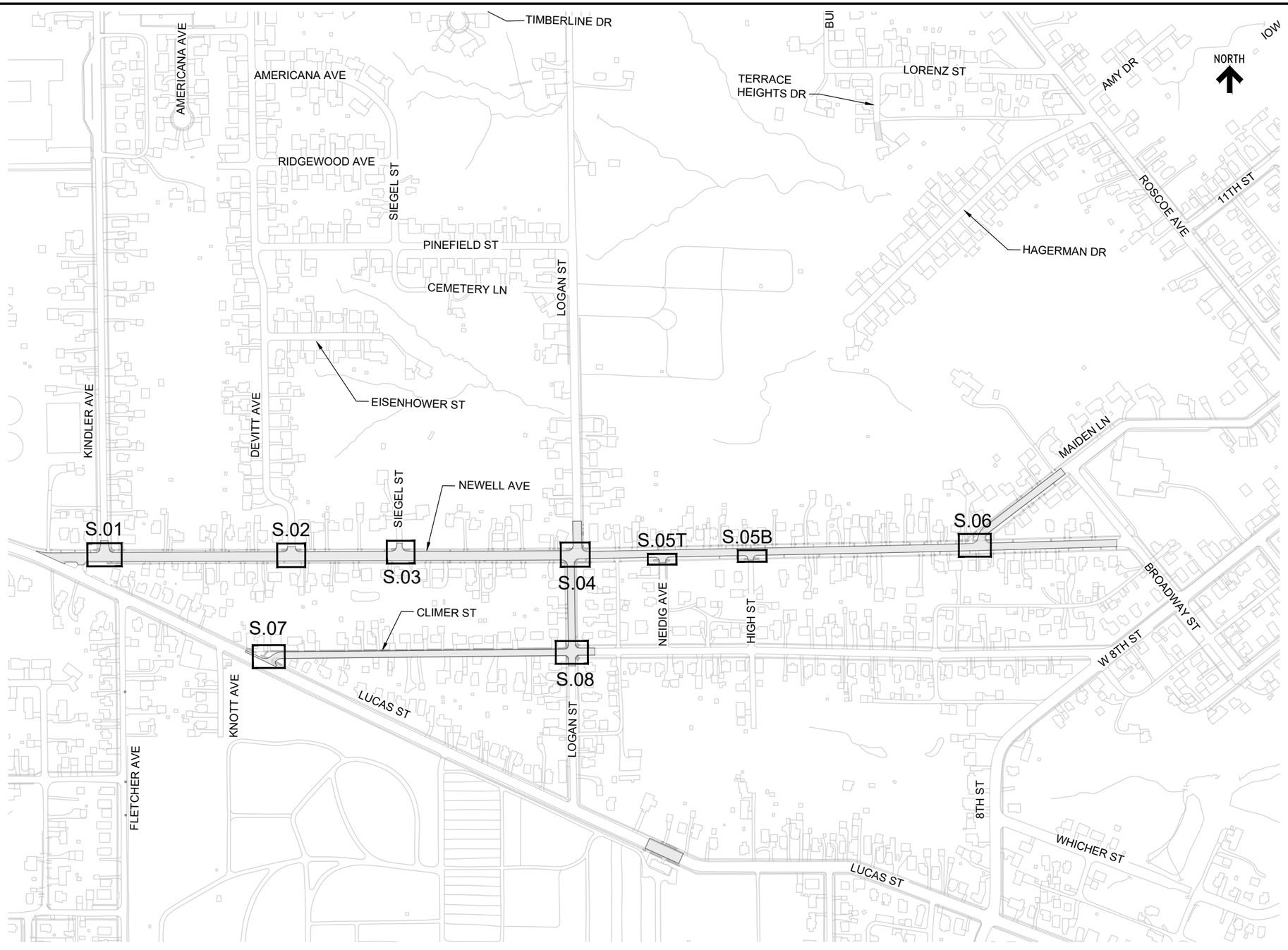
SCALE: 1" = 20'

NO. 17660.60.40	REV.
RR.21	0

CADD D3-R5

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GENERAL NOTES



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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ADA SIDEWALK KEY PLAN

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

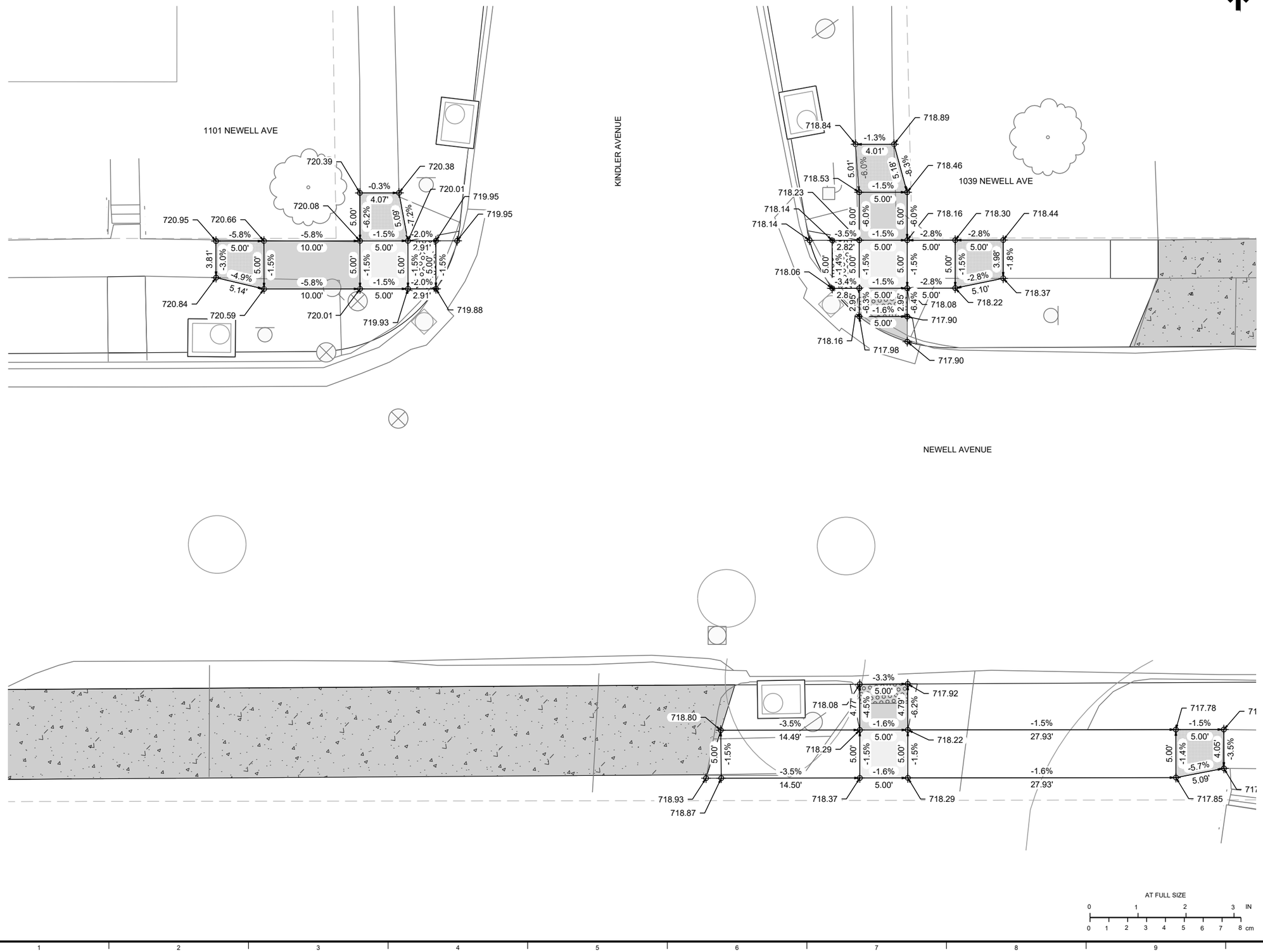
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: AS NOTED

NO. 17660.60.40	REV.
S.00	0

CADD D3-R5

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NOTES

LEGEND

- ADA TURN SPACE
- ADA RAMP
- ADA TRANSITION
- DETECTABLE WARNING SURFACE

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ADA SIDEWALK IMPROVEMENTS KINDLER AVE & NEWELL AVE

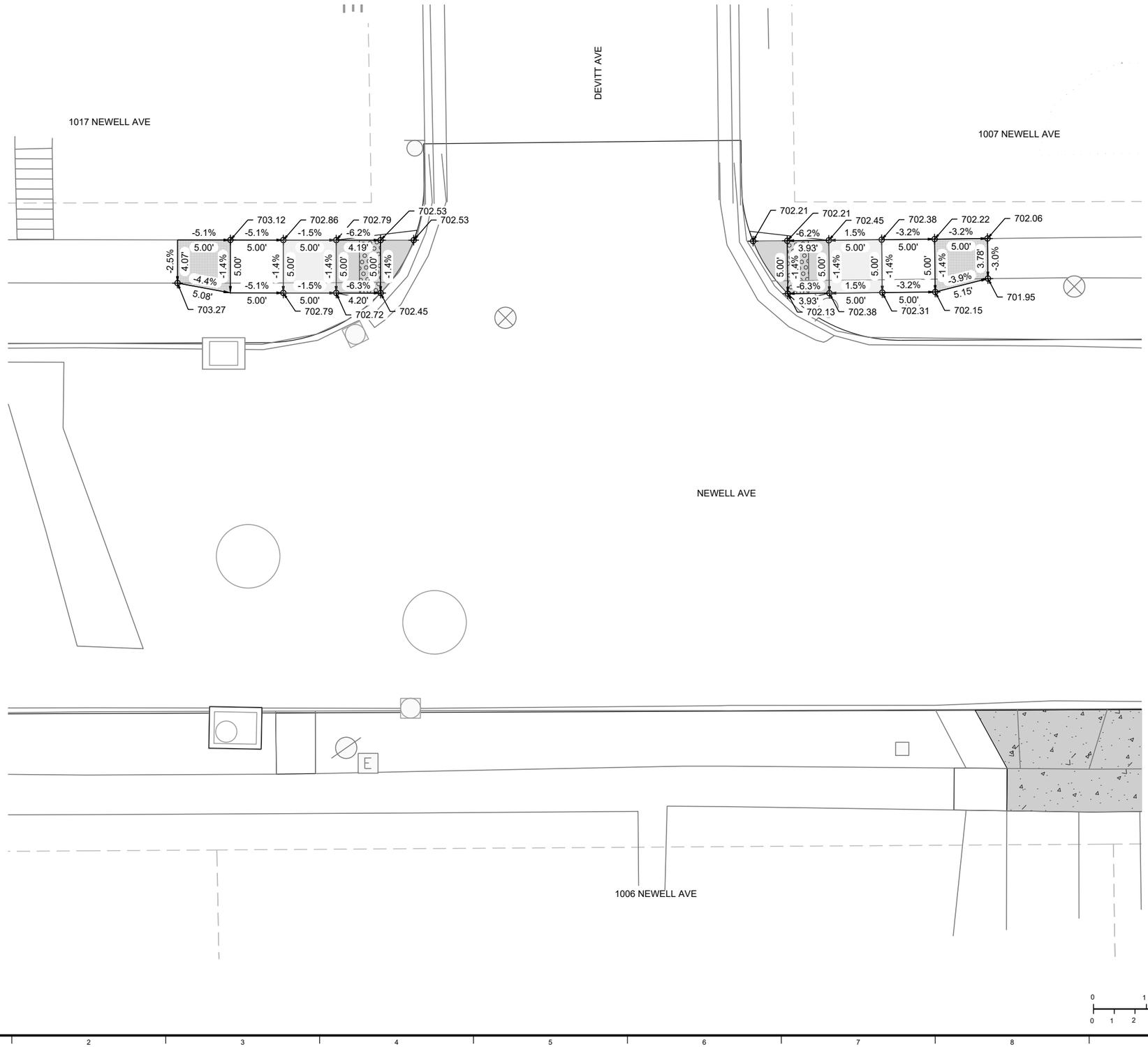
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 5'

NO. 17660.60.40 | REV. 0

S.01

CADD D3-R5
© STANLEY CONSULTANTS



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

LEGEND

- ADA TURN SPACE
- ADA RAMP
- ADA TRANSITION
- DETECTABLE WARNING SURFACE

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ADA SIDEWALK IMPROVEMENTS DEVITT AVE & NEWELL AVE

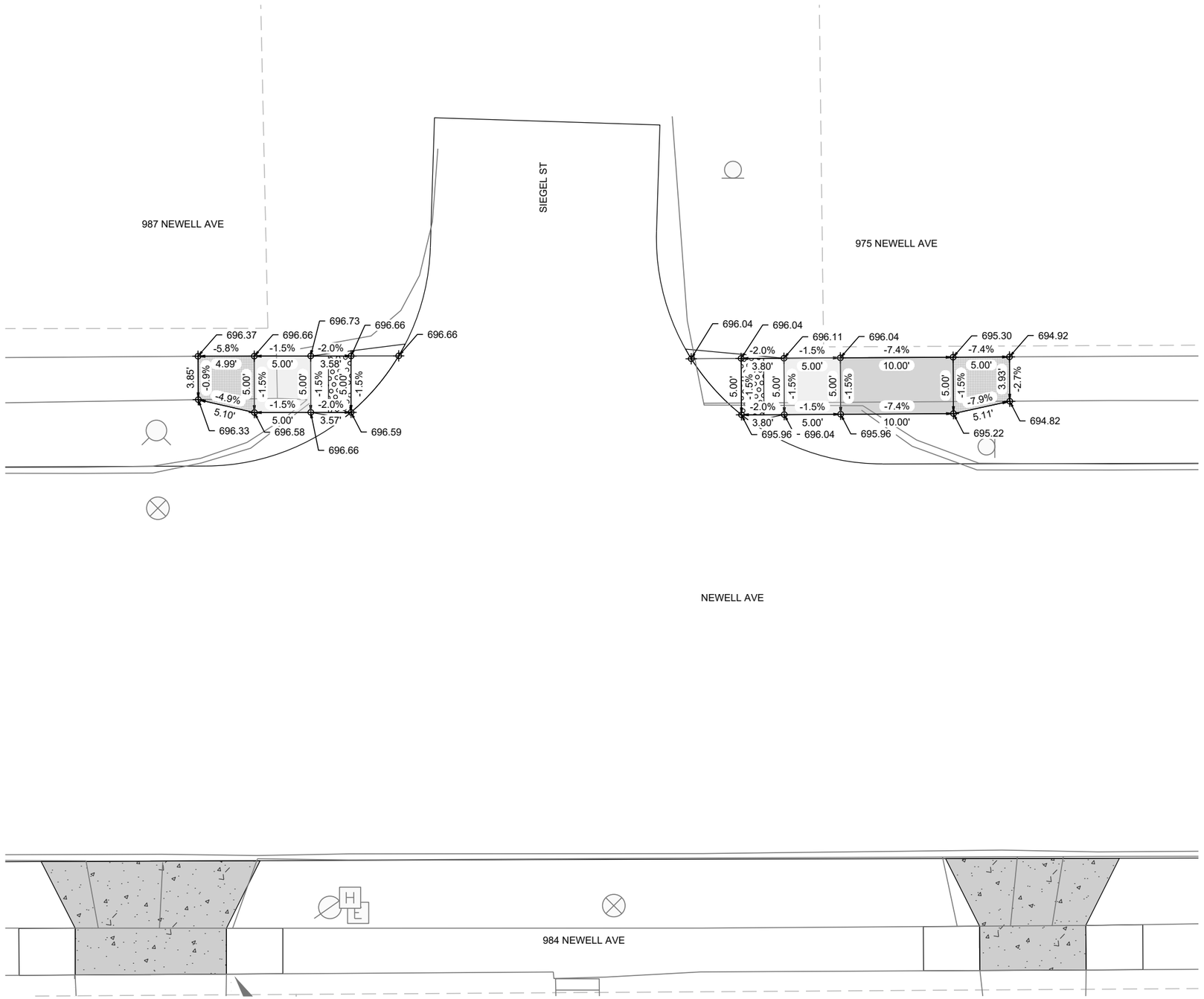
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 5'

NO. 17660.60.40 | REV. 0

S.02

CADD D3-R5
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NOTES

LEGEND

- ADA TURN SPACE
- ADA RAMP
- ADA TRANSITION
- DETECTABLE WARNING SURFACE

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ADA SIDEWALK IMPROVEMENTS SIEGEL ST & NEWELL AVE

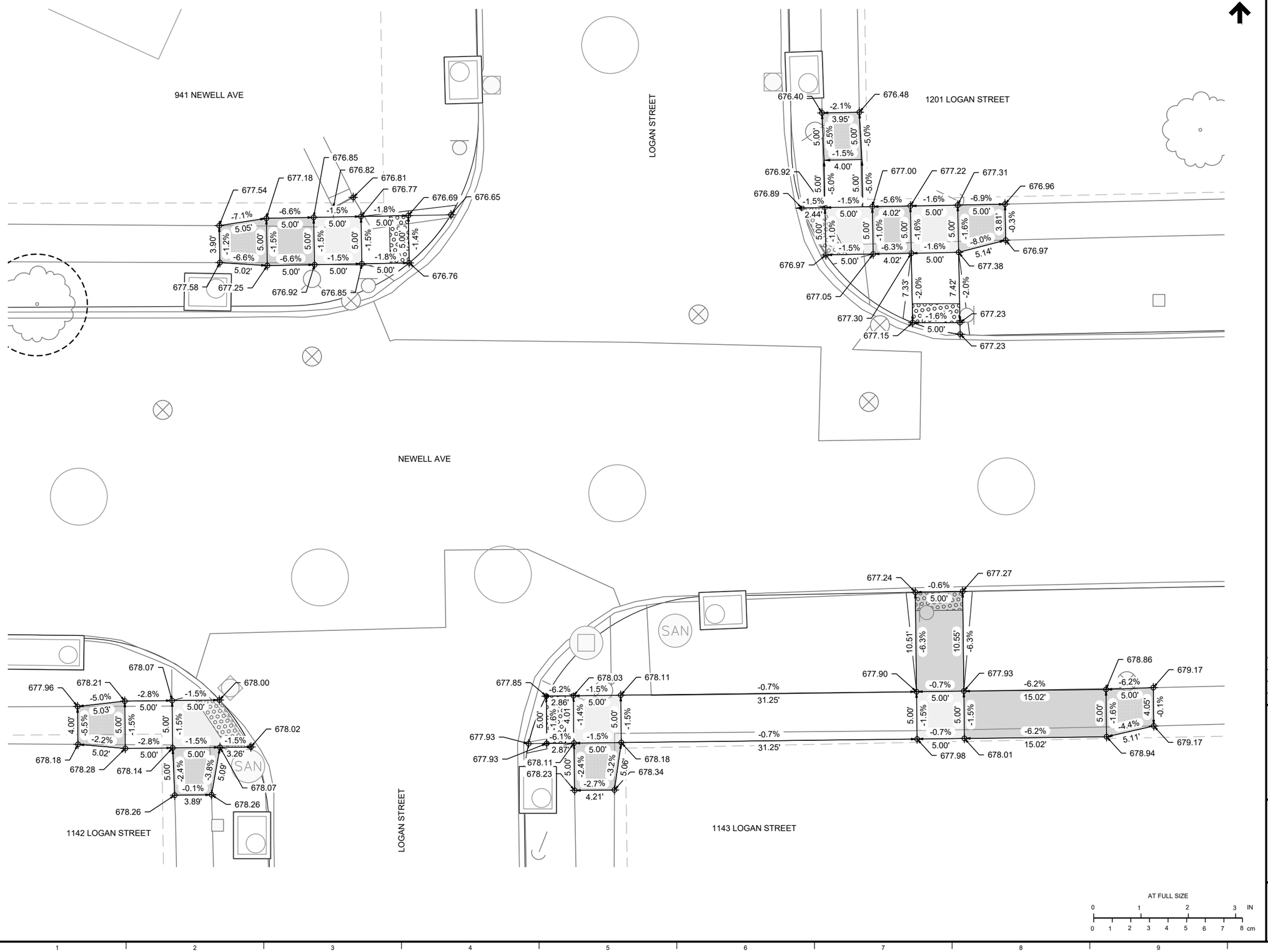
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 5'

NO. 17660.60.40 | REV. S.03 | 0

CADD D3-R5

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NOTES

LEGEND

- ADA TURN SPACE
- ADA RAMP
- ADA TRANSITION
- DETECTABLE WARNING SURFACE

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ADA SIDEWALK IMPROVEMENTS LOGAN ST & NEWELL AVE

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 5'

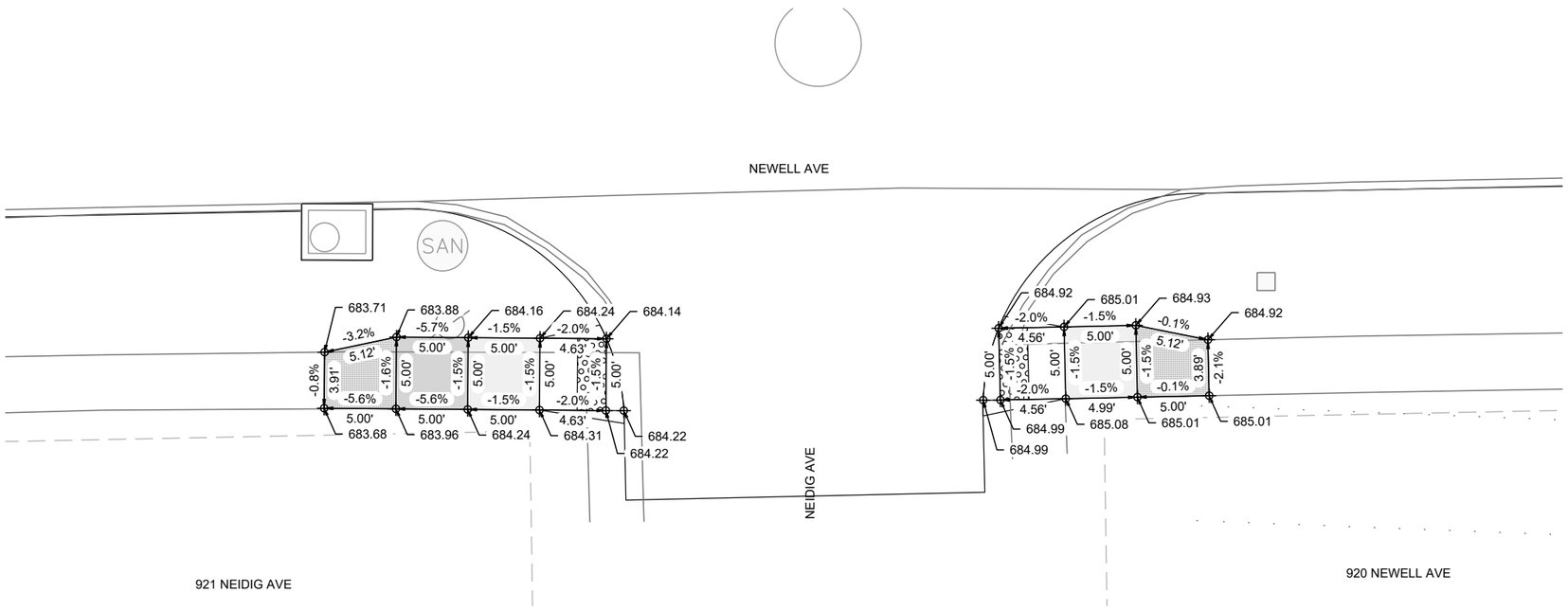
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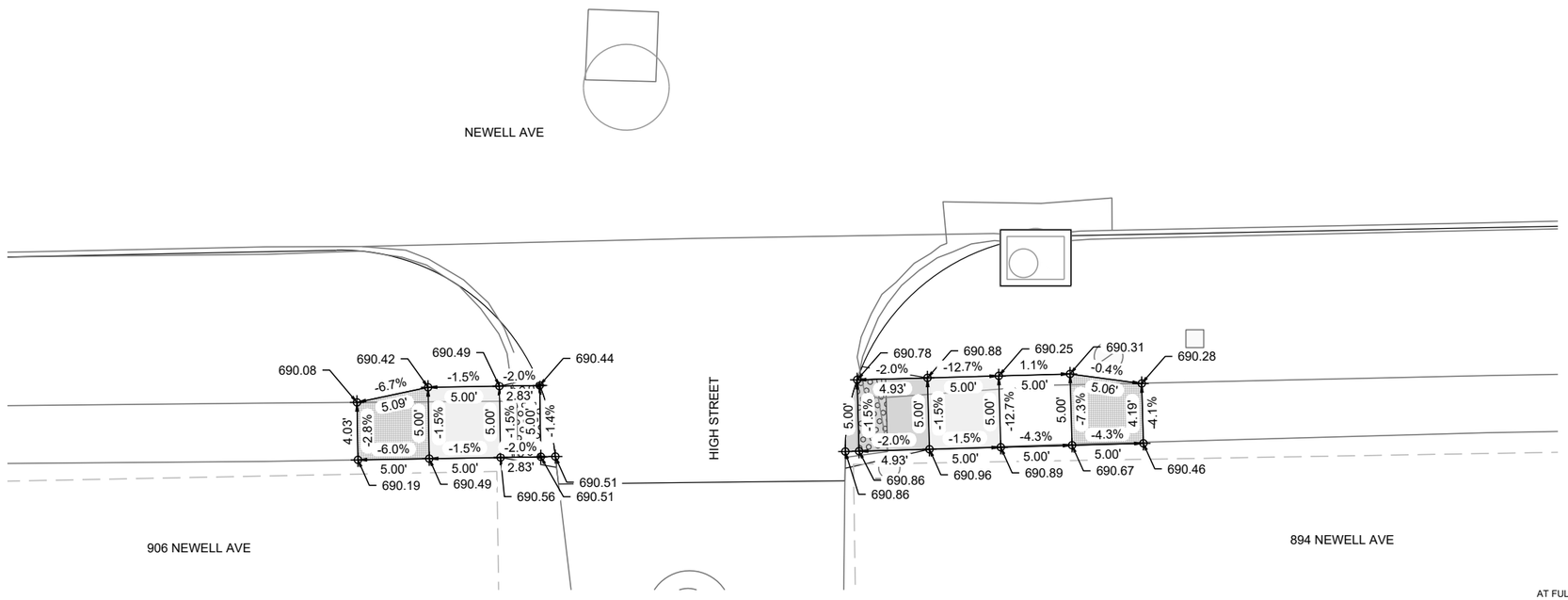
REV. 0

S.04

AT FULL SIZE

CADD D3-R5
© STANLEY CONSULTANTS





AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

LEGEND

- ADA TURN SPACE
- ADA RAMP
- ADA TRANSITION
- DETECTABLE WARNING SURFACE

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ADA SIDEWALK IMPROVEMENTS NIEDIG ST, HIGH ST & NEWELL AVE

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

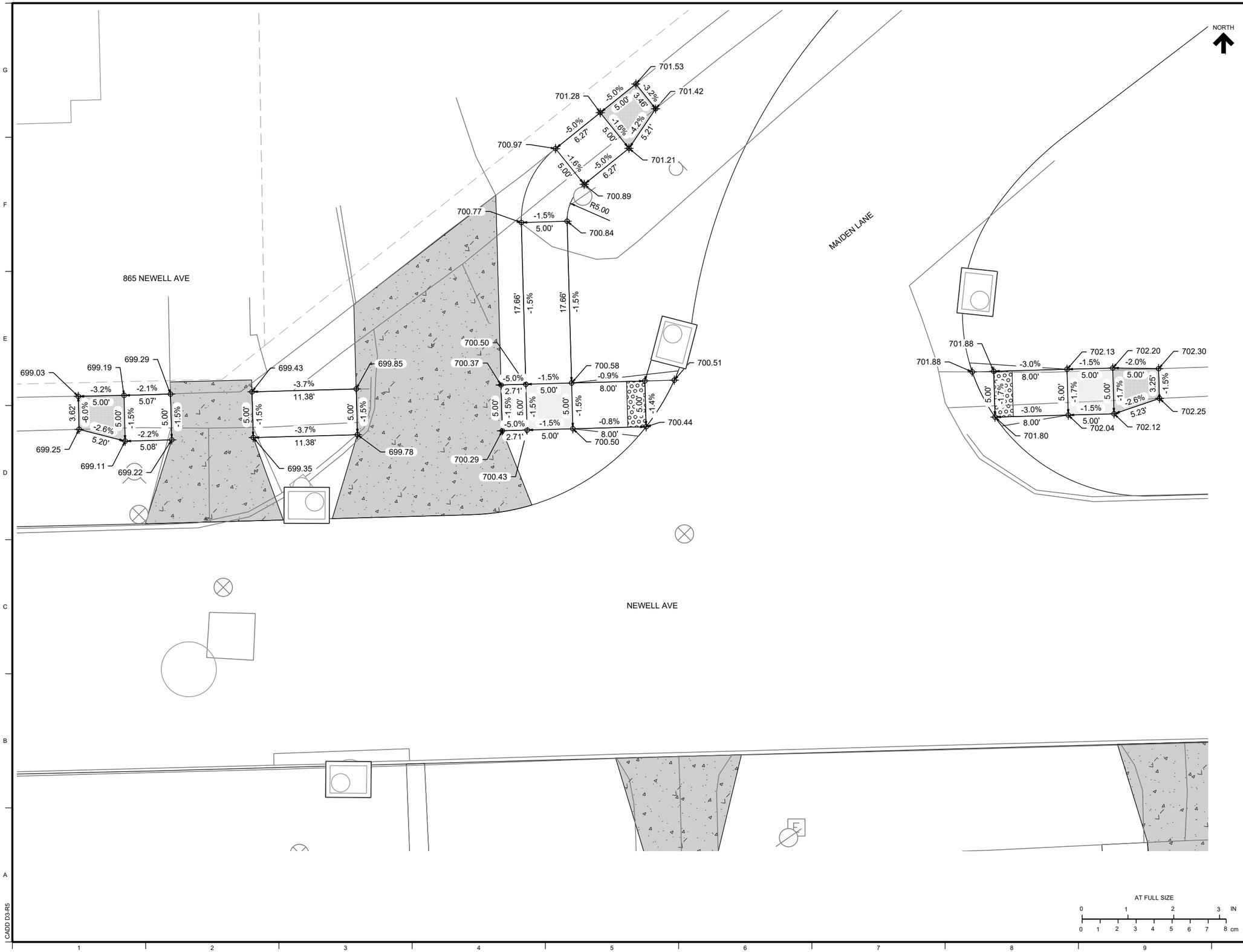
SCALE: 1" = 5'

NO. 17660.60.40 | REV. 0

S.05

CADD D3-R5

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NOTES

LEGEND

- ADA TURN SPACE
- ADA RAMP
- ADA TRANSITION
- DETECTABLE WARNING SURFACE

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ADA SIDEWALK IMPROVEMENTS MAIDEN LN & NEWELL AVE

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 5'

NO. 17660.60.40	REV.
S.06	0

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5

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NORTH

2201 LUCAS STREET

1057 CLIMER STREET

2123 LUCAS STREET

CLIMER STREET

LUCAS STREET

OE

709.85
709.78
710.27
710.20
709.87
709.79
709.68
709.44
709.46
709.72
709.60
709.79
710.28
710.13
710.20
710.03
709.34
709.34
709.66
709.73
709.27
709.58
709.65
709.46
709.31
709.38
709.28

-1.5%
5.00'
-3.7%
3.12'
-2.3%
10.44'
-1.4%
-3.6%
4.00'
-6.2%
-1.6%
-2.9%
9.44'
-0.6%
-1.9%

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

LEGEND

- ADA TURN SPACE
- ADA RAMP
- ADA TRANSITION
- DETECTABLE WARNING SURFACE

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ADA SIDEWALK IMPROVEMENTS LUCAS ST & CLIMER ST

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: 1" = 5'

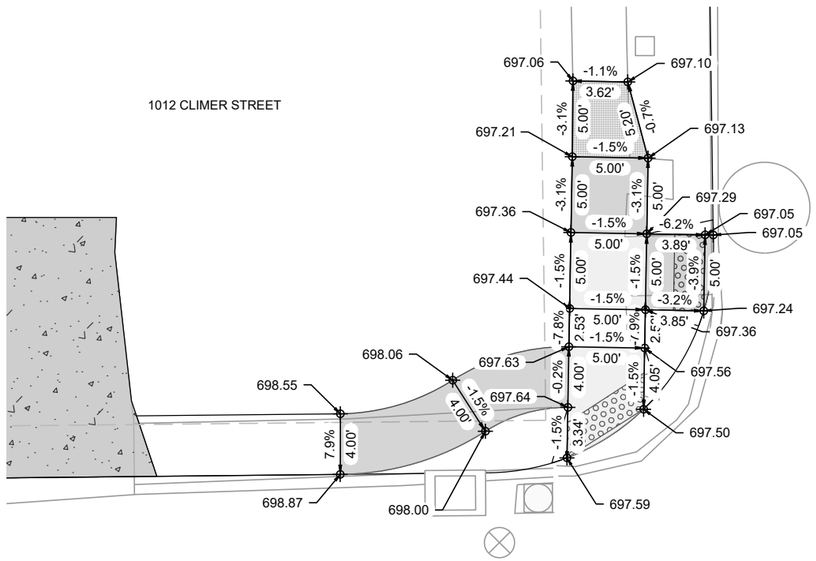
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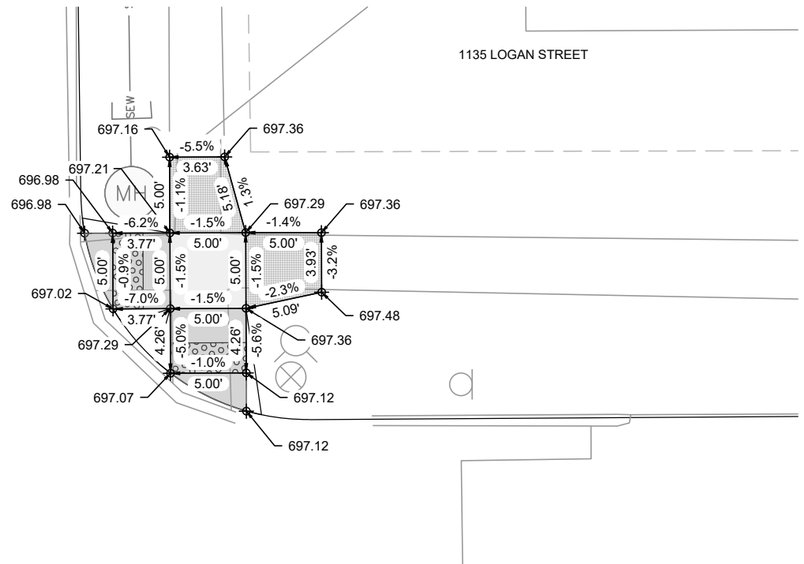
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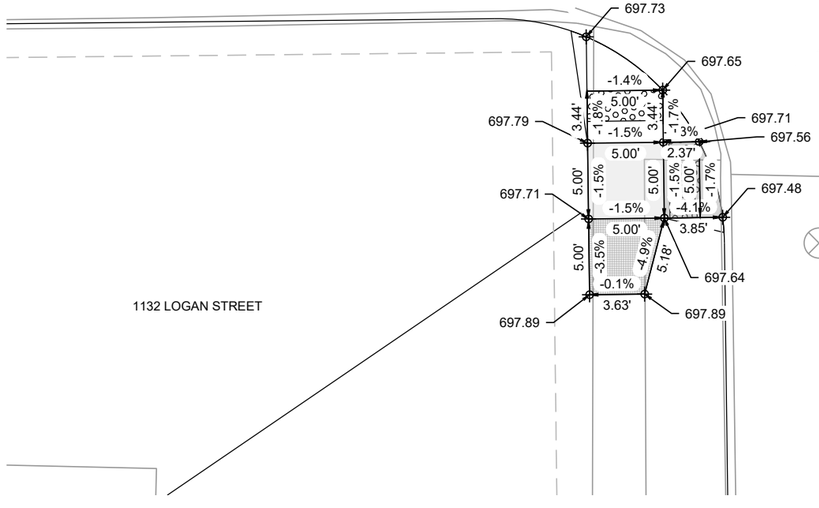
S.07

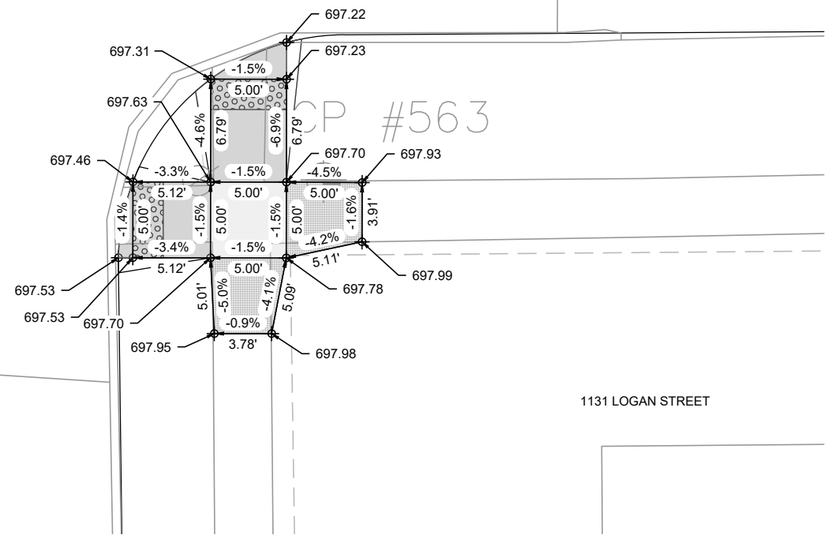
CADD D3-R5

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NOTES

LEGEND

- ADA TURN SPACE
- ADA RAMP
- ADA TRANSITION
- DETECTABLE WARNING SURFACE

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

ADA SIDEWALK IMPROVEMENTS LOGAN ST & CLIMBER ST

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

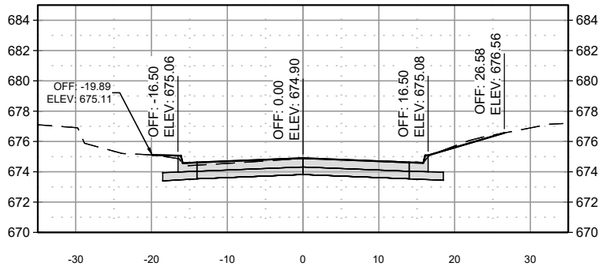
SCALE: 1" = 5'

NO. 17660.60.40	REV.
S.08	0

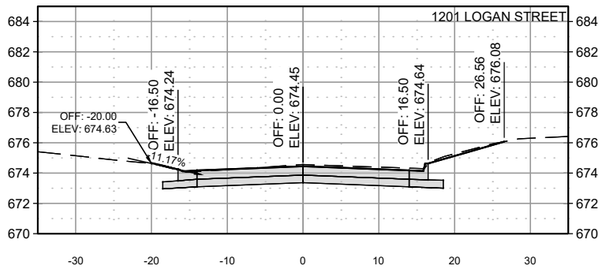
AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5
STANLEY CONSULTANTS

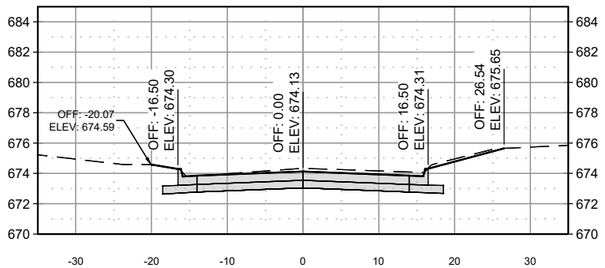
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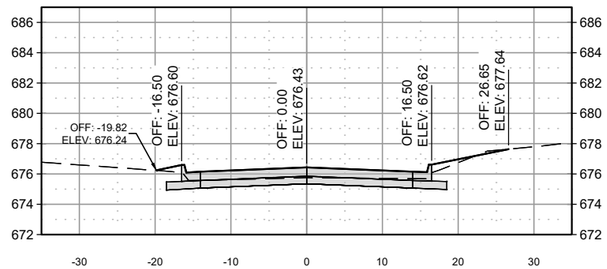
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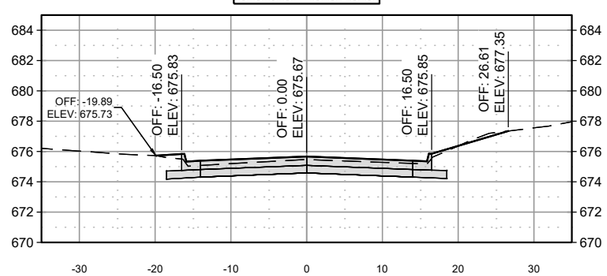
3305+00.00



3305+75.00



3305+50.00



NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS LOGAN ST (NORTH)

AT FULL SIZE

0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

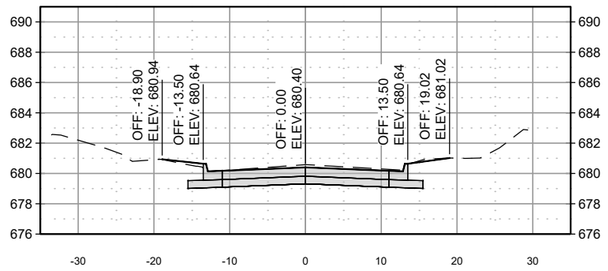
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NO.	REV.
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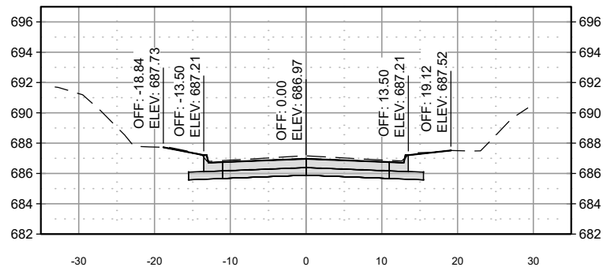
CADD D3-R5

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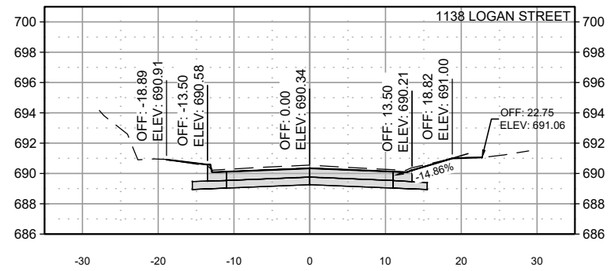
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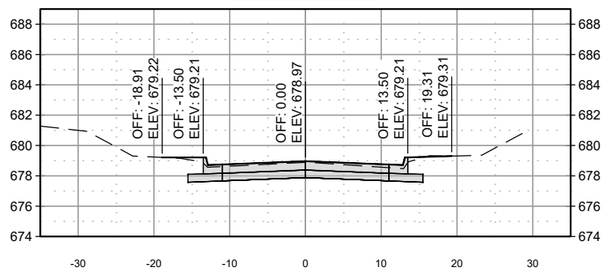
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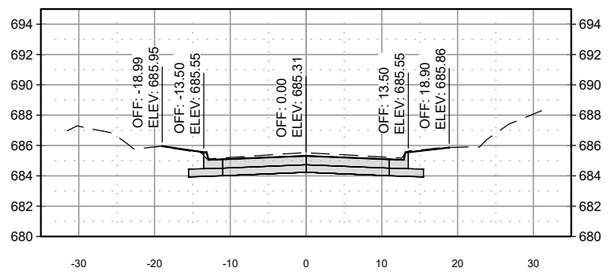
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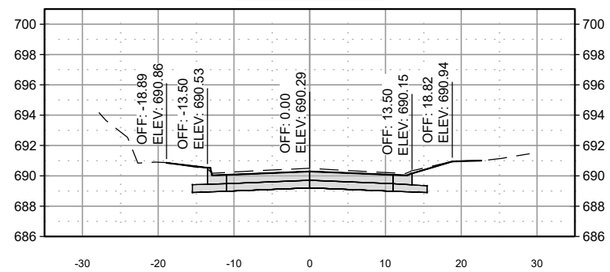
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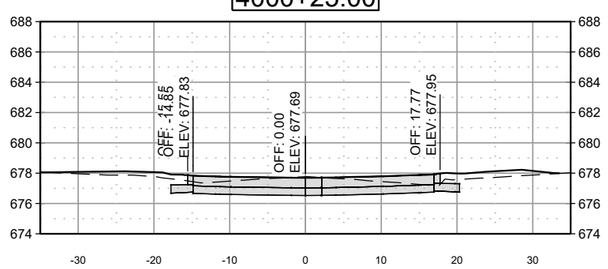
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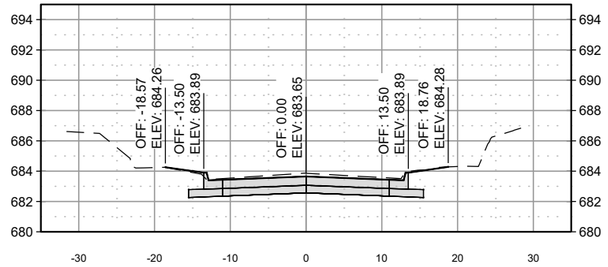
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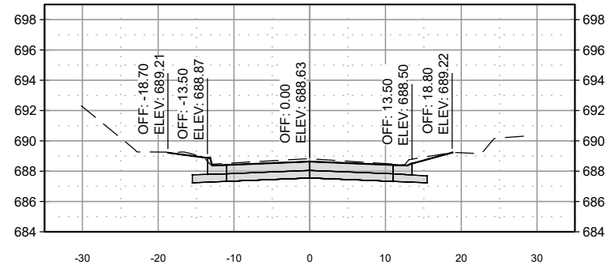
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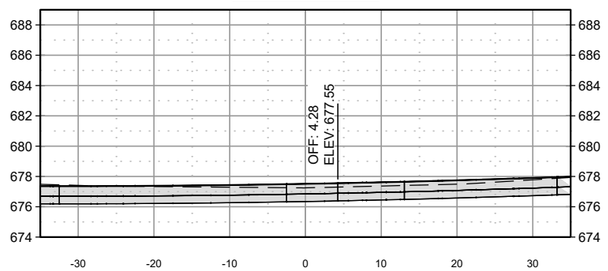
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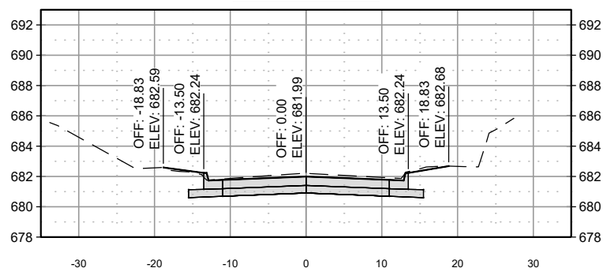
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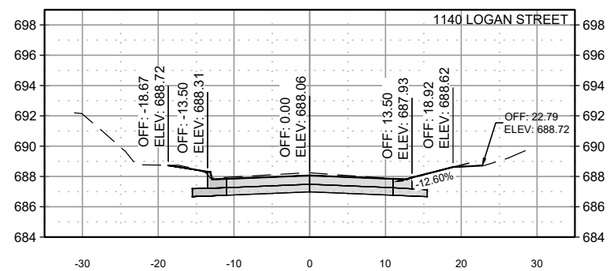
4000+00.00



4001+00.00



4001+91.49



NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS LOGAN ST (SOUTH) SHEET 1

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

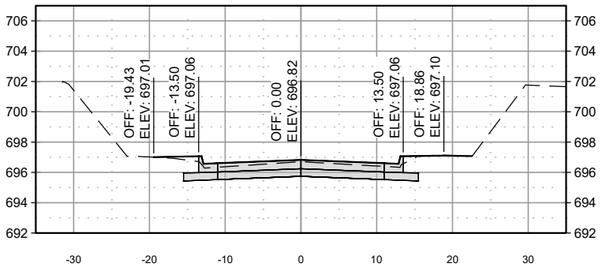
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NO. 17660.60.40	REV.
W.02	0

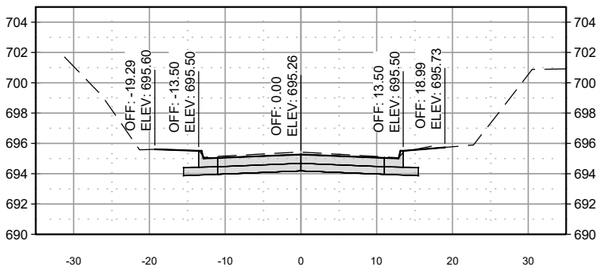
CADD D3-R5

© STANLEY CONSULTANTS

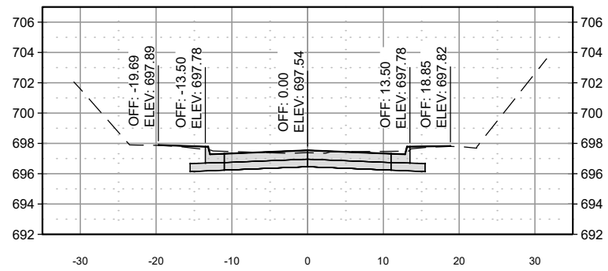
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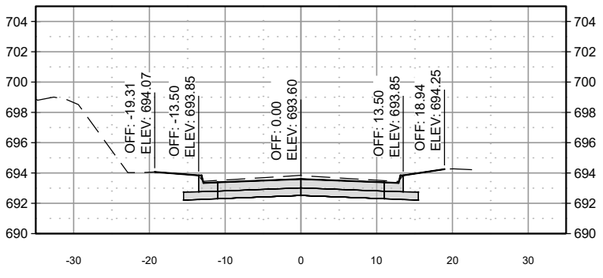
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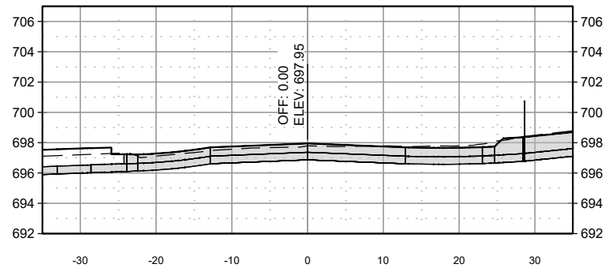
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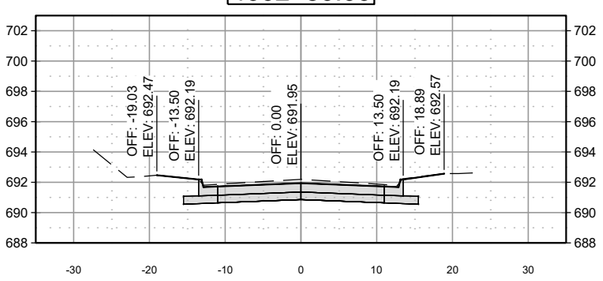
4002+75.00



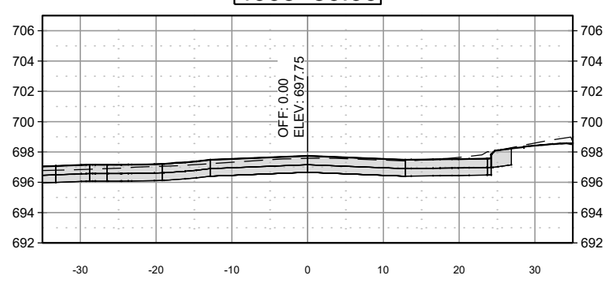
4003+75.00



4002+50.00



4003+50.00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS LOGAN ST (SOUTH) SHEET 2

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

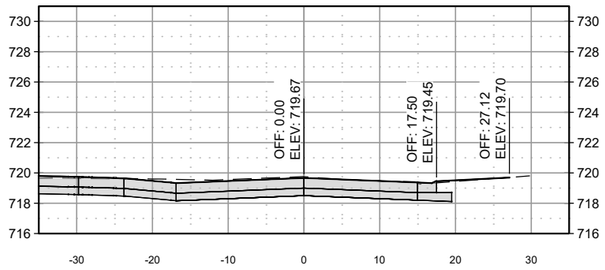
NO. 17660.60.40

REV. 0

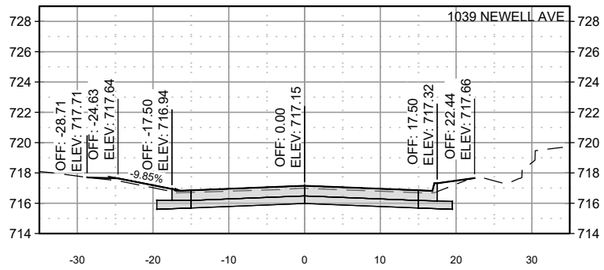
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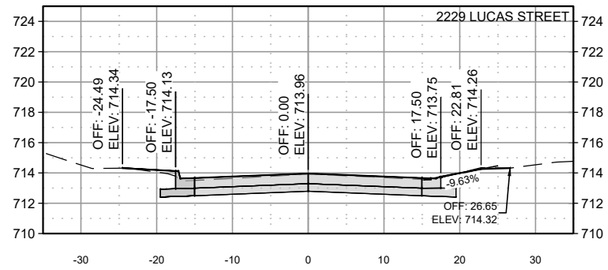
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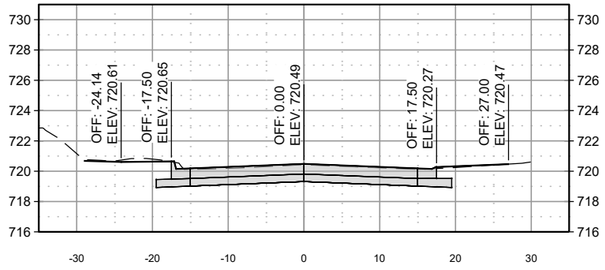
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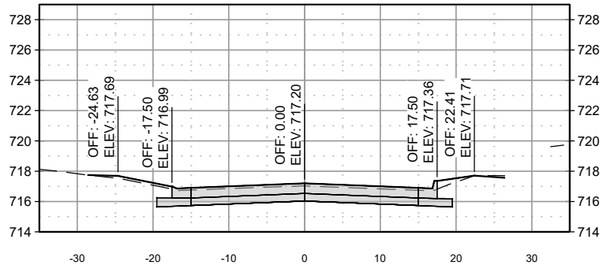
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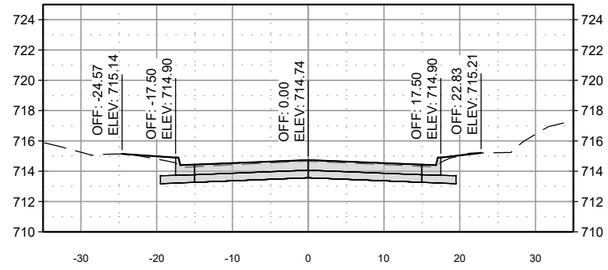
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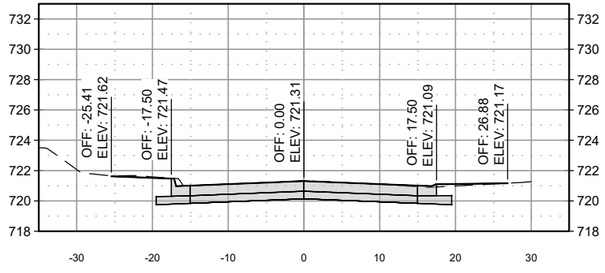
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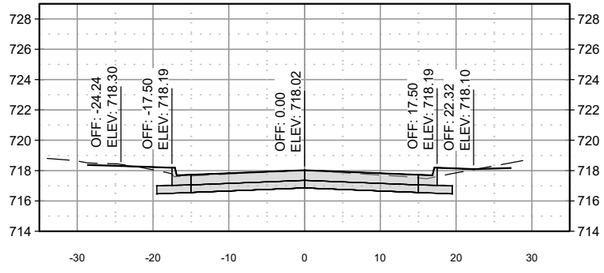
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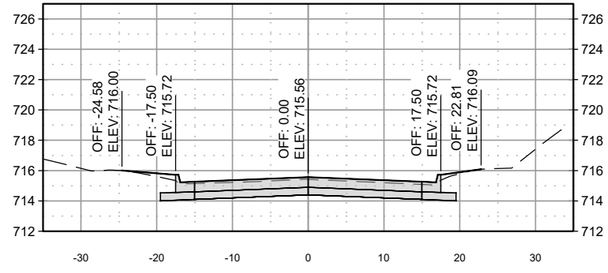
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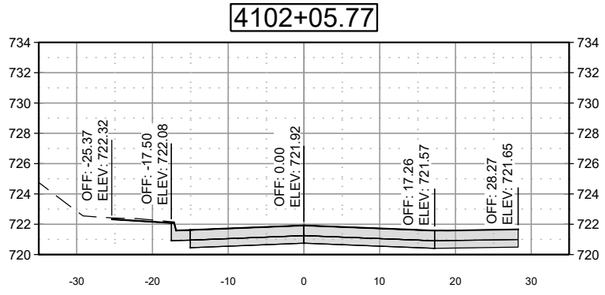
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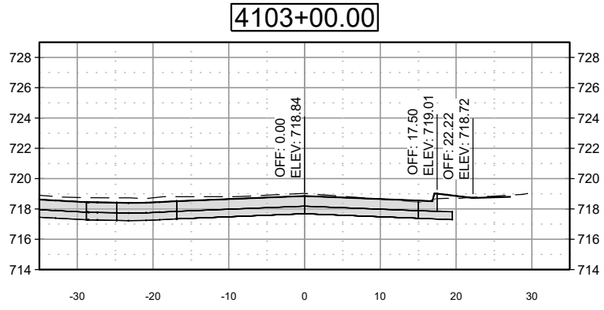
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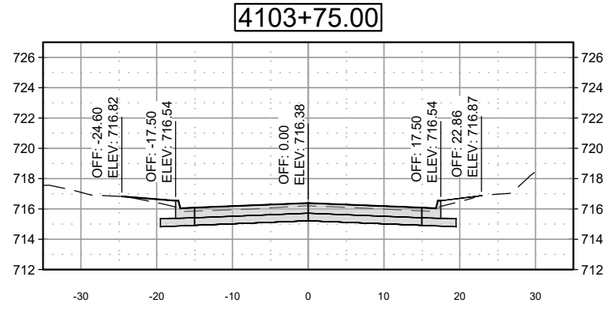
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4103+00.00



4103+75.00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
NEWELL AVE
SHEET 1

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

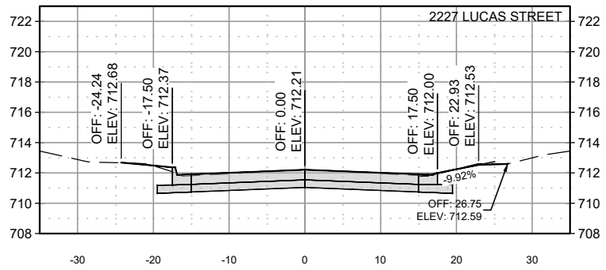
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NO. 17660.60.40	REV.
W.04	0

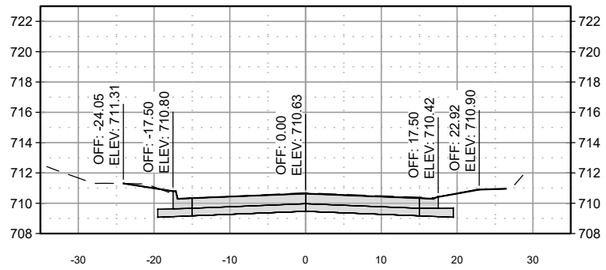
CADD D3-R5

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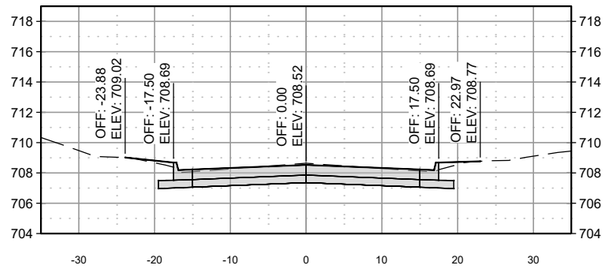
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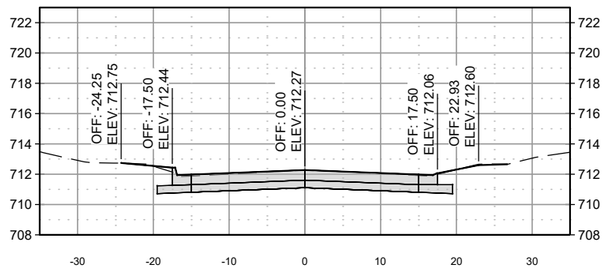
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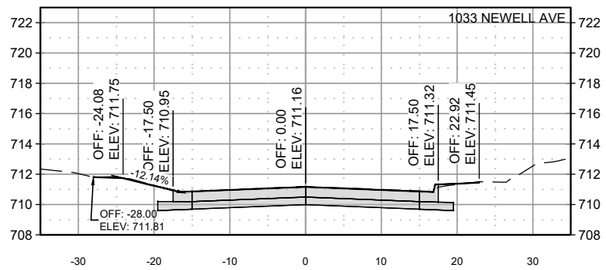
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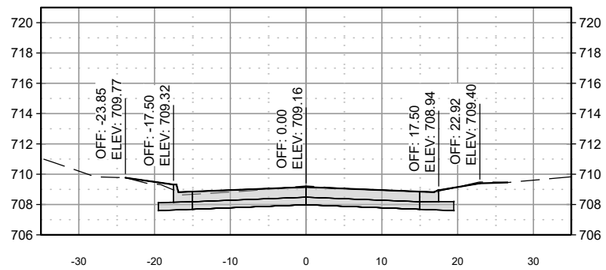
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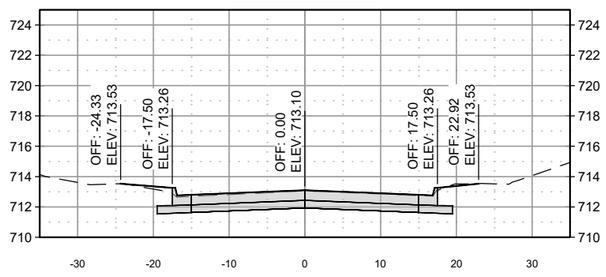
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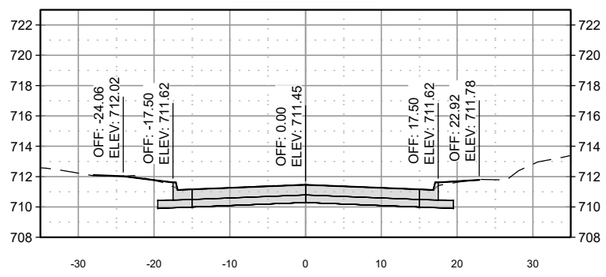
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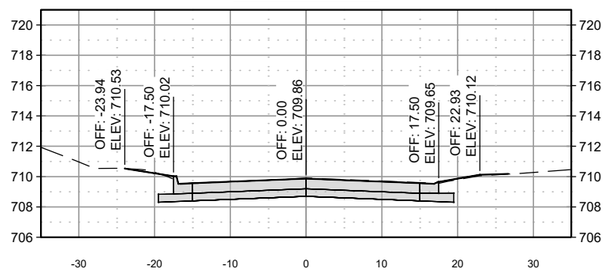
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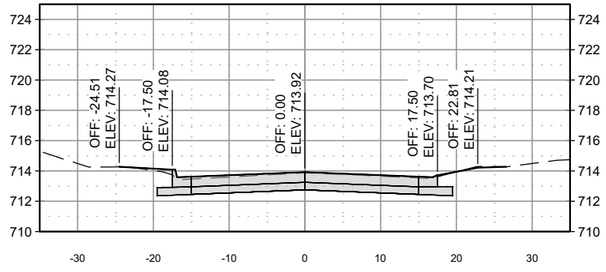
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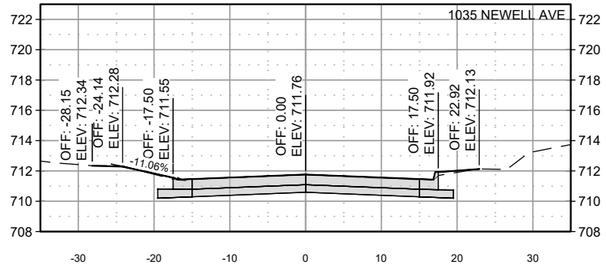
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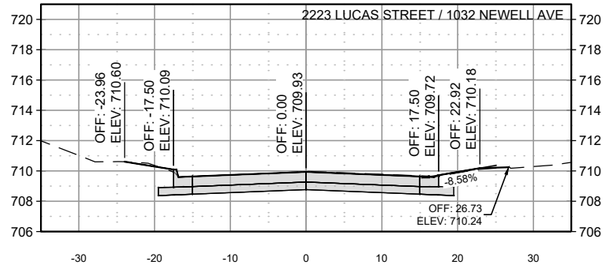
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4105+15.72



4105+72.61



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS NEWELL AVE SHEET 2

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

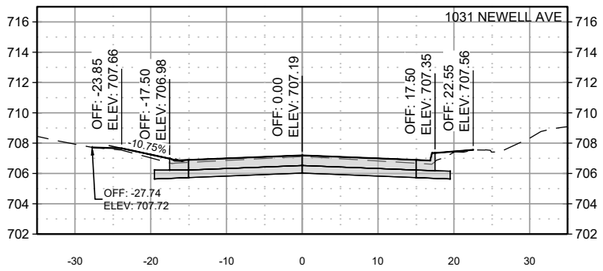
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NO. 17660.60.40	REV.
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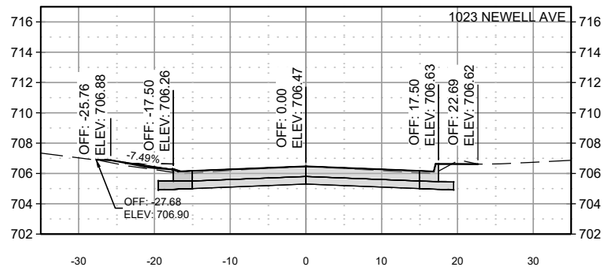
CADD D3-R5

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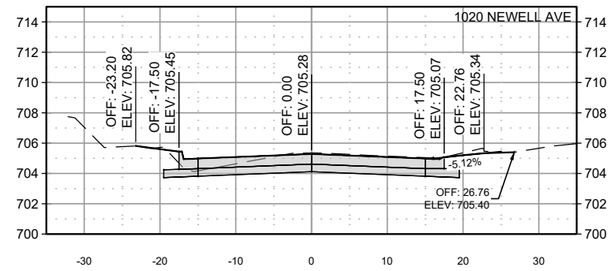
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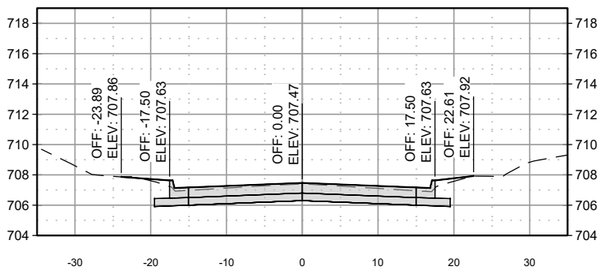
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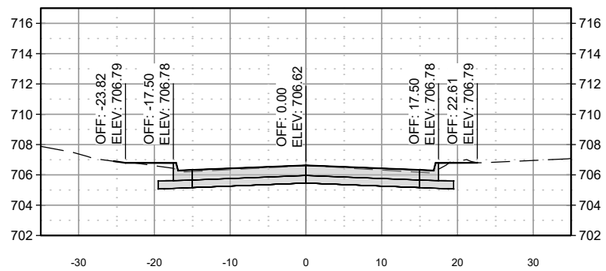
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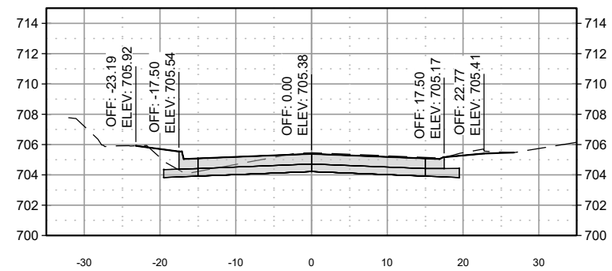
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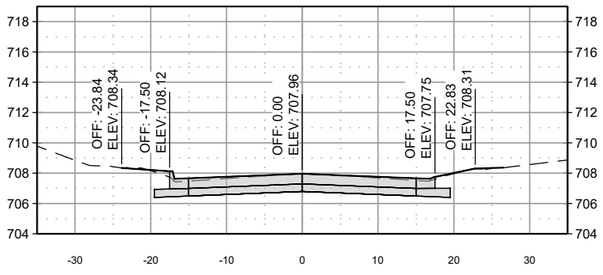
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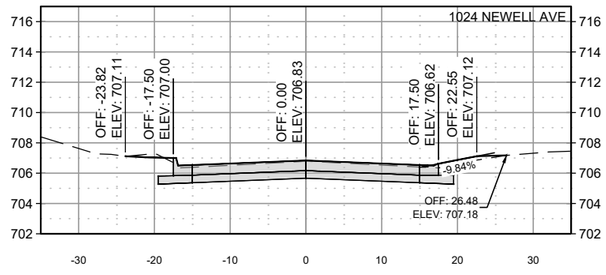
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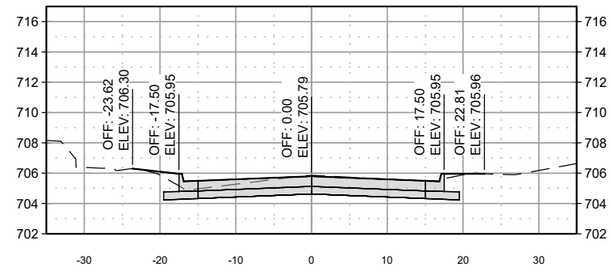
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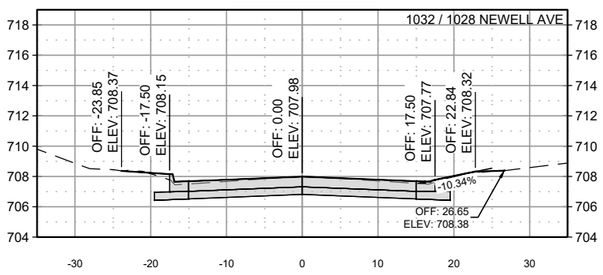
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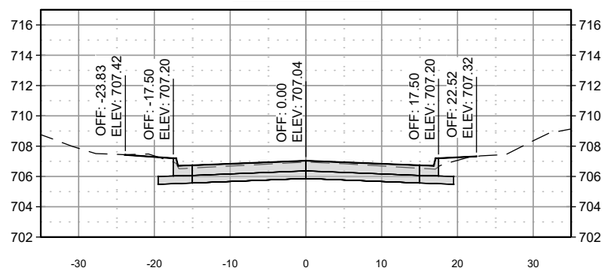
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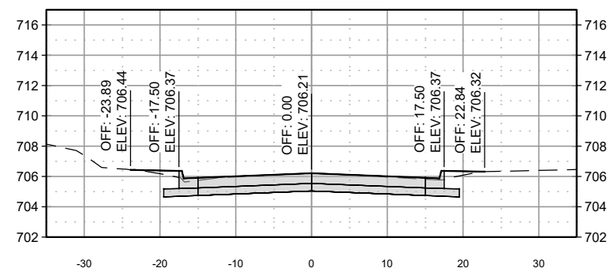
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4107+00.00



4107+50.00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
NEWELL AVE
SHEET 3

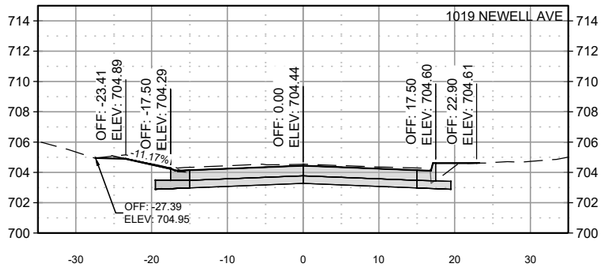
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

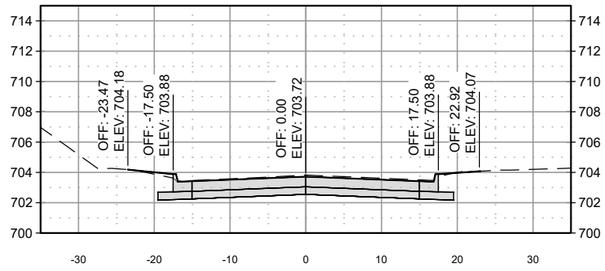
NO. 17660.60.40	REV.
W.06	0

CADD D3-R5

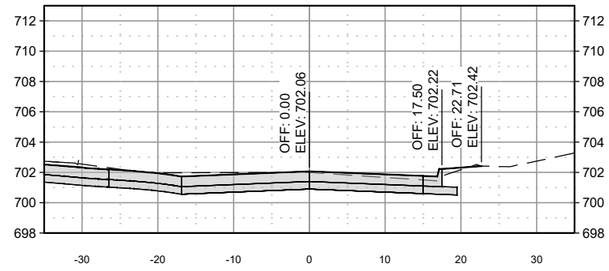
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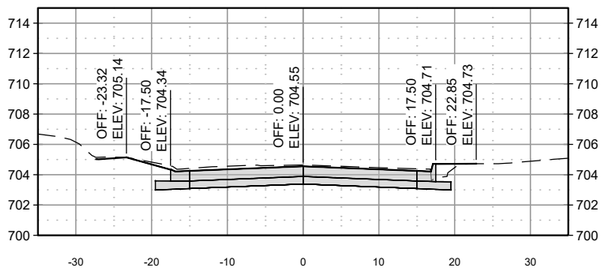
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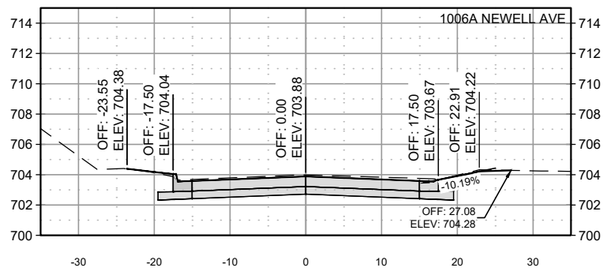
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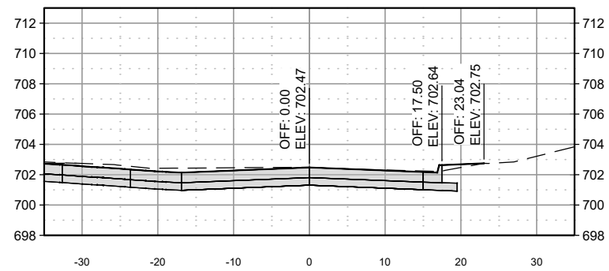
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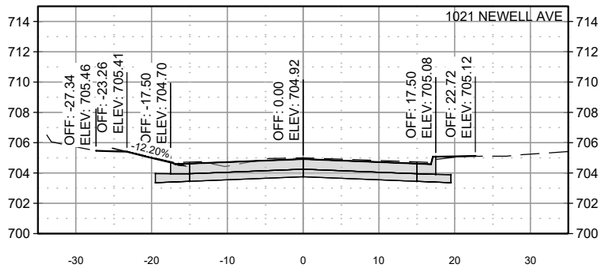
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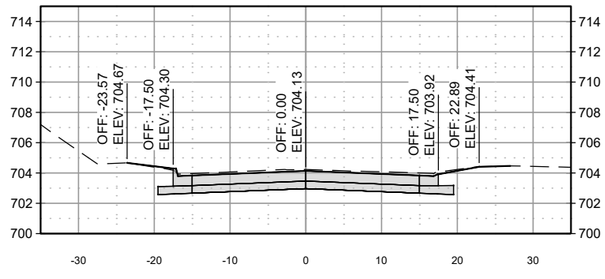
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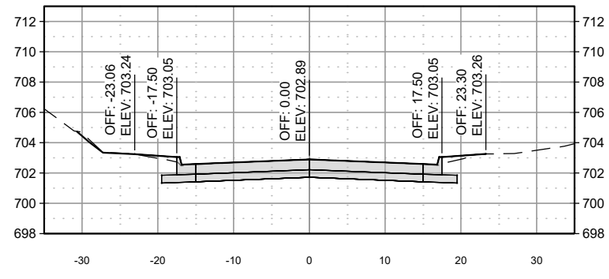
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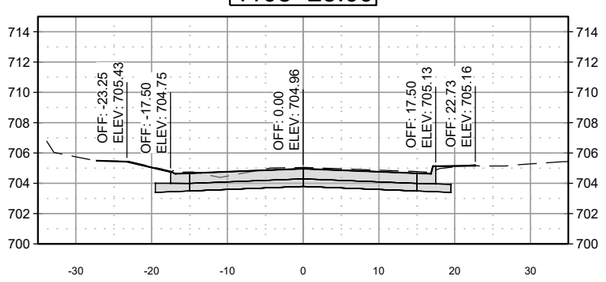
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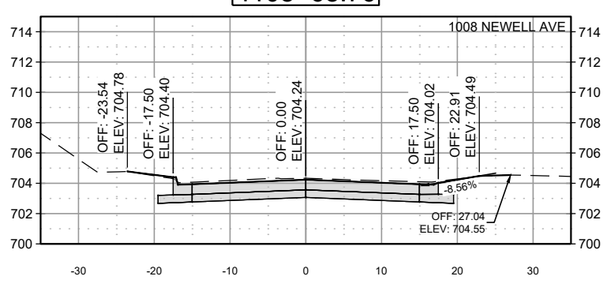
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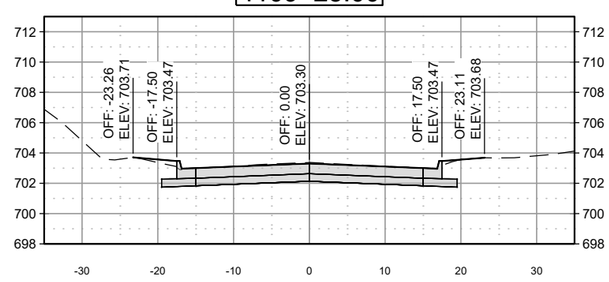
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4108+68.76



4109+25.00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

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www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS NEWELL AVE SHEET 4

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

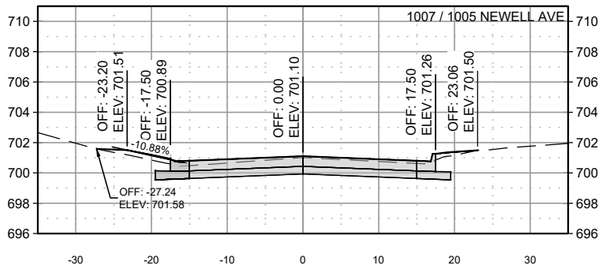
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NO. 17660.60.40 | REV. W.07 | 0

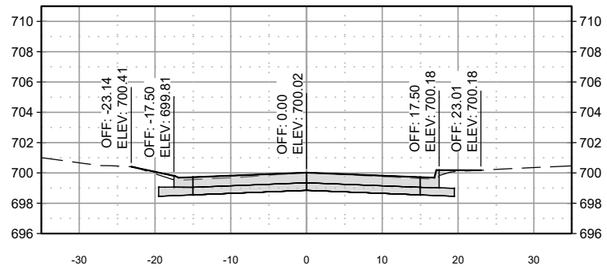
CADD D3-R5

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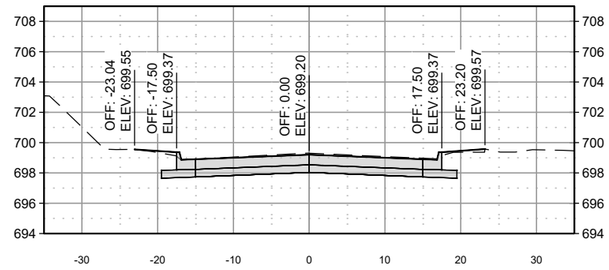
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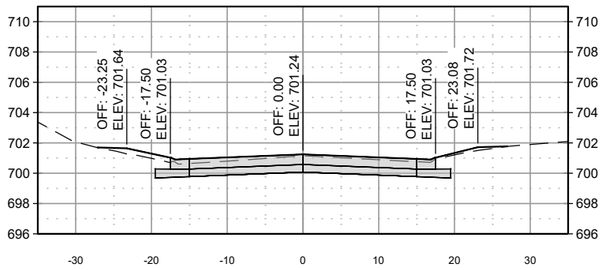
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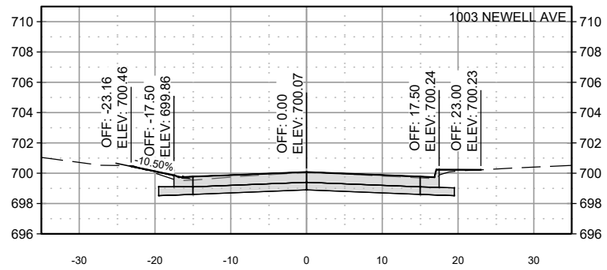
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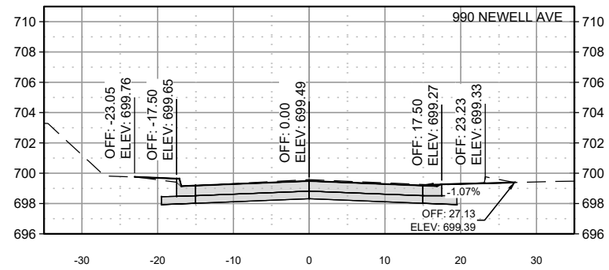
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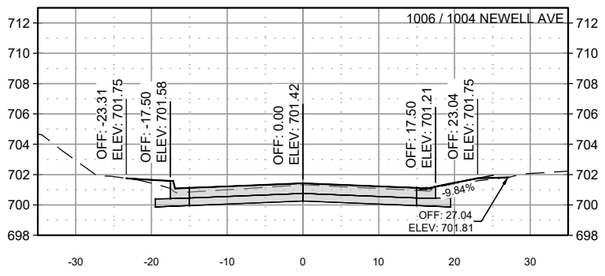
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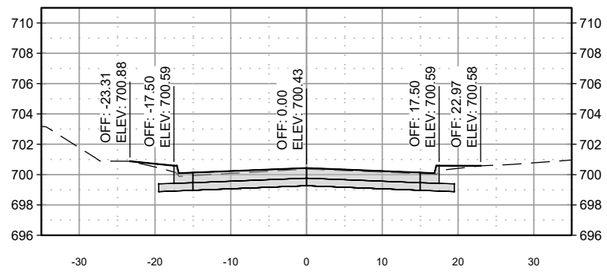
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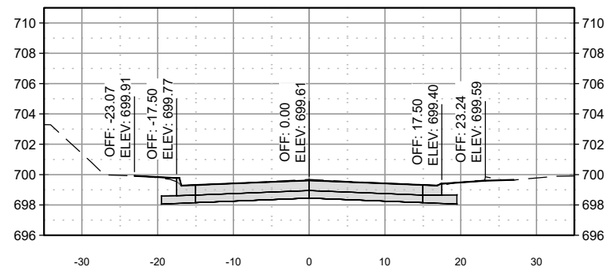
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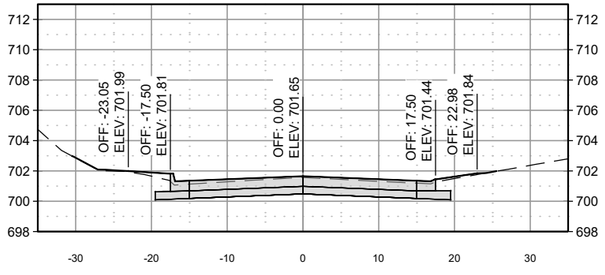
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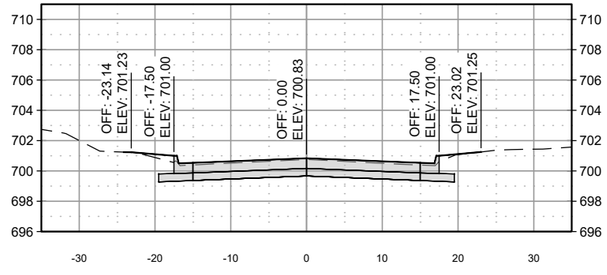
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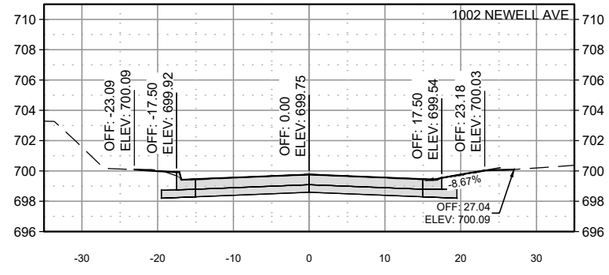
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4110+75.00



4111+41.21



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
NEWELL AVE
SHEET 5

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

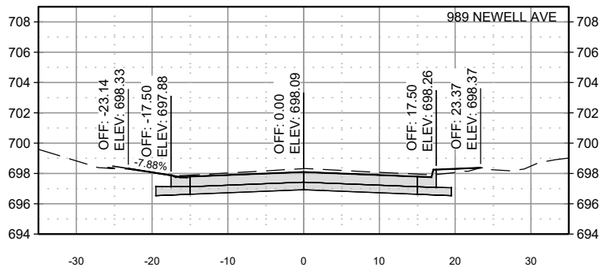
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NO. 17660.60.40	REV.
W.08	0

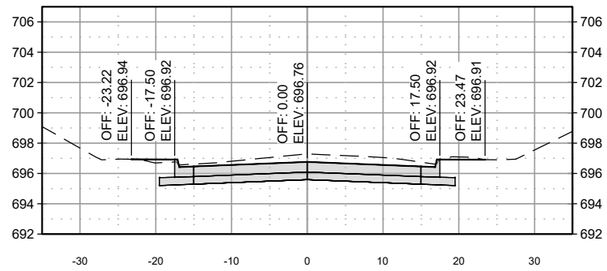
CADD D3-R5

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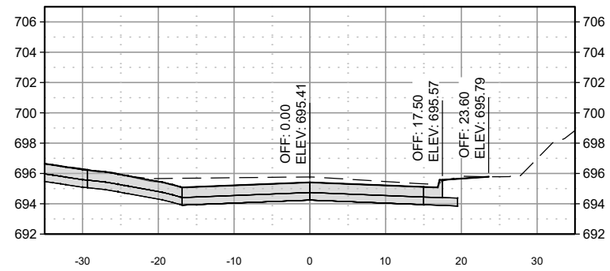
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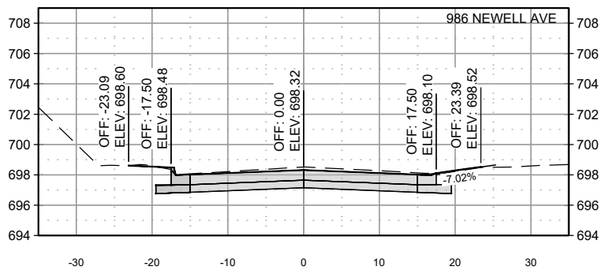
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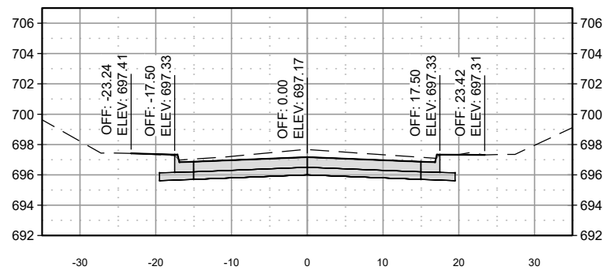
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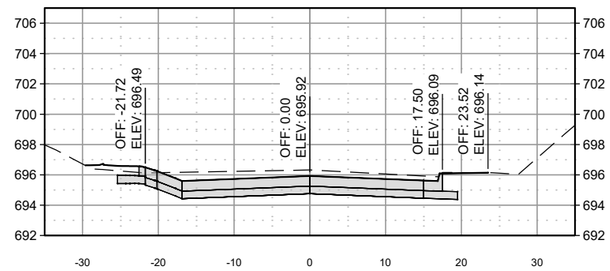
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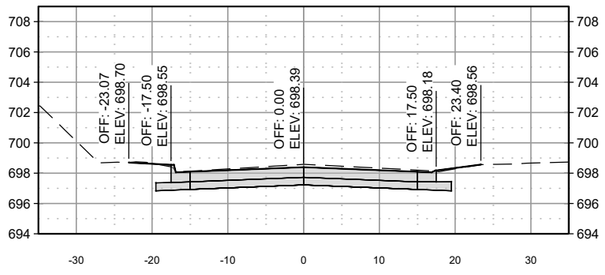
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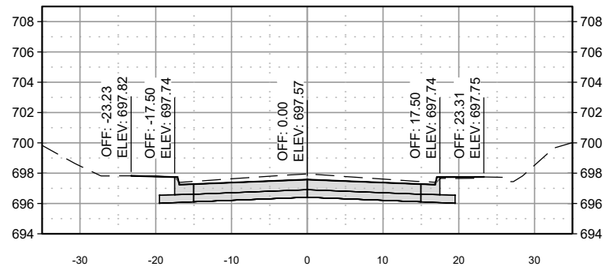
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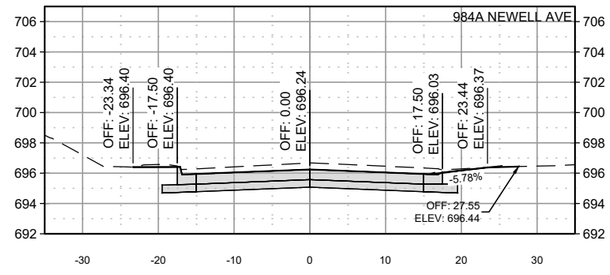
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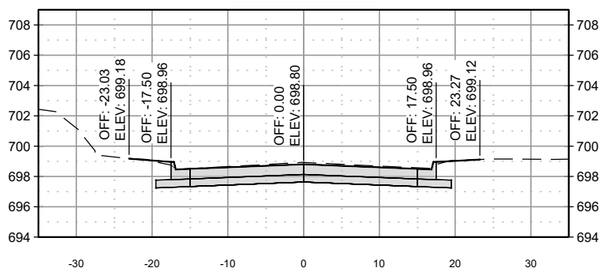
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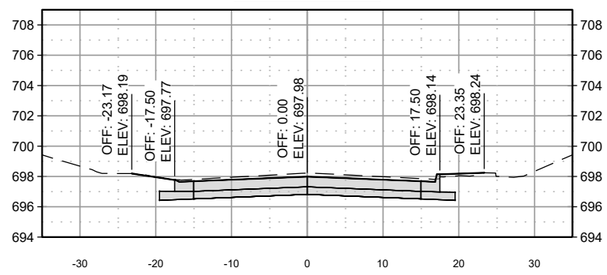
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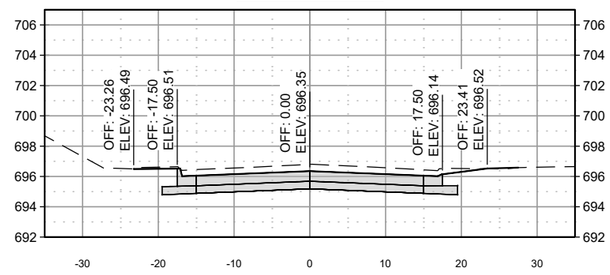
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4112+50.00



4113+50.00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
NEWELL AVE
SHEET 6

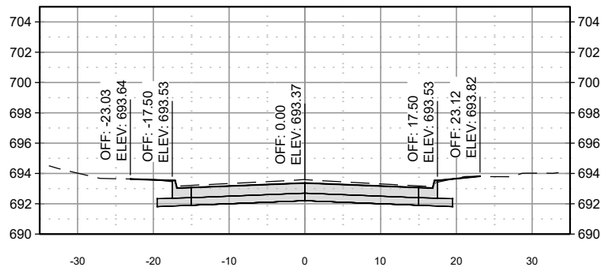
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

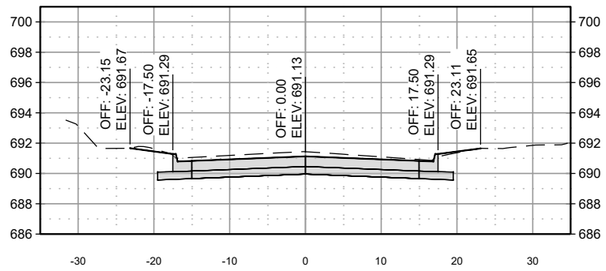
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W.09	0

CADD D3-R5

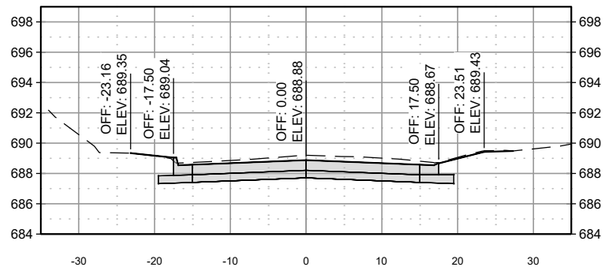
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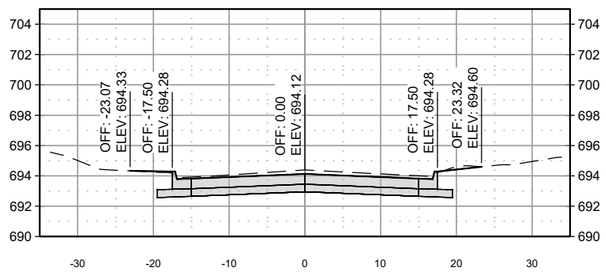
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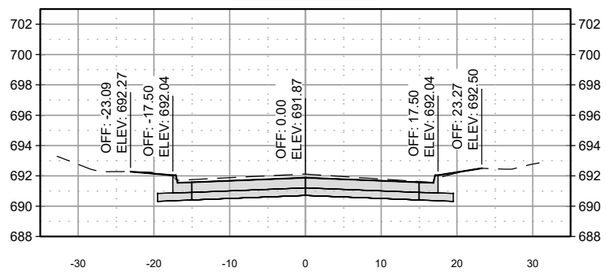
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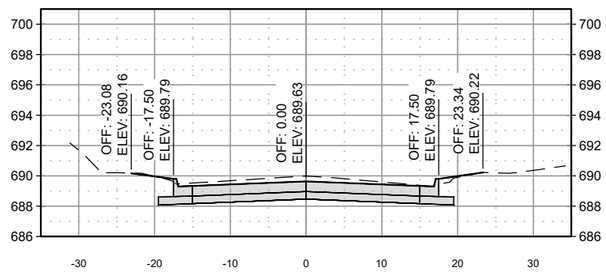
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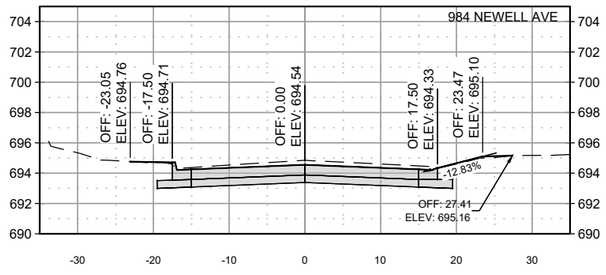
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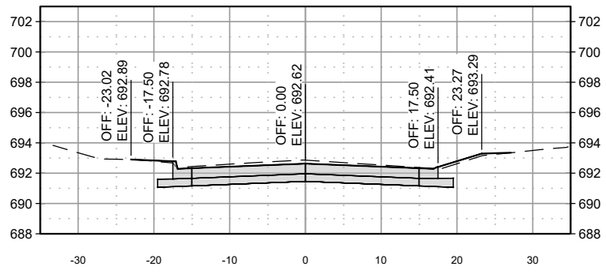
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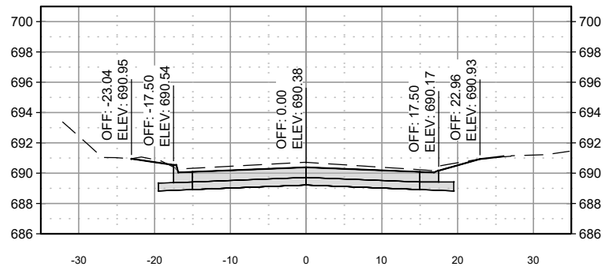
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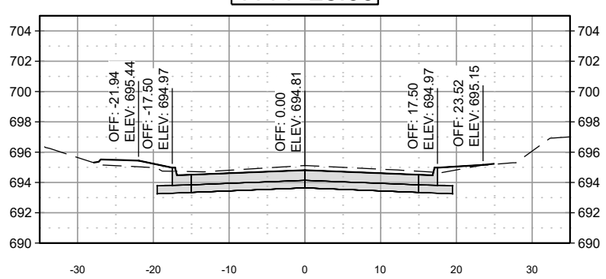
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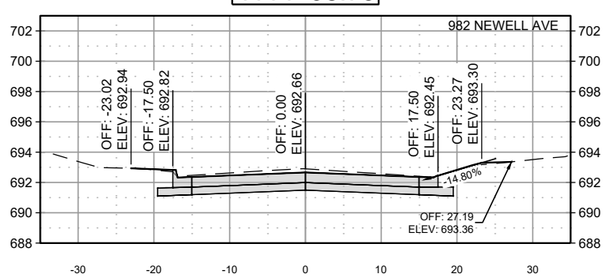
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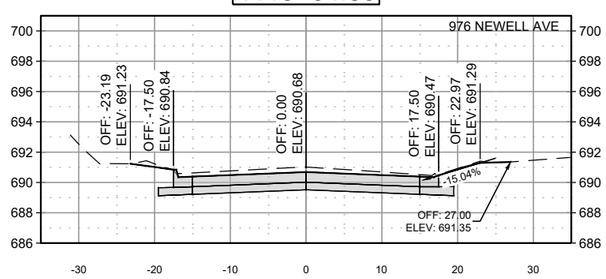
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4115+64.83



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
NEWELL AVE
SHEET 7

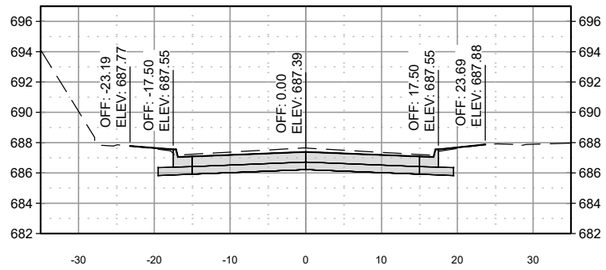
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

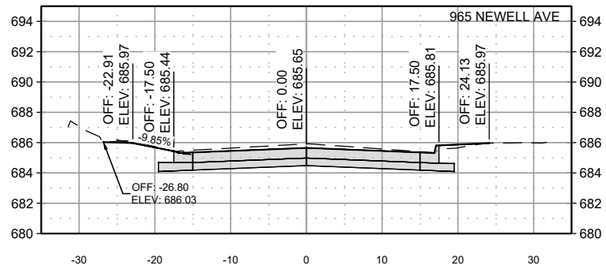
NO. 17660.60.40 | REV. W.10 | 0

CADD D3-R5

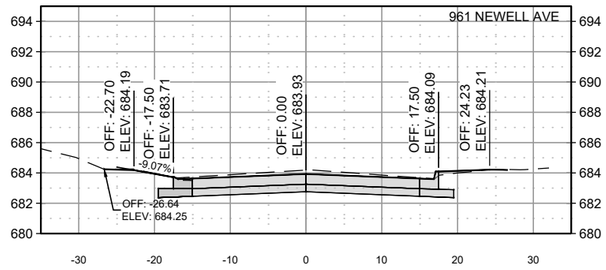
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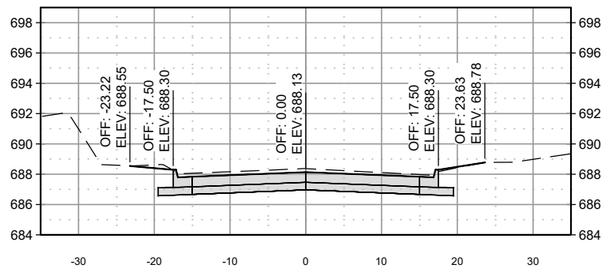
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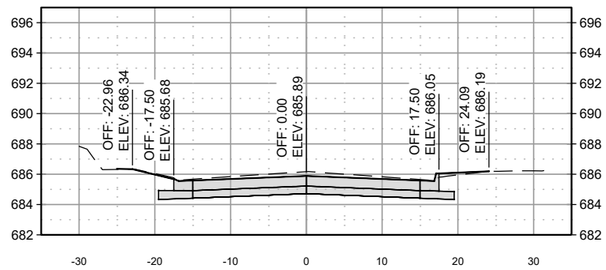
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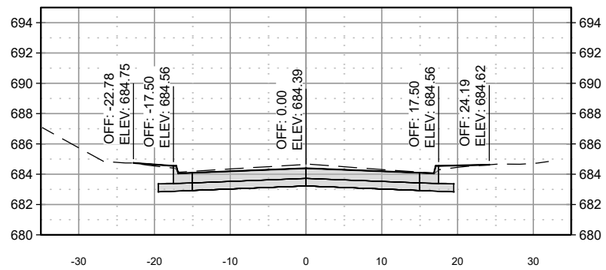
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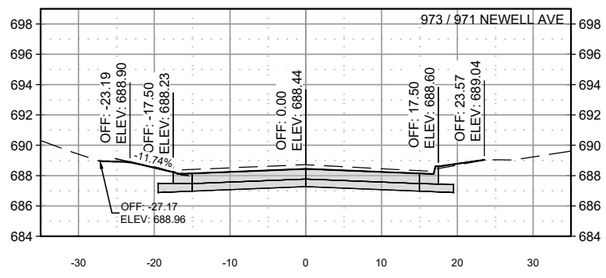
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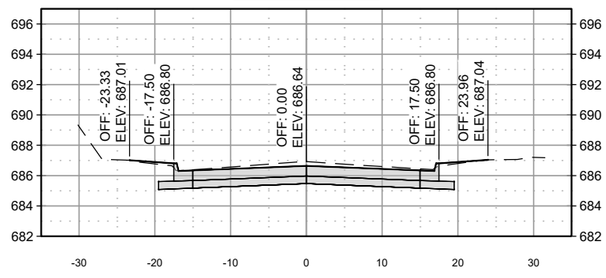
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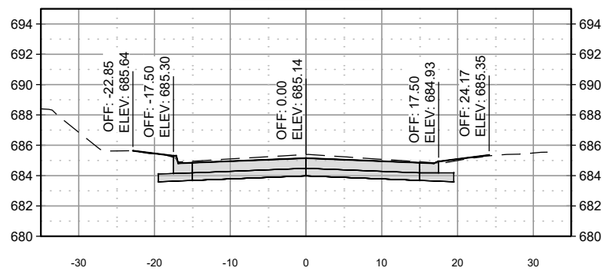
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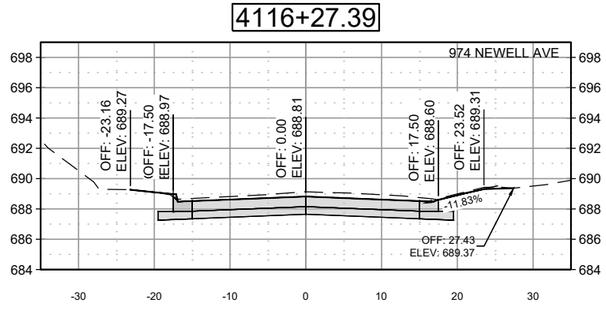
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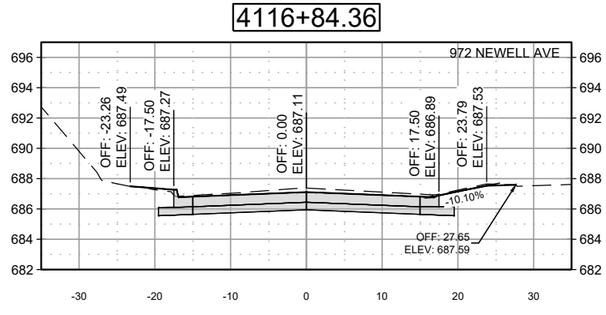
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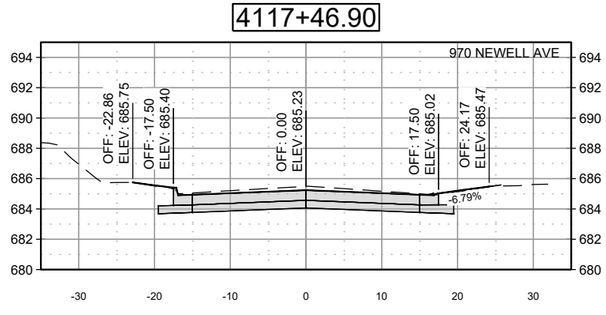
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4117+46.90



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS NEWELL AVE SHEET 8

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

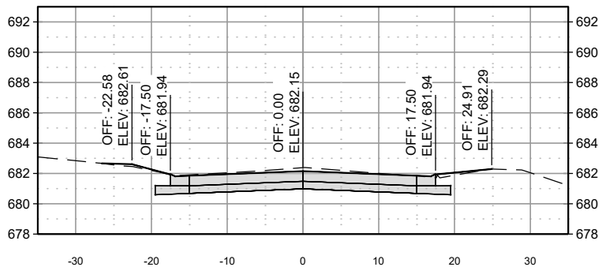
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NO. 17660.60.40	REV.
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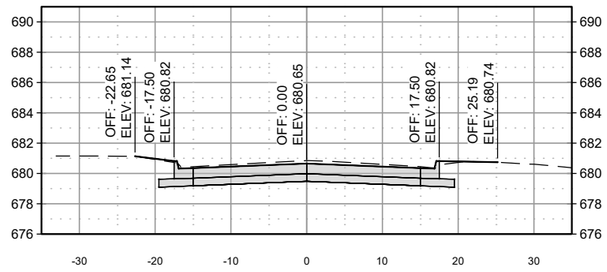
CADD D3-R5

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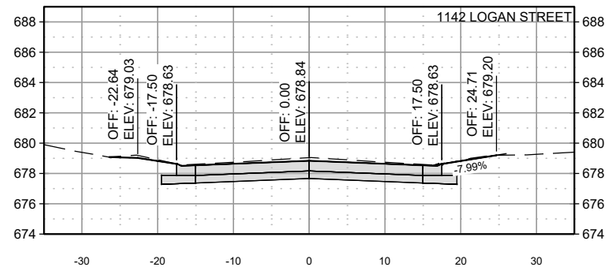
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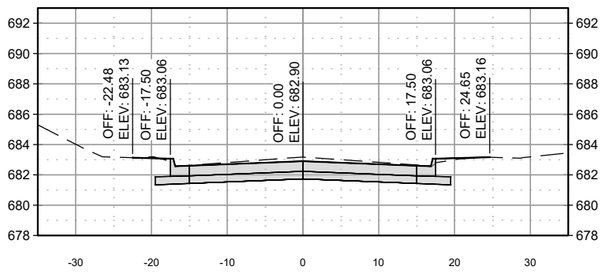
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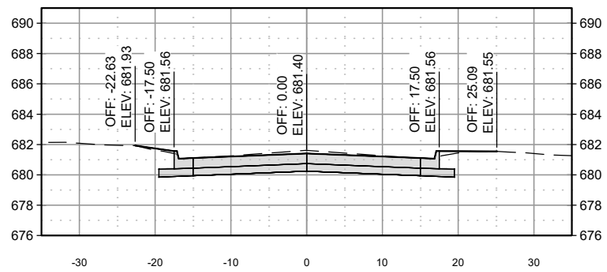
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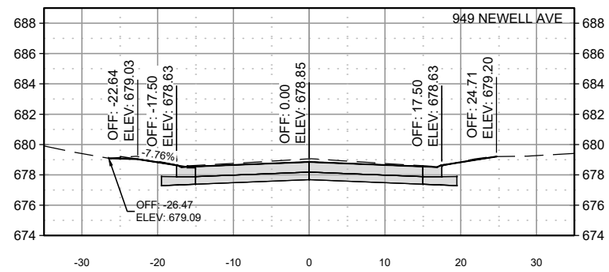
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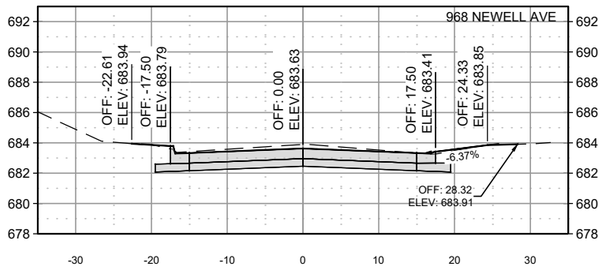
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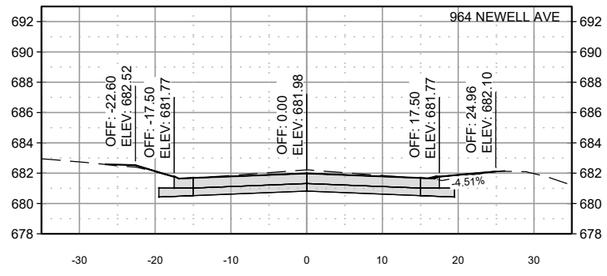
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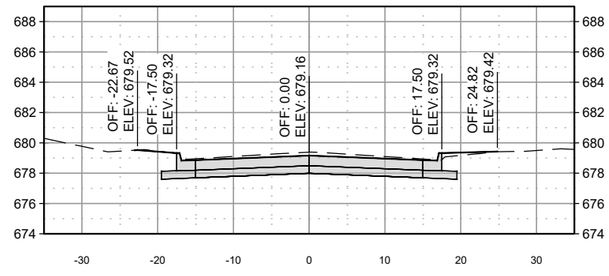
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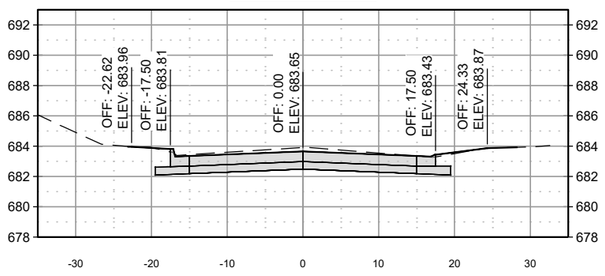
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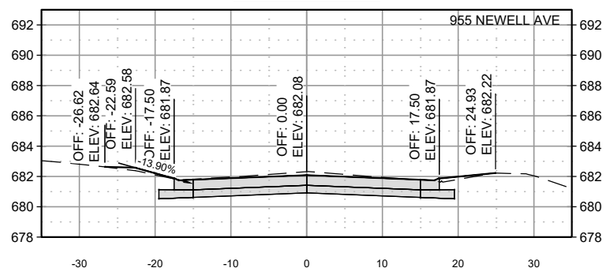
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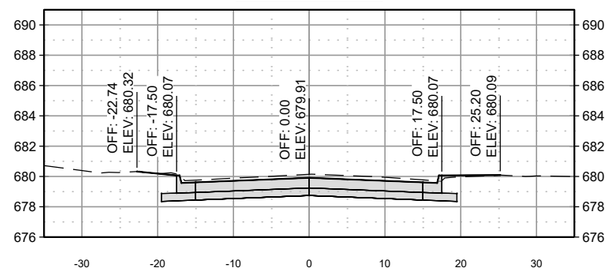
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4118+52.29



4119+25.00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
NEWELL AVE
SHEET 9

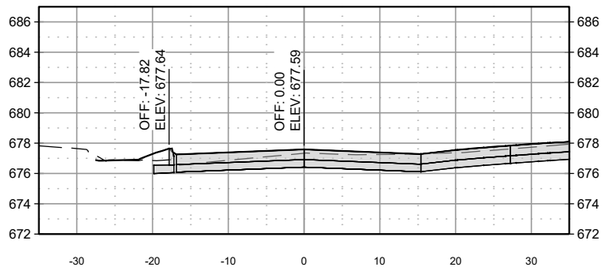
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

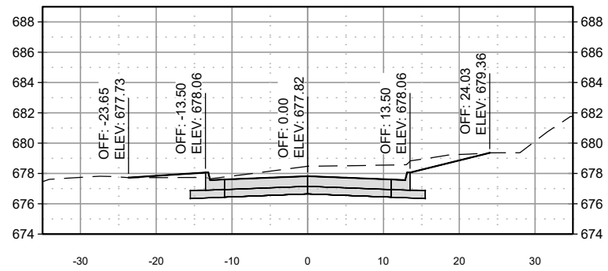
NO. 17660.60.40 | REV. W.12 | 0

CADD D3-R5

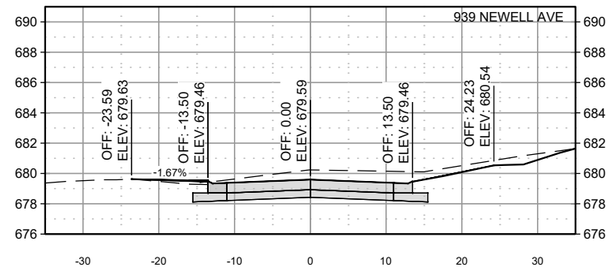
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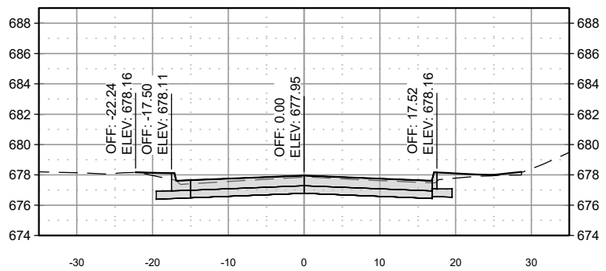
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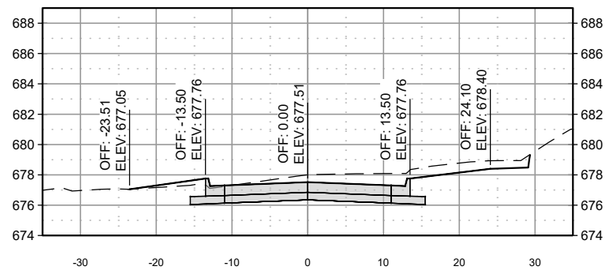
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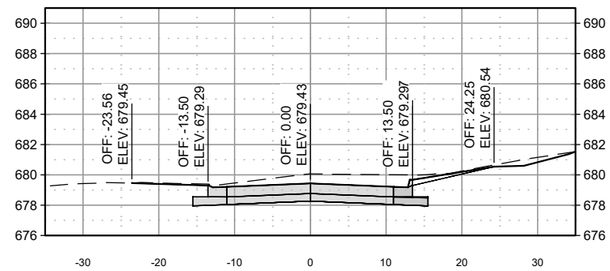
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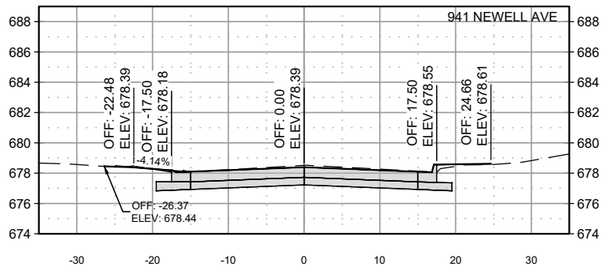
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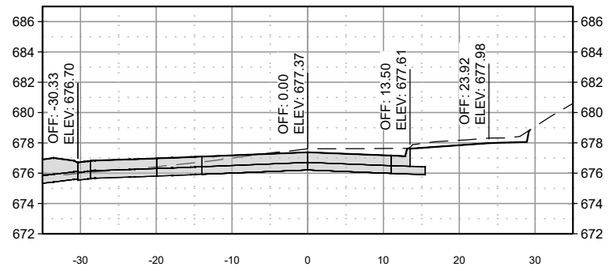
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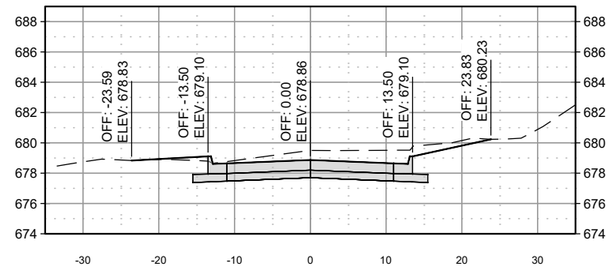
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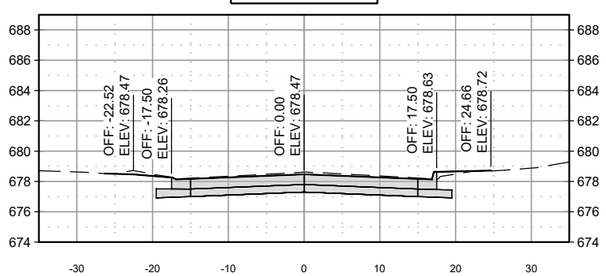
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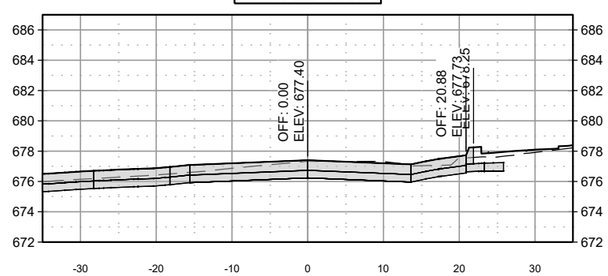
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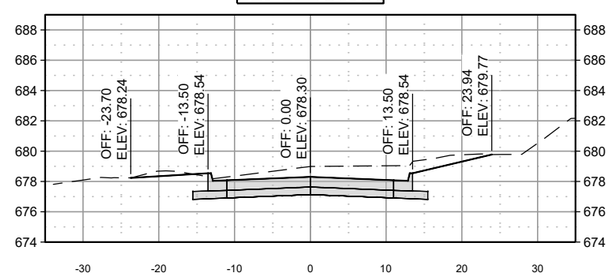
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4120+50.00



4121+50.00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

225 Iowa Avenue, Muscatine, Iowa 52761-3764
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
NEWELL AVE
SHEET 10

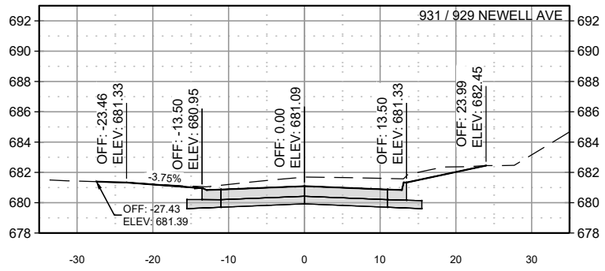
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

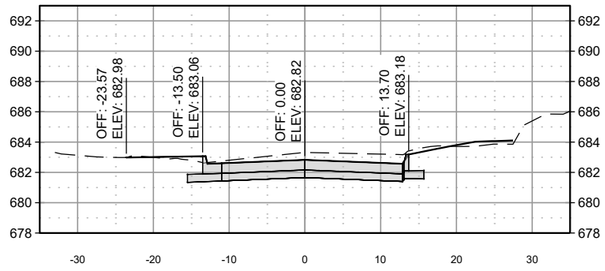
NO. 17660.60.40 | REV. W.13 | 0

CADD D3-R5

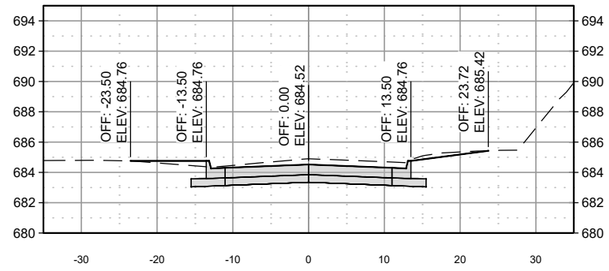
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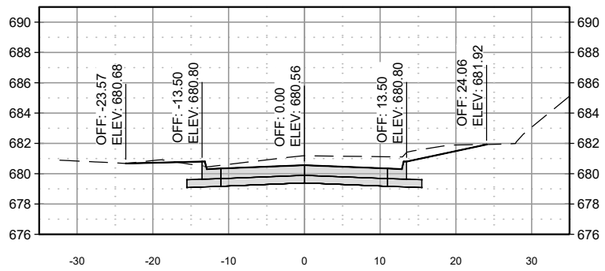
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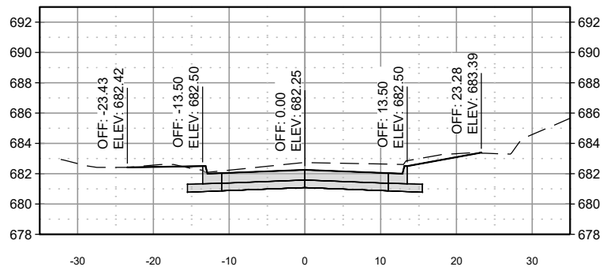
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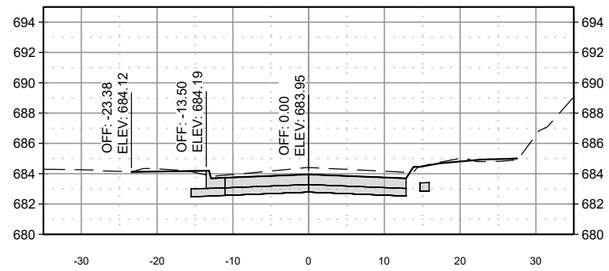
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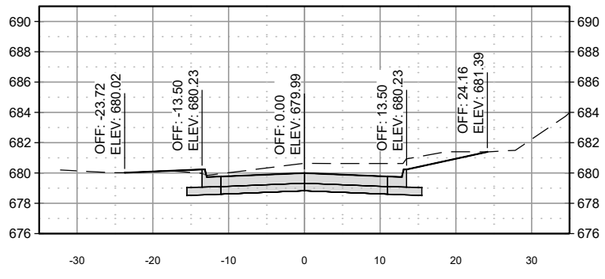
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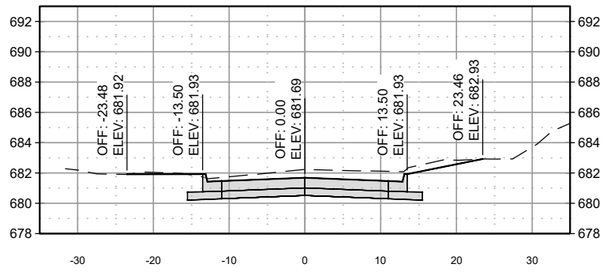
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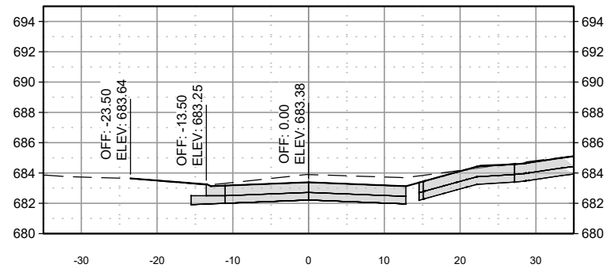
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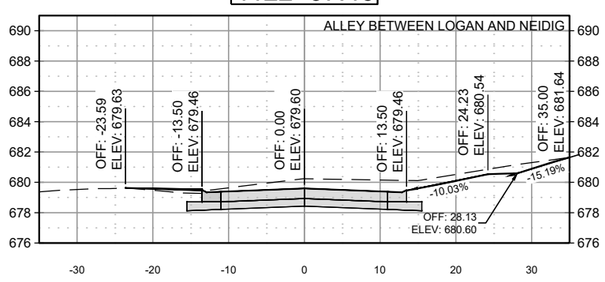
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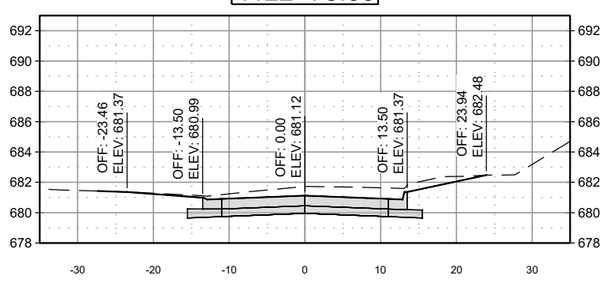
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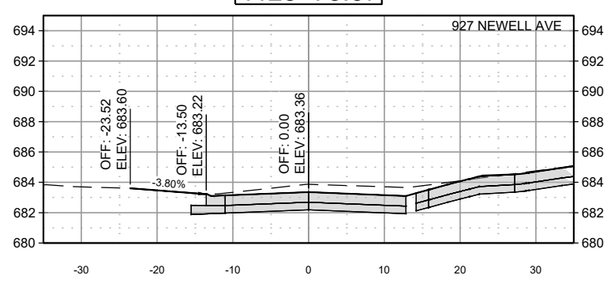
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4122+75.00



4123+73.67



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

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www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS NEWELL AVE SHEET 11

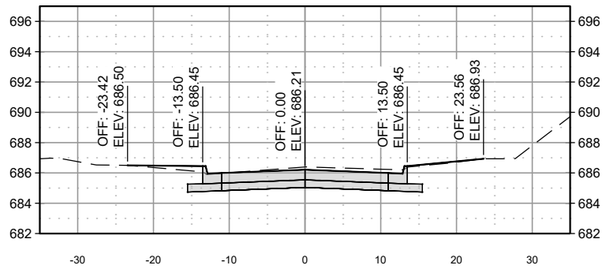
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

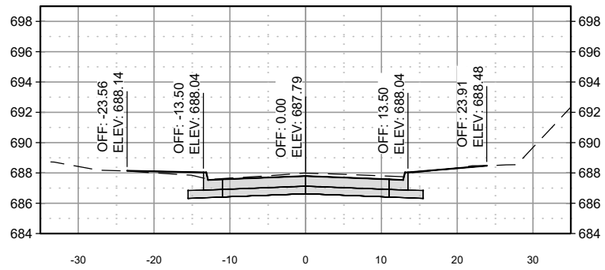
NO. 17660.60.40 | REV. W.14 | 0

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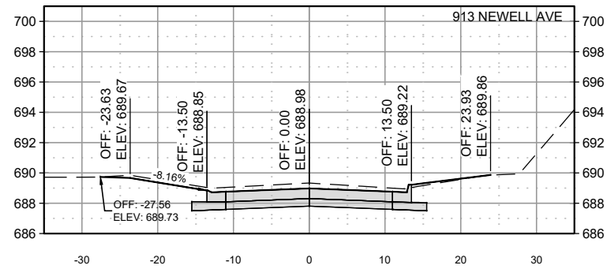
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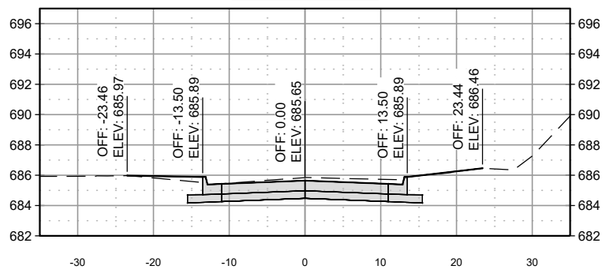
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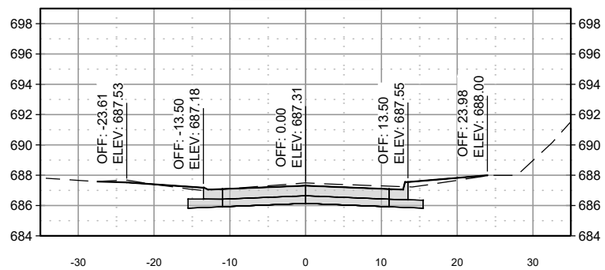
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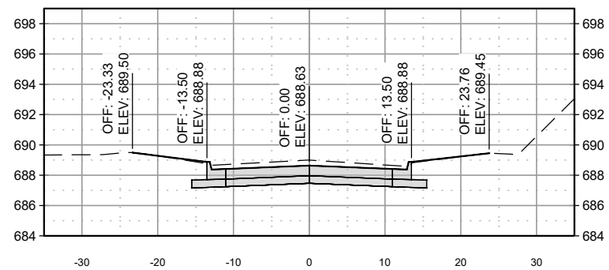
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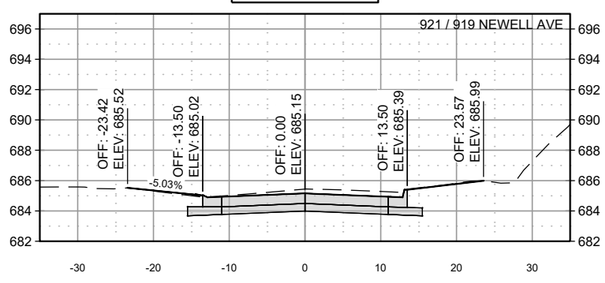
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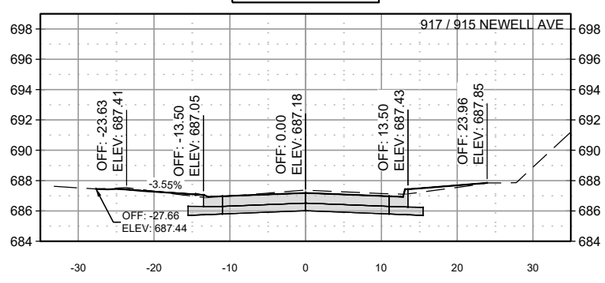
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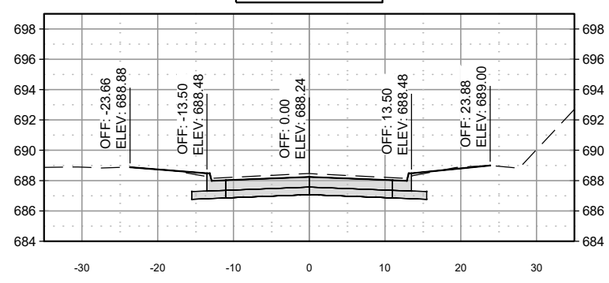
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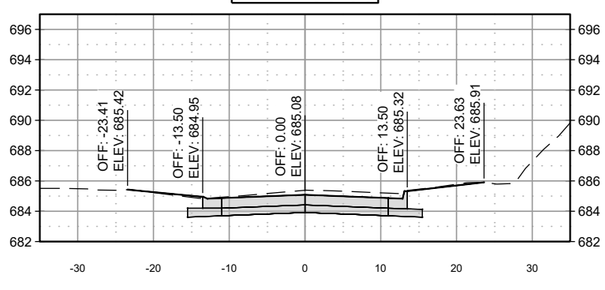
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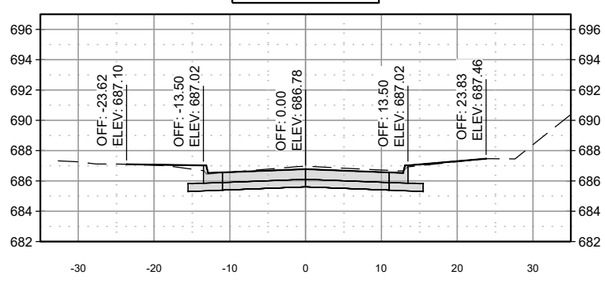
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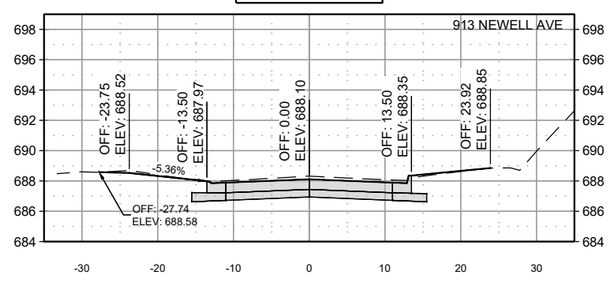
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4125+92.12



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

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www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
NEWELL AVE
SHEET 12

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

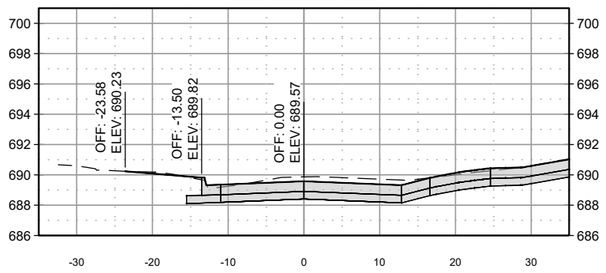
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NO. 17660.60.40 REV. W.15 0

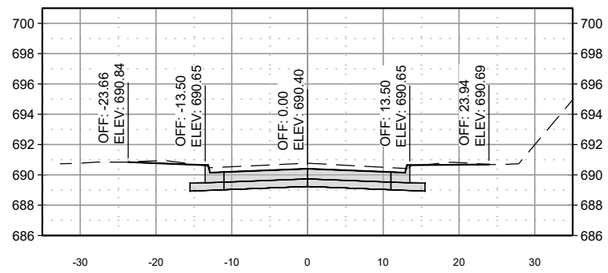
CADD D3-R5

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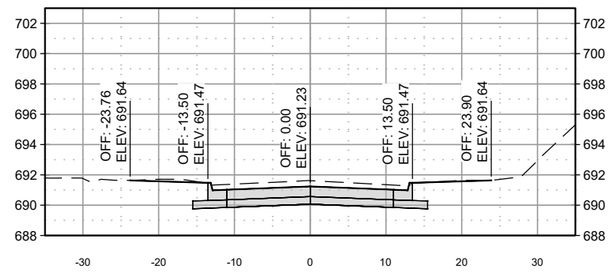
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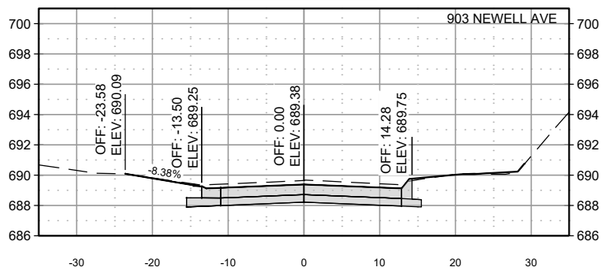
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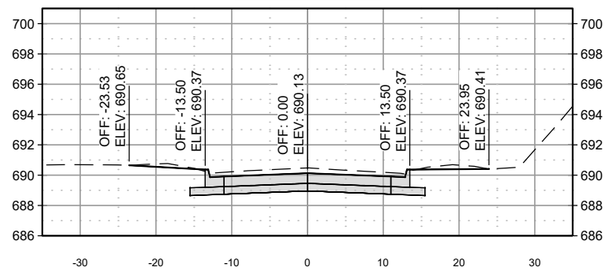
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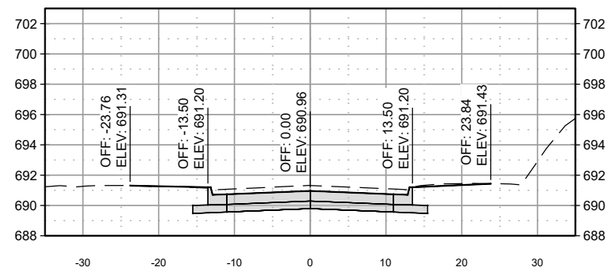
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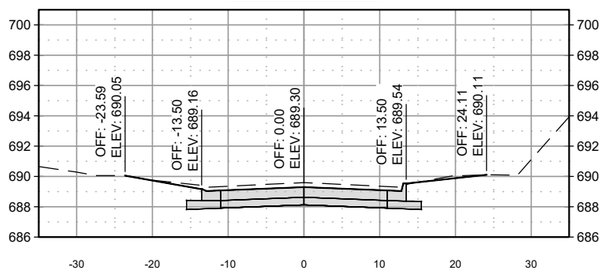
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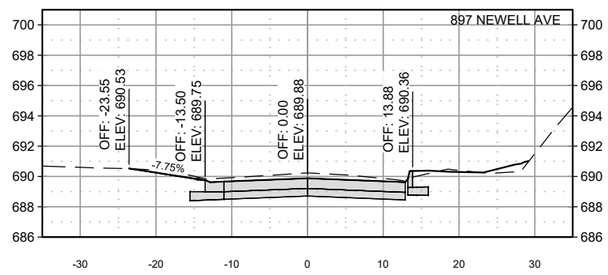
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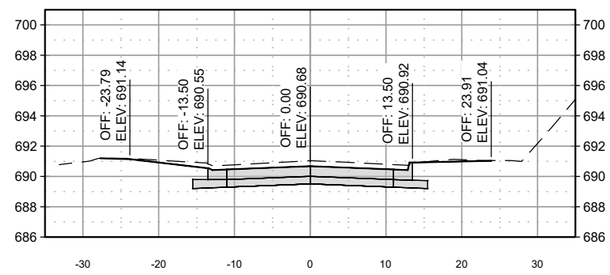
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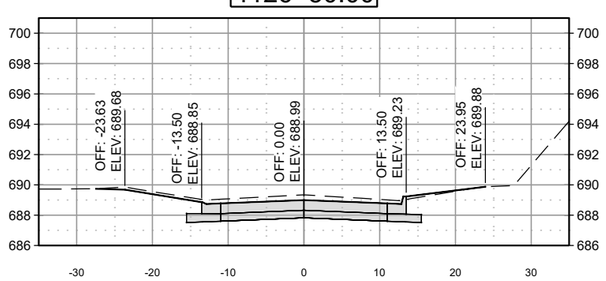
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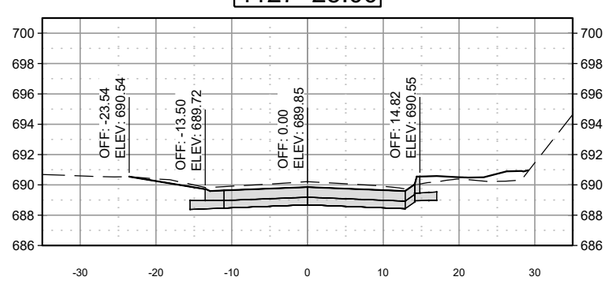
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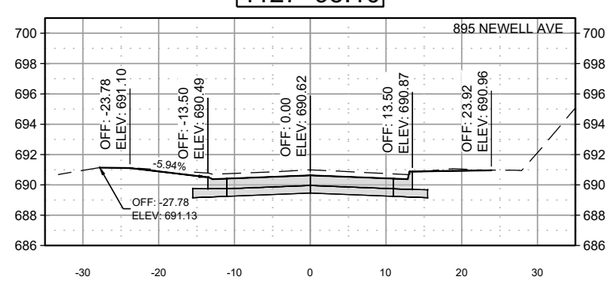
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4127+25.00



4127+95.10



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

225 Iowa Avenue, Muscatine, Iowa 52761-3764
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
NEWELL AVE
SHEET 13

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

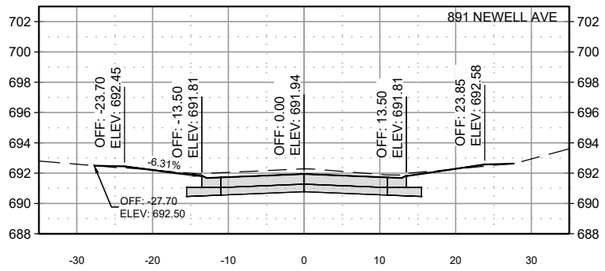
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NO. 17660.60.40	REV.
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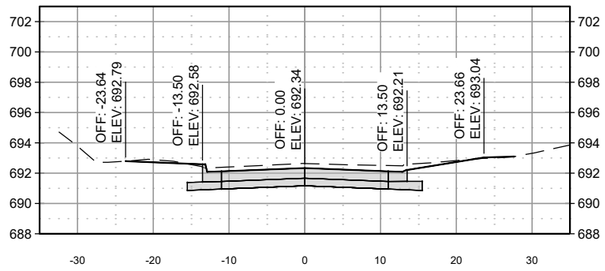
CADD D3-R5

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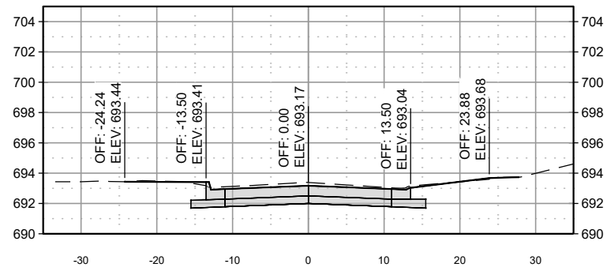
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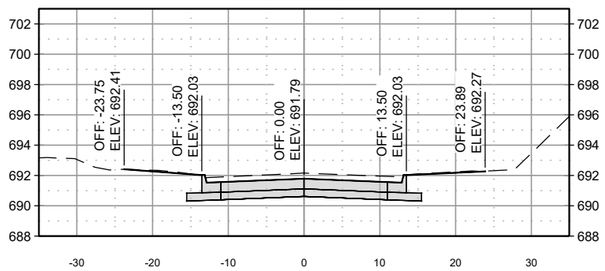
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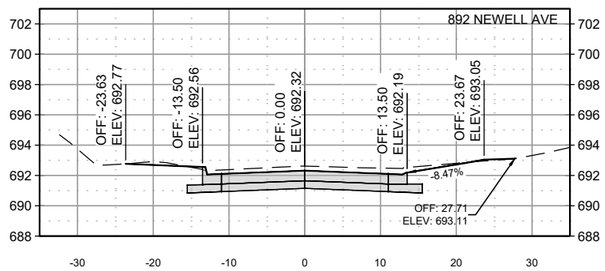
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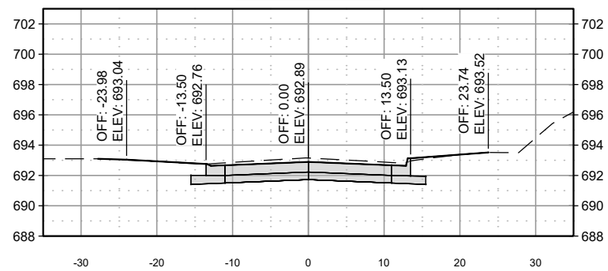
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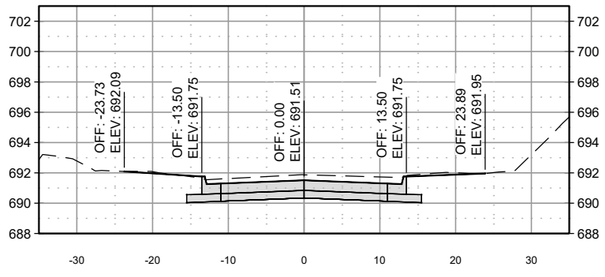
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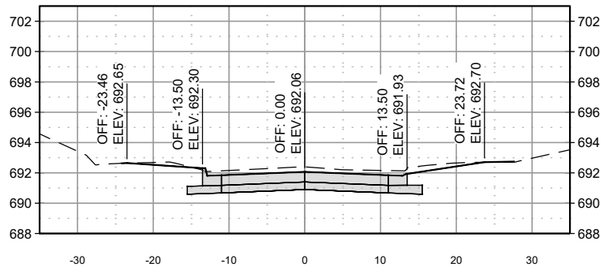
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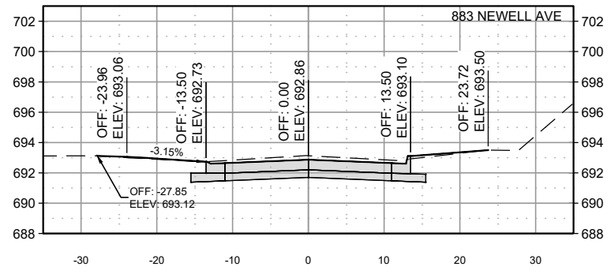
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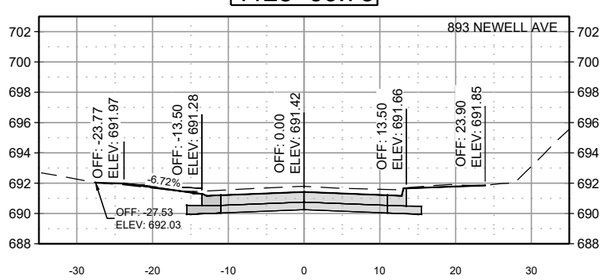
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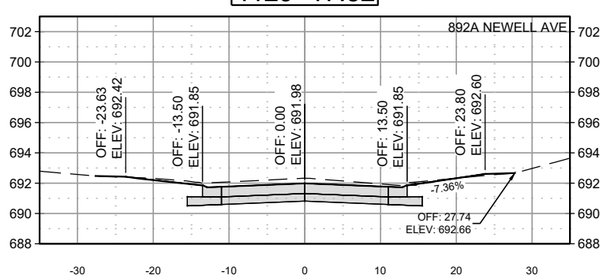
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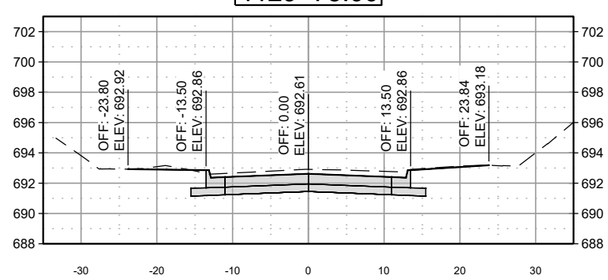
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4129+17.52



4129+75.00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS NEWELL AVE SHEET 14

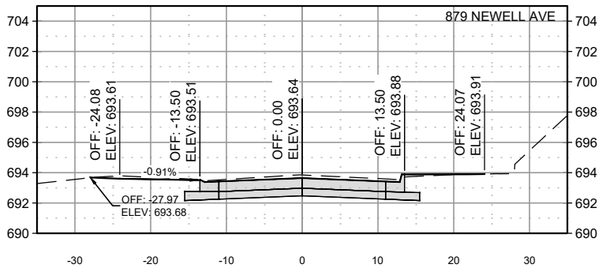
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

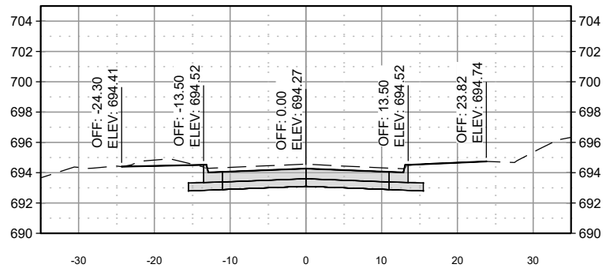
NO. 17660.60.40	REV.
W.17	0

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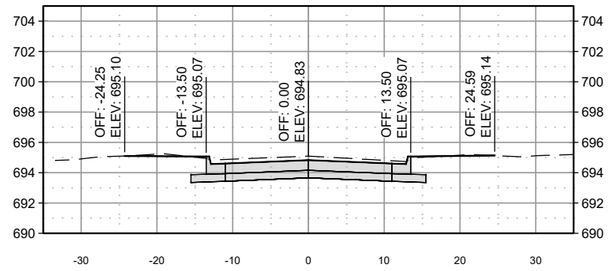
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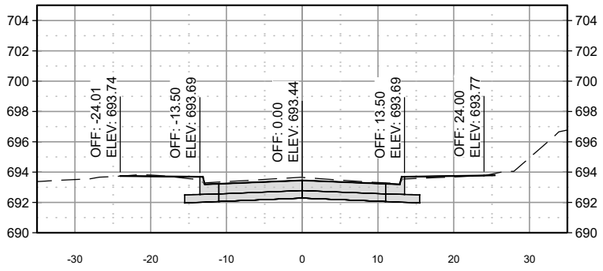
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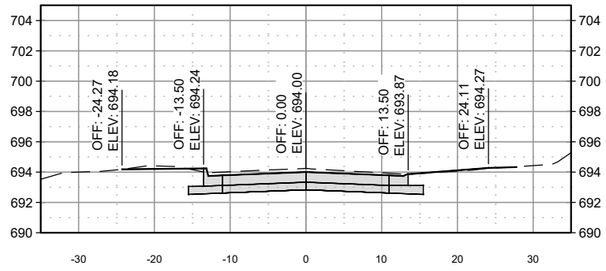
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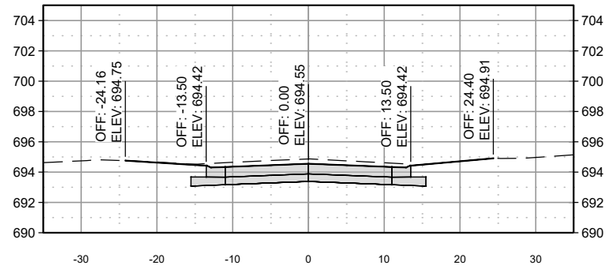
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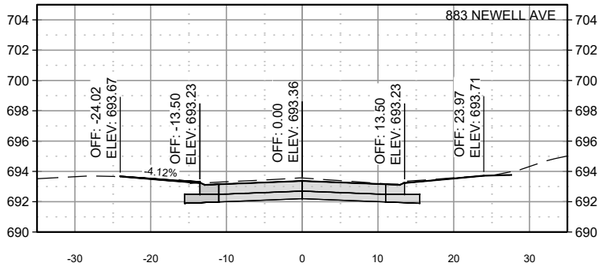
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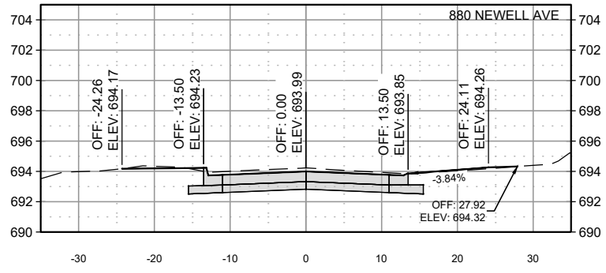
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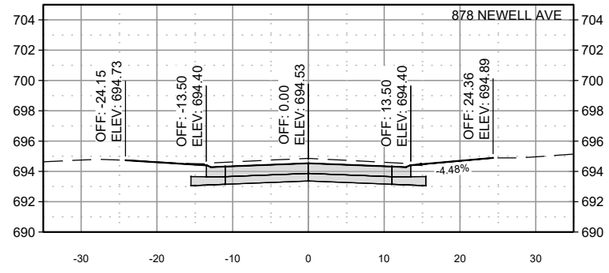
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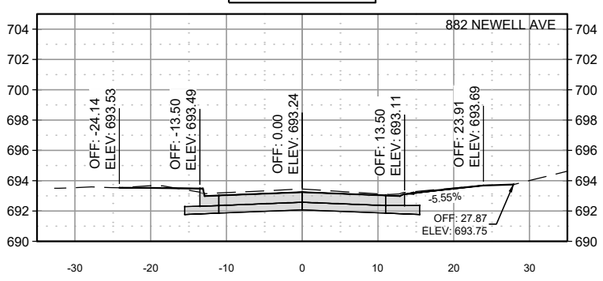
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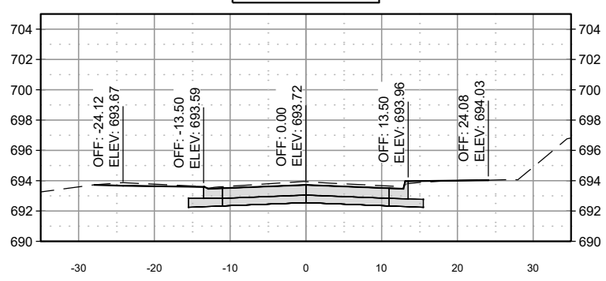
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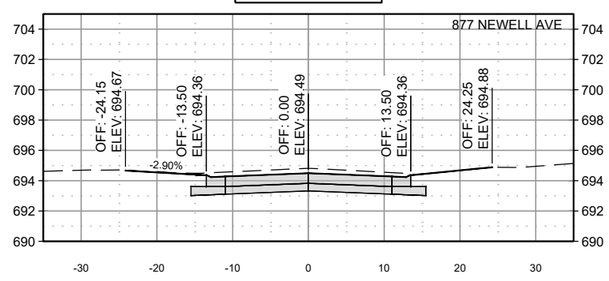
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4130+75.00



4131+44.76



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

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www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
NEWELL AVE
SHEET 15

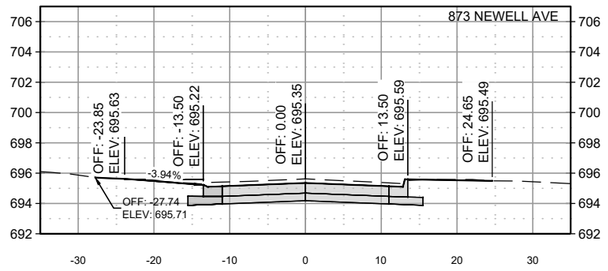
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	PM JOHNSON
APPROVED	KK HEIM
DATE	MARCH 30, 2026

SCALE: NONE

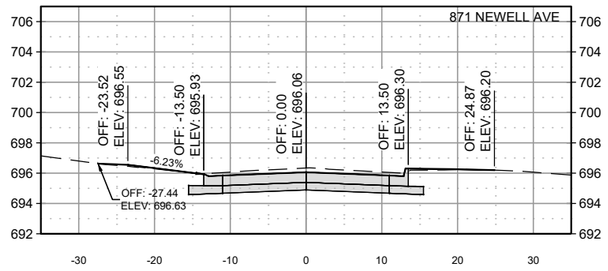
NO. 17660.60.40	REV.
W.18	0

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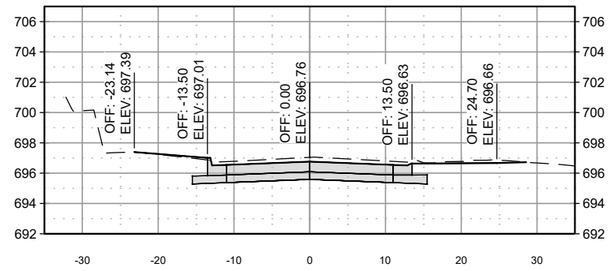
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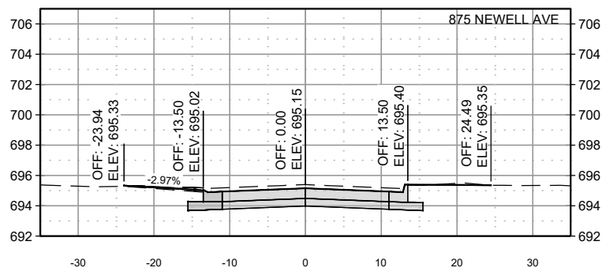
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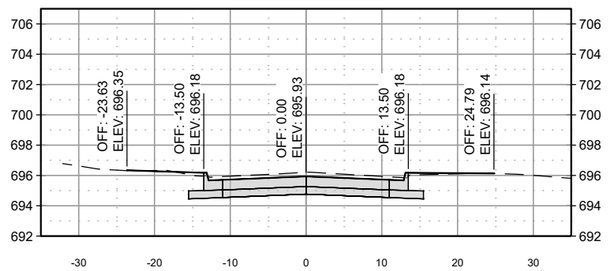
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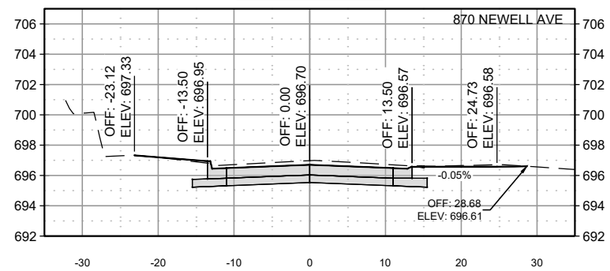
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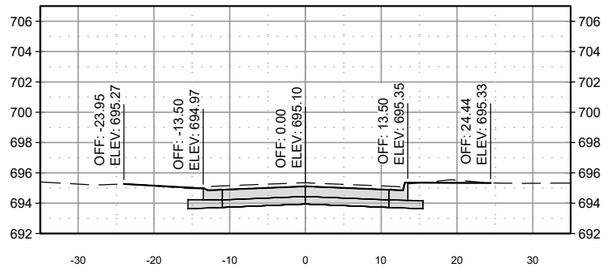
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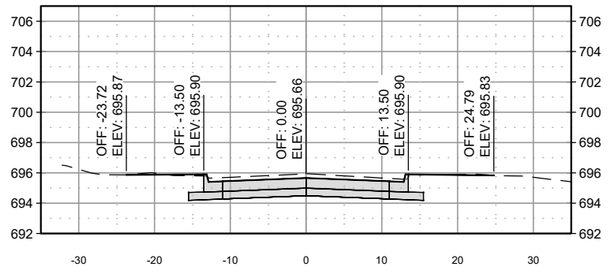
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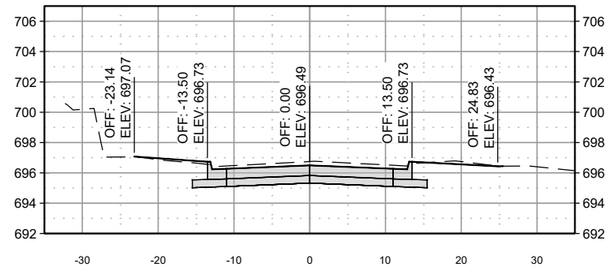
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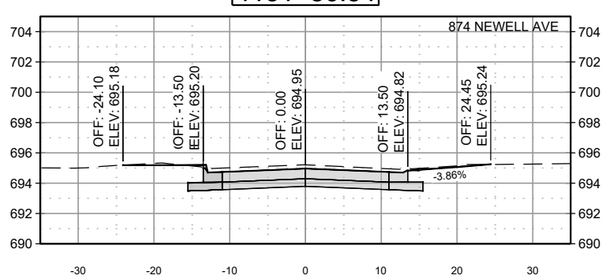
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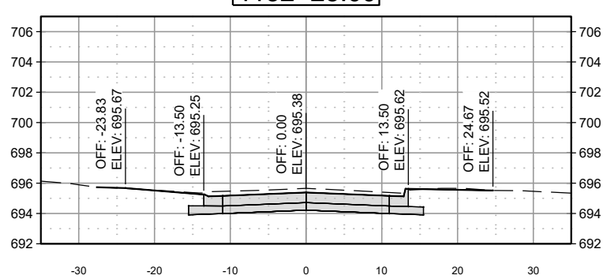
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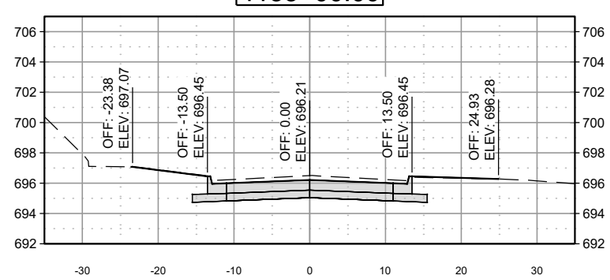
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4132+25.00



4133+00.00



NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS NEWELL AVE SHEET 16

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

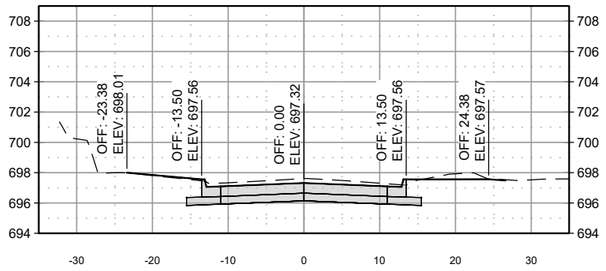
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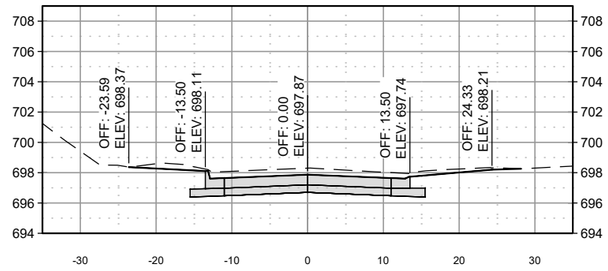
AT FULL SIZE

CADD D3-R5
10 © STANLEY CONSULTANTS

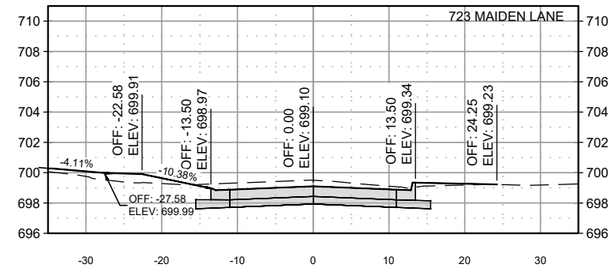
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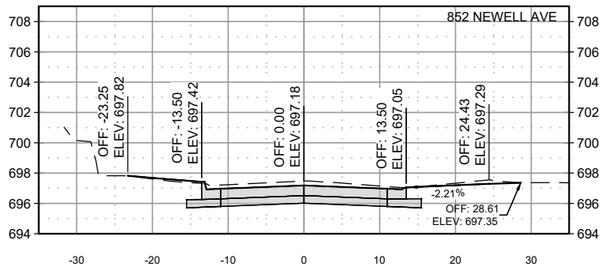
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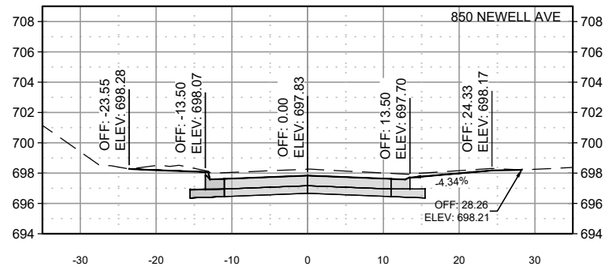
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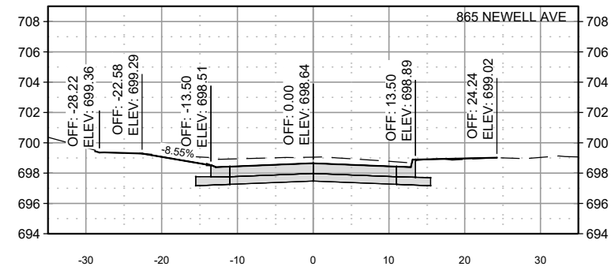
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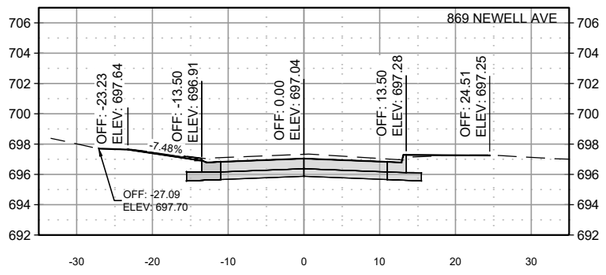
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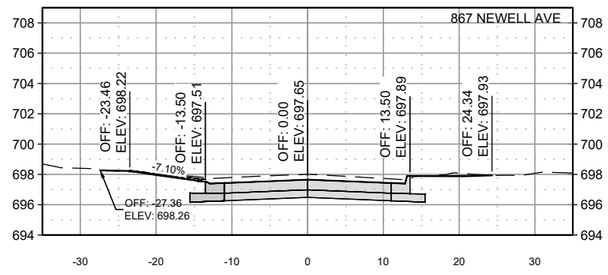
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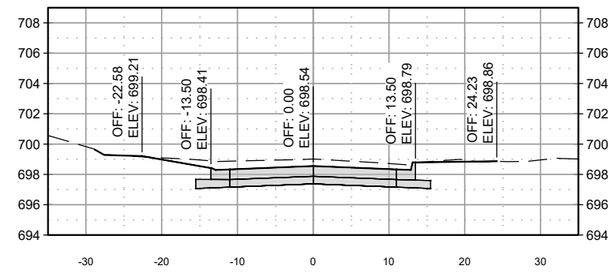
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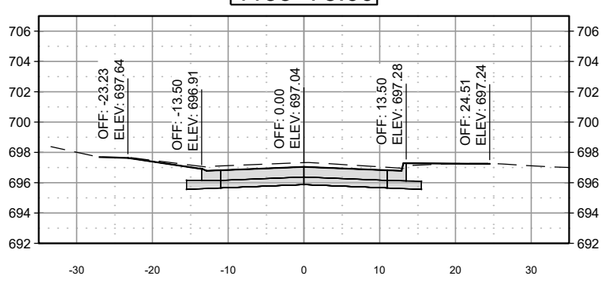
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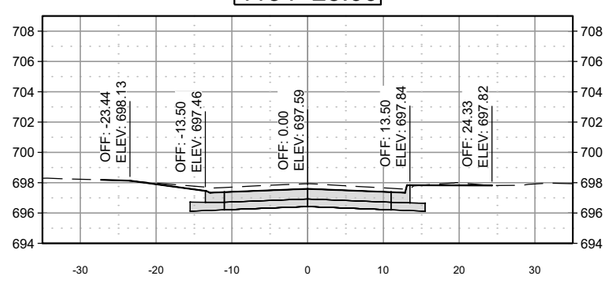
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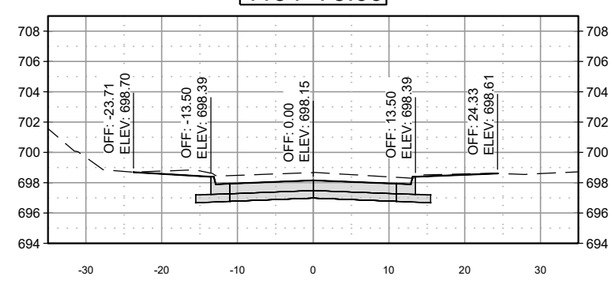
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4134+25.00



4134+75.00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

225 Iowa Avenue, Muscatine, Iowa 52761-3764
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
NEWELL AVE
SHEET 17

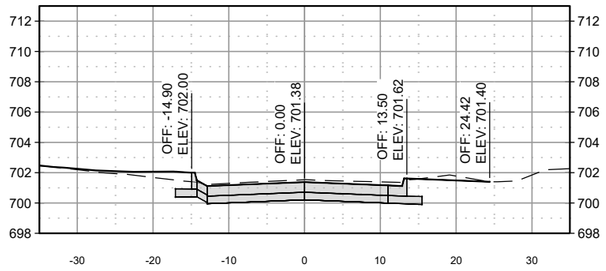
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

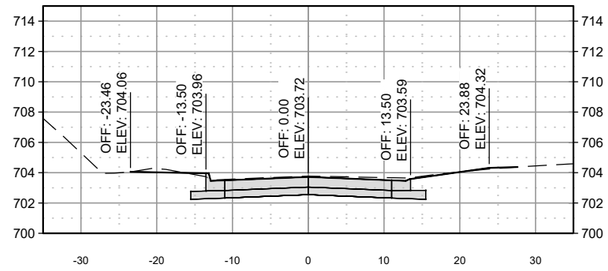
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W.20	0

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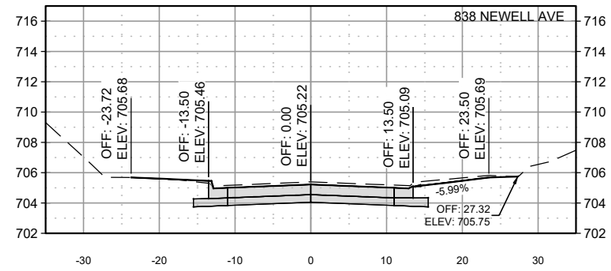
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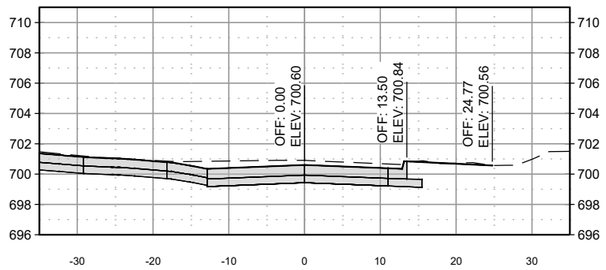
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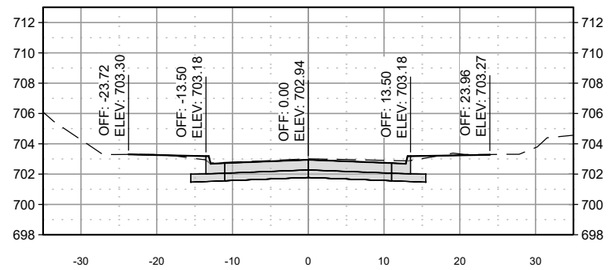
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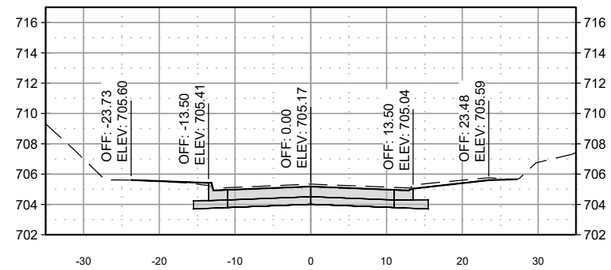
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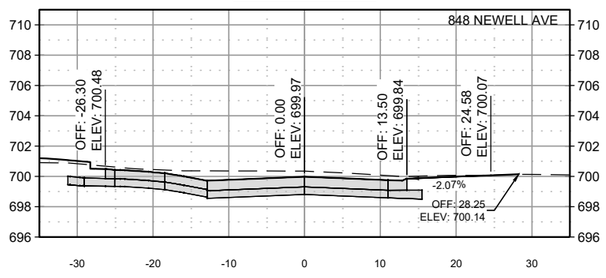
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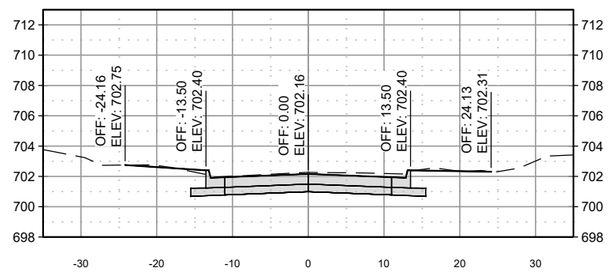
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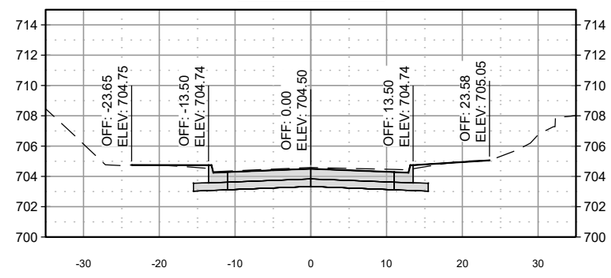
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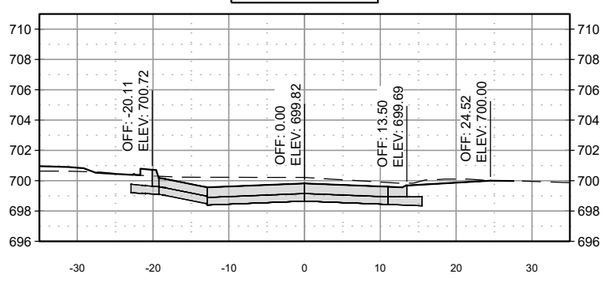
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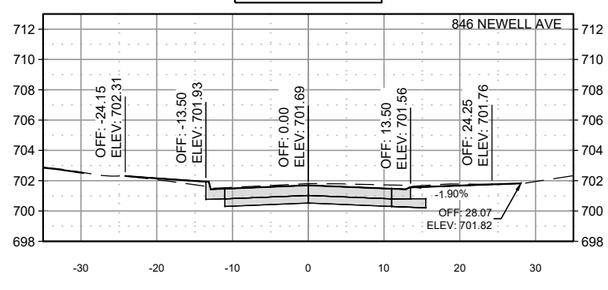
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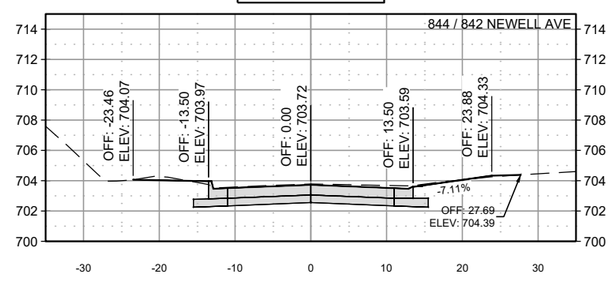
4135+50.00



4136+09.95



4136+75.18



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

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www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS NEWELL AVE SHEET 18

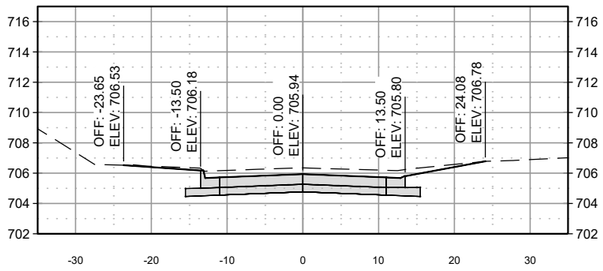
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

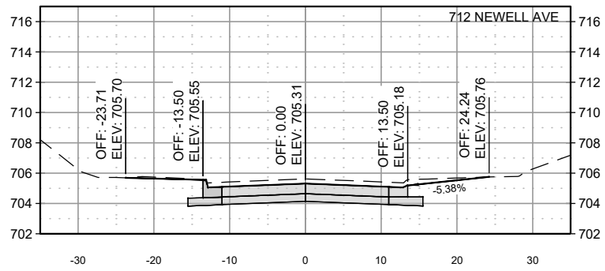
NO. 17660.60.40	REV.
W.21	0

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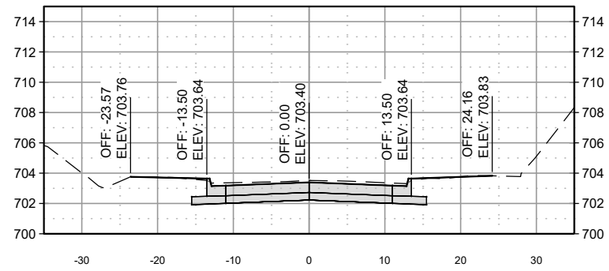
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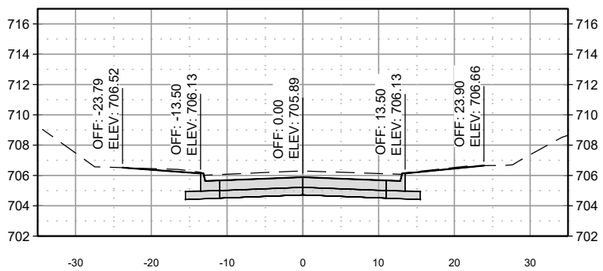
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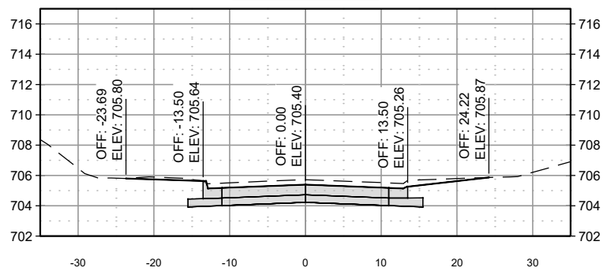
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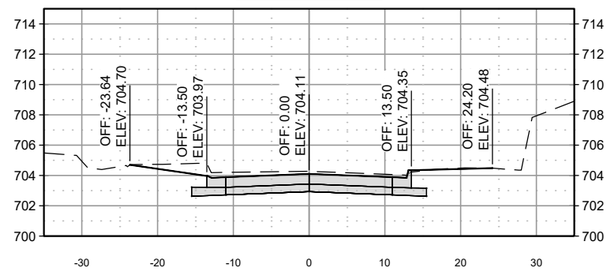
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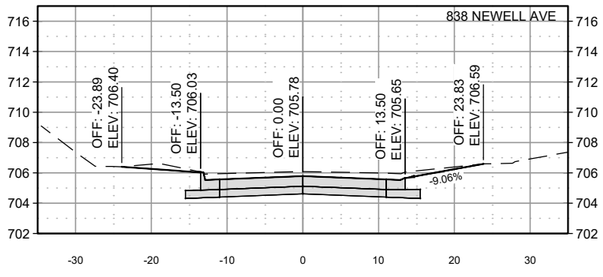
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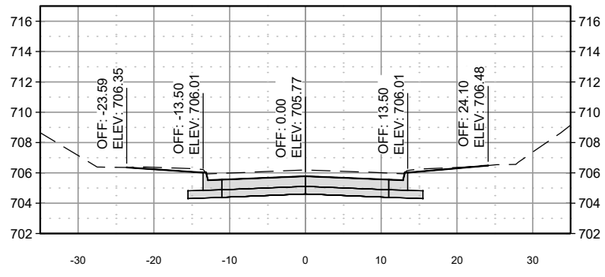
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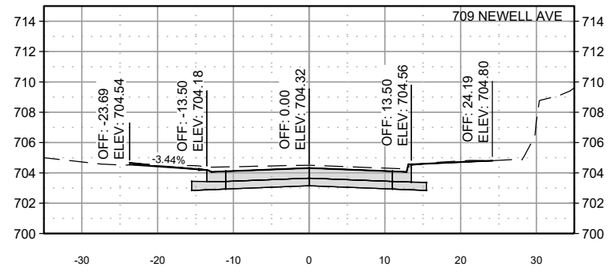
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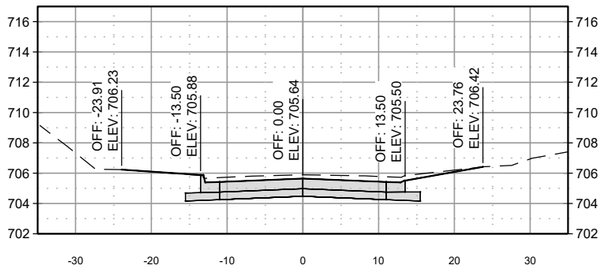
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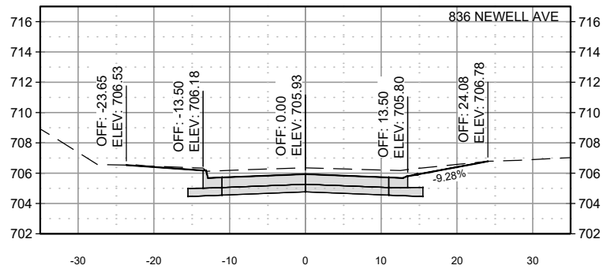
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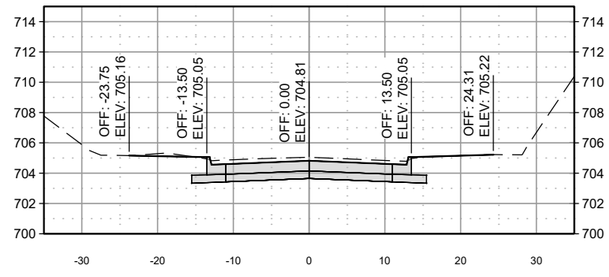
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4138+00.69



4138+75.00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS NEWELL AVE SHEET 19

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

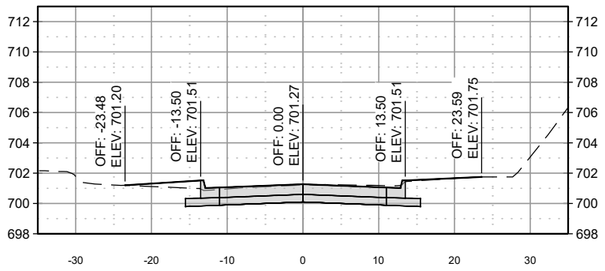
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NO. 17660.60.40	REV.
W.22	0

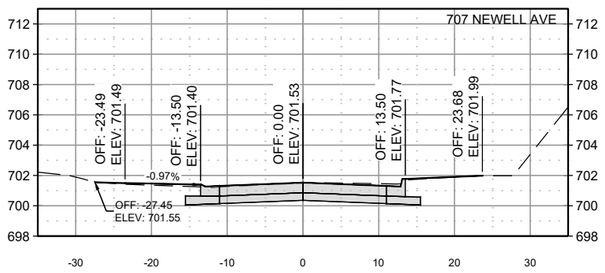
CADD D3-R5

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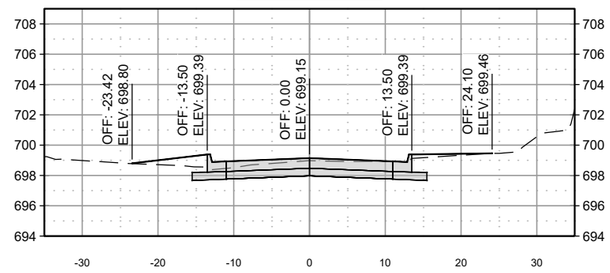
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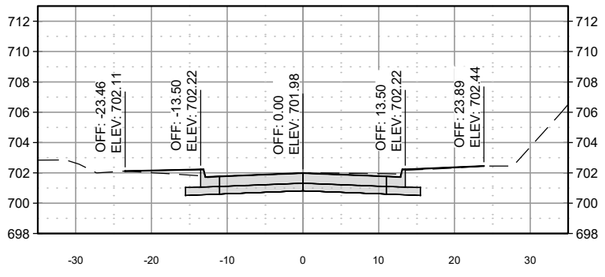
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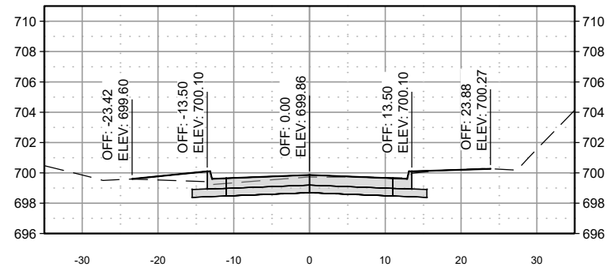
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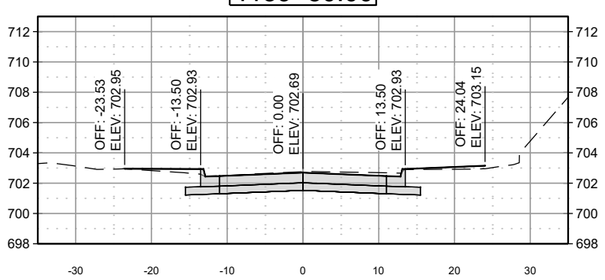
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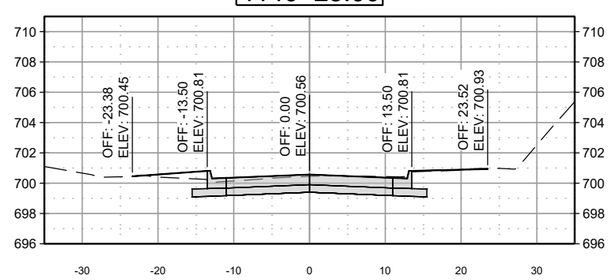
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4139+50.00



4140+25.00



NOTES

NO.	REVISIONS	DSGN.	CHKD	APVD	DATE

Stanley Consultants INC.
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
NEWELL AVE
SHEET 20

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

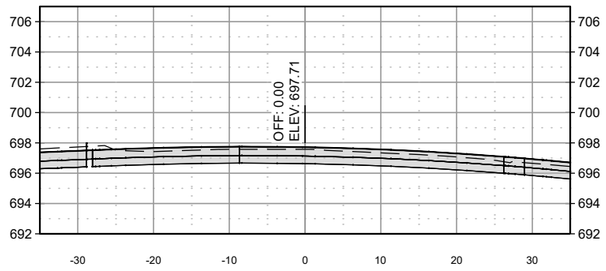
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AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

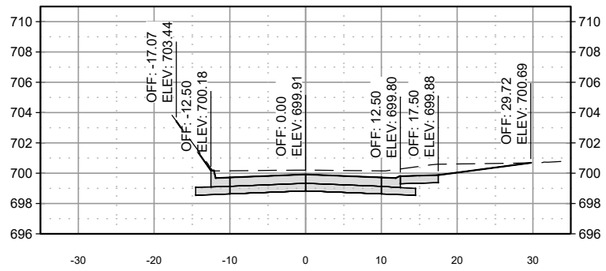
10 © STANLEY CONSULTANTS

I CADD D3-R5

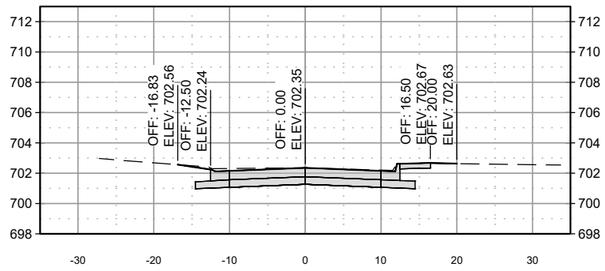
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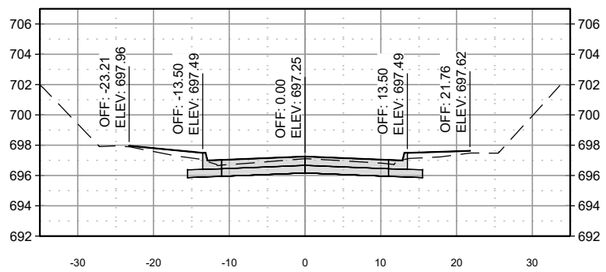
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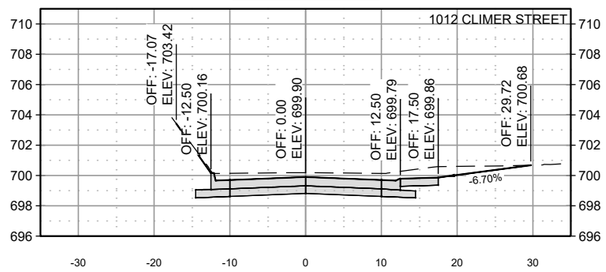
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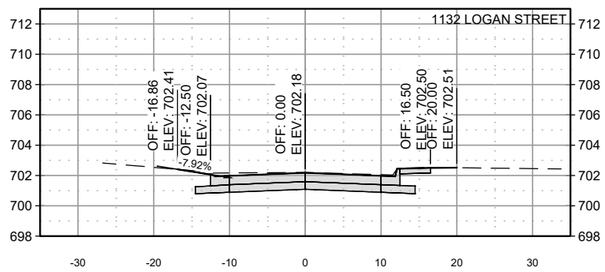
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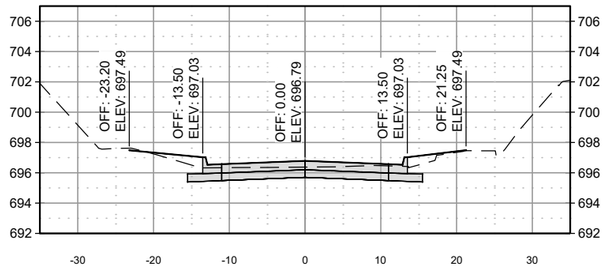
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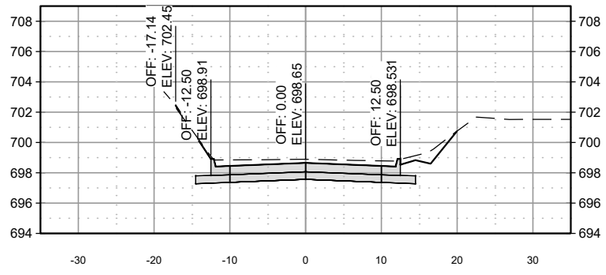
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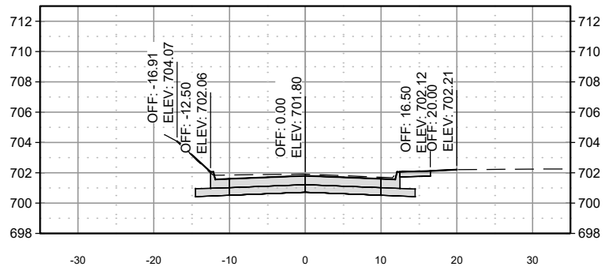
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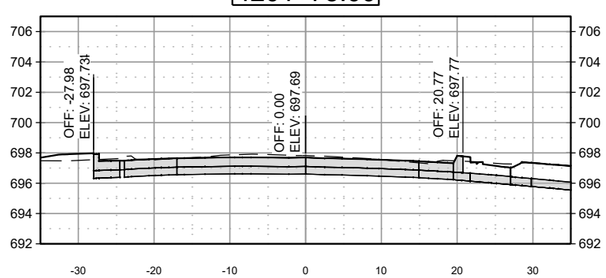
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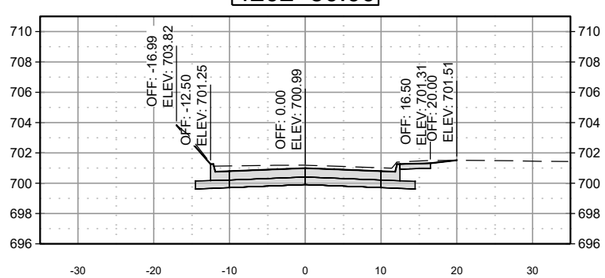
4202+75.00



4201+75.00



4202+50.00



NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
CLIMER ST
SHEET 1

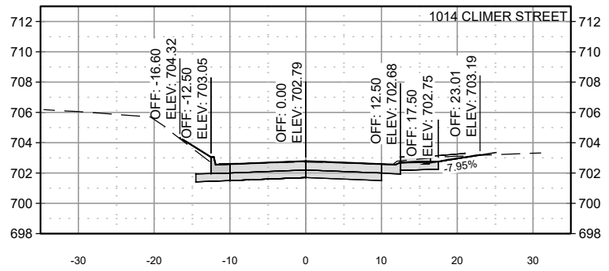
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE
NO. 17660.60.40
REV. 0
W.24

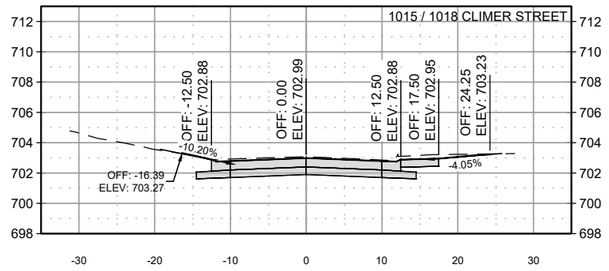
AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5

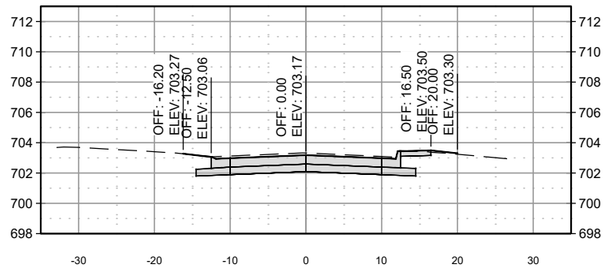
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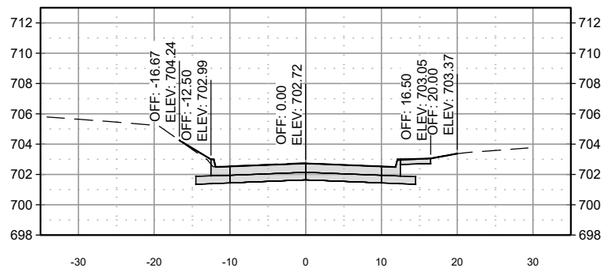
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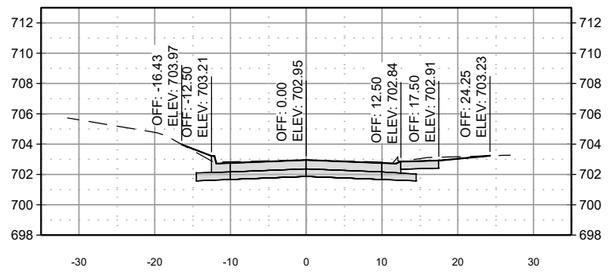
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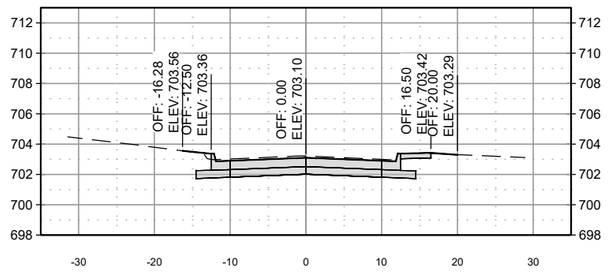
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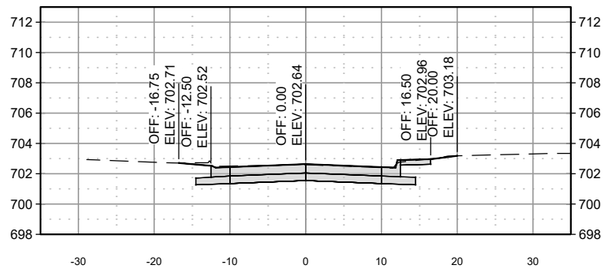
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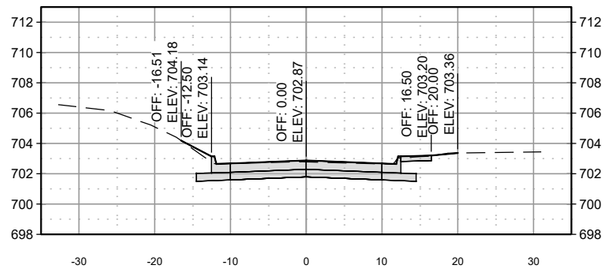
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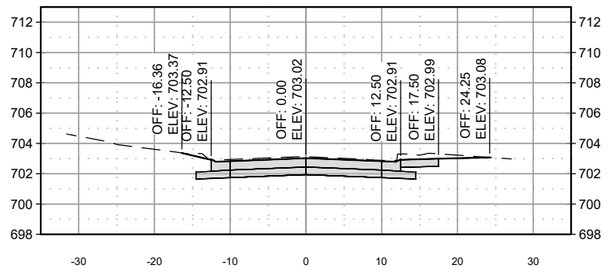
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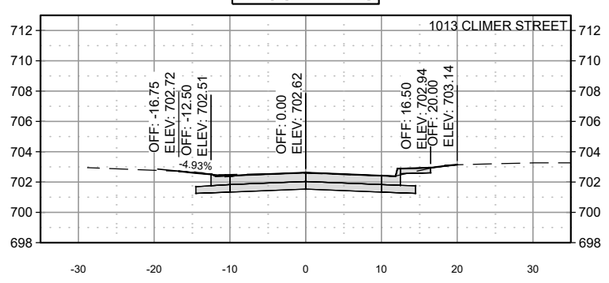
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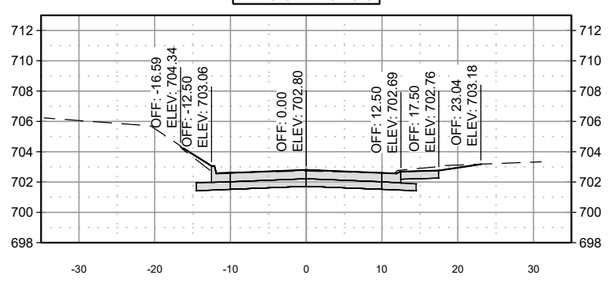
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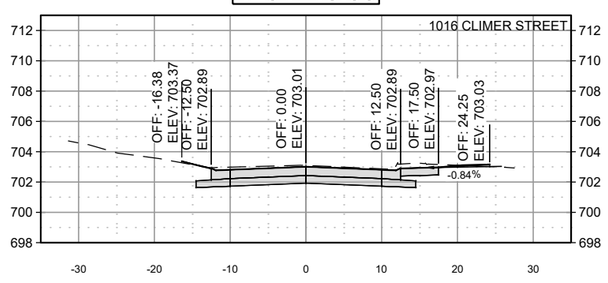
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4203+75.00



4204+43.66



NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS CLIMER ST SHEET 2

AT FULL SIZE

0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

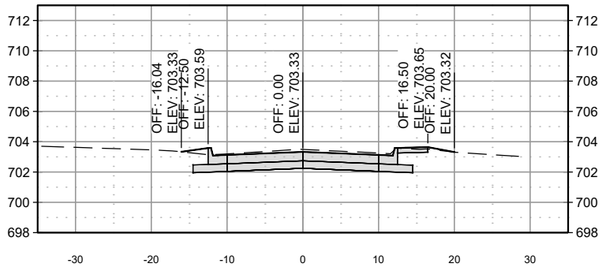
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

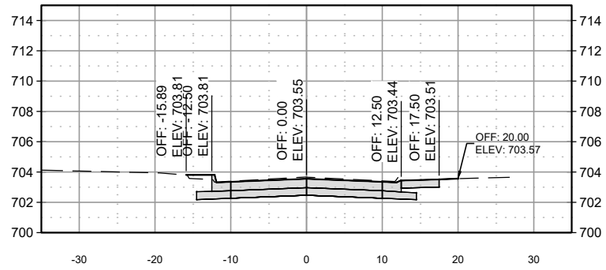
NO. 17660.60.40	REV.
W.25	0

CADD D3-R5
10 © STANLEY CONSULTANTS

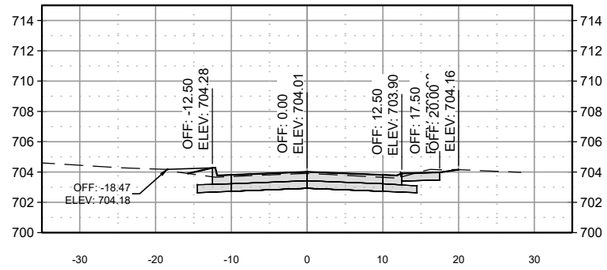
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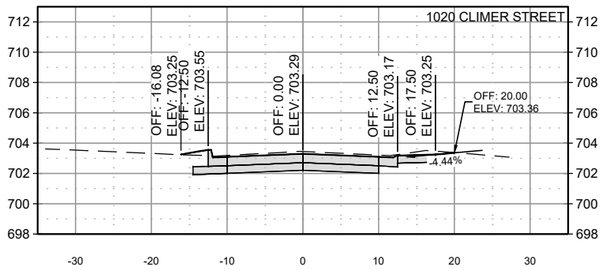
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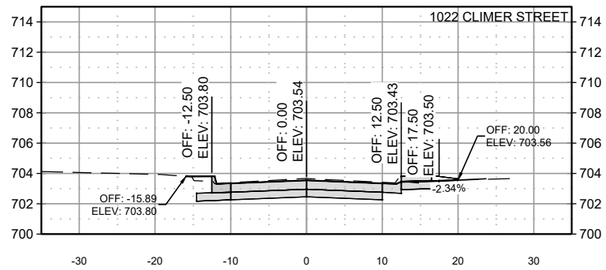
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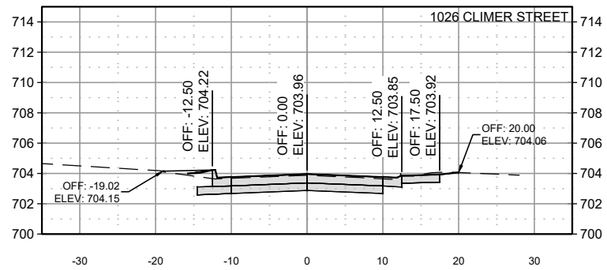
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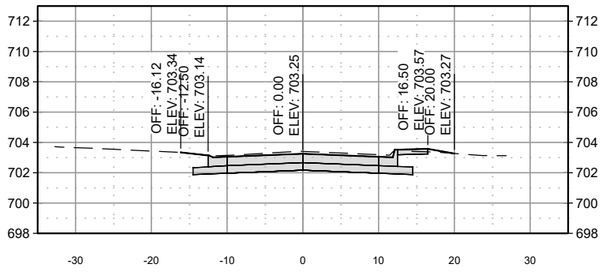
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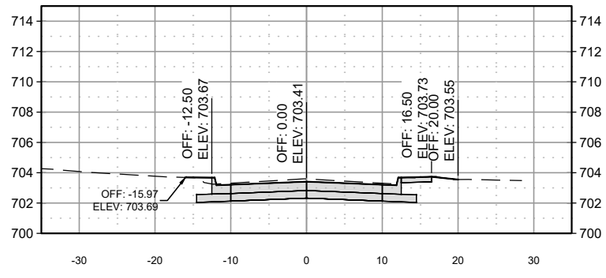
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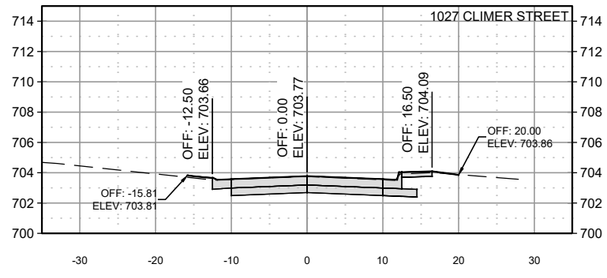
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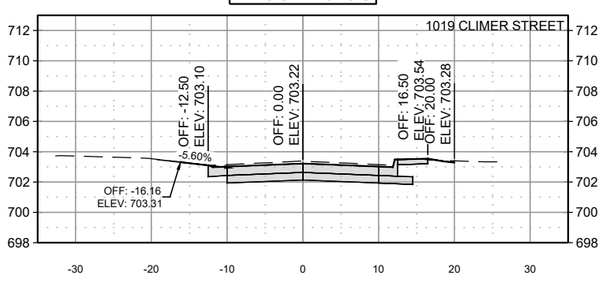
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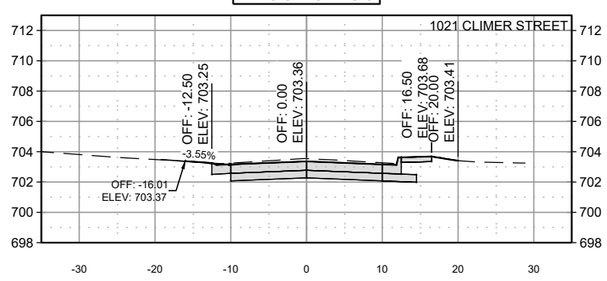
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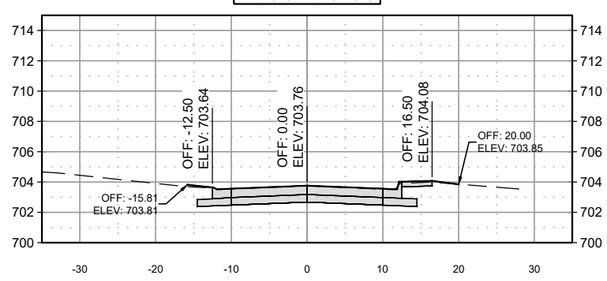
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4205+61.85



4206+25.00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

Stanley Consultants INC.

225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS CLIMER ST SHEET 3

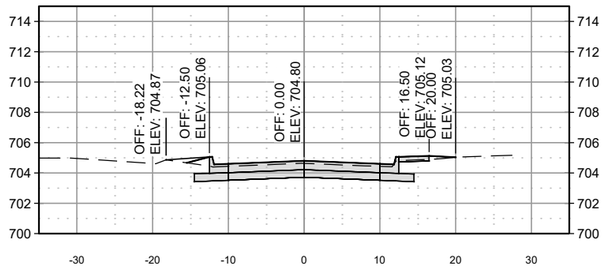
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

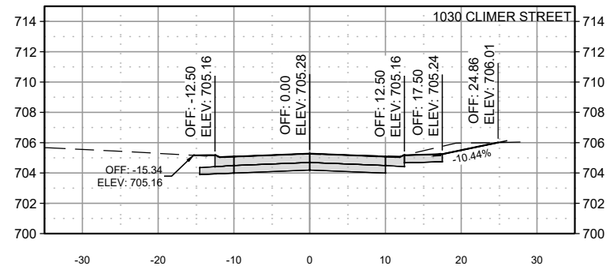
NO. 17660.60.40	REV.
W.26	0

10 © STANLEY CONSULTANTS

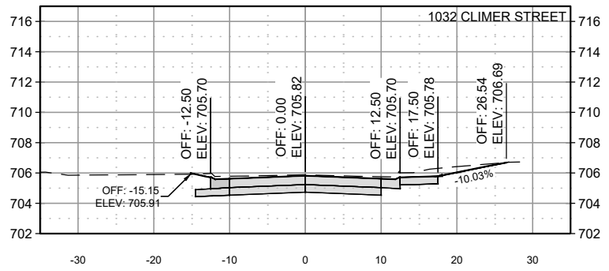
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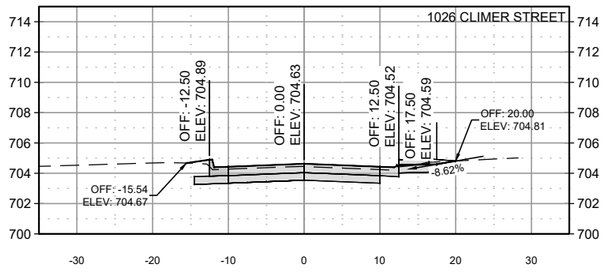
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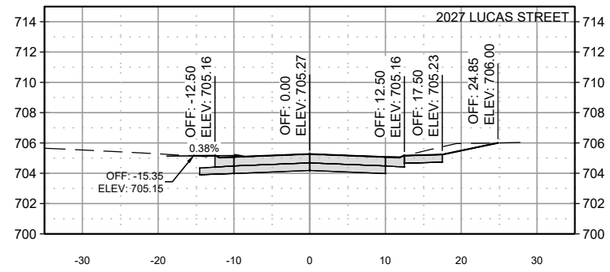
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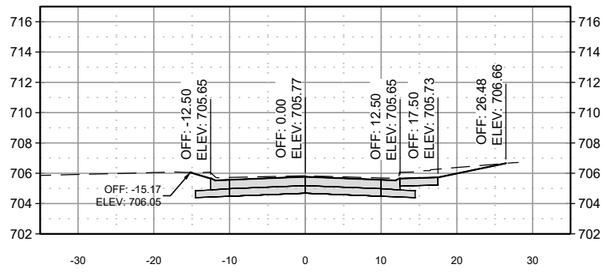
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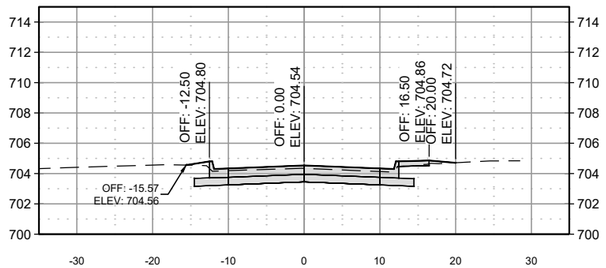
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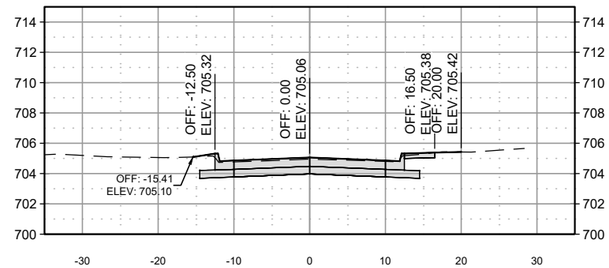
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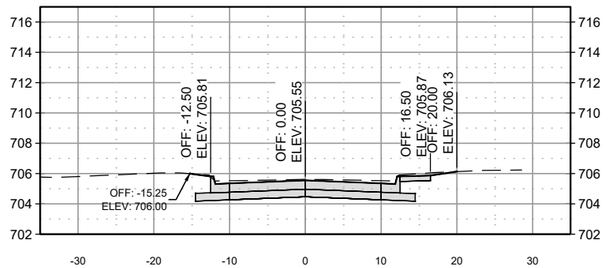
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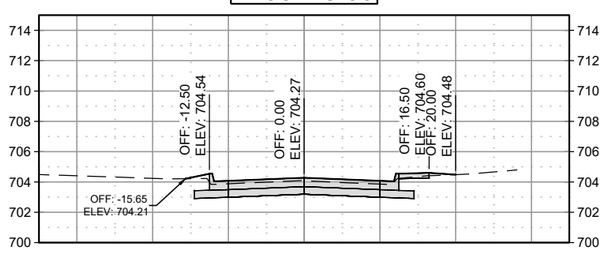
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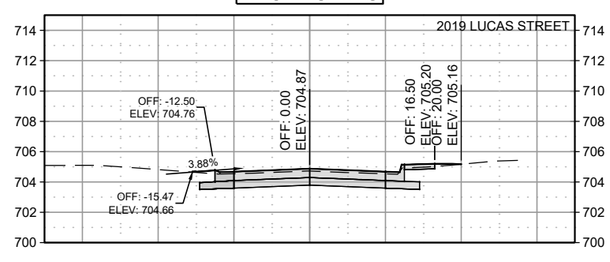
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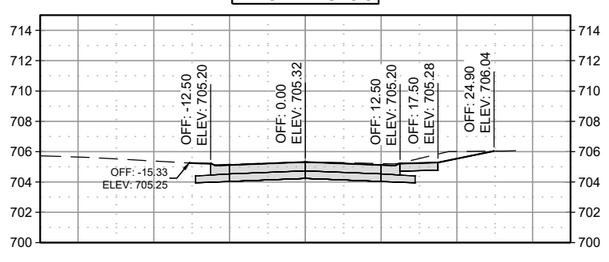
4206+75.00



4207+32.23



4207+75.00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
CLIMER ST
SHEET 4

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

NO. 17660.60.40

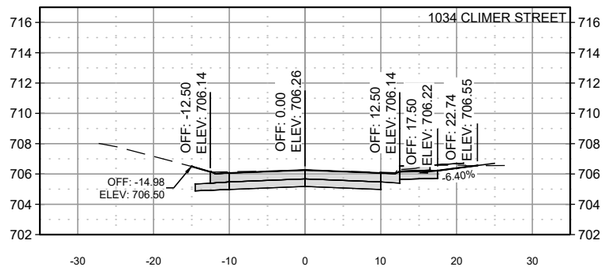
REV. 0

W.27

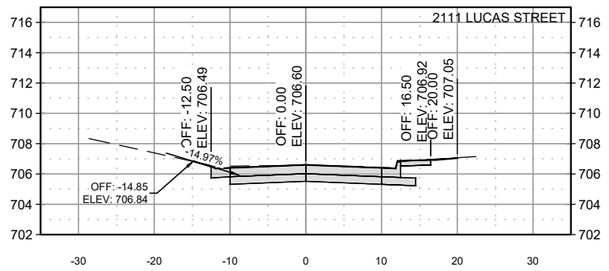
CADD D3-R5

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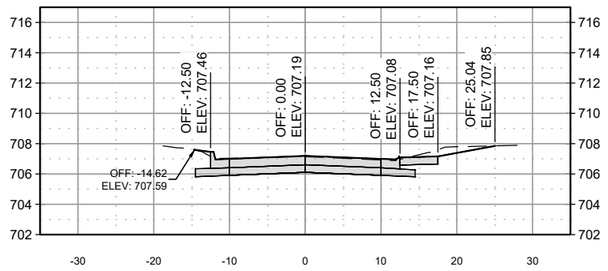
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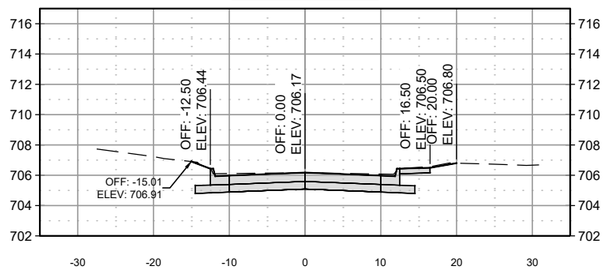
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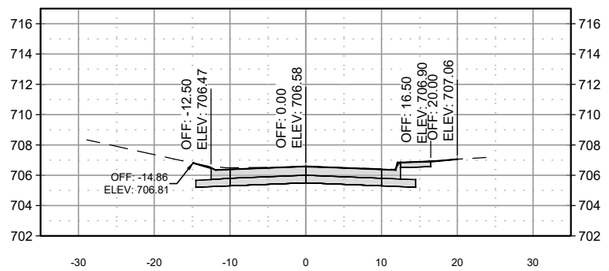
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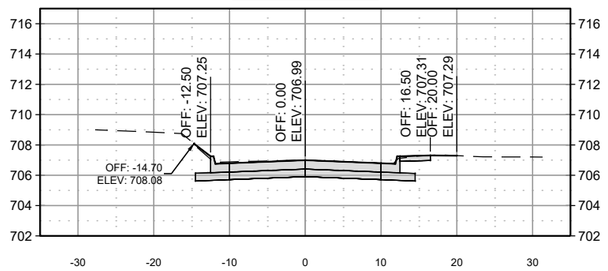
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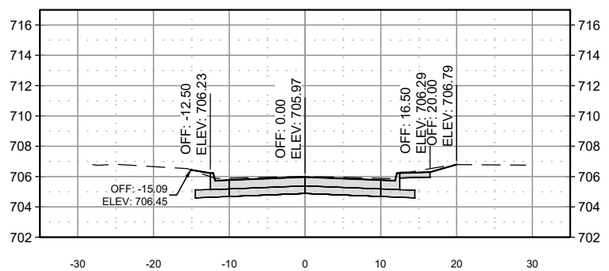
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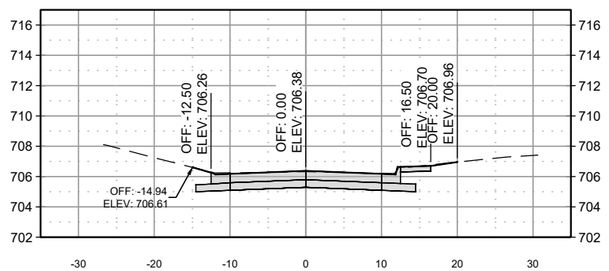
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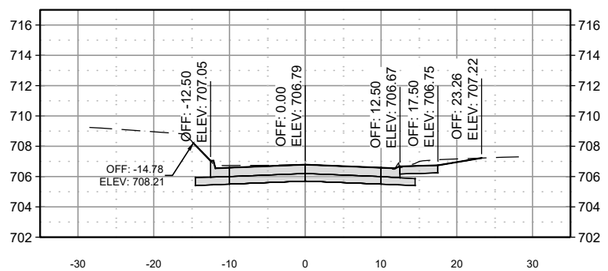
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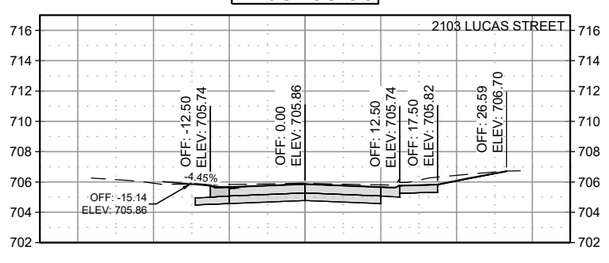
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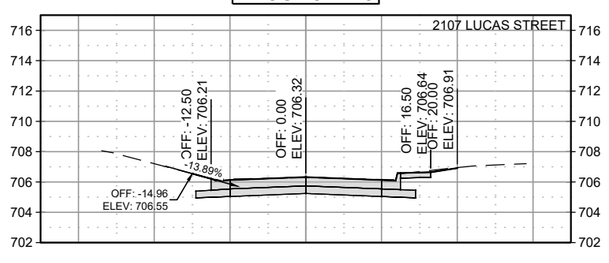
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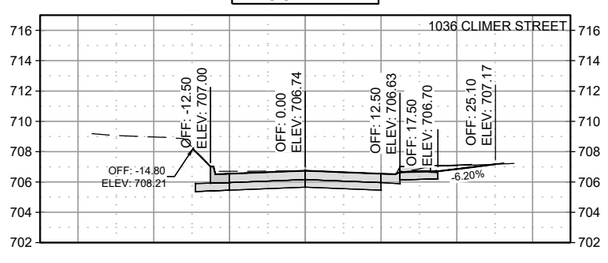
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4208+92.70



4209+44.24



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
CLIMER ST
SHEET 5

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

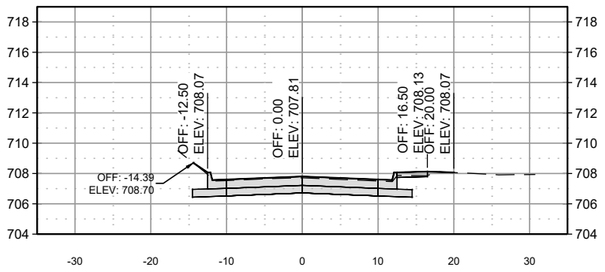
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NO. 17660.60.40 | REV. W.28 | 0

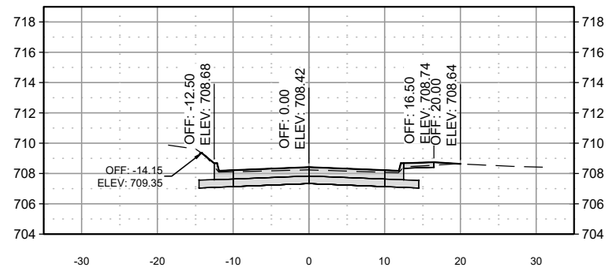
CADD D3-R5

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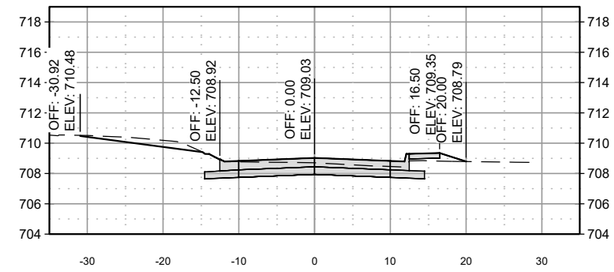
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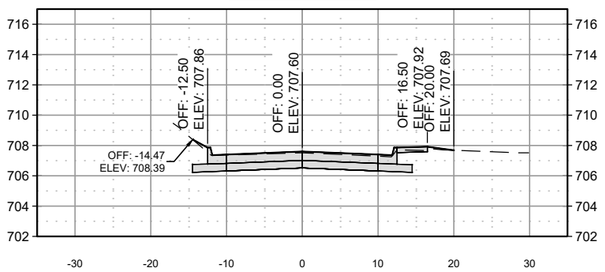
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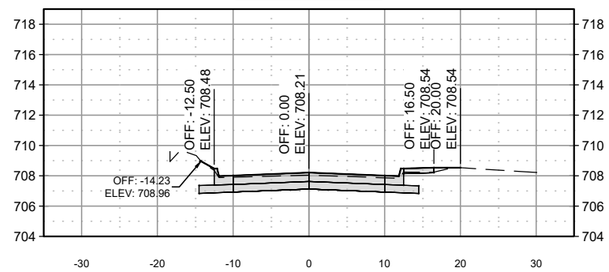
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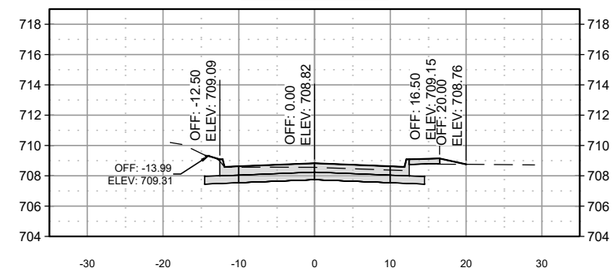
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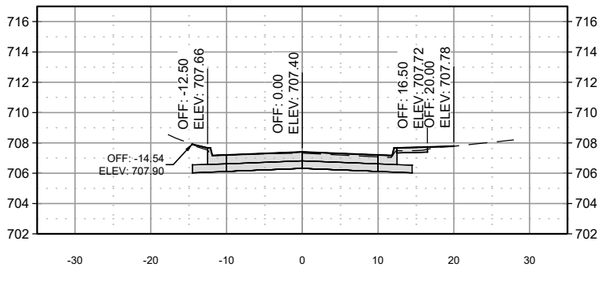
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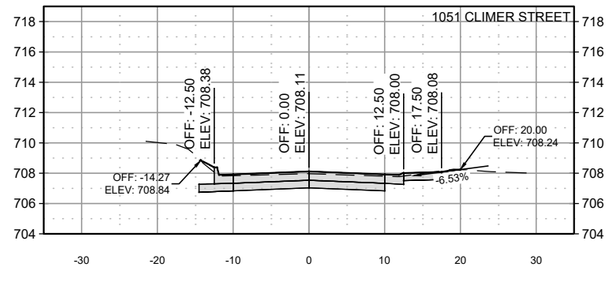
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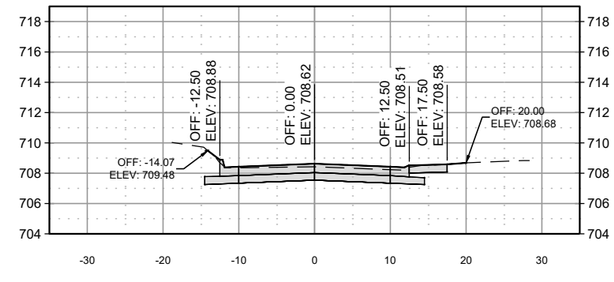
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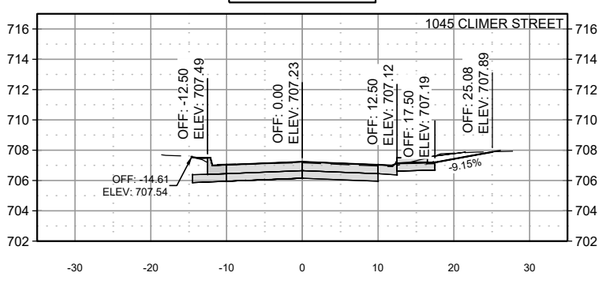
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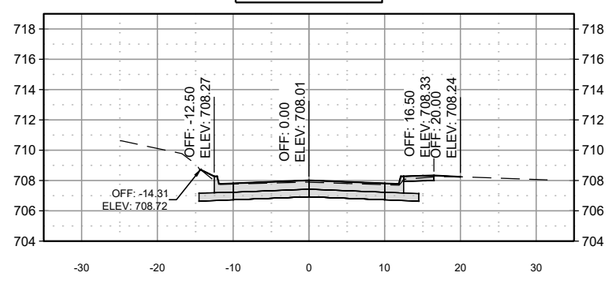
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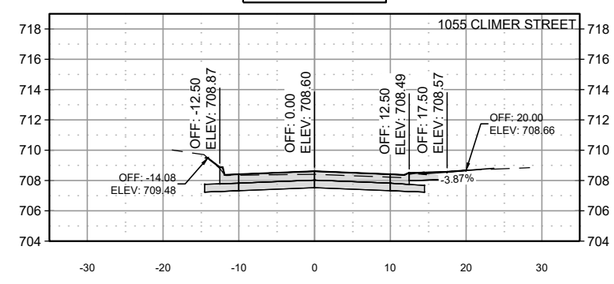
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4211+00.00



4211+72.81



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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS CLIMER ST SHEET 6

AT FULL SIZE

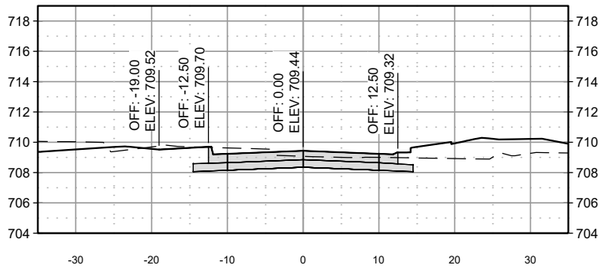
DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

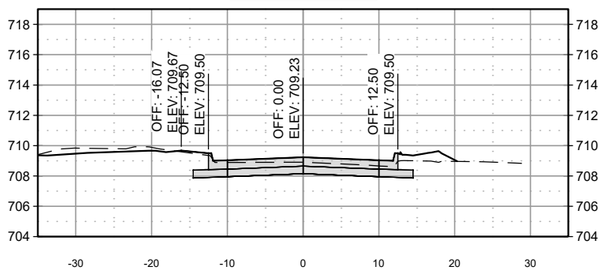
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4212+75.00



4212+50.00



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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS
CLIMER ST
SHEET 7

AT FULL SIZE

0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

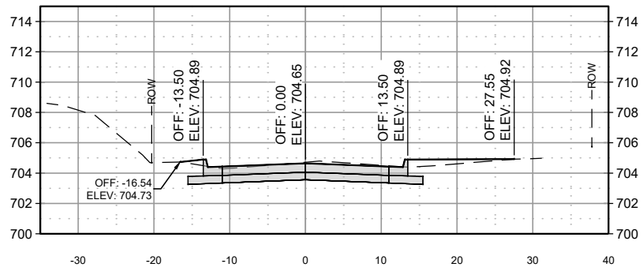
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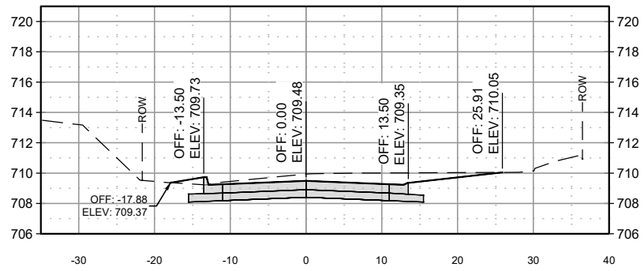
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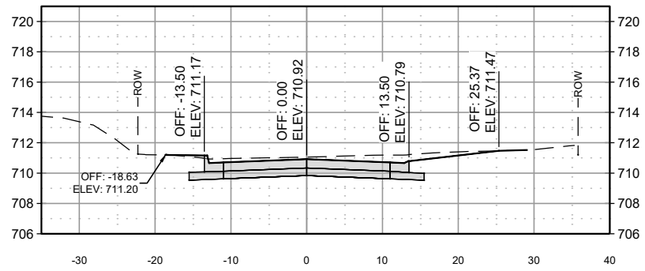
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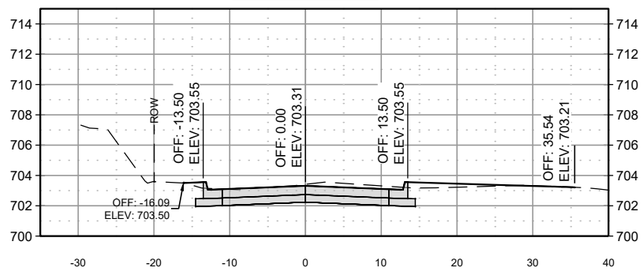
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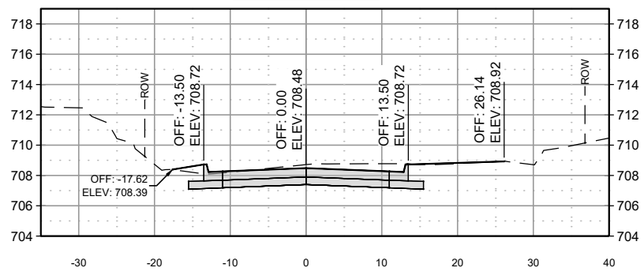
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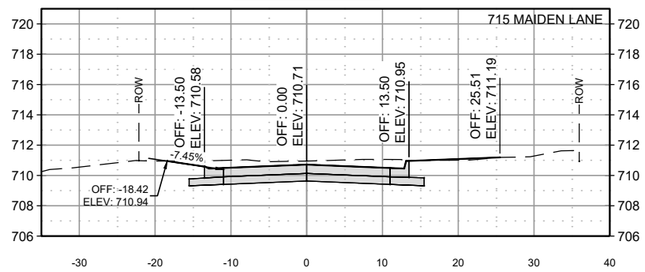
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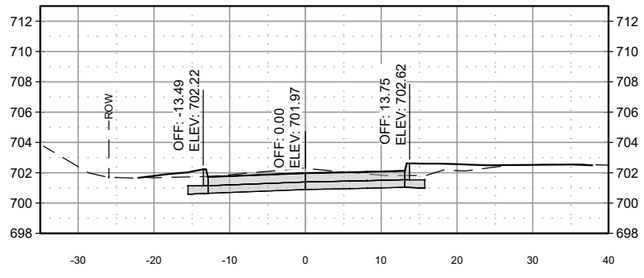
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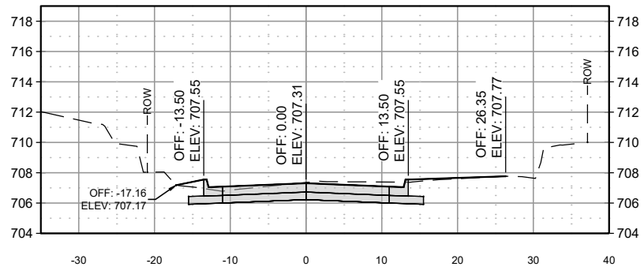
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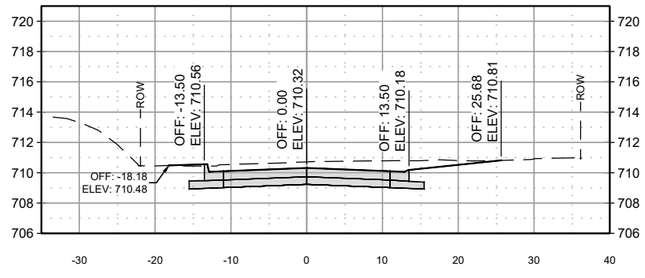
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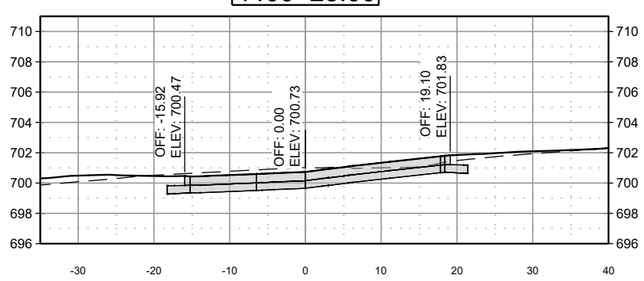
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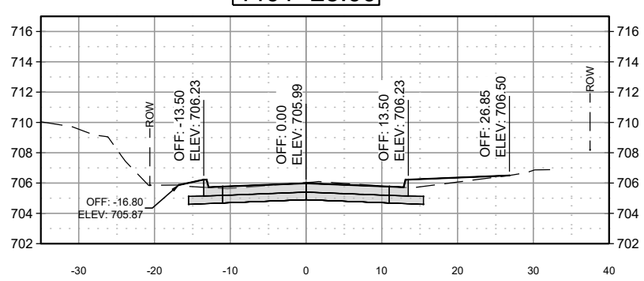
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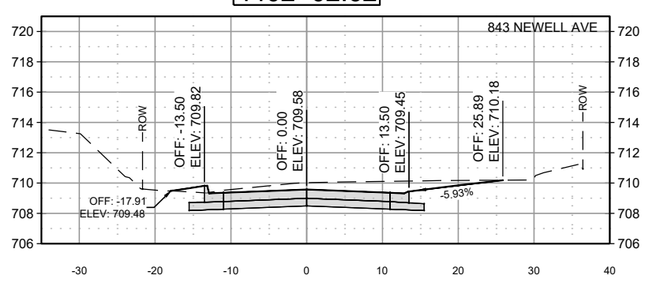
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4401+25.00



4402+02.62



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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225 Iowa Avenue, Muscatine, Iowa 52761-3764
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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS MAIDEN LANE SHEET 1

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

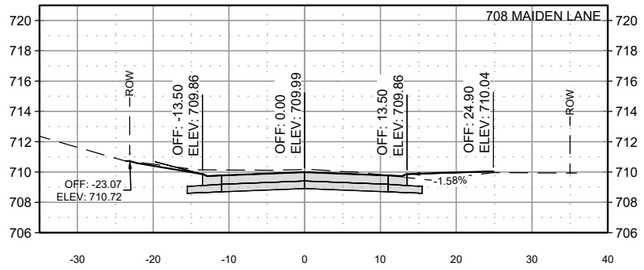
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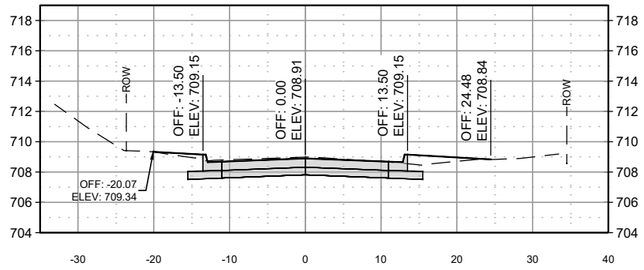
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CADD D3-R5

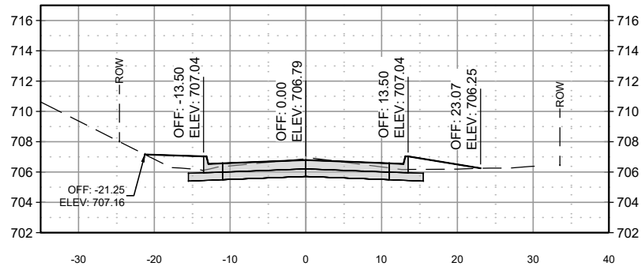
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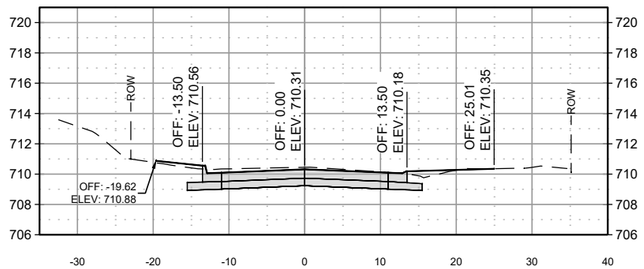
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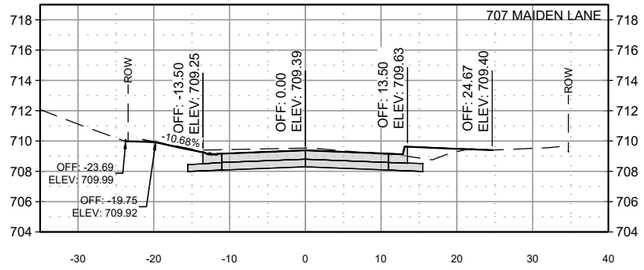
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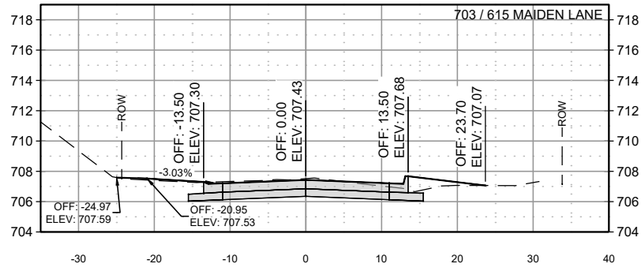
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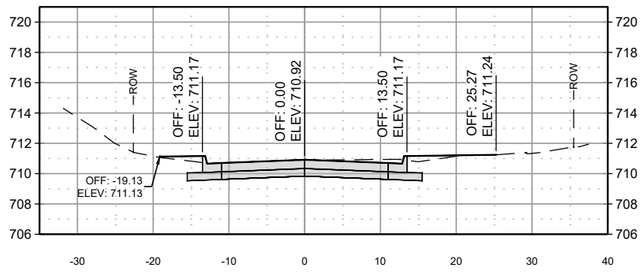
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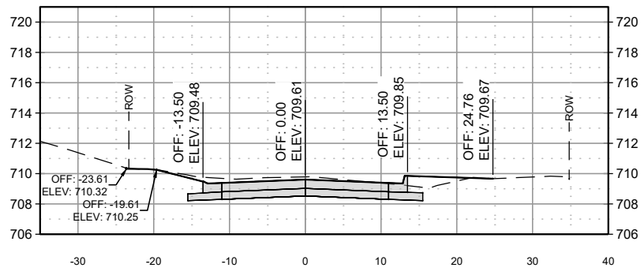
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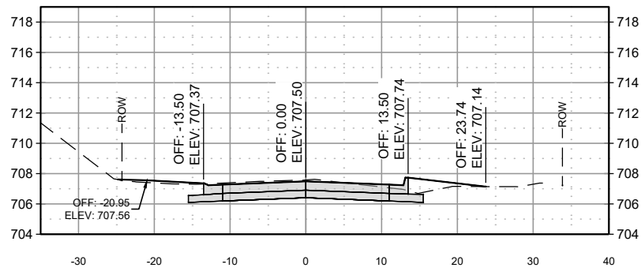
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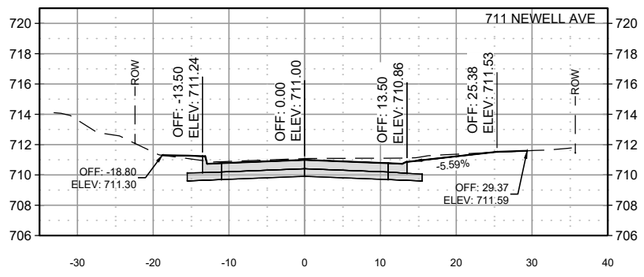
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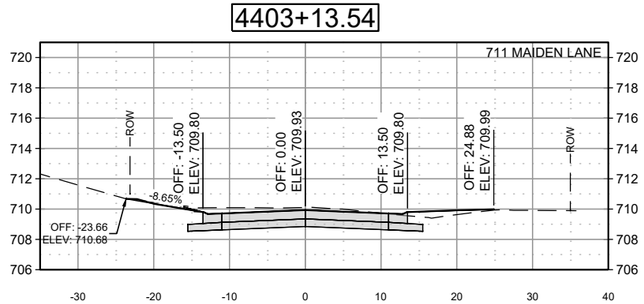
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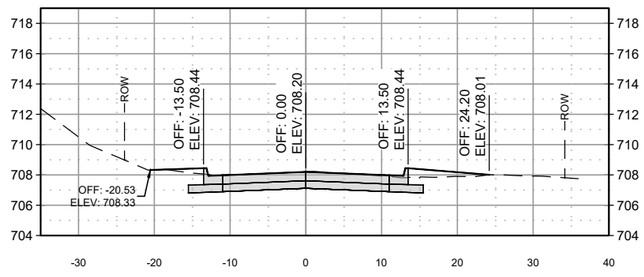
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4403+13.54



4403+75.00



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6E
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT CROSS SECTIONS MAIDEN LANE SHEET 2

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 30, 2026

SCALE: NONE

NO. 17660.60.40 | REV. W.32 | 0

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WEST HILL AREA
SEWER SEPARATION - PHASE 6E
WATER MAIN PROJECT
CITY OF MUSCATINE
MUSCATINE, IOWA

LEGEND

- W — PROPOSED WATER MAIN
- W_x — EXISTING WATER MAIN
- G_x — NATURAL GAS
- FO_x — EXISTING FIBER OPTIC
- OE — OVERHEAD ELECTRIC
- ES_x — BURIED ELECTRIC
- PROPERTY LINE
- SS_x — EXISTING SANITARY SEWER
- SS — SANITARY SEWER
- SD_x — EXISTING STORM SEWER
- SD — STORM SEWER
- PERIMETER EROSION BARRIER
- WV — VALVE
- HYDRANT
- CURB STOP AND BOX
- REDUCER
- SANITARY MANHOLE
- STORM MANHOLE
- AREA LIGHT
- STREET LIGHT
- UTILITY POLE
- CONTROL POINTS
- PROPERTY CORNER
- TREE

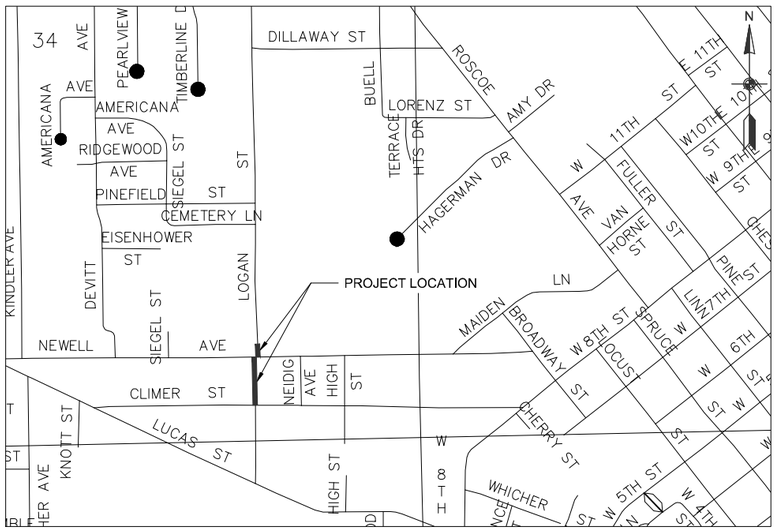
ABBREVIATIONS

APPROX	APPROXIMATE
AVE	AVENUE
DI	DUCTILE IRON
DR	DRIVE
EXST	EXISTING
INV	INVERT
LF	LINEAR FEET
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
N	NORTH
PH	PHASE
S	SOUTH
SAN	SANITARY
ST	STREET
STA	STATION
TYP	TYPICAL

GENERAL NOTES

1. CONSTRUCT ACCORDING TO MUSCATINE POWER AND WATER STANDARD SPECIFICATIONS FOR WATER DISTRIBUTION SYSTEM IMPROVEMENTS, 2023.
2. ALL BURIED UTILITY LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD LOCATED PRIOR TO EXCAVATION. SEWER, NATURAL GAS, IRRIGATION, TELECOM, AND OTHER HOUSE SERVICE LINES ARE NOT SHOWN ON PLANS. THERE MAY BE OTHER EXISTING UTILITY LINES, STRUCTURES, AND SERVICE CONNECTIONS NOT KNOWN AND NOT SHOWN ON THE DRAWINGS. IN ADDITION, CONTRACTOR SHALL USE POTHOLING OR OTHER METHODS AT KNOWN UTILITY CROSSINGS FOR VISUAL CLEARANCE CHECK DURING DIRECTIONAL DRILLING OPERATIONS.
3. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, DRIVES, STREETS AND OTHER ITEMS TO REMAIN, INCLUDING ANY NOT SPECIFICALLY SHOWN IN THE DRAWINGS. DAMAGE TO EXISTING UTILITIES, DRIVES, STREETS AND OTHER ITEMS SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
4. CONTRACTOR SHALL COORDINATE WITH RESIDENTS REGARDING CONTINUATION OF TRASH REMOVAL, MAIL BOXES AND MAIL DELIVERIES, AND ACCESS TO THEIR DRIVEWAYS DURING CONSTRUCTION.
5. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY CONFLICTS BETWEEN THE DRAWINGS AND EXISTING FEATURES.
6. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF UNEXPECTED SUB-SURFACE CONDITIONS. DISCONTINUE WORK IN AREA UNTIL NOTIFIED BY OWNER TO RESUME WORK.
7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING CONSTRUCTION LAYOUT FOR ALL GRADES AND FEATURES.

LOCATION MAP



DRAWING INDEX

SHEET NUMBER	TITLE	REVISION NUMBER
MPW A.01	COVER SHEET	0
MPW B.01	DETAILS	0
MPW C.01	QUANTITIES, ERN, AND TABULATIONS	0
MPW M.01	WATER SHEETS	0
MPW M.02	WATER SHEETS	0
MPW M.03	WATER SHEETS	0

UTILITIES

THE CONTRACTOR SHALL NOTIFY IOWA ONE CALL AT 811 OR 800/292-8989 NO LESS THAN 48 HRS. IN ADVANCE OF ANY DIGGING OR EXCAVATION.

IOWA 811 ONE CALL SM

WHERE PUBLIC UTILITY FIXTURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK.

IOWA ONE CALL UTILITY CONTACTS

ALLIANT ENERGY
Contact Name : Alliant Energy Field Engineer
Contact Phone: 8002554268 Contact Email: locate_IPL@alliantenergy.com

CENTURYLINK
Contact Name : SADIE HULL
Contact Phone: 9185470147
Contact Email: sadie.hull@lumen.com

MUSCATINE POWER AND WATER
Contact Name : Gabriel Jones / Mark Nelson
Contact Phone: 5632623298 Contact Email: designinfo@mpw.org

CITY OF MUSCATINE
Contact Name : Office
Contact Phone: 5632638933
Contact Email: sewerlocates@muscatineiowa.gov

LICENSED PROFESSIONAL ENGINEER
KEVIN J. COON 26366
IOWA
SEAL

I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

March 31 20 26

KEVIN J. COON, P.E. Iowa Lic. No. 26366

My license renewal date is December 31, 20 27 .

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Cover Sheet, B1, C1, M1-M3

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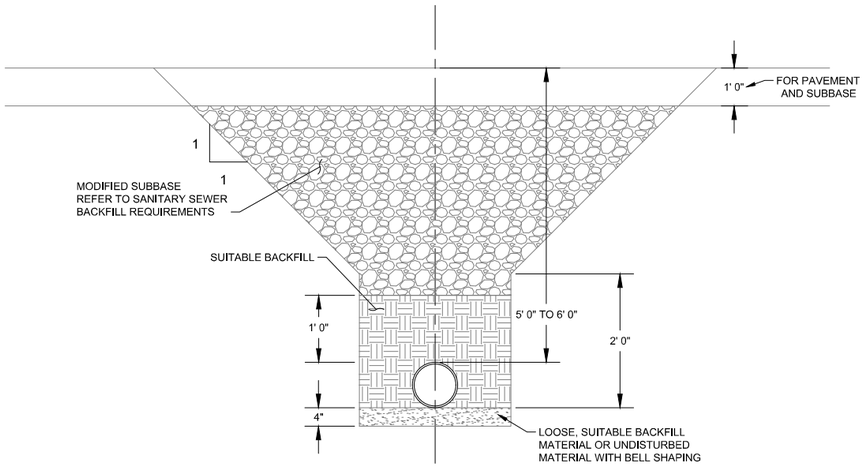
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MPW WHSSP6E
WATER MAIN

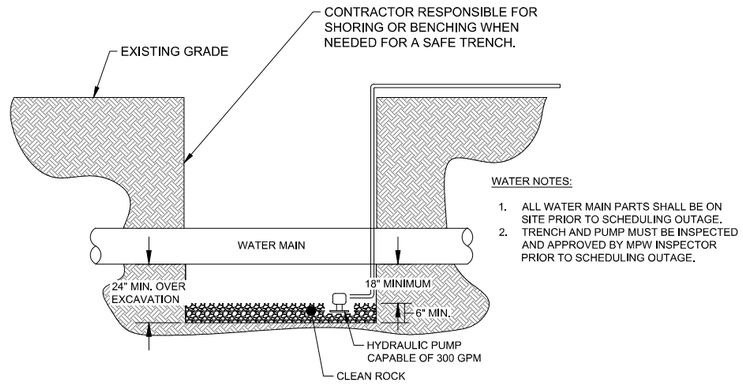
WEST HILL AREA SEWER AND SANITARY SEPARATION
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1 STANDARD TRENCH DETAIL
PVC WATER PIPE CLASS P-1
SCALE: NONE



WATER NOTES:

1. ALL WATER MAIN PARTS SHALL BE ON SITE PRIOR TO SCHEDULING OUTAGE.
2. TRENCH AND PUMP MUST BE INSPECTED AND APPROVED BY MPW INSPECTOR PRIOR TO SCHEDULING OUTAGE.

2 WATER MAIN SANITARY CONDITIONS IN TRENCH
SCALE: NONE

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MPW WHSSP6E WATER MAIN

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PROJECT QUANTITIES

PROJECT QUANTITIES				
ITEM NO.	SUDAS	DESCRIPTION	UNIT	ESTIMATED QUANTITIES
201	5010-A1	WATER MAIN, TRENCHED, C-900 PVC, RESTRAINED JOINT 6"	LF	494
202	5010-C1	FITTINGS, 45 DEGREE ELBOW, 6"	EA	2
203	5010-E	WATER SERVICE ADJUSTMENT, COPPER, 3/4" (REF. NOTE 1)	EA	1
204	5010-E	WATER SERVICE ADJUSTMENT, COPPER, 1" (REF. NOTE 2)	EA	4
205	5010-E	WATER SERVICE REPLACEMENT, COPPER, 1" (REF. NOTE 3)	EA	2
206	5010-F	WATER MAIN ABANDONMENT, 6"	LF	128
207	5010-F	WATER MAIN ABANDONMENT, 1"	LF	262
208	5010-F	WATER MAIN ABANDONMENT, 6" CAP	EA	2
209	5010-F	WATER MAIN ABANDONMENT, 1" CAP	EA	2
210	5020-B1	TAPPING SLEEVE AND VALVE, 6"	EA	3

REFERENCE NOTES

1. INSTALL 3/4" SERVICE SADDLE WITH CORP STOP. INSTALL UP TO 10 LF OF 3/4" TYPE K COPPER SERVICE LINE. RECONNECT TO EXISTING WATER SERVICE.
2. INSTALL 1" SERVICE SADDLE WITH CORP STOP. INSTALL UP TO 10 LF OF 1" TYPE K COPPER SERVICE LINE. RECONNECT TO EXISTING WATER SERVICE.
3. EXISTING LEAD/GALVANIZED SERVICE LINE. INSTALL 1" SERVICE SADDLE WITH CORP. STOP. INSTALL 1" TYPE K COPPER SERVICE LINE. INSTALL CURB STOP NEAR PROPERTY LINE. INSTALL 1" SERVICE LINE INTO HOUSE AND CONNECT TO WATER METER.
4. REFER TO PROPOSED SEWER PLANS FOR LOCATION AND ELEVATION. SEWERS ARE SHOWN ON WATER PLANS FOR REFERENCE ONLY.

TABULATIONS

VALVE				
NO.	ALIGNMENT	APPROX. STATION	APPROX. ELEVATION	TYPE
1	LOGAN N	701+28.78'	671.44'	MJ GATE VALVE, 6"
2	LOGAN S	800+04.60'	671.01'	MJ GATE VALVE, 6"
3	LOGAN S	803+69.28'	692.18'	MJ GATE VALVE, 6"

WATER MAIN FITTINGS				
NO.	ALIGNMENT	APPROX. STATION	APPROX. ELEVATION	TYPE
1	LOGAN N	701+33.25'	671.53'	6" TAPPING SLEEVE
2	LOGAN S	800+02.84'	670.99'	6" TAPPING SLEEVE
3	LOGAN S	800+06.03'	671.02'	45 DEGREE VERTICAL ELBOW, 6" MJ
4	LOGAN S	800+09.89'	673.35'	45 DEGREE VERTICAL ELBOW, 6" MJ
5	LOGAN S	803+71.67'	692.25'	6" TAPPING SLEEVE

WATER SERVICE ADJUSTMENTS						
NO.	ALIGNMENT	APPROX STATION	SIDE	ADDRESS	TYPE	EXISTING MATERIAL
1	LOGAN	700+41.59'	LEFT	1201 LOGAN ST	ADJUSTMENT	COPPER, 1"
2	LOGAN	801+06.52'	RIGHT	1142 LOGAN ST	ADJUSTMENT	COPPER, 1"
3	LOGAN	801+33.65'	LEFT	1141 LOGAN ST	REPLACE TO METER	LEAD, 1"
4	LOGAN	801+77.04'	RIGHT	1140 LOGAN ST	ADJUSTMENT	COPPER, 3/4"
5	LOGAN	801+95.08'	LEFT	1139 LOGAN ST	ADJUSTMENT	COPPER, 1"
6	LOGAN	802+63.54'	RIGHT	1138 LOGAN ST	ADJUSTMENT	COPPER, 1"
7	LOGAN	802+69.39'	LEFT	1137 LOGAN ST	REPLACE TO METER	LEAD, 1"

WATER MAIN						
NO.	ALIGNMENT	APPROX. START STATION	APPROX. END STATION	SIZE (IN)	TYPE	APPROX LENGTH (FT)
1	LOGAN N	700+04.82'	701+33.25'	6	C-900 PVC	128
2	LOGAN S	800+02.84'	803+71.67'	6	C-900 PVC	369

ESTIMATE REFERENCE NOTES

ESTIMATE REFERENCE NOTES			
ITEM NO.	SUDAS	UNIT	DESCRIPTION
201	5010-A1	LF	**WATER MAIN, TRENCHED, C-900 PVC, RESTRAINED JOINT** A. REFER TO SHEETS MPW M.01 THRU MPW M.03 FOR LAYOUT AND SHEET MPW C.01 FOR TABULATION. THIS ITEM INCLUDES TRENCHING HAULING OFF EXCAVATED SOIL TO AN APPROVED LOCATION, INSTALLATION OF PIPE APPURTENANCES, PLACEMENT OF BEDDING AND BACKFILL MATERIAL, COMPACTION TRACER SYSTEM, TESTING AND DISINFECTION. B. BEDDING CLASS SHALL BE P-1 AS SHOWN ON B.01 TESTING AND DISINFECTION SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH SPECIFICATIONS. AFTER COMPLETION OF DISINFECTION THE HIGHLY CHLORINATED WATER MUST BE DECHLORINATED TO LESS THAN 3 PPM CHLORINE.
202	5010-C1	EA	**FITTINGS** A. REFER TO SHEETS MPW M.01 THRU MPW M.03 FOR LAYOUT AND SHEET MPW C.01 FOR TABULATION. THIS ITEM INCLUDES INSTALLATION OF FITTINGS, RESTRAINTS, THRUST BLOCKS, AND POLYETHYLENE WRAP B. ALL FITTINGS SHALL BE MECHANICAL JOINT. ALL BOLTS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL OR HIGHSTRENGTH LOW ALLOY CORTEN BLUE.
203	5010-E	EA	**WATER SERVICE ADJUSTMENT, COPPER, 3/4", (REFERENCE NOTE 1)** A. REFER TO SHEETS MPW M.01 THRU MPW M.03 FOR LAYOUT AND SHEET MPW C.01 FOR TABULATION. THIS ITEM INCLUDES THE REPLACEMENT OR ADJUSTMENT OF 1" TYPE K COPPER SERVICE LINE TO PROVIDE CLEARANCE FOR PROPOSED SEWER, UP TO 10 LF OF TYPE K COPPER SERVICE LINE, AND RECONNECTION TO EXISTING SERVICE.
204	5010-E	EA	**WATER SERVICE CONNECTION, COPPER, 1", (REFERENCE NOTE 2)** A. REFER TO SHEETS MPW M.01 THRU MPW M.03 FOR LAYOUT AND SHEET MPW C.01 FOR TABULATION. THIS ITEM INCLUDES THE INSTALLATION OF A 1" SERVICE SADDLE WITH CORP STOP, UP TO 10 LF OF 1" TYPE K COPPER SERVICE LINE, AND RECONNECTION TO EXISTING WATER SERVICE.
205	5010-E	EA	**WATER SERVICE REPLACEMENT, COPPER, 1", (REFERENCE NOTE 3)** A. REFER TO SHEETS MPW M.01 THRU MPW M.03 FOR LAYOUT AND SHEET MPW C.01 FOR TABULATION. THIS ITEM INCLUDES INSTALLATION OF COPPER PIPE UP TO 100 LF, SERVICE SADDLE, CORPORATION, CURB STOP AND BOX, AND APPURTENANCES FOR A COMPLETE RECONNECTION FROM THE WATER MAIN THE NEW THE WATER METER. THIS ITEM IS FOR ALL LEAD AND GALVANIZED STEEL WATER SERVICE LINES DURING CONSTRUCTION.
206-209	5010-F	LF	**WATER MAIN ABANDONMENT, CAP** A. REFER TO SHEETS MPW M.01 THRU MPW M.03 FOR LAYOUT AND SHEET MPW C.01 FOR TABULATION. THIS ITEM INCLUDES TRENCHING, HAULING OFF EXCAVATED SOIL TO AN APPROVED LOCATION, PIPE CUTTING, REMOVAL AND DISPOSAL OF PIPE, DISPOSAL OF TRENCH WATER, INSTALLATION OF CAP WITH THRUST RESTRAINT, PLACEMENT OF BEDDING AND BACKFILL MATERIAL AND COMPACTION. B. THIS ITEM REQUIRES THE INSTALLATION OF TWO CAPS AND DRY BLOCKING BETWEEN CAPS. C. ALL CAPS SHALL BE MECHANICAL JOINT. ALL BOLTS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL OR HIGH STRENGTH LOW ALLOY CORTEN BLUE. D. THE CONTRACTOR SHALL CONFIRM OUTSIDE DIAMETER OF WATER MAIN PRIOR TO THE OUTAGE FOR CAPS (WATERMAIN IN THIS AREA MAY BE CAST IRON SIZE PIPE). THE LENGTH OF CUT AND CAP TIME SHALL BE KEPT TO A MINIMUM. E. CONTRACTOR SHALL PROVIDE MPW WITH MINIMUM 3 DAYS NOTICE PRIOR TO ANY CUSTOMER OUTAGE.
210	5010-XX	EA	**CUT-IN-CONNECTION** MEASUREMENT & PAYMENT BY EACH CUT-IN CONNECTION MADE. THE UNIT PRICE FOR EACH ITEM INCLUDES, BUT IS NOT LIMITED TO ADVANCED COORDINATION WITH MUSCATINE POWER AND WATER FOR REQUIRED CUSTOMER NOTICES AND OUTAGES; MEASURING, CUTTING, AND REMOVING SECTION OF EXISTING WATER PIPE, PLUG, OR FITTING; DEWATERING AND CLEANING EXISTING WATER PIPE; FURNISHING AND USING ALL TEMPORARY PLUGS AND DISINFECTANT TO PREVENT CONTAMINATION OF EXISTING WATER PIPE; POLYETHLENE WRAP; FURNISHING AND INSTALLING COUPLING, SLEEVE (S), GASKETS, MECHANICAL JOINT GLAND, RESTRAINING DEVICES; LEAK TESTING; BRACING; CONNECTING NEW WATER PIPE TO EXISTING WATER PIPE, FITTING, OR VALVE; EXCAVATION; BACKFILL; COMPACTION; AND FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE WORK.
210	5020-B1	EA	**TAPPINGS SLEEVE AND VALVE** A. REFER TO SHEETS MPW M.01 THRU MPW M.03 FOR LAYOUT AND SHEET MPW C.01 FOR TABULATION. THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, TAPPING SLEEVE, TAPPING VALVE, THE TAP, VALVE BOX AND COVER, VALVE BOX EXTENSION, AND VALVE STEM EXTENSION. B.THE TAPPING VALVE AND SLEEVE MUST MEET MPW'S MATERIAL SPECIFICATIONS.

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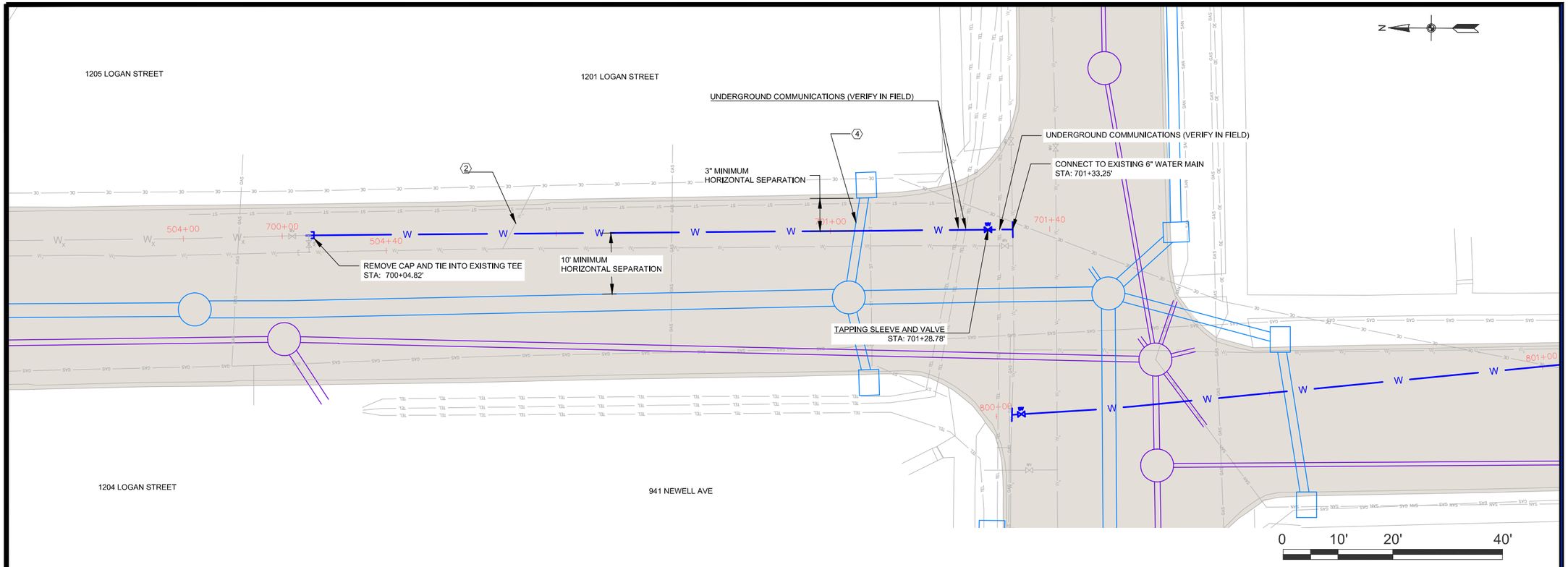
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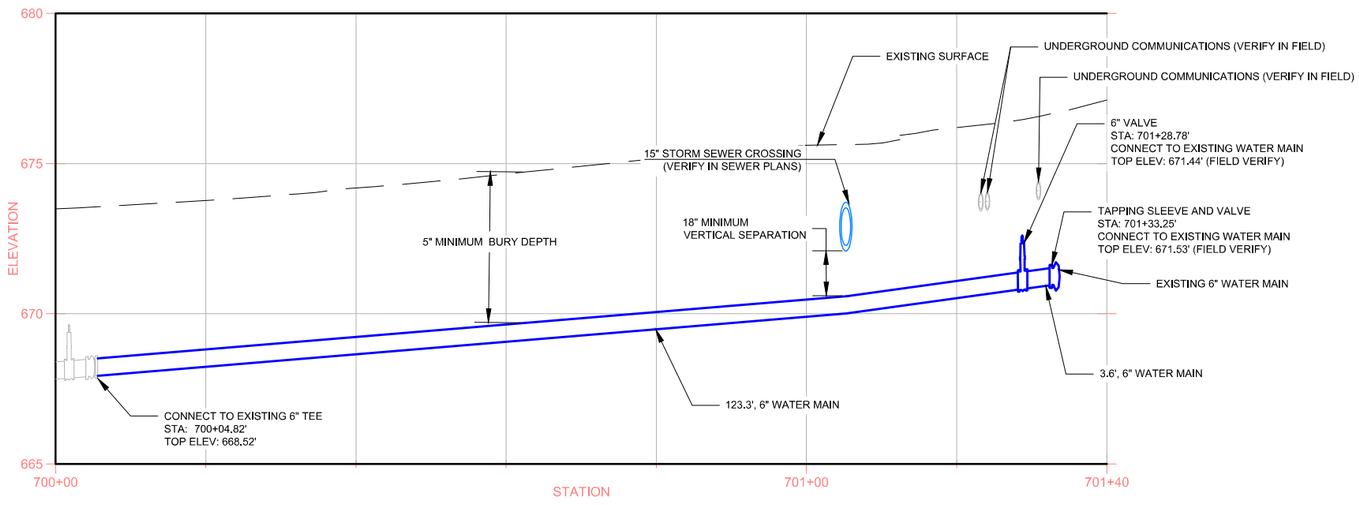
MPW WHSSP6E WATER MAIN

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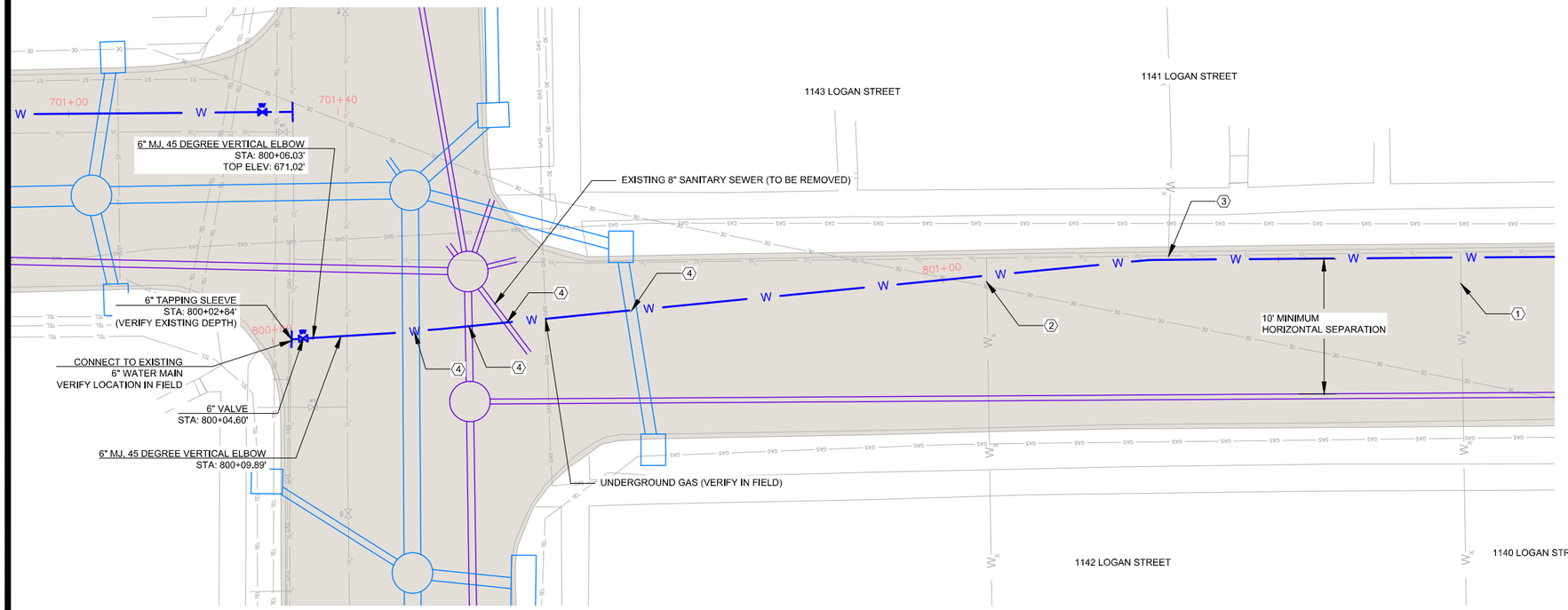
MPW WHSSP6E WATER MAIN

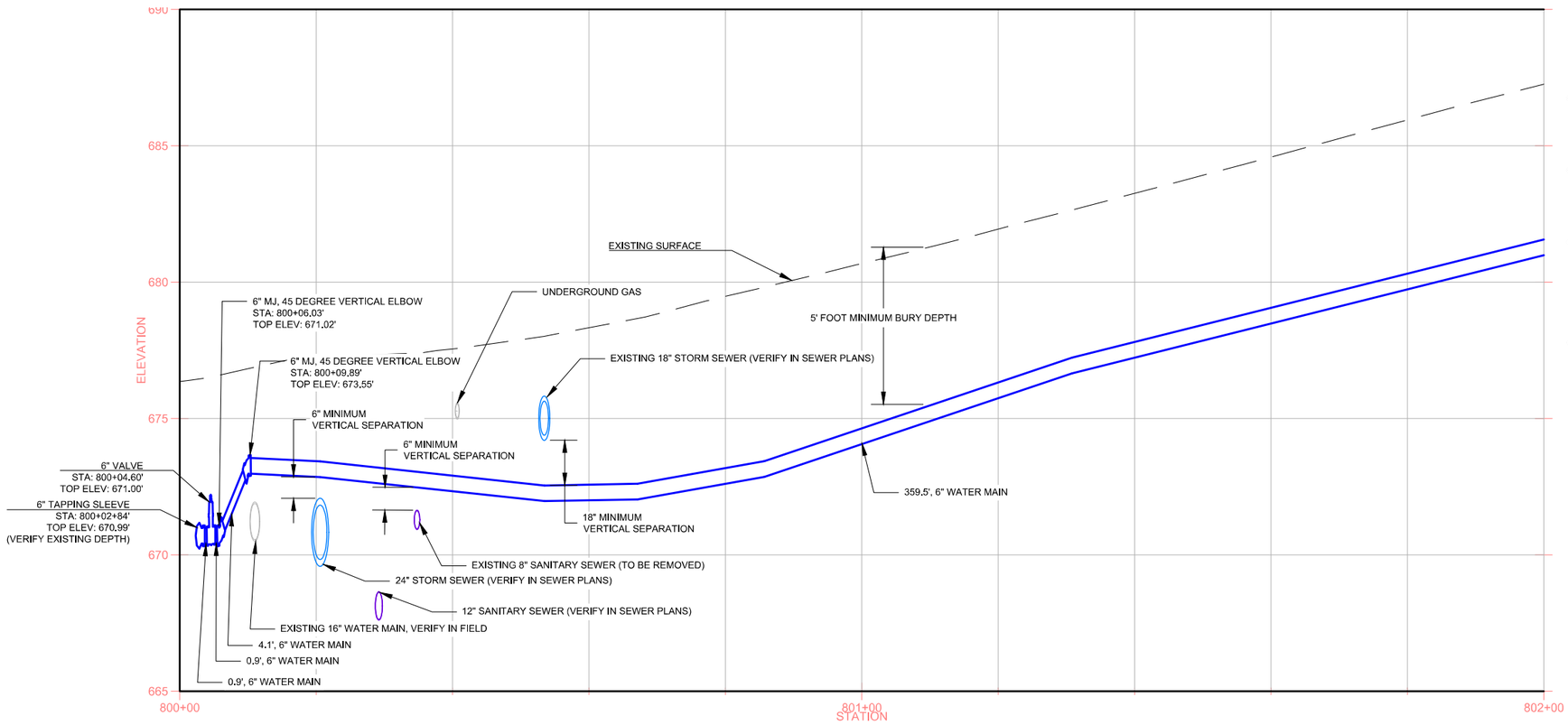
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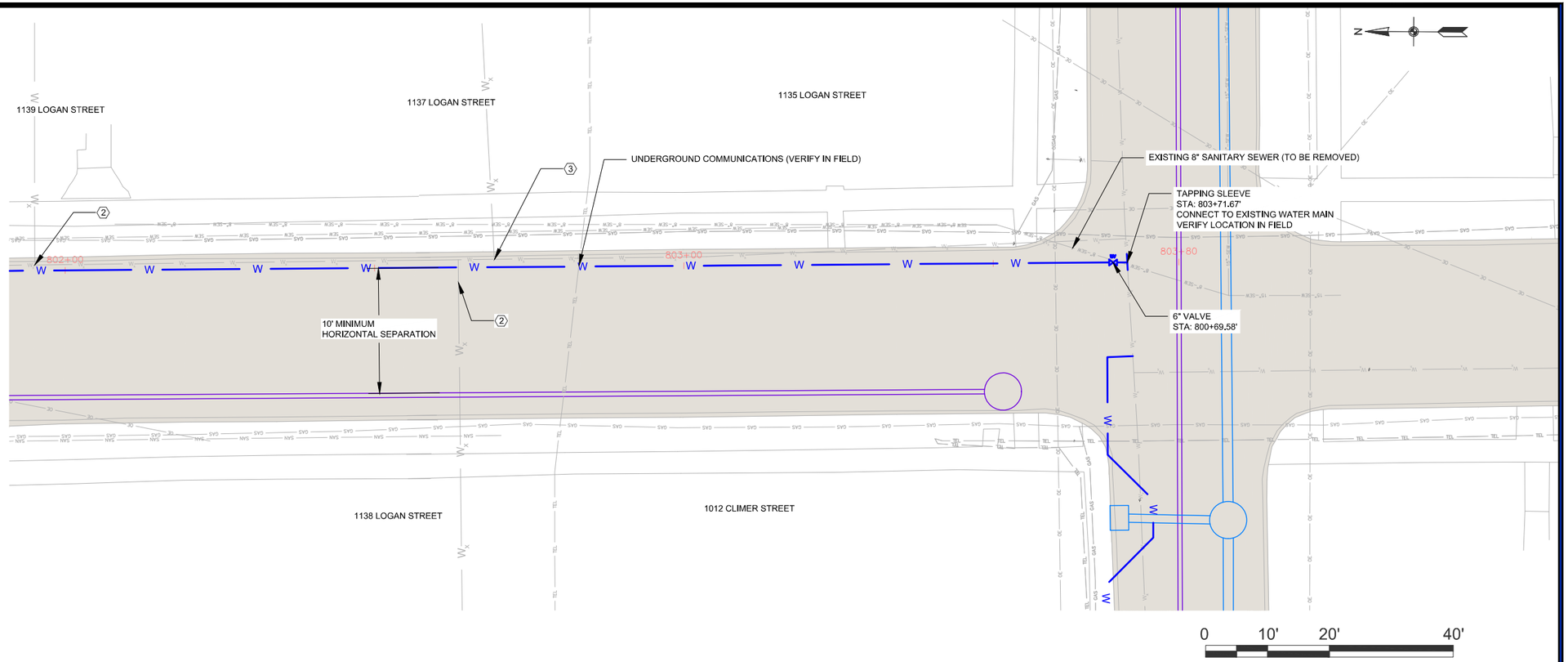
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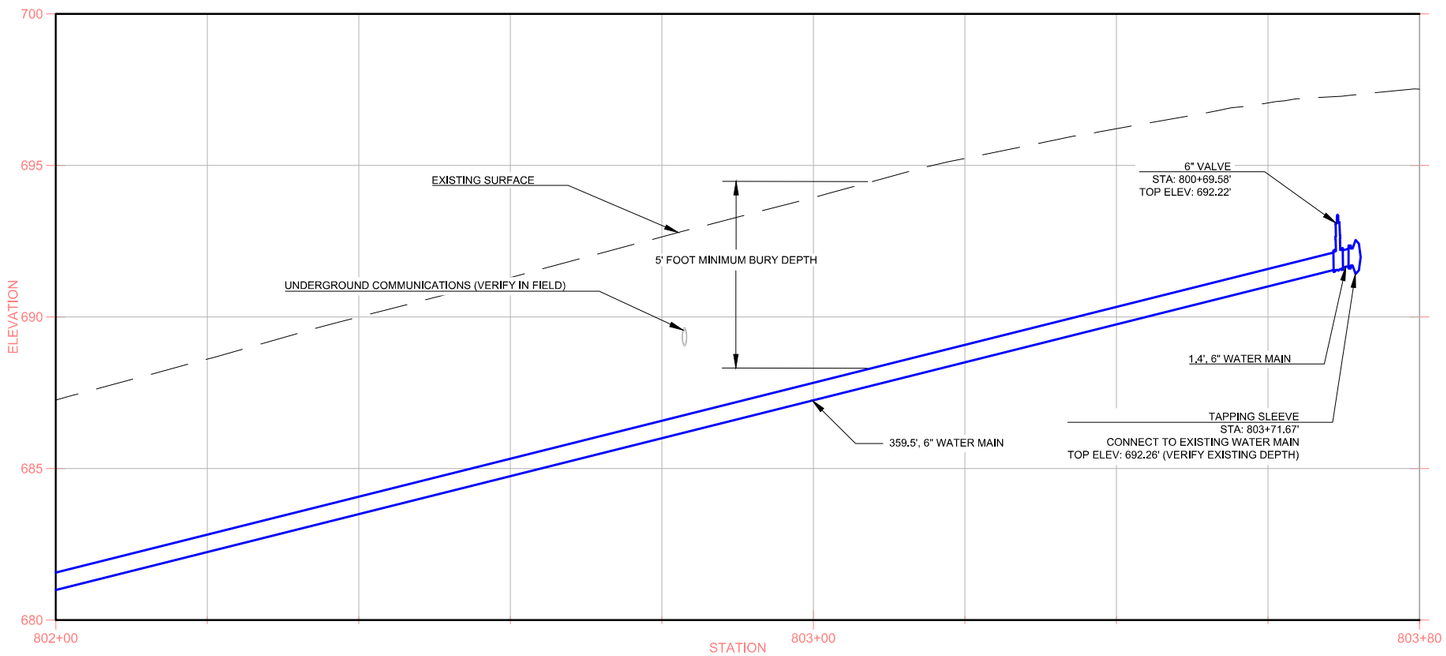
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Project Manual

for

West Hill Area
Sanitary and Storm Sewer Separation
Phase 6E

City of Muscatine
Muscatine, Iowa

Final
March 2026

Stanley Consultants INC.

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Project Manual

for

West Hill Area
Sanitary and Storm Sewer Separation
Phase 6E

City of Muscatine
Muscatine, Iowa

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Karmen K. Heim

Karmen K. Heim

03/30/2026

(signature) (date)

Discipline: Civil Engineer, Iowa License No. P17381

License expires December 31, 2026.

Pages or sheets covered by this seal: As listed on Table of Contents



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Engineering, Environmental and Construction Services - Worldwide

WEST HILL AREA
SANITARY AND STORM SEWER SEPARATION
PHASE 6E

CITY OF MUSCATINE
MUSCATINE, IOWA

PROCUREMENT AND CONTRACTING REQUIREMENTS GROUP

DIVISION 00 PROCUREMENT AND CONTRACTING REQUIREMENTS

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KKH	00 21 13	Instructions to Bidders	1 to 10
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KKH	00 43 13	Bid Bond	1 to 2
KKH	00 43 22	Unit Price Schedule	1 to 4
KKH	00 43 24	Iowa Bidder Status Form	1 to 2
KKH	00 52 13	Contract between Owner and Contractor	1 to 6
KKH	00 63 13	Performance and Payment Bond	1 to 2
	1010 – 1090	SUDAS General Provisions and Covenants	1 to 74
KKH	00 75 00	Special Provisions	1 to 14

SRF Required Front-End Specifications (July 2025 edition)
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Attachment 2 - Statement in Advertisement for Bids on Debarment and Suspension/Certification Regarding Debarment and Suspension Form
Attachment 3 - Disadvantaged Business Enterprise Certification Form
Attachment 4 - DBE Program Subcontractor Performance Form
Attachment 5 - DBE Program Subcontractor Utilization Form
Attachment 6 - RESERVED
Attachment 7 - Other Federal Requirements Language
A. RESERVED
B. Federal Labor Standards Provisions (including Davis-Bacon prevailing wage rates)
C. RESERVED
D. Historical and Archeological Finds
E. Prohibitions on Procurement from Violating Facilities
Attachment 8 - Right of Entry and Records Retention
Attachment 9 - Use of American Iron and Steel
Attachment 10 - Prohibition on Certain Telecommunication and Video Surveillance Services or Equipment

Davis-Bacon Prevailing Wage Rates for Muscatine County
- Construction Types: Heavy and Highway

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KKH	01 33 00	Submittal Procedures	1 to 6
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KKH	01 57 14	SWPPP Owner – Certification	1
KKH	01 57 15	SWPPP – Contractor and Subcontractor Certification	1
KKH	01 57 16	SWPPP Training Log	1
KKH	01 57 17	Stormwater Construction Site Inspection Report	1 to 3
KKH	01 57 18	SWPPP Amendment Log	1
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2026 SUDAS STANDARD SPECIFICATIONS

The following SUDAS Standard Specifications and their requirements referenced are considered part of this project. All requirements of these sections are applicable unless otherwise noted in the contract documents. Sections listed are not included in the printed project manual.

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1010 Definitions
1020 Proposal Requirements and Conditions
1030 Approval for Award and Award of Contract
1040 Scope of Work
1050 Control of Work
1060 Control of Materials
1070 Legal Relations and Responsibility to the Public
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1090 Measurement and Payment

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2010 Earthwork, Subgrade, and Subbase

DIVISION 3 TRENCH AND TRENCHLESS CONSTRUCTION
3010 Trench Excavation and Backfill
3020 Trenchless Construction (Boring, Jacking, and Tunneling)

DIVISION 4 SEWER AND DRAINS
4010 Sanitary Sewers
4020 Storm Sewers
4030 Pipe Culverts
4040 Subdrains and Footing Drain Collectors
4050 Pipe Rehabilitation
4060 Cleaning, Inspection, and Testing of Sewers

DIVISION 5 WATER MAIN AND APPURTENANCES
5010 Water Main and Appurtenances - Pipe and Fittings
5020 Valves, Fire Hydrants, and Appurtenances
5030 Testing and Disinfection

DIVISION 6 STRUCTURES FOR SANITARY AND STORM SEWERS
6010 Structures for Sanitary and Storm Sewers
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7020 Asphalt Pavement
7030 Sidewalks, Shared Use Paths, and Driveways
7040 Pavement Rehabilitation

DIVISION 8 TRAFFIC CONTROL
8020 Pavement Markings
8030 Temporary Traffic Control

DIVISION 9 SITE WORK AND LANDSCAPING
9010 Seeding
9020 Sodding
9040 Erosion and Sediment Control
9060 Chain Link Fence
9070 Landscaping Retaining Walls
9080 Concrete Steps, Handrails, and Safety Rail

DIVISION 11 MISCELLANEOUS
11,010 Construction Survey
11,020 Mobilization
11,030 Temporary Services During Construction
11,050 Concrete Washout

The following SUDAS Standard Figures and their requirements referenced are considered part of this project. All requirements of these sections are applicable unless otherwise noted in the contract documents. Sections listed are not included in the printed project manual.

SUDAS Figures

SUDAS Figure No.	Figure Title
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3010.102	RIGID GRAVITY PIPE TRENCH BEDDING
3010.103	FLEXIBLE GRAVITY PIPE TRENCH BEDDING
3010.104	PRESSURE PIPE TRENCH BEDDING
3010.901	SEWER SUPPORT OVER EXISTING UTILITY LINE
3010.902	REINFORCED PCC BEAM UTILITY LINE SUPPORT
4010.201	SANITARY SEWER SERVICE STUB
4010.203	SANITARY SEWER CLEANOUT
4030.221	RCP APRON SECTION FOOTING
4030.222	CIRCULAR CONCRETE APRONS
4030.224	CONCRETE PIPE APRON GUARD
4040.231	SUBDRAINS
4040.233	SUBDRAIN OUTLETS
6010.301	CIRCULAR SANITARY SEWER MANHOLE
6010.303	SANITARY SEWER MANHOLE OVER EXISTING SEWER
6010.401	CIRCULAR STORM SEWER MANHOLE
6010.501	SINGLE GRATE INTAKE
6010.507	SINGLE OPEN-THROAT CURB INTAKE, SMALL BOX
6010.509	DOUBLE OPEN-THROAT CURB INTAKE, SMALL BOX
6010.545	SINGLE OPEN-THROAT CURB INTAKE WITH EXTENDED OPENING

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7010.102	PCC CURB DETAILS
7010.103	MANHOLE BOXOUTS IN PCC PAVEMENT
7010.901	PCC PAVEMENT JOINTING
7010.904	TYPICAL JOINTING LAYOUT
7030.101	CONCRETE DRIVEWAY, TYPE A
7030.103	DRIVEWAY GRADING
7030.104	RIGHT-OF-WAY GRADING
7030.201	CLASSES OF SIDEWALKS
7030.202	CURB DETAILS FOR CLASS A SIDEWALK
7030.204	GENERAL FEATURES OF AN ACCESSIBLE SIDEWALK
7030.205	GENERAL SIDEWALK AND CURB RAMP DETAILS
7030.206	CURB RAMPS OUTSIDE OF INTERSECTION RADIUS
7030.207	CURB RAMP FOR CLASS B OR C SIDEWALK
7030.208	ALTERNATIVE CURB RAMP FOR CLASS B OR C SIDEWALK
7030.209	CURB RAMPS FOR CLASS A SIDEWALK
7030.210	DETECTABLE WARNING PLACEMENT
7040.101	FULL DEPTH PCC PATCHES LESS THAN OR EQUAL TO 15’ LONG
7040.102	FULL DEPTH PCC PATCHES GREATER THAN 15’ LONG
8030.101	TEMPORARY TRAFFIC CONTROL GENERAL INFORMATION
8030.111	LANE CLOSEURE AT AN INTERSECTION
8030.116	STREET OR ROAD CLOSURE
8030.117	SIDEWALK DETOUR
8030.119	CLOSURE OF MARKED OR UNMARKED CROSSWALK
9040.102	FILTER BERM AND FILTER SOCK
9040.105	WATTLE
9040.119	SILT FENCE
9040.120	STABILIZED CONSTRUCTION EXIT
9080.101	TYPE A CONCRETE STEPS WITH HANDRAIL
9080.102	TYPE B CONCRETE STEPS WITH HANDRAIL
11030.101	TEMPORARY MAILBOXES
11040.101	TEMPORARY GRANULAR SIDEWALK AND TEMPORARY RESIDENTIAL ACCESS
11040.102	TEMPORARY PEDESTRIAN CHANNELIZING DEVICE

Muscatine Power and Water Standard Specifications

Muscatine Power and Water (MPW) has adopted the 2023 Standard Specifications for Water Distribution System Improvements approved by the Board of Water, Electric and Communications Trustees of the City of Muscatine, Iowa. The specifications are used on MPW improvement projects. The Specifications are incorporated herein by reference and are included in this printed project manual.

Notice is hereby given that the City of Muscatine, will receive sealed Bids submitted only to the City's electronic bid submission website, IonWave (https://muscatineiowa.ionwave.net) and filed before April 24, 2026 at 2:00 pm, local time, for West Hill Area Sanitary and Storm Sewer Separation – Phase 6E, at which time Bids will be opened and tabulated. Bids will be acted upon at the regular council meeting on May 5, 2026, or at such later time and place as may then be fixed. Regular council meetings are held on the first and third Tuesdays of the month. All attachments including the bid security shall be uploaded in PDF format to the "Response Attachments" section of the project's page found on the City of Muscatine's IonWave website. Attachments may be completed electronically or by hand and scanned into PDF format.

General summary of Work to be performed: Installation of sanitary and storm sewer to improve and separate existing West Hill combined sewer system. Work will be constructed under a single unit price Contract. The work is divided into multiple stages to be completed over three years 2026, 2027, and 2028, according to the Contract Times defined in the Contract.

Phase 6E work includes general construction of approximately 6,290' of new 8" and 12", and sanitary sewer on Logan Street, Newell Avenue, Climer Street, Maiden Lane, and approximately 813' of 8" cured in place lining of sewer on Fletcher Avenue and 31' of polyurethane lining of a 48" sewer near Iowa Avenue. Storm sewer includes approximately 5,560' of new 12" - 30" storm sewer, inlet piping and inlets. Approximately 500' of water main relocation is included.

All sub-phases include the following work: manholes, sanitary service connections, new inlets, inlet piping, water services, full-width pavement removal and replacement, sidewalk construction, sodding, and other related work. Please note that granular pipe backfill material shall be used under the street and is included in with the pipe price along with trench spoil material removal to a contractor selected location.

Work shall be in accordance with the Bidding Documents, including the Project Manual and Drawings, which are on file at the Issuing Office of the Engineer, Stanley Consultants, Inc., Muscatine, Iowa, from Ms. Mandy Hoag at hoagmandy@stanleygroup.com, telephone 563-264-6657. Prospective Bidders may contact the Issuing Office Mondays through Fridays between the hours of 8 am and 5 pm to obtain printed copies of the Bidding Documents as described below. Drawings include two plan sets; Stanley Consultants' West Hill Area Sanitary and Storm Sewer Separation – Phase 6E set; and City/MPW West Hill Area Sewer Separation Phase 6E Water Main Project set bound together.

Printed copies of the Bidding Documents consisting of 1 Project Manual and 1 full-size set of Drawings may be obtained from the Issuing Office, during the hours indicated above and on demand only, upon deposit or payment in the amount of $250 for each set. Printed copies of 1 Project Manual and 1 half-size set of drawings are available for deposit of $125 for each set. Additional Bidding Documents may be obtained at the same cost but are nonrefundable. The deposit for 1 base set will be refunded to those Bidders who return the Bidding Documents to the Issuing Office in good condition (suitable for re-use) within 14 days after the award of the project. Checks for Bidding Documents shall be payable to Stanley Consultants, Inc. Credit card payment is not available. Alternatively, Bidding Documents are available in electronic format (PDF) for no charge. Bidding documents are available electronically on the City's IonWave website. Plan holder list from IonWave may not include those plan holders who request printed sets only.

Upon Issuing Office's receipt of payment, printed Bidding Documents will be shipped. The date that the Bidding Documents are transmitted by the Issuing Office will be considered the prospective Bidder's date of receipt of the Bidding Documents. Partial sets of Bidding Documents will not be available from the Issuing Office. Neither Owner nor Engineer will be responsible for full or partial sets of Bidding Documents, including Addenda if any, obtained from sources other than the Issuing Office or IonWave website.

A pre-bid conference will be held at 2:00 pm on April 16, 2026 at City Hall, 215 Sycamore Street, Muscatine, Iowa in council chambers. Representatives of Owner and Engineer will be present to discuss the Project. Attendance at the pre-bid conference is highly encouraged but is not mandatory. Bidders are highly encouraged to view site conditions on Newell Avenue, Climer Street, Fletcher Avenue, Logan Street, Lucas Street, and Terrace Heights Drive prior to submitting bids.

The City of Muscatine's work to be performed under this Contract is a project assisted under a program providing Federal financial assistance from State Revolving Loan Fund administered by the Iowa Department of Natural Resources.

Each Bid shall be accompanied, in a separate PDF file, by Bid security in an amount of not less than 5% of the Bid. Bid Bonds must be executed by corporations authorized to contract as Surety in the State of Iowa and in

a form described in the Contract Documents. Bid security shall be forfeited if the Bidder fails or refuses to sign and deliver a signed Agreement and furnish required contract security.

Each Bid shall be accompanied with an Iowa Bidder Status Form. Form is available within project manual. State of Iowa Code, Chapter 73, has provisions for preference of Iowa resident bidders against nonresident bidders if the nonresident state has resident bidder preference requirements. It is the responsibility of nonresident bidders to identify and conform to applicable preferences. Failure to submit a complete and accurate Bidder Status Form with the Bid may result in the bid being deemed nonresponsive and rejected.

Bidders will be required to certify that for all Work to be performed pursuant to the Contract Documents, at least the prevailing rate of wages as found and determined by the Davis-Bacon Act will be paid to all workers and employees employed and working on the Project. Copies of prevailing rates of wages to be paid for each job title and classification in construction work are included in the Contract Documents.

All Bids shall be submitted on forms provided with the Project Manual, to the City's electronic bid submission system on or before the time specified above. If you haven't already done so, you will need to register as a supplier at the City's IonWave website to submit a bid. All bids must be submitted electronically. No paper, emailed faxed, hand-delivered bids will be accepted. No physical bid opening will be held. All bids will be evaluated by the City's electronic bid submission system.

Upon notification of award, Successful Bidder shall furnish contract security in the form of performance, payment, and maintenance bonds described in the Contract Documents.

Performance of the Work will start within 10 calendar days after date of Notice to Proceed and shall be completed within the time stated in the Contract Documents.

The City reserves the right to defer acceptance of any Bid for a period not to exceed 35 calendar days after the date Bids are to be received.

The City reserves the right to consider factors such as the responsibility and responsiveness of Bidders, including the Bidder's experience, number of employees, and ability to finance the cost of the project in determining Bid selection.

The City reserves the right to reject any or all Bids, to waive informalities or technicalities in any Bid and to accept the Bid which it deems to be in the best interest of the City.

CITY OF MUSCATINE, IOWA

By Matt Mardesen
City Administrator

Date _____

1.01 DEFINED TERMS

A. Terms used in these Instructions to Bidders have the meanings indicated in the Statewide Urban Design and Specifications (SUDAS) Division 1 General Provisions and Covenants and project specific Special Provisions. Refer to SUDAS Section 1010 – Definitions for abbreviations, definitions, and terms used in the Contract.

1.02 COPIES OF BIDDING DOCUMENTS

A. Complete sets of the Bidding Documents may be obtained from the Issuing Office in the number and format stated in the Notice to Bidders.

B. Complete sets of Bidding Documents shall be used in preparing Bids; neither Owner nor Engineer assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

C. Owner and Engineer, in making copies of Bidding Documents available on the above terms, do so only for the purpose of obtaining Bids for the Work and do not authorize or confer a license for any other use.

1.03 QUALIFICATIONS OF BIDDERS

A. To demonstrate Bidder's qualifications to perform the Work, after submitting its Bid and within 5 days of Owner's request, Bidder shall submit (a) written evidence establishing its qualifications such as financial data, previous experience, and present commitments, and (b) the following additional information:
   1. Evidence of Bidder's authority to do business in the state where the Project is located.
   2. Bidder's state or other contractor license number, if applicable.
   3. Subcontractor and Supplier qualification information; coordinate with provisions of Article Subcontractors, Suppliers, and Others in this Section.
   4. Other required information regarding qualifications.
   5. Reveal if you have been involved or are currently involved in litigation with the City of Muscatine.
   6. In the event a nonresident labor preference is applicable, the nonresident bidder shall submit the bidder’s plan for conforming to the labor preference and supporting documentation.

B. Bidder's failure to submit required qualification information within the times indicated may disqualify Bidder from receiving an award of the Contract.

C. No requirement in this Article to submit information will prejudice the right of Owner to seek additional pertinent information regarding Bidder's qualifications.

D. Bidder is advised to carefully review those portions of the Bid Form requiring Bidder's representations and certifications.

E. Refer to SUDAS Section 1020, 1.01 for Qualifications of Bidders.

1.04 SITE AND OTHER AREAS; EXISTING SITE CONDITIONS; EXAMINATION OF SITE; OTHER WORK AT THE SITE

A. The Site is identified in the Bidding Documents. By definition, the Site includes rights-of-way and other lands furnished by Owner for the use of the Contractor. Any additional lands required for temporary construction facilities, construction equipment, or storage of materials and equipment, and any access needed for such additional lands, are to be obtained and paid for by Contractor.

B. Existing site conditions:
   1. Subsurface and Physical Conditions; Hazardous Environmental Conditions:
      a. The Special Provisions identify:
         1) those reports known to Owner of explorations and tests of subsurface conditions at or adjacent to the Site.
         2) those drawings known to Owner of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities).
         3) reports and drawings known to Owner relating to Hazardous Environmental Conditions that have been identified at or adjacent to the Site.
         4) Technical Data contained in such reports and drawings.
      b. Owner will provide electronic pdfs of material referenced in Special Provisions available to any Bidder on request. These reports and drawings are not part of the Contract Documents, but the Technical Data contained therein upon whose accuracy Bidder is entitled to rely, established in the Special Provisions. Bidder is responsible for any interpretation or conclusion Bidder draws from any Technical Data or any other data, interpretations, opinions, or information contained in such reports or shown or indicated in such drawings.
      c. Technical data as defined in Special Provisions.
   2. Underground Facilities: Information and data shown or indicated in the Bidding Documents with respect to existing Underground Facilities at or contiguous to the Site are set forth in the Contract Documents and are based upon information and data furnished to Owner and Engineer by owners of such Underground Facilities, including Owner, or others.
   3. Adequacy of Data: Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with respect to subsurface conditions, other physical conditions, and Underground Facilities, and possible changes in the Bidding Documents due to differing or unanticipated subsurface or physical conditions appear in SUDAS Standard Specifications Section 1040, 1.08, and 1.09.

C. Site visit and testing by bidders:
   1. Bidder may conduct the Site visit during normal working hours, and shall not disturb any ongoing operations at the Site.
   2. Bidder may conduct any subsurface testing, or exhaustive investigations of Site conditions.
   3. On request, and to the extent Owner has control over the Site, and schedule permitting, the Owner will provide Bidder access to the Site to conduct such additional examinations, investigations, explorations, tests, and studies as Bidder deems necessary for preparing and submitting a successful Bid. Owner will not have any obligation to grant such access if doing so is not practical because of existing operations, security or safety concerns, or restraints on Owner's authority regarding the Site.
   4. Bidder shall comply with all applicable Laws and Regulations regarding excavation and location of utilities, obtain all permits, and comply with all terms and conditions established by Owner or by property owners or other entities controlling the Site with respect to schedule, access, existing operations, security, liability insurance, and applicable safety programs.
   5. Bidder shall fill all holes and clean up and restore the Site to its former condition upon completion of such explorations, investigations, tests, and studies.

D. Other work at the Site: Refer to Special Provisions for the identification of the general nature of other work of which Owner is aware (if any) that is to be performed at the Site by Owner or others (such as utilities and other prime contractors) and relates to the Work contemplated by these Bidding Documents. If Owner is party to a written contract for such other work, then on request, Owner will provide to each Bidder access to examine such contracts (other than portions thereof related to price and other confidential matters), if any.

1.05 BIDDER'S REPRESENTATIONS

A. It is the responsibility of each Bidder before submitting a Bid to:
   1. examine and carefully study the Bidding Documents, and any data and reference items identified in the Bidding Documents;

2. visit the Site, conduct a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfy itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work;
3. become familiar with and satisfy itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work;
4. carefully study all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Special Provisions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Special Provisions, especially with respect to Technical Data in such reports and drawings;
5. consider the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.
6. agree, based on the information and observations referred to in the preceding paragraph, that at the time of submitting its Bid no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of its Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents;
7. become aware of the general nature of the work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents;
8. promptly give Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder discovers in the Bidding Documents and confirm that the written resolution thereof by Engineer is acceptable to Bidder;
9. determine that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work; and
10. agree that the submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

1.06 PREBID CONFERENCE

A. A prebid conference will be held at the time stated in the Notice to Bidders.

B. Bidders are encouraged to attend and participate in the pre-bid conference. Engineer will transmit to all prospective Bidders of record such Addenda as Engineer considers necessary in response to questions arising at the conference. Oral statements may not be relied upon and will not be binding or legally effective.

1.07 INTERPRETATIONS AND ADDENDA

A. All questions about the meaning or intent of the Bidding Documents are to be submitted to Design Engineer in writing.

Ms. Karmen K. Heim
Stanley Consultants, Inc.
Stanley Building
225 Iowa Avenue
Muscatine, Iowa 52761-3764
Phone: 563-264-6287
Email: heimkarmen@stanleygroup.com

B. Interpretations or clarifications considered necessary by Engineer in response to such questions will be issued by Addenda delivered to all parties recorded by Engineer as having received the Bidding

Documents. Questions received less than 7 calendar days prior to the date for opening of Bids may not be answered. Only questions answered by Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

C. Addenda may be issued to clarify, correct, or change the Bidding Documents as deemed advisable by Owner or Engineer. Refer to SUDAS Section 1020, 1.05 and 1.06 regarding Interpretations and Addendums. Bidders shall record receipt of addenda on Bid Form (Document 00 41 13).

1.08 BID SECURITY

A. A Bid must be accompanied by Bid security made payable to Owner in an amount of 5% of Bidder's maximum Bid price (determined by adding the base bid and all alternates) and in the form of a certified check, bank money order, or a Bid bond (on the form included in the Bidding Documents) issued by a surety meeting the requirements of SUDAS Standard Specifications Section 1070.

B. The Bid security of the apparent Successful Bidder will be retained until Owner awards the contract to such Bidder, and such Bidder has executed the Contract Documents, furnished the required contract security, and met the other conditions of the Notice of Award, whereupon the Bid security will be released. If the Successful Bidder fails to execute and deliver the Contract Documents and furnish the required contract security within 15 days after the Notice of Award, Owner may consider Bidder to be in default, annul the Notice of Award, and the Bid security of that Bidder will be forfeited. Such forfeiture shall be Owner's exclusive remedy if Bidder defaults.

C. The Bid security of other Bidders whom Owner believes to have a reasonable chance of receiving the award may be retained by Owner until the earlier of 7 days after the Effective Date of the Contract or 36 days after the Bid opening, whereupon Bid security furnished by such Bidders will be returned.

D. Bid security of other Bidders whom Owner believes do not have a reasonable chance of receiving the award will be returned within 7 days after the Bid opening.

E. Refer to SUDAS Section 1020, 1.12 for Bid Security submittal requirements.

F. In the event a nonresident labor preference is applicable, the nonresident bidder shall submit the bidder's plan for conforming to the labor preference and supporting documentation.

1.09 IOWA BIDDER STATUS FORM

A. Bidder Status Form is required by the Iowa Labor Commissioner, pursuant to the Iowa Administrative Code rule 875-156.2(1). Bidder shall complete and submit Bidder Status Form, signed by an authorized representative of the Bidder, with their Bid.

B. Under Iowa Administrative Code rule 875-156.2(1), failure to provide the Bidder Status Form with the Bid may result in the bid being deemed nonresponsive and may result in the Bid being rejected.

C. The Worksheet: Authorized to Transact Business from the Labor Commissioner is included in this project manual and may be used to assist Bidders in completing the Bidder Status Form.

D. Refer to SUDAS Section 1020, 1.09 for submittal requirements of the Iowa Bidder Status Form.

1.10 CONTRACT TIMES

A. The number of days within which, or the dates by which, Milestones are to be achieved, and the Work is to be substantially completed and ready for final payment are set forth in the Contract.

B. Refer to SUDAS Section 1080, 1.02 for Completion Date contract requirements.

1.11 LIQUIDATED DAMAGES

A. Provisions for liquidated damages, if any, for failure to timely attain a Milestone, Substantial Completion, or completion of the Work in readiness for final payment, are set forth in the Contract.

B. Refer to SUDAS Section 1080, 1.12 for Liquidated Damages contract requirements.

1.12 SUBSTITUTE AND “OR-EQUAL” ITEMS

A. The Contract for the Work, as awarded, will be on the basis of materials and equipment specified or described in the Bidding Documents without consideration during the bidding and Contract award process of possible substitute or "or-equal" items. In cases in which the Contract allows the Contractor to request that Engineer authorize the use of a substitute or "or-equal" item of material or equipment, application for such acceptance may not be made to and will not be considered by Engineer until after the Effective Date of the Contract.

B. All prices that Bidder sets forth in its Bid shall be based on the presumption that the Contractor will furnish the materials and equipment specified or described in the Bidding Documents, as supplemented by Addenda. Any assumptions regarding the possibility of post-Bid approvals of "or-equal" or substitution requests are made at Bidder's sole risk.

C. Refer to SUDAS Section 1060, 1.02 for requirements on Alternate Processes, Equipment, Or Materials

1.13 SUBCONTRACTORS, SUPPLIERS AND OTHERS

A. A Bidder shall be prepared to retain specific Subcontractors, Suppliers, or other individuals or entities for the performance of the Work if required by the Bidding Documents (most commonly in the Specifications) to do so. If a prospective Bidder objects to retaining any such Subcontractor, Supplier, or other individual or entity, and the concern is not relieved by an Addendum, then the prospective Bidder should refrain from submitting a Bid.

B. Subsequent to the submittal of the Bid, Owner may not require the Successful Bidder or Contractor to retain any Subcontractor, Supplier, or other individual or entity against which Contractor has reasonable objection.

C. The apparent Successful Bidder, and any other Bidder so requested, shall within 5 days after Bid opening, submit to Owner a list of the Subcontractors or Suppliers.

D. If requested by Owner, such list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each such Subcontractor, Supplier, or other individual or entity. If Owner or Engineer, after due investigation, has reasonable objection to any proposed Subcontractor, Supplier, individual, or entity, Owner may, before the Notice of Award is given, request apparent Successful Bidder to submit an acceptable substitute, in which case apparent Successful Bidder shall submit a substitute, Bidder's Bid price will be increased (or decreased) by the difference in cost occasioned by such substitution, and Owner may consider such price adjustment in evaluating Bids and making the Contract award.

E. If apparent Successful Bidder declines to make any such substitution, Owner may award the Contract to the next lowest Bidder that proposes to use acceptable Subcontractors, Suppliers, or other individuals or entities. Declining to make requested substitutions will constitute grounds for forfeiture of the Bid security of any Bidder. Any Subcontractor, Supplier, individual, or entity so listed and against which Owner or Engineer makes no written objection prior to the giving of the Notice of Award will be deemed acceptable to Owner and Engineer subject to subsequent revocation.

1.14 PREPARATION OF BID PROPOSAL

A. Bid Form is included with the Bidding Documents.
   1. All blanks on the Bid Form shall be completed and the Bid Form signed. Erasures or alterations shall be initialed by the person signing the Bid Form. A Bid price shall be indicated for each section, Bid item, alternate, unit adjustment price item, and unit price item listed therein.
   2. If the Bid Form expressly indicates that submitting pricing on a specific alternate item is optional, and Bidder elects to not furnish pricing for such optional alternate item, then Bidder may enter the words "No Bid" or "Not Applicable."
   3. Bidders shall enter their bid within the City of Muscatine's IonWave bidding site (https://muscatineiowa.ionwave.net) which will match the Unit Price Schedule provided in Section 00 43 22. If Bidder notices a discrepancy the Bidder shall communicate to the City and Design Engineer immediately. All attachments and bid security shall be uploaded in PDF file format to the "Response Attachments" section of the bidding website. Attachments may be completed electronically, or by hand and scanned into a PDF file format, according to bidders preference. Verify you have uploaded all the required attachments prior to submitting your bid.

B. Bid by a corporation shall be executed in the corporate name by a corporate officer (whose title must appear under the signature), accompanied by evidence of authority to sign. The corporate address and state of incorporation shall be shown.

C. Bid by a limited liability company shall be executed in the name of the firm by a member or other authorized person and accompanied by evidence of authority to sign. The state of formation of the firm and the official address of the firm shall be shown.

D. Bid by an individual shall show the Bidder's name and official address.

E. Bid by a joint venture shall be executed by an authorized representative of each joint venturer in the manner indicated on the Bid Form. The official address of the joint venture shall be shown.

F. All names shall be printed below the signatures. All forms requiring signatures shall be signed in ink, scanned and uploaded to the IonWave bidding site as an attachment.

G. Bid shall contain an acknowledgment of receipt of all Addenda, the numbers of which shall be filled in on the Bid Form.

H. Postal and e-mail addresses and telephone number for communications regarding the Bid shall be shown.

I. Bid shall contain evidence of Bidder's authority and qualification to do business in the state where the Project is located, or Bidder shall covenant in writing to obtain such authority and qualification prior to award of the Contract and attach such covenant to the Bid. Bidder's state contractor license number, if any, shall also be shown on the Bid Form.

J. Refer to SUDAS Section 1020 1.09 for Preparation of Proposal.

1.15 BASIS OF BID; COMPARISON OF BIDS

A. Unit Price:
   1. Bidders shall submit a Bid on a unit price basis for each item of Work listed in Section 00 43 22 – Unit Price Schedule.
   2. The Bid Price for each unit price Bid item will be the product of the Estimated Quantity (which Owner or its representative has set forth in the Bid Form) for the item and the corresponding Bid Unit Price offered by the Bidder. The total of all unit price Bid items will be the sum of these Bid Prices; such total will be used by Owner for Bid comparison purposes. The final quantities and Contract Price will be determined in accordance with SUDAS Standard Specifications Section 1090.

3. Discrepancies between the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.

1.16 SUBMITTAL OF BID

A. With each copy of the Bidding Documents, a Bidder is furnished a copy of the Bid Form, Unit Price Schedule, and the Bid Bond Form. The Bid Form is to be completed and submitted with the Bid security and the other documents required to be submitted under the terms of Article 8 of the Bid Form.

B. A Bid shall be received no later than the date and time prescribed and at the place indicated in the Notice to Bidders and shall be plainly marked with the Project title (and, if applicable, the designated portion of the Project for which the Bid is submitted), the name and address of Bidder, and shall be accompanied by the Bid security and other required documents.

C. Bids received after the date and time prescribed for the opening of bids, or not submitted in the designated manner, will not be accepted and will be returned to the Bidder unopened.

D. Only bids submitted to the City's IonWave bidding site will be considered. Bids sent by mail, delivery system, faxed, hand-delivered, emailed or other electronic submittal means will not be considered.

E. The final step of the online bid submission is a digital signature certifying all entries and response attachments to be correct. The signature must be by the same individual who is the Company Owner or an authorized Office of the Company. If an addendum which materially affects bid quantities is issued after your bid is submitted, your status will chance from "Complete" to "Not Submitted". An addendum will not be issued less than 24 hours before the bid opening. The bidder is solely responsible for monitoring the status of their bid.

1.17 MODIFICATION AND WITHDRAWAL OF BID

A. Bid may be withdrawn by an appropriate document duly executed in the same manner that a Bid must be executed and delivered to the place where Bids are to be submitted prior to the date and time for the opening of Bids. Upon receipt of such notice, the unopened Bid will be returned to the Bidder.

B. If a Bidder wishes to modify its Bid prior to Bid opening, Bidder must withdraw its initial Bid in the manner specified in Paragraph A. and submit a new Bid prior to the date and time for the opening of Bids.

C. If within 24 hours after Bids are opened, any Bidder files a duly signed written notice with Owner and promptly thereafter demonstrates to the reasonable satisfaction of Owner that there was a material and substantial mistake in the preparation of its Bid, that Bidder may withdraw its Bid, and the Bid security will be returned. Thereafter, if the Work is rebid, that Bidder will be disqualified from further bidding on the Work.

D. Refer to SUDAS Section 1020, 1.13 for Withdrawal or Revision of the Proposal Prior to Opening of Proposals

1.18 OPENING OF BIDS

A. Bids will be opened at the time and place indicated in the Notice to Bidders. An abstract of the amounts of the base Bids and major alternates, if any, will be made available to Bidders after the opening of Bids.

B. Refer to SUDAS Section 1020, 1.14 Opening of Proposals.

1.19 BIDS TO REMAIN SUBJECT TO ACCEPTANCE

A. Bids will remain subject to acceptance for the period of time stated in the Bid Form, but Owner may, in its sole discretion, release any Bid and return the Bid security prior to the end of this period.

B. Refer to SUDAS Section 1020, 1.15 Limitation on Withdrawal of Proposals After Opening of Proposals.

1.20 EVALUATION OF BIDS AND AWARD OF CONTRACT

A. Owner reserves the right to reject any or all Bids, including without limitation, nonconforming, nonresponsive, unbalanced, or conditional Bids. Owner will reject the Bid of any Bidder that Owner finds, after reasonable inquiry and evaluation, to not be responsible. If Bidder purports to add terms or conditions to its Bid, takes exception to any provision of the Bidding Documents, or attempts to alter the contents of the Contract Documents for purposes of the Bid, then the Owner will reject the Bid as nonresponsive; provided that Owner also reserves the right to waive all minor informalities not involving price, time, or changes in the Work.

B. If Owner awards the contract for the Work, such award shall be to the responsible Bidder submitting the lowest responsive Bid.

C. Evaluation of Bids:
   1. In evaluating Bids, Owner will consider whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices, and other data, as may be requested in the Bid Form or prior to the Notice of Award.
   2. For the determination of the apparent low Bidder when unit price bids are submitted, Bids will be compared on the basis of the total of the products of the estimated quantity of each item and unit price Bid for that item, together with any lump sum items.

D. In evaluating whether a Bidder is responsible, Owner will consider the qualifications of the Bidder and may consider the qualifications and experience of Subcontractors and suppliers proposed for those portions of the Work for which the identity of Subcontractors and suppliers must be submitted as provided in the Bidding Documents. Past project performance will be considered.

E. Owner may conduct such investigations as Owner deems necessary to establish the responsibility, qualifications, and financial ability of Bidders and any proposed Subcontractors or suppliers.

F. Refer to SUDAS Section 1030 Approval for Award and Award of Contract.

1.21 BONDS AND INSURANCE

A. SUDAS Standard Specifications Section 1070, as may be modified by the Special Provisions, sets forth Owner's requirements as to performance and payment bonds, 2-year maintenance bond, and insurance. When the Successful Bidder delivers the Contract (executed by Successful Bidder) to Owner, it shall be accompanied by required bonds and insurance documentation.

1.22 SIGNING OF CONTRACT

A. When Owner issues a Notice of Award to the Successful Bidder, it shall be accompanied by the unexecuted counterparts of the Contract along with the other Contract Documents as identified in the Contract.

B. Within 15 days thereafter, Successful Bidder shall execute and deliver the required number of counterparts of the Contract (and any bonds and insurance documentation required to be delivered by the Contract Documents) to Owner.

C. Within 10 days thereafter, Owner shall deliver one fully executed counterpart of the Contract to Successful Bidder, together with printed and electronic copies of the Contract Documents.

1.23 SALES AND USE TAXES

A. Owner is exempt from Iowa state sales and use taxes on materials and equipment to be incorporated in the Work. Said taxes shall not be included in the Bid. Refer to SUDAS Standard Specifications Section 1020, 1.08 for additional information.

B. Complete information on qualifying materials and supplies can be found at https://tax.iowa.gov, the Iowa Department of Revenue web site. Bids submitted for this Project should be submitted on this basis.

1.24 DEBARMENT AND SUSPENSION

A. Bidders and equipment suppliers who are listed on the U.S. General Services Administration Excluded Parties List will be prohibited from bidding.

B. Refer to SRF Attachment 2. Bidders shall review, certify, and submit the completed form regarding debarment, suspension, and other responsibility matters.

1.25 DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

A. The project is subject to Iowa's Fair Share goals which aims at awarding work to small, minority, and women-owned businesses, collectively known as Disadvantaged Business Enterprises (DBEs).

B. Bidders shall take affirmative action for DBE participation. Documentation of the efforts and proposed utilization of certified DBE's is required. Refer to SRF Attachments 3, 4, and 5 for requirements.

C. SRF Attachments 3 must be signed and submitted with bid. If the Bidder will be using DBE subcontractor (s), SRF Attachments 4 and 5 shall be submitted with the bid.

1.26 FEDERAL REQUIREMENTS

A. The project is subject to the federal requirements as summarized in the SRF Attachment 7.

B. Contractors shall abide by the Federal Labor Standards Provisions (including Davis-Bacon prevailing wage rates).

C. If during the course of construction, evidence of deposits of historical or archeological interest are found, contractor shall cease operations affecting the find.

D. Award of the project will be prohibited to persons or suppliers who have been convicted of violations of the Clean Air Act and the Clean Water Act.

1.27 RIGHT OF ENTRY AND RECORDS RETENTION

A. Project is always subject to site inspections and project records and document audits from the Iowa Department of Natural Resources, the Iowa Finance Authority, the state auditor, and the US EPA.

B. Refer to SRF Attachment 8 for requirements.

1.28 AMERICAN IRON AND STEEL

A. Project is subject to American Iron and Steel provisions under the H.R. 3547 Consolidated Appropriations Act, 2014.

B. All iron and steel products used in the project shall be produced in the United States.

C. Contractor shall obtain certifications that products and materials used in the project are US made.

D. Refer to SRF Attachment 9 for requirements and procedures for material certifications and waivers.

1.29 PROHIBITION ON CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT.

A. Bidder shall meet the terms and conditions of 2 CFR 200.216 which prohibit using loan funds on certain equipment, systems, or services.

B. Bidder shall review, certify, and submit the signed form indicating their bid will meet the requirements listed on SRF Attachment 10.

END OF DOCUMENT

PROJECT AND CONTRACT IDENTIFICATION

This Bid pertains to Contract West Hill Area Sanitary and Storm Sewer Separation – Phase 6E for the City of Muscatine, Iowa.

ARTICLE 1 - BID RECIPIENT

1.01 This Bid is submitted to: CITY CLERK'S OFFICE
CITY PURCHASING AGENT
215 SYCAMORE STREET
MUSCATINE, IOWA 52761

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into a Contract with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 - BIDDER'S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 35 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 - BIDDER'S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

Addendum No.	Addendum Date

B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Special Provisions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Special Provisions, especially with respect to Technical Data in such reports and drawings.

E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.

F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.

G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.

I. Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.

J. Submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 - BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation;

B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;

C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and

D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
   1. “corrupt practice” means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process;
   2. “fraudulent practice” means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
   3. “collusive practice” means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, noncompetitive levels; and
   4. “coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 - BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the price shown on Section 00 43 22 Unit Price Schedule.

5.02 Unit Price Bid: Bidder acknowledges that (1) each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor’s overhead and profit for each separately identified item, and (2) estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all unit price Bid items will be based on actual installed quantities, determined as provided in the Contract Documents.

ARTICLE 6 - TIME OF COMPLETION

6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with paragraph 1.08 of SUDAS Standard Specifications Section 1090 Measurement and Payment on or before the dates or within the number of calendar days indicated in the Contract.

6.02 Bidder accepts the provisions of the Contract as to liquidated damages in the event of failure to complete the Work within the Contract Times.

ARTICLE 7 - EXCEPTIONS AND CLARIFICATIONS

7.01 Attach a separate PDF file labeled "Exceptions and Clarifications" separate from the Bid, containing listing on Bidder's letterhead of all exceptions and clarifications to Contract Documents, referencing page number and paragraph of Contract Documents involved. If there are no exceptions or clarifications, include statement to such effect with the Bid. Excessive exceptions or clarifications may render Bid unresponsive. Bidder agrees to all provisions contained in Contract Documents unless specifically listed as an exception or clarification. If Bidder submits drawings, printed forms, standard statements, or other revisions which conflict with Contract Documents, the Contract Documents will prevail.

ARTICLE 8 - ATTACHMENTS TO THIS BID

8.01 The following documents are attached to and made a condition of this Bid:

A. Statement of no Exceptions and Clarifications, if appropriate (submit with bid);

B. Exceptions and Clarifications to Contract Documents, if appropriate, (submit with bid as separate PDF file);

C. Required Bid security (submit with bid as separate PDF file);

D. Required Iowa Bidder Status Form (submit with bid as separate PDF file);

E. List of proposed Subcontractors and Suppliers; as requested after the bid.

F. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such license within the time for acceptance of Bids;

G. Contractor’s License No.: _____.

H. Evidence of Bidder’s ability to obtain a State Contractor’s License and a covenant by Bidder to obtain said license within the time for acceptance of Bids;

I. SRF Attachment 1 - RESERVED;

J. SRF Attachment 2 - Statement in Advertisement for Bids on Debarment and Suspension/Certification Regarding Debarment and Suspension Form (submit with bid);

K. SRF Attachment 3 - Disadvantaged Business Enterprise Certification Form (submit with bid);

L. SRF Attachment 4 - DBE Program Subcontractor Performance Form (submit with bid if using a DBE);

M. SRF Attachment 5 - DBE Program Subcontractor Utilization Form (submit with bid if using a DBE);

N. SRF Attachment 6 - RESERVED;

O. SRF Attachment 7 - Other Federal Requirements Language (incorporated by reference)
   a. RESERVED
   b. Federal Labor Standards Provisions (including Davis-Bacon prevailing wage rates)
   c. RESERVED
   d. Historical and Archeological Finds
   e. Prohibitions on Procurement from Violating Facilities

P. SRF Attachment 8 - Right of Entry and Records Retention (incorporated by reference);

Q. SRF Attachment 9 - Use of American Iron and Steel (incorporated by reference);

R. SRF Attachment 10 - Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment (submit with bid)

ARTICLE 9 - DEFINED TERMS

9.01 The terms used in this Bid with initial capital letters have the meanings indicated in the Instructions to Bidders, the SUDAS General Provisions and Covenants, and the Special Provisions.

ARTICLE 10 - BID SUBMITTAL

Bidder: *(Indicate correct name of bidding entity)*

_____

By: _____
(Signature)

_____
(Printed Name)
(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest: _____
(Signature)

_____
(Printed Name)

Title: _____

Submittal Date: _____

Address for giving notices:

_____

_____

_____

Telephone No. _____

Facsimile No. _____

Contact Name and email address: _____

_____

Contractor's License Number: _____.

BID BOND

Any singular reference to Bidder, Surety, Owner or other party shall be considered plural where applicable.

BIDDER *(Name and Address)*:

SURETY *(Name and Address of Principal Place of Business)*:

OWNER *(Name and Address)*:

BID

Bid Due Date:

Description *(Project Name and Include Location)*:

BOND

Bond Number:

Date:

Penal sum _____ $ _____

(Words) (Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Bid Bond to be duly executed by an authorized officer, agent, or representative.

BIDDER	**SURETY**
_____ (Seal)	_____ (Seal)
Bidder's Name and Corporate Seal	Surety's Name and Corporate Seal
By: _____	By: _____
Signature	Signature (Attach Power of Attorney)
_____	_____
Print Name	Print Name
_____	_____
Title	Title
Attest: _____	Attest: _____
Signature	Signature
_____	_____
Title	Title

Note: Above addresses are to be used for giving any required notice. Provide execution by any additional parties, such as joint venturers, if necessary.

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to pay to Owner upon default of Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Bidder's and Surety's liability. Recovery of such penal sum under the terms of this Bond shall be Owner's sole and exclusive remedy upon default of Bidder.

2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.

3. This obligation shall be null and void if:

3.1 Owner accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents, or

3.2 All Bids are rejected by Owner, or

3.3 Owner fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph 5 hereof).

4. Payment under this Bond will be due and payable upon default of Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.

5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from the Bid due date without Surety's written consent.

6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after the Bid due date.

7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.

8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.

9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.

10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.

11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

WEST HILL AREA - SANITARY AND STORM SEWER SEPARATION PHASE 6E MUSCATINE, IOWA					
No.	**Description**	**Estimated Quantity**	**Unit**	**Bid Unit Price**	**Bid Price**
1	CLEARING AND GRUBBING BY UNITS	783.2	UNIT		
2	TOPSOIL, ON-SITE TOPSOIL	162	CY		
3	TOPSOIL, OFF-SITE TOPSOIL, CONTRACTOR PROVIDED	1836	CY		
4	TOP SOIL, OFF-SITE TOPSOIL, OWNER PROVIDED	204	CY		
5	CLASS 10 EXCAVATION	4048	CY		
6	CLASS 13 EXCAVATION - DEBRIS REMOVAL AND DISPOSAL	120	TONS		
7	GRANULAR STABILIZATION, 12" GRANULAR SUBBASE	6060	SY		
8	SUBGRADE TREATMENT, GEOTEXTILE	6060	SY		
9	GRANULAR SUBBASE - 6" (UNDER ROADWAY PAVEMENT) (CONTRACTOR PROVIDED)	14544	SY		
10	GRANULAR SUBBASE - 6" (UNDER ROADWAY PAVEMENT) (CITY FURNISHED CRUSHED CONCRETE)	9696	SY		
11	SPECIAL BACKFILL - CONTACTOR PROVIDED MATERIAL - 6" (UNDER DRIVEWAY/ALLEY)	2923	SY		
12	SPECIAL BACKFILL - CONTRACTOR PROVIDED MATERIAL - 4" (UNDER SIDEWALKS)	1422	SY		
13	TEMPORARY GRANULAR SURFACE	200	TONS		
14	REMOVALS, PIPES	25	LF		
15	FILLING AND PLUGGING OF PIPE	2402	LF		
16	FILLING AND PLUGGING MANHOLE	4	EA		
17	TRENCH FOUNDATION (1-INCH CLEAN)	300	CY		
18	STABLIZED (FOUNDATION) MATERIALS	50	CY		
19	SHEETING LEFT IN PLACE	400	SF		
20	EXPLORATORY TRENCH AND TEST DIGS	100	LF		
21	SANITARY SEWER SERVICE, 4" OR 6" PVC (ASTM D3034)	1222	LF		
22	SANITARY SEWER SERVICE, 4" OR 6" PVC (ASTM D3034), CITY STOCK	630	LF		
23	SANITARY SEWER SERVICE, 4" OR 6" PVC (ASTM D3034) OUTSIDE OF ROW	908	LF		
24	SANITARY SEWER SERVICE, TRENCHLESS	50	LF		
25	SANITARY SEWER, SOLID WALL POLYVINYL CHLORIDE PIPE (PVC), SDR 26 - 8"	3654	LF		
26	SANITARY SEWER, POLYVINYL CHLORIDE COMPOSITE PIPE (TRUSS TYPE PVC), 8", CITY STOCK	515	LF		
27	SANITARY SEWER, SOLID WALL POLYVINYL CHLORIDE PIPE (PVC), SDR 26 - 12"	1982	LF		
28	SANITARY SEWER, TRENCHLESS, 8" WITH CASING PIPE	138	LF		
29	SANITARY SEWER SERVICE CONNECTIONS TO MAIN, 6"	137	EA		
30	SANITARY SEWER CLEANOUT	1	EA		
31	SANITARY SEWER INTERNAL HOME	1	LS	$250,000	$250,000
32	SEWER, DIP, WATER MAIN MATERIAL, FOR CONFLICTS, 8"	30	LF		
33	SEWER, DIP, WATER MAIN MATERIAL, FOR CONFLICTS,12"	30	LF		

WEST HILL AREA - SANITARY AND STORM SEWER SEPARATION PHASE 6E MUSCATINE, IOWA					
No.	**Description**	**Estimated Quantity**	**Unit**	**Bid Unit Price**	**Bid Price**
34	SEWER, DIP, WATER MAIN MATERIAL, FOR CONFLICTS,16"	30	LF		
35	STORM SEWER, 12", CLASS IV RCP	25	LF		
36	STORM SEWER, 12", CLASS IV RCP, CITY STOCK	33	LF		
37	STORM SEWER, 15", CLASS IV RCP	3410	LF		
38	STORM SEWER, 15", CLASS IV RCP, CITY STOCK	160	LF		
39	STORM SEWER, 18", CLASS IV RCP	1072	LF		
40	STORM SEWER, 24", CLASS IV RCP	193	LF		
41	STORM SEWER, 30", CLASS IV RCP	102	LF		
42	STORM SEWER INLET PIPING, 12" PVC (ASTM F949)	20	LF		
43	STORM SEWER INLET PIPING, 15" PVC (ASTM F949)	20	LF		
44	STORM SEWER, 8", PVC WATER MAIN	55	LF		
45	STORM SEWER, 10", PVC WATER MAIN	19	LF		
46	STORM SEWER, 12", PVC WATER MAIN	165	LF		
47	STORM SEWER, 14", PVC WATER MAIN	139	LF		
48	STORM SEWER, 16", PVC WATER MAIN	20	LF		
49	STORM SEWER. 12", HDPE	47	LF		
50	STORM SEWER. 18", HDPE	74	LF		
51	STORM SEWER, TRENCHLESS,12" WITH CASING PIPE	64	LF		
52	LINEAR TRENCH DRAIN	24	LF		
53	PIPE APRON, FOOTING, AND APRON GUARD	2	EA		
54	TYPE 1 SUBDRAINS (LONGITUDINAL) CORRUGATED PE, 6"	12626	LF		
55	SUBDRAIN OUTLETS AND CONNECTIONS	33	EA		
56	PRE-REHABILITATION CLEANING AND INSPECTION, ALL DIAMETERS	792	LF		
57	CIPP MAIN LINING, 8"	761	LF		
58	POLYURETHANE PIPE LINER, 48"	31	LF		
59	BUILDING SANITARY SEWER SERVICE REINSTATEMENT	16	EA		
60	INTERNAL VIDEO INSPECTION (ALL SEWER)	11847	LF		
61	WATER SERVICE PIPE, COPPER, 1"	1500	LF		
62	WATER SERVICE CORPORATION	70	EA		
63	WATER SERVICE CURB STOP AND BOX	70	EA		
64	SANITARY MANHOLE, ECCENTRIC, SW-301, 5' DIAMETER (8’ DEEP)	25	EA		
65	SANITARY MANHOLE, ECCENTRIC, SW-301, 5' DIAMETER - CITY STOCK	4	EA		
66	SANITARY MANHOLE, EXTRA DEPTH, 5' DIAMETER	34.9	LF		
67	SANITARY MANHOLE, SW-401 FLAT TOP, 5' DIAMETER	2	EA		
68	STORM MANHOLE, FLAT TOP, SW-401, 5' DIAMETER (UP TO 8' DEEP)	15	EA		
69	STORM MANHOLE, LOW HEADROOM FLATTOP	1	EA		
70	STORM MANHOLE, EXTRA DEPTH, 5' DIAMETER	14.5	LF		
71	STORM INLET, SW-501	7	EA		
72	STORM INLET, SW-507	33	EA		
73	STORM INLET, SW-509	1	EA		
74	STORM INLET, SW-545, DOUBLE EXTENSION	1	EA		

WEST HILL AREA - SANITARY AND STORM SEWER SEPARATION PHASE 6E MUSCATINE, IOWA					
No.	**Description**	**Estimated Quantity**	**Unit**	**Bid Unit Price**	**Bid Price**
75	REMOVE MANHOLE OR INTAKE	62	EA		
76	CURB OPENING CASTING	4	EA		
77	PCC PAVEMENT, 7 INCH	6243	SY		
78	PCC PAVEMENT, 8 INCH	15008	SY		
79	PCC PAVEMENT SAMPLES AND TESTING	1	LS		
80	PCC PAVEMENT SMOOTHNESS TESTING - PROFILER	1	LS		
81	ASPHALT PAVEMENT BY TON	132	TON		
82	REMOVAL OF SIDEWALK	1313	SY		
83	REMOVAL OF DRIVEWAY/ALLEY	2750	SY		
84	REMOVAL OF CURB, LIMESTONE CURB	20	LF		
85	PCC SIDEWALK, 4-INCH	1386	SY		
86	PCC SIDEWALK, 6-INCH	36	SY		
87	DETECTABLE WARNINGS	321	SF		
88	PAVED DRIVEWAYS, AND ALLEYS, PCC, 6-INCH	2923	SY		
89	MILLING	15614	SY		
90	PAVEMENT REMOVAL, CONCRETE	5288	SY		
91	SUBBASE MATERIAL REMOVAL AFTER MILLING	4000	SY		
92	PAINTED PAVEMENT MARKINGS, DURABLE	33.34	STA		
93	TEMPORARY TRAFFIC CONTROL	1	LS		
94	SPECIAL SIGNAGE	64	SF		
95	REMOVE AND REINSTALL TRAFFIC SIGNS	45	EA		
96	SEEDING, FERTILIZING & MULCHING FOR CONVENTIONAL SEEDING, RESIDENTIAL (TYPE	1000	SF		
97	SEEDING, FERTILIZING, & MULCHING FOR HYDRAULIC SEEDING, RESIDENTIAL (TYPE 1)	6594	SF		
98	WATERING, BEYOND MINIMUM CARE PERIOD	1.65	MGAL		
99	SOD	9136	SY		
100	PLANTS, LANDSCAPING BY AREA	73	SF		
101	SWPPP MANAGEMENT	1	LS		
102	FILTER SOCKS	12626	LF		
103	TEMPORARY ROLLED EROSION CONTROL PRODUCTS (RECP) TYPE 4.B (LONG TERM)	15	SY		
104	EROSION STONE	12	TONS		
105	SILT FENCE OR SILT FENCE DITCH CHECK	410	LF		
106	STABLIZED CONSTRUCTION EXIT	24	EA		
107	EROSION CONTROL MULCHING, HYDROMULCHING	1.8876177	ACRE		
108	INLET PROTECTION DEVICE, DROP IN PROTECTION	25	EA		
109	INLET PROTECTION DEVICE, OPEN-THROAT CURB INTAKE SEDIMENT FILTER, EC-602	150	LF		
110	TURF REINFORCEMENT MESH (TEMPORARY)	4000	SF		
111	REMOVAL AND REINSTALLATION OF EXISTING FENCE	200	LF		
112	RETAINING WALL, ALL TYPES	95	SF		
113	CONCRETE STEPS	70	SF		
114	HANDRAIL	30	LF		
115	CONSTRUCTION SURVEY	1	LS		
116	RECORD DRAWINGS	1	LS		
117	MOBILIZATION	1	LS		
118	MOBILIZATION, EROSION CONTROL	13	EA		
119	EXISTING CONDITIONS VIDEO RECORD	1	LS		

WEST HILL AREA - SANITARY AND STORM SEWER SEPARATION PHASE 6E MUSCATINE, IOWA					
No.	**Description**	**Estimated Quantity**	**Unit**	**Bid Unit Price**	**Bid Price**
120	MAINTENANCE OF POSTAL SERVICE	1	LS		
121	MAINTENANCE OF SOLID WASTE COLLECTION	1	LS		
122	UTILITY VEHICLE	18	MONTH		
123	TEMPORARY GRANULAR SIDEWALK	800	SY		
124	CONCRETE WASHOUT	1	LS		
201	WATER MAIN, TRENCHED, C-900 PVC, RESTRAINED JOINT 6"	494	LF		
202	FITTINGS, 45 DEGREE ELBOW, 6"	2	EA		
203	WATER SERVICE ADJUSTMENT, COPPER, 3/4"	1	EA		
204	WATER SERVICE ADJUSTMENT, COPPER, 1"	4	EA		
205	WATER SERVICE REPLACEMENT, COPPER, 1"	2	EA		
206	WATER MAIN ABANDONMENT, 6"	128	LF		
207	WATER MAIN ABANDONMENT, 1"	262	LF		
208	WATER MAIN ABANDONMENT, 6" CAP	2	EA		
209	WATER MAIN ABANDONMENT, 1" CAP	2	EA		
210	TAPPING SLEEVE AND VALVE, 6"	3	EA		
TOTAL OF ALL BID ITEMS 1 - 210				$	

Bidder Status Form

To be completed by all bidders — Part A

Please answer "Yes" or "No" for each of the following:

☐ Yes ☐ No My company is authorized to transact business in Iowa.
(To help you determine if your company is authorized, please review the worksheet on the next page).

☐ Yes ☐ No My company has an office to transact business in Iowa.

☐ Yes ☐ No My company's office in Iowa is suitable for more than receiving mail, telephone calls, and email.

☐ Yes ☐ No My company has been conducting business in Iowa for at least 3 years prior to the first request for bids on this project.

☐ Yes ☐ No My company is not a subsidiary of another business entity or my company is a subsidiary of another business entity that would qualify as a resident bidder in Iowa.

If you answered "Yes" for each question above, your company qualifies as a resident bidder. Please complete Parts B and D of this form.

If you answered "No" to one or more questions above, your company is a nonresident bidder. Please complete Parts C and D of this form.

To be completed by resident bidders — Part B

My company has maintained offices in Iowa during the past 3 years at the following addresses:

Dates: _____ /_____ /_____ to _____ /_____ /_____ Address: _____

City, State, Zip: _____

Dates: _____ /_____ /_____ to _____ /_____ /_____ Address: _____

City, State, Zip: _____

Dates: _____ /_____ /_____ to _____ /_____ /_____ Address: _____

You may attach additional sheet(s) if needed. City, State, Zip: _____

To be completed by non-resident bidders — Part C

1. Name of home state or foreign country reported to the Iowa Secretary of State:

_____

2. Does your company's home state or foreign country offer preferences to resident bidders, resident labor force preferences or any other type of preference to bidders or laborers? ☐ Yes ☐ No

3. If you answered "Yes" to question 2, identify each preference offered by your company's home state or foreign country and the appropriate legal citation.

_____

_____

You may attach additional sheet(s) if needed.

To be completed by all bidders — Part D

I certify that the statements made on this document are true and complete to the best of my knowledge and I know that my failure to provide accurate and truthful information may be a reason to reject my bid.

Signed Name: _____ Signature: _____

Firm Name: _____ Date: _____

Email Address: _____ Phone Number: _____

This form has been approved by the Department of Administrative Services Director.

309-6001 (10-24)

Worksheet: Authorization to Transact Business

This worksheet may be used to help complete Part A of the Resident Bidder Status form. If at least one of the following describes your business, you are authorized to transact business in Iowa.

☐ Yes ☐ No My business is currently registered as a contractor with the Iowa Division of Labor.

☐ Yes ☐ No My business is a sole proprietorship and I am an Iowa resident for Iowa income tax purposes.

☐ Yes ☐ No My business is a general partnership or joint venture. More than 50 percent of the general partners or joint venture parties are residents of Iowa for Iowa income tax purposes.

☐ Yes ☐ No My business is an active corporation with the Iowa Secretary of State and has paid all fees required by the Secretary of State, has filed its most recent biennial report, and has not filed articles of dissolution.

☐ Yes ☐ No My business is a corporation whose articles of incorporation are filed in a state other than Iowa, the corporation has received a certificate of authority from the Iowa secretary of state, has filed its most recent biennial report with the secretary of state, and has neither received a certificate of withdrawal from the secretary of state nor had its authority revoked.

☐ Yes ☐ No My business is a limited liability partnership which has filed a statement of qualification in this state and the statement has not been canceled.

☐ Yes ☐ No My business is a limited liability partnership which has filed a statement of qualification in a state other than Iowa, has filed a statement of foreign qualification in Iowa and a statement of cancellation has not been filed.

☐ Yes ☐ No My business is a limited partnership or limited liability limited partnership which has filed a certificate of limited partnership in this state, and has not filed a statement of termination.

☐ Yes ☐ No My business is a limited partnership or a limited liability limited partnership whose certificate of limited partnership is filed in a state other than Iowa, the limited partnership or limited liability limited partnership has received notification from the Iowa secretary of state that the application for certificate of authority has been approved and no notice of cancellation has been filed by the limited partnership or the limited liability limited partnership.

☐ Yes ☐ No My business is a limited liability company whose certificate of organization is filed in Iowa and has not filed a statement of termination.

☐ Yes ☐ No My business is a limited liability company whose certificate of organization is filed in a state other than Iowa, has received a certificate of authority to transact business in Iowa and the certificate has not been revoked or canceled.

THIS CONTRACT is by and between _____ (Owner) and _____(Contractor).
Owner and Contractor hereby agree as follows:

ARTICLE 1 - WORK

1.1 Contractor shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as construction of sanitary and storm sewer to separate existing West Hill combined sewer system. Additional work includes general construction of full-width pavement replacement in the West Hill project area.

ARTICLE 2 - THE PROJECT

2.1 The Project for which Work under the Contract Documents may be the whole or only a part is generally described as West Hill Area Sanitary and Storm Sewer Separation – Phase 6E.

ARTICLE 3 - ENGINEER

3.1 The Project has been designed by Stanley Consultants, Inc. who is to assume all responsibilities, and have rights and authority assigned to Owner's Engineering Consultant or Engineer during design and bidding in completion of the Work in accordance with the Contract Documents.

3.2 The Owner will provide a representative to act as Owner's representative, assume all duties and responsibilities, and have the rights and authority assigned to Engineer during construction in the Contract Documents in connection with completion of the Work in accordance with the Contract Documents.

ARTICLE 4 - CONTRACT TIMES

4.1 *Time of the Essence.* All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract. See drawing J.03 and the contract documents for location of stages.

4.2 *Milestones.* Parts of the Work shall be substantially completed on or before the following Milestone(s):

A. Milestone 1: All pipe and mainline paving work on Newell Avenue and Logan Street within the Stage 1 project area plus all pipework and restoration within the Stage 1.1 area on private property near Hagerman Drive. Substantial completion for this work shall be on or before December 31, 2026 and ready for payment in accordance with 1.08 of Section 1090 of SUDAS Standard Specifications. Work in Milestone 1 is required for sewer separation.

B. Milestone 2: All pipe and mainline paving work on Newell Avenue west of address 972 Newell Avenue to Lucas Street. Substantial completion for this work shall be on or before August 6, 2027 and ready for payment in accordance with 1.08 Section 1090 of SUDAS Standard Specifications. Work in Milestone 2 is required for sewer separation.

C. Milestone 3: All piping and mainline paving work on Newell Avenue east of High Street to Broadway. Substantial completion for this work shall be on or before December 31, 2027 and ready for payment in accordance with 1.08 of Section 1090 of SUDAS Standard Specifications. Work in Milestone 3 is required for sewer separation.

D. Milestone 4: All piping and mainline paving work on Climer Street, Greenwood Chapel Area, and work on Hagerman Drive property. Substantial completion for this work shall be on or before September 30, 2028 and ready for payment in accordance with 1.08 of Section 1090 of SUDAS Standard Specifications. Work in Milestone 4 is required for sewer separation.

E. Milestone 5: All remaining project work will be substantially completed on or before November 30, 2028 and completed and ready for final payment in accordance with paragraph 1.08 of Section 1090 of the 2026 SUDAS Standard Specifications on or before December 31, 2028.

4.3 *Liquidated Damages.* Contractor and Owner recognize that time is of the essence as stated in Paragraph 4.1 above and that Owner will suffer financial and other losses if the Work is not completed and Milestones

not achieved within the times specified in Paragraph 4.2 A, 4.2B, 4.2C, 4.2D, and 4.2E above, plus any extensions thereof allowed in accordance with the Contract. The parties also recognize the delays, expense, and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty):

A. Substantial Completion: Contractor shall pay Owner $500.00 for each calendar day that expires after the time (as duly adjusted pursuant to the Contract) specified in Paragraph 4.2 A, 4.2B, 4.2C, and 4.2D, and 4.2E above for Substantial Completion until the Work is substantially complete.

B. Completion of Remaining Work: After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Time (as duly adjusted pursuant to the Contract) for completion and readiness for final payment, Contractor shall pay Owner $300.00 for each calendar day that expires after such time until the Work is completed and ready for final payment.

C. Liquidated damages for failing to timely attain Substantial Completion and final completion are not additive and will not be imposed concurrently.

4.4 After Contractor achieves Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Times, Contractor shall reimburse Owner for the actual costs reasonably incurred by Owner for engineering, construction observation, inspection, and administrative services needed after the time specified in Paragraph 4.2 for Work to be completed and ready for final payment (as duly adjusted pursuant to the Contract), until the Work is completed and ready for final payment.

ARTICLE 5 - CONTRACT PRICE

5.1 Owner shall pay Contractor for completion of the Work in accordance with the Contract Documents the amounts that follow, subject to adjustment under the Contract:

A. For all Unit Price Work, an amount equal to the sum of the extended prices (established for each separately identified item of Unit Price Work by multiplying the unit price times the actual quantity of that item). The extended prices for Unit Price Work set forth as of the Effective Date of the Contract are based on estimated quantities. As provided in Paragraph 1.03 of SUDAS Section 1020 of SUDAS Standard Specifications, estimated quantities are not guaranteed, and determinations of actual quantities and classifications are to be made by Engineer.

B. For all Work, at the prices stated in Document 00 43 22 - Unit Price Schedule, attached hereto as an exhibit.

C. Total of Bid Prices for all Unit Price Work:

_____
(words)

_____ ($ _____).
(figures)

ARTICLE 6 - PAYMENT PROCEDURES

6.1 *Submittal and Processing of Payments.* Contractor shall submit Applications for Payment in accordance with Section 1090 of SUDAS Standard Specifications. Applications for Payment will be processed by Engineer as provided in the SUDAS Standard Specifications.

6.2 *Progress Payments; Retainage***.** Owner shall make progress payments on account of the Contract Price on the basis of Contractor's Applications for Payment each month during performance of the Work as provided in Paragraph 6.2.A.1 below, provided that such Applications for Payment have been submitted in a timely manner and otherwise meet the requirements of the Contract. All such payments will be measured by the Schedule of Values established on the Unit Price Schedule based on the number of units completed.

A. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below, but, in each case, less the aggregate of payments previously made and less such amounts as Owner may withhold, including but not limited to liquidated damages, in accordance with the Contract:

1. 97% percent of Work completed (with the balance being retainage).

2. 97% of cost of materials and equipment not incorporated in the Work (with the balance being retainage).

B. Upon Substantial Completion, Owner shall pay an amount sufficient to increase total payments to Contractor to 100% of the Work completed, less such amounts set off by Owner pursuant to Section 1090 of SUDAS Standard Specifications and less 200% of Engineer's estimate of the value of Work to be completed or corrected as shown on the punch list of items to be completed or corrected prior to final payment.

6.3 *Final Payment.* Upon final completion and acceptance of the Work in accordance with paragraph 1.08 of the Section 1090 Measurement and Payment of SUDAS Standard Specifications, Owner shall pay the remainder of the Contract Price as recommended by Engineer as provided in said paragraph 1.08.

ARTICLE 7 - INTEREST

7.1 All amounts not paid when due shall bear interest at the maximum rate allowed by law.

ARTICLE 8 - CONTRACTOR'S REPRESENTATIONS

8.1 In order to induce Owner to enter into this Contract, Contractor makes the following representations:

A. Contractor has examined and carefully studied the Contract Documents, and any data and reference items identified in the Contract Documents.

B. Contractor has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Contractor is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Contractor has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Special Provisions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Special Provisions, especially with respect to Technical Data in such reports and drawings.

E. Contractor has considered the information known to Contractor itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Contract Documents; and the Site-related reports and drawings identified in the Contract Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor; and (3) Contractor’s safety precautions and programs.

F. Based on the information and observations referred to in the preceding paragraph, Contractor agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.

G. Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.

H. Contractor has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.

I. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

J. Contractor's entry into this Contract constitutes an incontrovertible representation by Contractor that without exception all prices in the Contract are premised upon performing and furnishing the Work required by the Contract Documents.

ARTICLE 9 - CONTRACT DOCUMENTS

9.1 *Contents:* The Contract Documents consist of the following:

A. This Contract (pages 1 to , inclusive).

B. Section 00 43 22 Unit Price Schedule

C. Performance and Payment Bond (pages 1 to , inclusive).

D. SUDAS General Provisions and Covenants (pages 1 to 74, inclusive).

E. Special Provisions (pages 1 to , inclusive).

F. SRF provisions and specifications (SRF Attachments 1 thru 10);

G. Davis Bacon Wage Rates

H. Specifications as listed in Project Manual table of contents.

I. Drawings as listed on the Drawing Index Sheet.

J. Addenda numbers to , inclusive.

K. Exhibits to this Contract (enumerated as follows):

L. The following which may be delivered or issued on or after the Effective Date of the Contract and are not attached hereto:

1. Notice to Proceed.

2. Instructions to Contractors.

3. Change Orders.

4. Field Orders.

9.2 The documents listed in paragraph 9.1 are attached to this Contract (except as expressly noted otherwise above).

9.3 There are no Contract Documents other than those listed above in this Article 9.

9.4 The Contract Documents may only be amended, modified, or supplemented as provided in the General Conditions.

ARTICLE 10 - MISCELLANEOUS

10.1 *Terms***.** Terms used in this Contract will have the meanings indicated in the SUDAS General Provisions and Covenants and the Special Provisions.

10.2 *Assignment of Contract.* Unless expressly agreed to elsewhere in the Contract, no assignment by a party hereto of any rights under or interests in the Contract will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, money that may become due and money that is due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

10.3 *Successors and Assigns.* Owner and Contractor each binds itself, its successors, assigns, and legal representatives to the other party hereto, its successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

10.4 *Severability*. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Owner and Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

10.5 *Contractor's Certification.* Contractor certifies that it has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the Contract. For the purposes of this Paragraph 10.5:

A. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process or in the Contract execution;

B. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process or the execution of the Contract to the detriment of Owner, (b) to establish Bid or Contract prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;

C. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish Bid prices at artificial, non-competitive levels; and

D. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

10.6 *Other Provisions.* Owner stipulates that the General Conditions that are made a part of this Contract are based on 2026 SUDAS Standard Specifications – Division 1 General Provisions and Covenants for the Construction Contract, published by the Iowa Statewide Urban Design and Specifications (SUDAS) Program and Owner is the party that has furnished said General Conditions, and has plainly shown all modifications to the standard wording of such published document to the Contractor in the Special Provisions.

IN WITNESS WHEREOF, Owner and Contractor have signed this Contract. This Contract will be effective on _____, 2026 (which is the Effective Date of the Contract).

OWNER:	**CONTRACTOR:**
_____	_____
By: _____	By: _____
Title: _____	Title: _____ *(If Contractor is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.)*
Attest _____	Attest _____
Title: _____	Title: _____
Address for giving notices:	Address for giving notices:
_____	_____
_____	_____
(If Owner is a corporation, attach evidence of authority to sign. If Owner is a public body, attach evidence of authority to sign and resolution or other documents authorizing execution of Owner-Contractor Contract.)	License No. _____ *(Where applicable)*

END OF DOCUMENT

PERFORMANCE AND PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS THAT, a Principal, hereinafter called the Contractor and

_____

(Here insert the legal title of Surety)

as Surety, hereinafter called the Surety, are held and firmly bound unto City of Muscatine, Muscatine County, Iowa as Obligee, hereinafter called the Owner, in the amount of

_____

DOLLARS ($_____) for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated _____, 2026, entered into a Contract with Owner for

WEST HILL AREA SANITARY AND STORM SEWER SEPARATION– PHASE 6E PROJECT

in accordance with drawings and specifications prepared by Stanley Consultants, Inc., Muscatine, Iowa, which Contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly and faithfully perform said Contract, then the obligation of this bond shall be null and void; otherwise it shall remain in full force and effect.

A. The Surety hereby waives notice of any alteration by Owner to be, in default under the Contract, the Owner having performed Owner's obligations thereunder, the Surety may promptly remedy the default, or shall promptly:

1. Complete the Contract in accordance with its terms and conditions, or

2. Obtain a bid or bids for submission to Owner for completing the Contract in accordance with its terms and conditions, and upon determination by Owner and Surety of the lowest responsible bidder, arrange for a contract between such bidder and Owner, and make available as work progresses (even though there should be a default or a succession or defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the Contract Price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "Balance of the Contract Price",

as used in this paragraph, shall mean the total amount payable by Owner to Contractor under the Contract and any amendments thereto, less the amount properly paid by Owner to Contractor.

B. The Contractor and his surety shall be obligated to remedy any defects in workmanship or materials that may develop in the improvements covered by this bond for a period of two (2) years from the date of acceptance of the improvements by the owner.

C. Any suit under this bond must be instituted before the expiration of two (2) years from the date on which final payment under the contract falls due.

D. No right of action shall accrue to or for the use of any person or corporation other than the Owner named herein or the heirs, executors, administrators or successors of Owner.

IT IS A FURTHER CONDITION OF THIS OBLIGATION that the principal and surety shall, in accordance with the provisions of Chapter 573 of the Code of Iowa, pay to all persons, firms or corporations having contracts directly with the principal or with subcontractors all just claims due them for labor performed or materials furnished in the performance of the contract on account of which this bond is given.

The provisions of Chapter 573, Code of Iowa, are a part of this bond to the same extent as if they were expressly set out herein.

SIGNED AND SEALED THIS _____ DAY OF _____,A.D. 2026.

IN THE PRESENCE OF:

_____
PRINCIPAL

_____ _____
WITNESS TITLE

_____
SURETY

2026 SUDAS STANDARD SPECIFICATIONS

Division 1 – General Provisions and Covenants

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DEFINITIONS

1.01 DESCRIPTION

Wherever the following definitions, terms, and abbreviations, or pronouns in place of them, are used in the plans, specifications, or other contract documents, the intent and meaning shall be interpreted as specified in this Section.

1.02 ABBREVIATIONS

Wherever in these specifications and contract documents the following abbreviations are used, they shall be understood to mean as follows: The serial designation of each reference shall be the latest year of adoption or revision, unless otherwise specified.

AAN - American Association of Nurserymen
AAR - Association of American Railroads
AASHTO (or AASHO) - American Association of State Highway and Transportation Officials
ACI - American Concrete Institute
AIA - American Institute of Architects
AMG - Automated Machine Guidance
ANSI - American National Standards Institute
API - American Petroleum Institute
APWA - American Public Works Association
ARA - American Railway Association
AREA - American Railway Engineering Association
ASA - America Standards Association
ASCE - American Society of Civil Engineers
ASLA - American Society of Landscape Architects
ASTM - American Society for Testing and Materials
AWPA - American Wood Preservers Association
AWS - American Welding Society
AWWA - American Water Works Association
BSC - Bituminous Seal Coat
CFR - Code of Federal Regulations
CLSM - Controlled Low Strength Material
CMP - Corrugated Metal Pipe
CPM - Critical Path Method
CRSI - Concrete Reinforcing Steel Institute
DIP - Ductile Iron Pipe
DNR - Department of Natural Resources
DOT - Department of Transportation
EEI - Edison Electric Institute
EPA - Environmental Protection Agency
FHWA - Federal Highway Administration
FSS - Federal Specification and Standards
ESAL - Equivalent Single Axle Load
GGBFS - Ground Granulated Blast Furnace Slag
GPS - Global Positioning System
GRI - Geosynthetic Research Institute
HDPE - High Density Polyethylene Pipe
HMA - Hot Mix Asphalt
IAC - Iowa Administrative Code
IEEE - Institute of Electrical and Electronics Engineers
IES - Illuminating Engineering Society
ICEA (or IPCEA) - Insulated Cable Engineers Association
IMSA - International Municipal Signal Association, Inc.
ISO - Insurance Services Office
ITE - Institute of Transportation Engineers
JMF - Job Mix Formula

1.02 ABBREVIATIONS (Continued)

MAPLE - Materials Approved Product List Enterprise
MGAL - 1,000 Gallons
MUTCD - Manual on Uniform Traffic Control Devices
NEC - National Electrical Code
NEMA - National Electrical Manufacturers Association
NFPA - National Fire Protection Association
NPDES - National Pollutant Discharge Elimination
NSF - National Sanitation Foundation
OSHA - Occupational Safety of Health Administration
PCC - Portland Cement Concrete
PLS - Pure Live Seed
PROWAG - Public Right-of-Way Accessibility Guidelines
PVC - Polyvinyl Chloride
RAP - Recycled Asphalt Pavement
RCAP - Reinforced Concrete Arch Pipe
RCP - Reinforced Concrete Pipe
SAE - Society of Automotive Engineers
SDR - Standard Dimension Ratio
SSPC - Steel Structures Painting Council
SUDAS - Statewide Urban Design and Specifications
SWPPP - Stormwater Pollution Prevention Plan
UL - Underwriters' Laboratories, Inc.
US - United States
USC - United States Code
VCP - Vitrified Clay Pipe

1.03 DEFINITIONS AND TERMS

ADDENDUM. A revision to the contract documents written and issued after the notice to bidders, and prior to the time for receipt of proposals. Changes reflected in the Addendum shall govern over all other contract documents.

ALLEY. See Street.

APPROVED EQUAL (EQUIVALENT). A product, process, equipment, or material that, upon approval of the Engineer, is determined to meet or exceed the requirements called for by the specifications. Upon approval, the item will be allowed in lieu of the specified material, process, equipment, or product.

AWARD. The acceptance of the proposal of the lowest responsive, responsible bidder for the work, which shall not be binding upon the Contracting Authority until the contract for the said work has been executed by the bidder and by the Contracting Authority and bond(s) has been provided by the bidder as required by law.

BID. A properly signed and guaranteed written offer of the bidder containing the bid amount to perform the work. Bid is the same as Proposal.

BID AMOUNT. The aggregate sum obtained by totaling the amounts arrived at by multiplying the quantity of each bid item, as shown in the bid or proposal, by the unit price specified in the proposal for that bid item, including lump sum bid items.

BID ITEM. A specifically described unit of work for which a price is provided in the proposal. A bid item may also be referred to as a contract item.

BID SECURITY. The security furnished by the bidder with its bid as guaranty that the bidder will execute the contract and furnish bond for the work if the proposal is accepted. For bids submitted to governmental entities, the bidder shall furnish bid security as defined in Iowa Code Chapter 26.

1.03 DEFINITIONS AND TERMS (Continued)

BIDDER. Any individual, firm, partnership, joint venture, corporation, or association licensed or otherwise authorized by law to do business where the work is located, which has submitted a proposal for the work, acting directly or through a duly authorized representative.

CALENDAR DAY. Every day shown on the calendar.

CHANGE ORDER. A written order to the Contractor signed and approved by the Contracting Authority, ordering a change in the work from that originally shown by the plans and specifications. Change orders duly signed and executed by the Contracting Authority and the Contractor shall constitute authorized modifications of the contract.

COMMENCEMENT OF WORK. Work will be considered commenced when the Contractor's operations are started on items of work covered by the contract documents, or when the Contractor notifies the Engineer, and the Engineer agrees, that the Contractor's equipment and personnel are available to the site but the operations are prevented by conditions outside the Contractor′s control.

COMPETITIVE QUOTATION. A properly signed written offer of the Contractor according to Iowa Code Chapter 26.

CONTRACT. The written agreement, between the Contractor and the Contracting Authority, setting forth the terms and conditions under which the work is to be performed. The contract includes all contract documents.

CONTRACT AMOUNT. The bid amount plus approved change orders.

CONTRACT DOCUMENTS. The contract documents consist of the following: The notice to bidders and notice of public hearing; the instructions to bidders; special provisions; standard specifications; general supplemental specifications; supplemental specifications; plans; addenda; proposal; contract; performance, payment, and maintenance bond; insurance certificate(s); Notice to Proceed; and change orders. These documents form the agreement whereby the Contractor will furnish all labor, equipment, tools, and materials, and perform all work necessary to satisfactorily accomplish the proposed improvement. The contract documents are complementary and what is called for by one shall be as binding as if called for by all.

CONTRACTING AUTHORITY. The body, entity, board, commission, officer, or governmental entity having authority to award a contract.

CONTRACTOR. The individual, firm, partnership or corporation, and the heirs, executors, administrators, successors and assigns thereof, or the lawful agent of any such individual, firm, partnership, or corporation, or the surety thereof under the contract bond, constituting one of the principals to the contract and undertaking to perform the work herein specified. Where the pronoun "it" is used as referring to the word "Contractor" it shall mean the Contractor as defined above.

CONTROLLING ITEM OF WORK. The unique activity of a contract that will determine the duration of the construction period or if a working day is charged. The character of this work may change during the project. It is the work that could be in progress at any time that would have the greatest influence on the duration of the project.

CULVERT. A structure not classified as a bridge or storm sewer which provides an opening under a roadway or embankment, except that such term shall not include tiles crossing the road, or intakes thereto, where such tiles are part of a tile line or system designed to aid subsurface drainage.

1.03 DEFINITIONS AND TERMS (Continued)

DEPARTMENT OF TRANSPORTATION, (THE DEPARTMENT). The Department of Transportation, as defined in Iowa Code Chapter 307.

EMPLOYEE. Any person working on the project mentioned in the contract of which these specifications are a part, and who is under the direction or control, or receives compensation from, the Contractor or subcontractor.

ENGINEER. For publicly owned projects, the Engineer is a Professional Engineer licensed in the State of Iowa and is the authorized representative of the Contracting Authority. For privately contracted projects, with improvements that are to become publicly owned, the Engineer is the Professional Engineer licensed in the State of Iowa and is the authorized representative of the Jurisdiction ultimately accepting ownership of the improvement. For all other projects, the Engineer is the Professional Engineer licensed in the State of Iowa and is the owner's authorized representative. The Engineer may act directly or through duly authorized representatives.

EQUIPMENT. All machinery and equipment, together with the necessary supplies for upkeep and maintenance, and also tools and apparatus necessary for the proper construction and acceptable completion of the work.

EXTRA WORK. Work not provided for in the contract, as awarded, but deemed essential to the satisfactory completion of the contract and authorized by the Engineer. Extra work shall not include additional materials, equipment, and labor used due to natural variations in surface and subsurface conditions, except as specifically provided for elsewhere in the contract documents.

GENERAL SUPPLEMENTAL SPECIFICATIONS. Specifications approved by the Board of Directors for the Iowa SUDAS Corporation subsequent to publication of the latest edition of the SUDAS Standard Specifications. They involve changes in the SUDAS Standard Specifications and apply only when specified in the contract documents.

GOVERNMENTAL ENTITY. As defined in Iowa Code Chapter 26.

IMPROVEMENT. Shall mean any public improvements as defined in Iowa Code Chapter 26 and shall also include highway, bridge, or culvert projects.

INCIDENTAL ITEMS. Materials, equipment, or labor essential for the proper completion of the work that are not specified as bid items in the contract documents and the cost of which shall be included in other bid items.

INSPECTOR. The authorized representative of the Engineer assigned to make a detailed inspection of any or all portions of the work, or materials.

IOWA DEPARTMENT OF TRANSPORTATION (DOT) STANDARD SPECIFICATIONS. The Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction and the General Supplemental Specifications effective at the date of publication of the Notice to Bidders unless a different effective date is identified in the contract documents.

JOINT VENTURE. The joining of two or more contractors for the purpose of combining equipment, personnel, and finances in order to submit a bid on a single project.

JURISDICTION. A governmental entity or the Iowa Department of Transportation, acting through its governing body, or through the authorized representatives of such governing body when so authorized.

JURISDICTIONAL ENGINEER. See Engineer.

1.03 DEFINITIONS AND TERMS (Continued)

LABORATORY. The testing laboratory of the Jurisdiction, or any other testing laboratory which may be designated by the Engineer.

LIQUIDATED DAMAGES. The dollar amount established by the Contracting Authority and set forth in the contract documents as compensation for the damage to the Contracting Authority, or public, for delay in completion of the work, to be paid to the Contracting Authority, or to be deducted from any payments due or to become due the Contractor.

LUMP SUM. Unit of measurement for a bid item where no direct measurement will be made. The bid item amount is complete payment for all work described in the contract documents and necessary to complete the work for that item. The estimated quantities of lump sum work shown in the contract documents are approximate.

MAPLE. Iowa DOT's materials approved product list enterprise. MAPLE contains a searchable database of most of the approved products, sources, producers, and suppliers of materials for Iowa highway projects. MAPLE may be searched by the brand/product name, producer, Iowa DOT Materials Instructional Memorandum (IM) number, or material name. New approvals are continually added as Iowa DOT approves them for use.

MATERIALS. Any substances specified for the use in the construction of the project and its appurtenances.

MATERIALS INSTRUCTIONAL MEMORANDUM (MATERIALS I.M.). This is an instruction prepared by the Iowa DOT's Construction and Materials Bureau. These may identify approved sources of various qualities or types of materials, sampling, testing, and approval procedures, and conditions for acceptance and use.

MEDIAN. The portion of a divided roadway separating the traveled ways for traffic.

MOBILIZATION. Mobilization shall consist of preparatory work and operations for all items under the contract, including, but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site, and for the establishment of all offices, buildings, and other facilities, which must be performed or costs incurred prior to beginning work on the various items on the project site.

NOTICE OF PUBLIC HEARING. The public announcement or publication by the governmental entity, as required under Iowa Code Chapter 26, notifying the public of the time and place where any interested person may appear and file objections to the proposed plans, specifications, contract, or estimated cost of the improvement.

NOTICE TO BIDDERS. The public announcement, publication, or solicitation by the Contracting Authority, inviting bids for work to be performed or materials to be furnished as required by Iowa Code Chapter 26.

NOTICE TO PROCEED. A written notice to the Contractor issued by the Engineer stating the date, on or before which, the Contractor is to begin the work. The date set forth in this notice shall be considered as the official starting date.

PERFORMANCE, PAYMENT, AND MAINTENANCE BOND. The bond submitted by the designated low bidder, in the amount specified in the contract documents, for the faithful performance of the contract and the terms and conditions therein contained, for payment for all labor and materials provided, and for maintenance of improvements in good repair for the specified number of years from the time of acceptance of the improvements by the Jurisdiction.

1.03 DEFINITIONS AND TERMS (Continued)

PLANS. Plans are the official drawings, standard plans, profiles, typical cross-sections, and supplemental drawings or reproductions thereof, approved and furnished by the Jurisdiction, which show the location, character, dimensions, and details of the work. All such documents are to be considered as a part of the plans whether attached to the plans or separate.

PROFILE GRADE. The trace of a vertical plan intersecting the top surface of the proposed wearing surface, usually along the longitudinal center line of the roadbed. Profile grade means either elevation or gradient or such trace, according to the context.

PROJECT AREA. The area of the specified project limits shown on the plans, and any additional area which is necessary for the Contractor to place traffic control devices required by the contract documents or necessary to protect the work.

PROPOSAL. The proposal is a properly signed and guaranteed written offer of the bidder containing the bid amount to perform the work. Proposal is the same as Bid.

PROPOSAL FORM. A form provided by the Jurisdiction, to the bidder, containing a listing of the bid items and quantities, and locations to enter unit prices and the bid amount.

PROWAG. The July 26, 2011 “Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way” was written by the US Access Board and is also known as the Public Right-of-Way Accessibility Guidelines or PROWAG.

RESIDENT BIDDER. A person or entity authorized to transact business in this state and having a place of business for transacting business within the state at which it is conducting and has conducted business for at least three years prior to the date of the first advertisement for the public improvement. If another state or foreign country has a more stringent definition of a resident bidder, the more stringent definition is applicable as to bidders from that state or foreign country.

RESPONSIVE, RESPONSIBLE BID. A bid submitted in accordance with the Notice to Bidders by a bidder that acknowledged all addenda, that responded to all proposal requirements, and that agreed to do everything required by the plans and specifications and other bid documents without any conditions, qualifications, or exclusions.

A bid submitted by a bidder that is capable of performing the work, possess the necessary financial and technical capability to perform the work, as well as the ability to complete the work in a timely and acceptable manner as demonstrated by past performance or other appropriate considerations, including but not limited to the ability to obtain and maintain insurance and bonding requirements.

RESPONSIVE, RESPONSIBLE BIDDER. A bidder that has submitted a bid that has been determined by the governmental entity to be both responsive and responsible.

RIGHT-OF-WAY. The land area of which the right to possession is secured or reserved by the Jurisdiction for the project, including permanent roadway easements.

ROAD. See Street.

ROADBED. The area of the roadway between the tops of foreslopes.

ROADWAY. The portion of the right-of-way designated or ordinarily used for vehicular travel.

SHOP DRAWINGS. Information and details for materials, products, or equipment to be supplied for the project, which are typically delivered to the project in an assembled or ready-to-use condition.

1.03 DEFINITIONS AND TERMS (Continued)

SHOULDER. That portion of the roadbed contiguous with the traveled way for accommodation of stopped vehicles, for emergency use, and for lateral support of base and surface courses.

SIDEWALK. That portion of the street primarily constructed for the use of pedestrians.

SLOPE. The inclination of a line or surface expressed as a ratio of horizontal distance to vertical distance.

SPECIAL PROVISIONS. Additions and revisions to the SUDAS Standard, General, and Supplemental Specifications covering conditions peculiar to an individual project. They only apply to a project when specified in the contract documents.

SPECIALTY ITEMS. Portions of work designated in the contract documents requiring equipment, skills, or crafts not ordinarily associated with the expertise of the Contractor or the major types of work covered by the contract; typically including, but not limited to, earthwork for building construction, electrical, mechanical, masonry, roofing, drywalling, floor covering, glass and glazing, painting, conveying systems, etc.

SPECIFICATIONS. The general term comprising all the written directions, provisions, and requirements including the SUDAS Standard Specifications and those added or adopted as Supplemental Specifications or Special Provisions all of which are necessary for the proper performance of the contract.

SPEED LIMIT. Refers to the legally established speed limit before construction and not the advisory speed during construction.

STANDARD ROAD PLAN. The Iowa Department of Transportation's manual of detailed drawings showing standardized design features, construction methods, and approved materials.

STATE. The State of Iowa acting through its authorized representatives.

STATION. One hundred linear feet.

STREET. A general term denoting public way for vehicular travel, including the entire area within the right-of-way.

SUBBASE. The layer or layers of specified or selected material of designed thickness upon which a base course or pavement is constructed.

SUBCONTRACTOR. The subcontractor is any individual, firm, partnership, joint venture, corporation, or association to whom the Contractor, with the written consent of the Jurisdiction, sublets a part of the work.

SUBGRADE. The top surfaced of a roadbed upon which the pavement structure and shoulders are constructed.

SUDAS STANDARD SPECIFICATIONS. The requirements contained herein applying to the contract, and pertaining to the method and manner of performing the work, or to the quantity and quality of the materials to be furnished under the contract. Previously referred to as the Iowa Statewide Urban Standard Specifications for Public Improvements.

SUPERINTENDENT. The Contractor's authorized representative in responsible charge of the work.

SUPPLEMENTAL CONTRACT (AGREEMENT). Written agreement between the Contractor and Contracting Authority modifying the original contract pursuant to the Iowa Code.

1.03 DEFINITIONS AND TERMS (Continued)

SUPPLEMENTAL SPECIFICATIONS. Specifications adopted by a Jurisdiction that involve changes to the SUDAS Standard Specifications. They only apply to a project when specified in the contract documents.

SURETY. The corporation, partnership, or individual, other than the Contractor, executing a bond furnished by the Contractor.

TARGET VALUE. When a target or target value is specified, a continuous and determined effort is expected to reach and maintain that value, as a goal.

UNAUTHORIZED WORK. Unauthorized work is work done contrary to, in addition to, or regardless of, the contract documents, or the instruction of the Engineer; work done without lines, grade, and/or cross-section stakes and grades shown on the plans or as given by the Engineer; or work done in deviation from the contract documents without written authority.

UTILITY. Includes all privately, publicly, municipally, or co-operatively owned structures and systems for supplying water, sewer, electric lights, street lights and traffic lights, gas, power, telegraph, telephone, communications, transit, pipelines, and the like.

UTILITY AGENCY. Means and includes (1) all franchised utilities having utility system facilities within the Jurisdiction, including but not limited to gas, electric, telephone, cable television, and communications; (2) communications systems licensed by the Jurisdiction; and (3) all governmental agencies owning or operating governmental utility systems, including but not limited to water, sewer, traffic control, and communications.

WORK. The work shall mean the furnishing of all labor, materials, equipment, and other incidentals necessary for construction of the improvement, successful completion of the contract, and the carrying out of all duties and obligations imposed by the Contract, including the submission of all necessary paperwork relating to payrolls, sales tax, warranties, owner's manuals, maintenance manuals, and the like.

WORKING DAY. Any calendar day, exclusive of Saturdays, Sundays, or a recognized legal holiday, on which weather or other conditions (not under control of the Contractor) will permit construction operations to proceed for not less than 3/4 of a normal work day in the performance of a controlling item of work.

END OF SECTION

PROPOSAL REQUIREMENTS AND CONDITIONS

1.01 QUALIFICATION OF THE BIDDERS

A. The Jurisdiction reserves the right to reject any bid that is not responsive to the proposal form or contract documents, or not submitted by a responsive, responsible bidder.

B. Upon request of the Engineer, the apparent lowest responsive bidder, whose bid is under consideration for award of a contract, shall submit evidence of its financial resources, construction experience, and organization available for performance of the proposed work. A bidder's ability to promptly secure the required bonds and insurance coverages for the proposed work, as well as the bidder's demonstrated ability to continuously maintain insurance coverages on past projects, may be considered an indication of financial responsibility and the bidder's qualification as a responsive, responsible bidder.

1.02 CONTENTS OF THE PROPOSAL FORMS

A. Each prospective bidder will be furnished with a proposal form showing the location and description of the proposed work, the approximate quantities of work to be performed for which bid prices are requested, and the completion provisions. The contract documents will contain any special provisions that shall apply to the work to be performed.

B. The purpose of the contract documents is to require the furnishing of highest quality equipment, material, and workmanship, and best accepted construction practice. The Bidder is expected to base its bid on materials and equipment complying fully with the contract documents. Each bidder, in submitting its bid, acknowledges its willingness to comply with the terms of these contract documents.

1.03 QUANTITIES AND UNIT PRICES

A. Bidders shall submit a lump sum bid or unit bid price, as required by the proposal for the work covered by the contract documents. Prices shall cover complete work and include all costs incidental thereto.

B. When unit prices are requested in the proposal form, the quantities indicated on the proposal form are approximate only, and do not constitute a warranty or guarantee by the Jurisdiction as to the actual quantities involved in the work. Such quantities are to be used for the purpose of comparison of bids and determining the amount of bid security, contract, and performance, payment, and maintenance bond. In the event of discrepancies between unit prices and unit price extensions listed in a bidder’s proposal, unit prices shall govern and unit price extensions shall be corrected, as necessary, for agreement with unit prices. The Jurisdiction expressly reserves the right to increase or decrease the quantities during construction as outlined in Section 1040, 1.06 - Increase or Decrease of Work, and to make reasonable changes in design, provided such changes do not materially change the intent of the contract. The amount of work to be paid for shall be based upon the actual quantities performed.

C. The proposal may have a lump sum item for mobilization. The bidder will indicate its bid price in dollars, and this will be the contract price for mobilization.

D. Materials, equipment, or labor essential for the proper completion of the work that are not specified as bid items in the contract documents and are incidental, and the cost of which shall be included in other bid items.

1.04 EXAMINATION OF THE CONTRACT DOCUMENTS AND SITE OF WORK

A. By submission of a proposal on the work, the bidder represents that it has carefully examined the site of the proposed work; the plans, specifications, and all other contract documents; and that the bidder is fully informed concerning the requirements of the contract, the physical conditions to be encountered in the work, and the character, quality, and the quantity of work to be performed, as well as materials to be furnished. The Contractor will not be entitled to additional compensation if it subsequently finds that conditions require methods or equipment other than that anticipated by the Contractor in making its proposal, except as provided in Section 1040, 1.09 - Changed Site Conditions.

B. The attention of the bidder is directed to the fact that contracts for work, other than the proposed work, may have been awarded or may be awarded in the future. Completion of the proposed work may be contingent upon certain work by others or covered by other contracts being performed on the project in advance of this work; likewise, completion of work by others or covered by other contracts may be dependent upon completion of the proposed work. The bidder is expected to become familiar with work already in progress or previously let on this project, the contract periods, the progress being made, and any other conditions regarding work that may affect the bid or the bidder's performance under this contract.

C. The bidder on this work acknowledges the facts set out in the proceeding paragraph and agrees it is in the public interest to have the work of other contracts and agencies performed concurrently rather than consecutively. The bidder further agrees to cooperate and coordinate the work with other contractors or agencies to the mutual interest of all parties doing work on the project.

D. By the submission of a bid on this work, the bidder acknowledges and agrees investigation and inquiry has been made regarding the contracts for work with which this work must be coordinated. In the event disputes arise between contractors or other agencies doing work on the project as to their mutual rights or obligations, the Engineer will define the rights of all interested parties regarding the work.

E. The Jurisdiction does not warrant, impliedly or explicitly, the nature of the work, the conditions that will be encountered by the bidder, the adequacy of the contract documents for the Contractor to perform the work, or the conditions or structures to be encountered under any surface. Any such data supplied on the plans or other contract documents, or interpretation thereof by the Engineer, are merely for the convenience of the prospective bidders, who are to rely upon their own explorations of latent or subsurface site conditions, before completing and filing their proposal, except as provided in Section 1040, 1.09 - Changed Site Conditions.

1.05 INTERPRETATION OF THE CONTRACT DOCUMENTS

If any prospective bidder is in doubt as to the true meaning of any parts of the contract documents, the bidder may request an interpretation from the Engineer. Any interpretation of the contract documents will be made only by an addendum duly mailed or delivered to each prospective bidder who received, or in the future requests, contract documents from the Jurisdiction.

1.06 ADDENDUM

Each bidder will receive a notice of addendum for any changes in the contract documents made prior to the time established for the receipt of bids. The notice will be delivered in the manner chosen by the Jurisdiction to the bidder's business address with an acknowledgement of receipt required. Acknowledgement of the receipt of the addendum will be as provided in the proposal form.

1.07 PREFERENCE FOR LABOR AND MATERIALS

A. By virtue of statutory authority, preference will be given to products and provisions grown and coal produced within the State of Iowa, and to Iowa domestic labor, to the extent lawfully required under Iowa Code Chapter 73.

B. Such preferences will not be given where funding requirements, federal or otherwise, prohibit the giving of such preferences.

1.08 TAXES

A. Sales Tax Exemption Certificate: The Jurisdiction, as a designated exempt entity awarding construction contracts, will issue Sales Tax Exemption Certificates to contractors and subcontractors allowing them to purchase, or withdraw from inventory, materials for the contract free from sales tax pursuant to Iowa Code Sections 423.2 and 423.45 and Iowa Administrative Code rule 701-219(423). This Sales Tax Exemption Certificate may also allow a manufacturer of building materials to consume materials in the performance of a construction contract without owing tax on the fabricated cost of those materials.

1. Upon award of contract, the Jurisdiction will register the contract, Contractor, and each subcontractor with the Iowa Department of Revenue and Finance; and distribute Sales Tax Exemption Certificates and authorization letters to the Contractor and each subcontractor duly approved by the Jurisdiction according to Section 1080, 1.01 - Subletting or Assignment of Contract. These documents allow the Contractor and subcontractors to purchase materials for the contract free from sales tax. The Contractor and subcontractors may make copies of the Sales Tax Exemption Certificate and provide a copy to each supplier providing construction material. These Sales Tax Exemption Certificates and authorization letters are applicable only for the work under the contract.

2. At the time the Contractor requests permission to sublet according to Section 1080, 1.01 - Subletting or Assignment of Contract, the Contractor shall provide a listing to the Jurisdiction identifying all subcontractors. For each subcontractor, include the Federal Employee Identification Number (FEIN), contact information, the name of a representative for the organization, a description of the work to be sublet, and the associated cost.

3. The Contractor and each subcontractor shall comply with said Iowa Code sales tax requirements, shall keep records identifying the materials and supplies purchased and verify they were used on the contract, and shall pay tax on any materials purchased tax-free and not used on the contract.

B. Alternate Sales and Use Tax: If the Jurisdiction, at its option, decides to utilize the sales and use tax option, it will so state by special provision and publication in the Notice of Hearing and Letting.

1. The bidders shall include in their proposals all amounts payable by the Contractor for taxes imposed by any taxing authority on the sale, purchase, or use of materials and equipment covered by the contract documents. All taxes of the foregoing description shall be paid by the Contractor.

1.08 TAXES (Continued)

2. After delivery of materials and equipment, the Contractor shall submit to the Jurisdiction a statement (on a current Iowa Department of Revenue form) of all taxes of the foregoing description paid on materials and equipment incorporated in the complete construction. If a Sales Tax Exemption Certificate is issued by the Jurisdiction according to Section 1020, 1.08, A, no statement is required.

C. Income Tax: The bidder who is awarded the contract will be subject to payment of Iowa income tax on income from this work in amounts prescribed by law. If such bidder is a non-Iowa partnership, individual, or association, it shall furnish evidence, prior to execution of contract, that bond or securities have been posted with the State of Iowa Department of Revenue in the amount required by law and shall file a certificate issued by the Department, as provided in Iowa Code Section 422.17, releasing the Jurisdiction from withholding any and all sums required by the provision of Iowa Code Section 422.17.

1.09 PREPARATION OF THE PROPOSAL

A. Proposal: Proposals shall be legibly written in ink or typed on the forms provided by the Jurisdiction and shall be completely executed by the bidder with the requisite full signatures. The bidder must indicate in the proposal whether the proposal is submitted by an individual, partnership, joint venture, limited liability company, or a corporation. If the proposal is submitted by an artificial entity, it must be executed by an officer of such entity with authority to bind such bidder to perform the contract upon award. The business address of the bidder shall be typed or printed on the proposal. The Bidder Status Form is required by the Iowa Labor Commissioner, pursuant to Iowa Administrative Code rule 875-156.2(1). The bidder must complete the form and submit it with the proposal. Failure to provide the Bidder Status Form with the bid may result in the bid being deemed non-responsive and may result in the bid being rejected. If the bidder does not qualify as a resident bidder, the non-resident bidder shall specify on the Bidder Status Form whether any preference to resident bidders, including but not limited to any preference to bidders, the imposition of any type of labor force preference, or any other form of preferential treatment to bidders or laborers from that state or foreign country is in effect in the non-resident bidder's state or country of domicile at the time of a bid submittal.

B. Unit Price Attachment: The Engineer, at its option, may allow the bidder to submit a computer-generated attachment, hereinafter referred to as unit price attachment, in lieu of completing that portion of the proposal identifying the bid items, description, unit, quantity, and unit prices. If the Jurisdiction decides to allow this unit price attachment option, it will so state by special provision.

1. If a unit price attachment is submitted, it shall be attached to the proposal and shall include the following minimum information at the top of each page: project title, letting date, bidder's company name.

2. The unit price attachment shall have the same columns as the proposal; e.g. item number, description, unit, quantity, unit price, bid amount, etc. for each item. The bid item numbers and order on the unit price attachment shall follow that of the proposal.

3. The total amount bid shall be entered below the last bid item on the unit price attachment.

4. The unit price attachment page and print size shall be approximately the same as the proposal. Solid lines for separating the columns and lines need not be printed. Pages should be numbered by page number of the total pages (e.g. Page 1 of 4).

5. The bidder's company name, as well as the authorized person signature, name, and title, shall be in ink and shall follow the total amount bid; and shall be the same person that signs the proposal.

1.09 PREPARATION OF THE PROPOSAL (Continued)

6. In case of discrepancy in the item number, description, unit, or quantity between the unit price attachment and the proposal, the proposal shall govern. The unit price shown on the unit price attachment shall govern.

7. The bidder is solely responsible for the content, completeness, and accuracy of all the information contained in the unit price attachment. If the information in the unit price attachment is incomplete, the bid must be considered incomplete and be rejected.

8. When evaluating and tabulating the bids, the Jurisdiction shall utilize only the unit price as shown on the unit price attachment, and the item number, description, unit, and quantity as shown on the proposal.

C. The bidder, as a business organization, shall comply with the requirements of Section 1070, 1.11 - Business Organization Requirements.

D. When unit prices are requested, they shall be submitted on each and every item of work included for which bids are requested. The format for unit prices will be in dollars and whole cents only. In case of discrepancy, the unit price figures shall govern.

1.10 BIDDERS CERTIFICATION

By the submission of its proposal, the bidder certifies its bid is genuine and is not made in the interest of, or on behalf of, any undisclosed person, firm, or corporation; the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid; the bidder has not solicited or induced any person, firm, or corporation to refrain from bidding; and the bidder has not sought, by collusion or otherwise, to obtain for itself any advantage over any other bidder or over the Jurisdiction.

1.11 IRREGULAR AND NONRESPONSIVE PROPOSALS

A. Proposals will be considered irregular and may be rejected for any unauthorized changes in the proposal form or for any of the following reasons:

1. If submitted on a form other than that furnished by the Jurisdiction, or if the form is altered or any part thereof is detached or missing;

2. If the bidder submits an obviously unbalanced bid. An unbalanced bid shall be defined as a bid containing lump sum prices or unit bid prices that do not reflect reasonable actual costs plus a reasonable proportionate share of the bidder's anticipated profit, overhead costs, and other indirect costs to complete that item;

3. If the proposal does not contain a unit price for each pay item listed, except in the case of authorized alternate pay items; or

4. If the bidder submits more than one proposal for the same work under the same or different names.

B. Proposals will be considered nonresponsive and shall be rejected for any of the following reasons:

1. If there are unauthorized additions, conditional or alternate bids, or irregularities of any kind that may tend to make the proposal incomplete, indefinite, or ambiguous as to its meaning;

2. If the bidder adds any provisions reserving the right to accept or reject an award or to enter into contract pursuant to an award;

1.11 IRREGULAR AND NONRESPONSIVE PROPOSALS (Continued)

3. If a bid on one project is tied to a bid on any other project, except as specifically authorized on the proposal form by the Jurisdiction;

4. If the bidder makes corrections or alterations to the unit prices it submits and such corrections or alterations are not initialed by the bidder. The Jurisdiction may require the bidder to identify any corrections or alteration so initialed;

5. If the bidder makes any omission of prices on items shown on the proposal forms, or any addition in writing to the form of the bid, or any condition or limitation on its proposal.

C. If the bidder notes a requirement in the contract documents it believes will require a conditioned or unsolicited alternate bid, it shall immediately notify the Engineer in writing identifying such requirement. If the Engineer finds that such a requirement does exist in the contract documents, the Jurisdiction will make corrections thereto by an addendum.

D. Proposals will be evaluated by the Jurisdiction pursuant to the provisions of Section 1030, 1.01 - Acceptance or Rejection of Proposals.

1.12 SUBMISSION OF THE PROPOSAL, IDENTITY OF BIDDER, AND BID SECURITY

A. The proposal shall be sealed in an envelope, properly identified as the proposal with the project title and the name and address of the bidder, and deposited with the Jurisdiction at or before the time and at the place provided in the Notice to Bidders. It is the sole responsibility of the bidder to see its proposal is delivered to the Jurisdiction prior to the time for opening bids, along with the appropriate bid security sealed in the separate envelope identified as bid security and attached to the outside of the bid proposal envelope. Any proposal received after the scheduled time for the receiving of proposals will be returned to the bidder unopened and will not be considered. If the Jurisdiction provides envelopes for proposals and bid security, bidders shall be required to utilize such envelopes in the submission of their bids.

B. A corporation, limited liability company, or limited partnership shall bid in the name under which it is registered with the Iowa Secretary of State. A partnership shall bid in the name under which it is registered with the County recorder. An individual operating under a trade name shall bid using the trade name registered with the County recorder if such registration is required. The bidder's exact name as registered, if required, shall appear as the "principal" on any bid bond and shall appear on any cashier's check or share draft submitted to fulfill the bid security requirement. A bidder's failure to satisfy these requirements may be grounds for rejection of the bidder's proposal.

1.13 WITHDRAWAL OR REVISION OF THE PROPOSAL PRIOR TO OPENING OF PROPOSALS

A. A bidder may request, without prejudice, to withdraw its proposal after it has been deposited with the Jurisdiction, provided such request is made in writing to the Jurisdiction prior to the time set for receiving proposals.

B. Modifications or corrections to proposals may be made on the withdrawn proposal, provided such modifications or corrections are initialed by the Bidder and are received by the Jurisdiction prior to the time set for receiving proposals. Modifications or corrections to a proposal will not be accepted if the modifications or corrections render the bid security inadequate or if not accompanied by sufficient additional bid security.

C. If a bidder has requested in writing to withdraw its proposal, said bidder may submit a different proposal and bid security at that time or any time prior to the time set for receiving proposals.

1.14 OPENING OF PROPOSALS

At the time and place set forth in the notice to bidders, proposals will be opened and read aloud. Proposals will be rejected if not accompanied by a bid security submitted in a separate, marked envelope. Submittals that do not include acknowledgement of each addendum to the contract documents will be rejected, except in those instances, in the opinion of the Engineer, where the addendum not acknowledged by a bidder will have no effect on the bid amount. Bid openings will be open to the public.

1.15 LIMITATION ON WITHDRAWAL OF PROPOSALS AFTER OPENING OF PROPOSALS

A. A bidder shall not withdraw its proposal for period of up to 60 calendar days after the date designated for opening of proposals, or such other period of time specified in the Notice. However, in those projects involving special assessments, and confirmation by the District Court, no bidder shall withdraw its proposal for a period of 30 calendar days after the confirmation of the assessments by the Court.

B. In the event a bidder desires to withdraw its proposal, it shall make request therefore in writing to the Engineer stating the reasons for such withdrawal.

C. If requested, the bid security of unsuccessful bidders shall be promptly returned as soon as the successful bidder is determined or within 30 days, whichever is sooner.

END OF SECTION

APPROVAL FOR AWARD AND AWARD OF CONTRACT

1.01 ACCEPTANCE OR REJECTION OF PROPOSALS

A. The Jurisdiction reserves the right to accept the proposal that, in its judgment, is the lowest responsive, responsible bid; to award the contract by sections, if so specified in special provisions; to reject any or all proposals; to reject irregular or nonresponsive proposals as defined in Section 1020, 1.11 - Irregular and Nonresponsive Proposals; and to waive irregularities and/or technical deficiencies in the proposals to the extent allowed by law.

B. An individual, firm, partnership, corporation, or any association under the same or different names shall not submit more than one proposal. When reasonable evidence exists that a bidder has submitted more than one proposal at any letting for the same work under the same or different names, said proposals may be rejected.

C. Any or all proposals may be rejected if there is reason to believe collusion exists among bidders. Proposals received from participants in such collusion may not be considered for the same work if re-advertised.

D. Proposals may be rejected if the apparent lowest responsive bidder has failed to promptly meet financial obligations undertaken in connection with other work under contract, or is in default on a previous contract, or has an unsatisfactory record of performance and cooperation on any such previous contract, or has failed to maintain satisfactory progress on work already under contract.

E. In the event the bid specifies the use of materials, workmanship, methods, or equipment not in conformance with the contract documents, the bid will be rejected. In the event the bid was based on, but did not specify, the use of materials, workmanship, methods, or equipment not in conformance with the contract documents, the bidder will be held responsible for furnishing or using materials, workmanship, methods, and equipment in conformance with the contract documents at no change in the bid price.

F. When a contract for a public improvement is to be awarded to the lowest responsible bidder, a resident bidder shall be allowed a preference as against a non-resident bidder from a state or foreign country if that state or foreign country gives or requires any preference to bidders from that state or foreign country , including but not limited to any preference to bidders, the imposition of any type of labor force preference, or any other form of preferential treatment to bidders or laborers from that state or foreign country . The preference allowed shall be equal to the preference given or required by the state or foreign country in which the non-resident bidder is a resident. In the instance of a resident labor force preference, a non-resident bidder shall apply the same resident labor force preference to a public improvement in this state as would be required in the construction of a public improvement by the state or foreign country in which the non-resident bidder is a resident. Application of the preference against a non-resident bidder shall be in accordance with the information filed with the proposal on the Bidder Status Form.

G. Promptly after the proposals are opened and evaluated, the Jurisdiction shall give careful consideration to its needs, available funding, and other project considerations; and shall either designate the lowest responsive, responsible bidder and proceed with award of contract, or reject all bids and reconsider the project.

1.02 RELEASE OF BID SECURITY

A. After the proposals are opened, verified, and duly considered, the Jurisdiction will promptly release the bid security of all except the lowest two bidders after the Jurisdiction's designation of the lowest responsive, responsible bidder. The bid security of the lowest two bidders will be promptly released after the Jurisdiction's approval of the contract executed by the lowest bidder. If all bids are rejected, all bid security will be promptly released.

B. Bid security shall be released to bidders, either by making such bid security available for retrieval by bidders, or, if requested by a bidder, by mailing the bid security to the bidder.

1.03 AWARD OF CONTRACT

A. Contract Document Submittal: Within 10 calendar days after notification by the Engineer, unless otherwise provided in the contract documents, the Contractor shall present the signed and executed contract documents, including contract, performance, payment, and maintenance bond; certificate of insurance; and all other items required by the contract documents. The performance, payment, and maintenance bond and insurance certificate shall meet the requirements of Section 1070, Part 3 - Bonds and Insurance as required by the Jurisdiction. The Jurisdiction will thereupon receive and file such documents and award the contract.

B. Deferred Award: The Jurisdiction reserves the right to defer award of any contract for a period not to exceed 60 calendar days from the date of opening of proposals. No claims for compensable delay shall arise as the result of delay in the approval of award.

C. Failure to Execute the Contract: It is agreed by the bidder that upon its failure to enter into the contract and furnish the necessary insurance certificate and performance, payment and maintenance bond within 10 calendar days after notification by the Jurisdiction, the amount of the bidder's bid security may at the Jurisdiction's option be forfeited and shall become the property of the Jurisdiction, to be retained not as a penalty, but as liquidated damages. The award of the contract may then, at the discretion of the Jurisdiction, be made to the next lowest responsive, responsible bidder, or the work may be re-advertised or may be constructed by the Jurisdiction in any legal manner.

D. Disclosure of Subcontractors:

1. The lowest responsive, responsible bidder shall be required to file a list of the names and subcontract amounts of all subcontractors who are expected to work on the project according to Section 1080, 1.01 - Subletting or Assignment of Contract.

2. If after award of the contract a subcontractor is replaced, or the subcontract price or the work under the subcontract is changed, the bidder shall disclose the name of the new subcontractor, the revised subcontract price, or the change in the scope of subcontract work.

   If a new subcontractor is added after award of the contract, the Contractor shall disclose the name of the new subcontractor.

END OF SECTION

SCOPE OF WORK

1.01 INTENT OF THE CONTRACT DOCUMENTS

A. These SUDAS Standard Specifications have been prepared to provide construction utilizing the best general practices and construction methods, utilizing first quality materials and work. The Contractor shall be responsible for providing or undertaking all work, labor, materials, equipment, tools, transportation, supplies, and activities included in these specifications, unless the responsibility for undertaking or providing same is specifically assigned to an identified party other than the Contractor.

B. The intent of the contract documents is to provide for the construction and completion in every detail of the work described or as may be amended. The Contractor shall furnish all labor, materials, equipment, tools, transportation, and supplies required to complete the work according to the plans, specifications, and terms of the contract documents. The apparent silence or omission of the contract documents as to any detail shall be regarded as meaning only the best general practice is to prevail and only first quality materials and work are to be used.

C. To prepare the plans, specifications, and contract documents, the Engineer may have performed exploratory work to gain information relative to surface and subsurface conditions. This information, when shown in the contract documents, represents a summary of conditions as of the date the survey was made; it is only an approximate estimation of the site conditions made for the Jurisdiction to identify construction conditions and quantities and classes of work. The appearance of this information in the contract documents will not constitute a guarantee conditions other than those indicated will not be encountered at the time of construction. The Contractor's bid shall be prepared based upon its examination of the site and its exploratory work.

D. Before making whatever additional investigations it feels are advisable, a bidder should contact the Engineer to determine available project area. If the Jurisdiction has not obtained right-of-entry for such investigation, the bidder shall be responsible to secure right-of-entry to any parcels where the Jurisdiction has not previously obtained right-of-entry before doing any investigation work. The bidder shall also be responsible for any traffic control necessary for any investigation work. The bidder shall further be responsible to obtain prior utility locates necessary to conduct such investigations.

1.02 CORRELATION OF THE CONTRACT DOCUMENTS

The plans and specifications are intended to supplement each other so any work shown on the plans and not mentioned in the specifications, or vice versa, shall be as binding and shall be completed the same as if that work was mentioned or shown on both and to the true intent and meaning of said plans and specifications.

1.03 COORDINATION OF SPECIFICATIONS, PLANS, AND SPECIAL PROVISIONS

A. In case of any discrepancy between the various items included in the contract documents, the items shall prevail, or govern, in the following descending order:

1. Change Orders
2. Addenda
3. Proposal and Contract
4. Special Provisions
5. Plans, including plan notes

1.03 COORDINATION OF SPECIFICATIONS, PLANS, AND SPECIAL PROVISIONS (Continued)

6. Supplemental Specifications (Jurisdictional document)

7. General Supplemental Specifications (SUDAS)

8. SUDAS Standard Specifications

In case of a discrepancy within any contract document, the following shall prevail, or govern, in descending order: written text, numerals, drawings.

B. The Contractor shall not take advantage of any apparent error or omission in the plans or specifications or of any discrepancy between the plans or specifications.

1.04 CONFORMITY WITH THE CONTRACT DOCUMENTS

A. Reasonably Close Conformity: All work performed and all materials furnished shall comply with the lines, grades, cross sections, dimensions, and material requirements, including tolerances, shown in the contract documents. Where tolerances are not specified, work shall comply with reasonable and customary manufacturing and industry standards. The Engineer may, in the Engineer's sole discretion, accept variations beyond such requirements or tolerances where they will not materially affect the value or utility of the work and interests of the Jurisdiction.

B. Defective Work: Work not in reasonably close conformity with the contract documents, or requirements thereof that, in the sole discretion of the Engineer, has resulted in inferior or unsatisfactory work. Defective work shall be removed and replaced or otherwise corrected by and at the expense of the Contractor.

C. Deficient Work: Work not in reasonably close conformity with the contract requirements but that, in the sole discretion of the Engineer, may be accepted and allowed to remain in place with a price adjustment and/or extended warranty period. In the event the Engineer agrees to accept deficient work with a price adjustment/extended warranty, the Engineer will document the basis of acceptance by contract modification making appropriate adjustments in the contract price for such work or materials.

1.05 PLANS

The final plans on file in the Jurisdiction show the location, typical construction details, and dimensions of the work contemplated. The work shall be performed in conformity therewith, except in case of error or unforeseen contingency.

Electronic support files, if available, will be provided prior to letting and are for information only. Should there be a discrepancy between an electronic support file and a contract document, the contract documents shall govern. No guarantee is made that the data systems used by the Engineer will be directly compatible with the systems the Contractor uses.

Electronic information shall not be considered a representation of actual conditions to be encountered during construction. Providing the Contractor this information does not relieve the Contractor from the responsibility of making an investigation of conditions to be encountered, including, but not limited to, site visits and basing the bid on information obtained from these investigations and professional interpretations and judgment. The Contractor assumes the risk of error if the information is used for any purposes for which the information was not intended. Assumptions the Contractor makes from this electronic information or manipulation of the electronic information is at their risk.

If changes are made during construction, regardless if the change is initiated by the Contracting Authority or Contractor, it shall be the Contractor's sole responsibility to update electronic files that they will use.

1.06 INCREASE OR DECREASE OF WORK

A. The Jurisdiction reserves the right to make such alterations in the plans or in the quantities of work as may be considered necessary. Such alterations shall be in writing by the Engineer and shall not be considered as a waiver of any conditions of the contract documents or to invalidate any of the provisions thereof.

B. Unless such alterations, increases, or decreases materially change the character of the work to be performed or the cost thereof, the altered work shall be paid for at the same unit prices as other parts of the work. Quantity changes amounting to 20% or less of the total bid for an item shall not affect the unit price of that item. If, however, the character of the work or the unit costs thereof are materially changed, due to unforeseen events, an allowance shall be made on such basis as may have been agreed to in advance of the performance of the work.

C. Whenever materials have been delivered to the Contractor or to the work site and the bid item related to those materials is deleted, the Jurisdiction will determine one of the following:

1. Pay invoiced cost for the materials, not to exceed 80% of the authorized amount for the bid item, plus 10% of the invoiced material cost as an overhead charge in addition to documented transportation costs to have the Contractor deliver the materials to the site designated by the Engineer

   OR

2. Pay the invoiced restocking fee (not to exceed 15% of the actual material cost), plus 10% of the restocking fee as an overhead charge, in addition to documented transportation costs incurred by the Contractor to return the materials.

1.07 CHANGE ORDERS

A. Oral Orders: The Engineer shall have authority to give oral orders for minor or incidental changes in the work not involving extra cost and not inconsistent with the proposed purpose of the work.

B. Written Orders: The Engineer may in his/her discretion, and subject to formal approval by the Jurisdiction, if required, issue written change orders changing the scope of the work and/or adjusting the amount to be paid to the Contractor for performing such work; however, the Engineer may, in case of emergency of endangering life or property, orally authorize such a change order without formal approval by the Jurisdiction. Each written change order for extra work shall be explicit in its instruction and shall be duly executed by the Jurisdiction. One copy of said change order shall be filed with the Contractor. Each change order shall stipulate the amount and method of payment.

1.08 SITE CONDITIONS

A. The Contractor is required by Section 1020, 1.04 - Examination of the Contract Documents and Site of Work to make reasonable investigation and examination to determine latent and subsurface conditions at the site of the work prior to preparing its proposal. The Jurisdiction makes no guarantee of any conditions, latent or subsurface, at the site of the work. The Jurisdiction shall not be obligated to make any payments to the Contractor by reason of any latent or subsurface conditions.

B. Failure of the Contractor in determining adverse site conditions prior to filing its proposal, or in any phase of its performance of the work, shall be grounds for refusal by the Jurisdiction to agree to pay for additional work by the contractor necessitated by such site conditions.

1.09 CHANGED SITE CONDITIONS

A. Latent or Subsurface Conditions:

1. If the Contractor encounters latent or subsurface conditions differing materially from those indicated in the contract documents or from those ordinarily encountered in performing work of the character involved, and which the Contractor could not have discovered by a reasonable site investigation and examination of the type customarily undertaken by prudent and competent contractors, and if these unusual or changed conditions are considered by the Contractor as a basis for compensation in addition to the contract price, the Contractor shall promptly after discovery thereof notify the Engineer of its claim in writing. Before disturbing the site at which the latent or subsurface condition is alleged to exist, the Contractor shall give the Engineer the opportunity to inspect the same.

2. After inspection by the Engineer, the Jurisdiction may, in its discretion, authorize the Contractor to proceed with or abandon the work. The Contractor shall resume construction operations pending a decision regarding its claim by the Jurisdiction. Failure of the Contractor to give prompt written notice and to give the Engineer full opportunity to inspect the condition before disturbing the site shall be deemed a waiver by the Contractor of all claims for extra compensation arising out of the alleged condition.

B. Compensation:

1. If the Engineer determines the condition could not reasonably have been discovered, the Contractor is entitled to additional compensation by reason of increased expense caused by the condition, and said condition requires work not contemplated by the contract, a change order will be executed by the parties providing for additional compensation for such amount as the parties may agree upon.

2. If the Engineer determines the condition to be such as to justify an extension in contract time, such additional time will be granted according to Section 1040, 1.11 - Delays Caused by the Jurisdiction and Section 1080, 1.09 - Extension of Time.

1.10 DISPUTED CLAIMS FOR EXTRA COMPENSATION

A. Basis of Claim for Extra Compensation:

1. In any case where the Contractor believes extra compensation is due for work or material beyond the scope of the work under the contract and not ordered by the Engineer as extra work as defined herein, the Contractor shall notify the Engineer in writing of its intention to make claim for such extra compensation before beginning the work on which the claim is based. The Contractor shall not proceed with that work until the Contractor and the Jurisdiction have executed a change order with respect to extra compensation.

2. The Jurisdiction shall be responsible for damages attributable to the performance, nonperformance, or delay, of any other contractor, governmental agency, utility agency, firm, corporation, or individual authorized to do work on the project, only when such damages result from negligence on the part of the Jurisdiction, its Engineer, or any of its officers or employees.

3. In any case where the Contractor deems that extra compensation is due from the contracting authority as damages resulting from such performances, nonperformances, or delays, the Contractor shall notify the Engineer in writing at the time the delay occurs.

1.10 DISPUTED CLAIMS FOR EXTRA COMPENSATION (Continued)

4. In either case, if such notification is not given, or if after such notification is given, the Engineer is not allowed facilities for keeping strict account of actual costs as defined for force-account construction, the Contractor thereby agrees to waive the claim for extra compensation for such work. Such notice by the Contractor, and the fact the Engineer has kept account of the cost as aforesaid, shall not be construed as establishing the validity of the claim.

5. The claim, when filed, shall be in writing and in sufficient detail to permit auditing and an evaluation by the Jurisdiction. The claim shall be supported by such documentary evidence as the claimant has available and shall be verified by affidavit of the claimant or other person having knowledge of the facts.

B. Presentation and Consideration of Claim: If the claimant wishes an opportunity to present its claim in person, the claim shall be accompanied by a written request to do so. Where the claimant asks an opportunity to present its claim in person, the Jurisdiction, within 30 calendar days of the filing of the claim, shall fix a time and place for a meeting between the claimant and the Jurisdiction or its designated representatives or representative. The Jurisdiction shall, within a reasonable time after the filing of the claim or the meeting above referred to, whichever is later, rule upon the validity of the claim and notify the claimant, in writing, of its ruling together with the reasons therefore. In case the claim is found to be just, in whole or in part, it shall be allowed and paid to the extent so found.

C. Request for Arbitration: In the event a Contractor's claim as outlined in the above procedure has been disallowed, in whole or in part, the Contractor may, within 30 calendar days from the date the ruling of the Jurisdiction is mailed, make a written request to the Jurisdiction that its claim or claims be submitted to a board of arbitration. The Jurisdiction shall decide if the matter is subject to arbitration and shall, within 30 calendar days of the receipt of the request for arbitration, grant or deny the request for arbitration. The Jurisdiction's decision shall be final.

D. Board of Arbitration:

1. The board of arbitration shall consist of three persons - one to be appointed by the Jurisdiction, one to be appointed by the Contractor, and the third to be appointed by the two arbitrators thus chosen.

2. The arbitrators selected shall be persons experienced and familiar with construction or engineering practices in the general type of work involved in the contract, but shall not have been a regular employee or an individual retained by either party at the time the claim arose, or at the time of arbitration.

E. Arbitration Proceedings: The board of arbitration shall make its own rules of procedure and shall have authority to examine records kept by the Jurisdiction and the Contractor. If the desired records are not produced within 10 calendar days after they are requested, the board of arbitration shall proceed without them as best it may. Notification of arbitration proceedings shall be made by the arbitration board to both the Jurisdiction and the Contractor, and each shall have the opportunity to attend all sessions of the arbitration board. In determining the findings or award or both, a majority vote of the board shall govern. Copies of the findings or award or both, signed by the arbitrators, shall be filed with the Jurisdiction and the Contractor. A unanimous report or majority report may be used. The board of arbitration shall fix the cost of the proceedings, including a reasonable compensation to the arbitrators, and shall determine how the total cost shall be borne by the parties.

1.10 DISPUTED CLAIMS FOR EXTRA COMPENSATION (Continued)

F. Jurisdiction of Board of Arbitration: The board of arbitration shall have jurisdiction to pass upon questions involving compensation to the Contractor for work actually performed or materials furnished and upon claims for extra compensation that have not been allowed by the Jurisdiction. The board's jurisdiction shall not extend to a determination of quality of workmanship or materials furnished, or to an interpretation of the intent of the plans and specifications except as to matters of compensation. Jurisdiction of the board shall not extend to setting aside or modifying the terms or requirements of the contract.

G. Determination of Board of Arbitration Final: The findings or award, or both, of the arbitration board, if acceptable to both parties to the contract, may become a basis for final payment. If the findings of the arbitration board are unacceptable to either party to the contract, said findings may become the basis for further negotiation between the parties. In the event a solution agreeable to both parties has not been reached through the filing of a claim, through arbitration, or if arbitration has been denied, either party may resort to whatever other methods for resolving the claim are available to it. The Contractor shall not initiate any suit against the Jurisdiction for the adjudication of any claim until said claim has been first presented to the Jurisdiction, pursuant to this article, and either submitted to arbitration or a request for arbitration is denied.

1.11 DELAYS CAUSED BY THE JURISDICTION

If the Jurisdiction or its agents should cause a delay in any part of the work or in the final completion of the job, this fact shall not make void the provisions of the contract as to liquidated damages; but the Contractor will promptly be given such extension of time for the final completion of the job as the Jurisdiction may deem proper to compensate the Contractor for such delay.

1.12 ORAL AGREEMENTS, CONVERSATIONS, AND INFORMAL COMMUNICATIONS

No oral agreement or conversation made or had with any officer, agent, or employee of the Jurisdiction, and no informal written communication from any officer, agent, or employee of the Jurisdiction, occurring either before or after execution of the contract, shall affect or modify any of the terms or obligations contained in any of the contract documents. Such oral contact and such informal writings shall be considered as unofficial information and in no way binding upon the Jurisdiction.

1.13 ERRORS OR OMISSIONS

The Contractor shall examine the plans before beginning construction work. If errors or omissions are discovered in the plans, the Contractor shall call them to the attention of the Engineer before proceeding with the work. In no case shall the Contractor make the corrections therefore without written permission from the Jurisdiction. In case revised plans of a supplementary or explanatory nature are necessary or desirable for clarification, or to correct any errors or omissions, they will be furnished by the Jurisdiction from time to time as the work progresses.

END OF SECTION

CONTROL OF WORK

1.01 AUTHORITY OF THE ENGINEER

A. The work included in the contract is to be done to the complete satisfaction of the Engineer, and the decision of the Engineer as to the true construction and meaning of the contract documents, plans, specifications, estimates, and as to all questions arising as to proper performance of the work, shall be final, except as provided in Section 1040, 1.10 - Disputed Claims for Extra Compensation.

B. The Engineer shall determine the unit quantities and the classification of all work done and materials furnished under the provisions of the contract documents, and the Engineer's determination thereof shall be final except as provided in Section 1040, 1.10 - Disputed Claims for Extra Compensation.

C. The Engineer shall decide any and all questions that may arise regarding the quality or acceptability of materials furnished and work performed, the rate of progress of the work, including cleanup and restoration, acceptable fulfillment and performance of the contract on the part of the Contractor, and compensation. The decision of the Engineer in such matters shall be final except as provided in Section 1040, 1.10 - Disputed Claims for Extra Compensation.

D. Nothing contained in this section or in the contract documents shall be construed as requiring or permitting the Engineer to direct the means, methods, sequences, or procedures, including safety measures, of performing any work under the contract or contract documents, except to ensure the quality of work conforms to these specifications and other provisions of the contract documents and the contract will be completed as scheduled.

1.02 AUTHORITY AND DUTIES OF THE ENGINEER'S AUTHORIZED REPRESENTATIVE

A. The Engineer may appoint a representative to monitor any or all materials used and work done. Such observation may extend to any or all parts of the work and to the preparation or manufacture of the materials to be used. The Engineer's authorized representative will not be authorized to revoke, alter, enlarge, or relax the provisions of these specifications. When placed on the work, the Engineer's authorized representative will keep the Engineer informed as to the progress and quality of the work and the manner in which it is being done.

B. Results of tests and examinations may be available to the Contractor on an informational basis. Absence or presence of representative test data does not alter the Contractor's responsibility for compliance with the contract documents. The Engineer's authorized representative will call to the attention of the Contractor any lack of compliance with the contract documents. However, failure of the Engineer's authorized representative or the Engineer to call the attention of the Contractor to faulty work or to lack of compliance with the contract documents shall not constitute acceptance of such work.

C. The Engineer's authorized representative will not be authorized to approve or accept any portion of the work or to issue instructions contrary to the contract documents. The Engineer's authorized representative will act under the authority of the Engineer to reject defective work or material, and to suspend any work that is not being properly performed, subject to the final decision of the Engineer.

D. The Engineer's authorized representative will not act as supervisor or perform other duties for the Contractor, nor improperly interfere with management of the work. The Engineer's authorized representative will exercise such additional authority as may, from time to time, be delegated by the Engineer.

1.03 COOPERATION BY THE CONTRACTOR

A. A set of approved plans, specifications, contract documents, and any special provisions and authorized alterations will be supplied to the Contractor, and the Contractor shall have them available on the job site at all times.

B. A competent, authorized representative of the Contractor shall be present on the site of the work continually during its progress. This representative must be capable of reading and thoroughly understanding the contract documents and experienced in the type of work being performed. This representative shall supervise, direct, and control the Contractor's operations, personnel, and work, and oversee the Subcontractor's operations.

C. The Contractor shall give the Engineer written notification of the name of the Superintendent. The Contractor or its Superintendent shall receive from the Engineer all explanations and directions necessary for the satisfactory prosecution and completion of the work.

D. The Contractor shall not cause any unnecessary delay or hindrance to other contractors on the work and shall be required to cooperate with other contractors to the fullest extent.

1.04 COOPERATION WITH OTHER CONTRACTORS

A. The Jurisdiction reserves the right to award other contracts in connection with this work and the total improvement. The Contractor is required to become fully informed of the conditions relating to construction and labor under which the work will be or is now being performed, and the Contractor shall employ, as far as possible, such methods and means in the carrying out of its work as will not cause any interruption or interference with any other contractor or agency. The Contractor shall give other contractors reasonable opportunity for the introduction and storage of their materials and the execution of their work, and shall properly integrate, incorporate, and/or coordinate its work with theirs.

B. If any part of the Contractor's work depends for proper execution or results on the work of any other contractor, the Contractor shall inspect and promptly report to the Engineer any defect in such work by another contractor that renders it unsuitable for such proper execution and results. The Contractor's failure to inspect and report such defects shall constitute an acceptance of the other contractor's work as fit and proper for the integration or incorporation of its work, except as to defects that may develop in the other contractor's work after the execution of the Contractor's work.

C. Wherever work being done by the Jurisdiction's forces or by other contractors is contiguous to work covered by the contract, the respective rights of the various interests involved shall be established by the Engineer, in order to secure the completion of the various portions of the work in general harmony.

D. Unless otherwise specified in the contract documents, the Contractor shall give notice, as hereafter provided, to all utilities, public and private agencies, abutting property owners, and all others affected by its operations as to time for starting and for completion of its work, names of streets or locations of alleys closed, schedule of operations, and routes of detours where possible. Notification shall be made sufficiently ahead of time to provide proper re-routing of traffic and erecting of signs before the work is to begin.

E. The Contractor shall properly coordinate and expedite its work in such a manner as to cause the least amount of conflict and interference between its operation and those of all others affected by its operations. Any or all damages or claims resulting from the improper or insufficient notification of all others affected by its operations shall be the responsibility of the Contractor.

1.05 SHOP DRAWINGS, CERTIFICATES, AND EQUIPMENT LISTS

A. Submission of Drawings:

1. The Contractor shall submit to the Engineer all shop drawings and equipment drawings or lists as called for in the contract documents or as requested by the Engineer. Drawings and listings shall be complete and shall contain all required detail information conveyed according to the latest recommended standards for detailing.

2. The Contractor shall make any corrections required by the Engineer and submit the revised shop or equipment drawings or listings for review. After review by the Engineer, the shop or equipment drawings or listings will be so marked, dated, signed by the Engineer, and forwarded to the Contractor for reproduction and distribution.

B. Submission of Equipment Lists:

1. If requested in the contract documents, as soon as practicable after award of contract and before any items of material or equipment are purchased, the Contractor shall submit to the Engineer for review a complete list of the principal fixtures and equipment to be incorporated into the work.

2. The Contractor shall also submit applicable brochures, technical data, catalogs, cuts, diagrams, manufacturer's drawings and installation instructions, samples if required, and other descriptive data including the complete description, trade name, model number, type, size, and rating.

C. Engineer's Review:

1. Review by the Engineer shall not be construed as a complete check but will indicate only that the general method of construction and detail is satisfactory. The Engineer assumes no responsibility for errors in dimensions in the shop drawings and assumes the Contractor will use material complying with requirements of the contract documents or, where not specified, those of sound and reasonable quality, and will erect the subjects of such shop drawings according to recognized standards of first quality work or, when specified, according to standards of the contract documents.

2. Any work done or material ordered by the Contractor prior to review by the Engineer shall be at the Contractor's risk.

1.06 CONFLICT AVOIDANCE

A. Expose possible conflicts, such as utility lines and drainage structures. Verify elevations of each and verify clearances for proposed construction.

B. Complete elements of the work that can affect line and grade in advance of other open cut construction unless noted on the plans.

C. See Section 1040, 1.09 - Changed Site Conditions if unknown or changed conditions are encountered.

1.07 EXAMINATION OF MATERIALS AND WORK

A. The Contractor shall furnish the Engineer and its agents every reasonable opportunity to ascertain whether the work and materials are in reasonably close conformity with the contract documents. At any time before final acceptance of the work, at the request of the Engineer, the Contractor shall remove or uncover portions of the work for examination. After examination, the Contractor shall restore such portions of the work to the standards required by the contract documents.

1.07 EXAMINATION OF MATERIALS AND WORK (Continued)

B. Should the work thus exposed and examined prove acceptable, the uncovering, removing, and replacing of such work shall be paid for as specified in Section 1090, 1.04 - Payment for Change Orders. Should the work thus exposed and examined prove unacceptable, the uncovering, removing, and replacing of such work shall be at the Contractor's expense.

1.08 REMOVAL OF DEFECTIVE WORK AND MATERIALS

A. Defective work or materials may be condemned by the Engineer any time before the final acceptance of the work. Notice of such condemnation shall be given in writing by the Engineer. Such condemned work shall be immediately corrected to the satisfaction of the Engineer. Failure or neglect on the part of the Engineer to condemn unsatisfactory material or reject inferior workmanship shall not release the Contractor, nor shall it be construed as an acceptance of such work, nor shall the final acceptance of such work bar the Jurisdiction from recovering damages on account thereof.

B. Any defective work shall be removed and replaced at the Contractor's expense. Should the Contractor fail or refuse to remove defective work when so ordered by the Engineer, the Engineer shall have authority to order the Contractor to suspend further operations, and may withhold payment on estimates until such defective work has been removed and replaced according to the contract documents.

C. Continued failure or refusal on the part of the Contractor to correct defective work promptly shall be sufficient cause for the Jurisdiction to declare the contract in default. No compensation will be paid to Contractor for defective work or materials, or for the satisfactory removal, correction, or disposal thereof.

1.09 UNAUTHORIZED WORK

A. Unauthorized work is work done contrary to the work shown in the contract documents. The Jurisdiction will not pay for unauthorized work.

B. Unauthorized work may be ordered to be removed and replaced immediately at the Contractor's expense.

1.10 LINE AND GRADE STAKES

A. Minimum standards for construction survey provided by the Jurisdiction will meet the requirements of Section 11,010. The Engineer will set the necessary stakes promptly upon notification by the Contractor that stakes are needed.

B. The work shall be performed in strict conformity with the contract documents and to the lines and grades as fixed by the Engineer, and shall be according to such instructions as may be given by the Engineer. When such stakes or lines are given by the Engineer, the Jurisdiction will be responsible for the correctness thereof, and the Contractor will be responsible for their proper use, interpretation, and preservation.

C. The Contractor shall protect and preserve in their original position all stakes, points, or marks set for the work by the Engineer. Where the Engineer shall consider such stakes, points, or marks to have been unnecessarily altered or destroyed, the Engineer may cause the expense of correcting or replacing them to be charged to the Contractor and the amount of such costs deducted from any monies due or which may become due to the Contractor under the contract.

1.11 PROVIDING JOB SITE UTILITIES

A. The Contractor shall make all necessary arrangements for the provision to the job site of all required utilities for the project. The Contractor shall arrange its work so it will not be delayed because such regulations or requirements relating to the use of utilities. All costs for the provision of utilities to the job site shall be borne by the Contractor.

B. Fire hydrants shall not be used by the Contractor or its subcontractors unless authorization for such use has been obtained from the appropriate water utility agency.

1.12 SALVAGE

A. When the contract documents specify salvage of materials for the Jurisdiction as part of the work, the material to be salvaged shall be carefully salvaged and delivered to the designated location in the best condition and ready for storage. When the contract documents provide for salvage of such materials by the Contractor, the Contractor shall salvage such materials and promptly remove them from the site.

B. The Contractor shall not allow inspection or sale of salvage materials to third parties at the site without written approval of the Jurisdiction.

1.13 PROTECTION OF WATER QUALITY AND WETLANDS

A. The Contractor shall comply with the requirements of the Clean Water Act (33 U.S.C. 1344 and 33 CFR 323) and Executive Order 11990. When it becomes necessary for the Contractor to work in waters of the United States, the Contractor shall be aware that a Section 404 permit may be required.

B. When required, the Contracting Authority will obtain a Section 404 permit for essential work on the right-of-way prior to the award of the contract. The Contractor shall adhere to the requirements of the permit. Activities occurring in or across waters of the United States not specifically reviewed and approved in the permit are not authorized. If the Contractor desires to use construction methods that are not specifically approved by the permit, the Contractor shall be responsible for obtaining approval in the form of a new Section 404 permit from the U.S. Army Corps of Engineers and possibly Iowa DNR. The Contractor shall not use construction methods that require additional mitigation by the Contracting Authority. The Contractor will not be granted additional compensation or contract time due to their request for a new permit. If, however, due to no fault of the Contractor, a Section 404 permit modification involving activities within the right-of-way is deemed necessary by the Engineer, additional contract time and/or compensation may be considered.

1.14 FINAL INSPECTION AND ACCEPTANCE

A. As soon as practicable after the completion of the work, it will be inspected thoroughly by the Engineer. The Contractor will be notified when the inspection is to be made so it or its representative may be present.

B. If the inspection reveals any defects in the work as contemplated by the specifications, such defects shall be repaired or unsatisfactory work shall be replaced, as the Engineer may direct, before final acceptance. The cost of all such repairs and replacement shall be borne by the Contractor, and no extension of the contract time shall be granted because of the time required to remedy such defects.

C. When the work is found to be satisfactory, it will be accepted as provided in Section 1090, 1.08 - Acceptance and Final Payment. Such final acceptance will not be reopened after having once been made, except on evidence of collusion, fraud, or obvious error.

1.15 ADDITIONAL CONTRACTOR RESPONSIBILITIES

If a form of automated machine guidance (AMG) is used for grading or paving operations, the following is required:

A. At least one week prior to the preconstruction meeting, submit to the Engineer for review a written AMG work plan which indicates the following:
- Equipment type
- Control software manufacturer and version
- Proposed location of GPS base station for broadcasting differential correction data to rover units
- Proposed locations where AMG will be utilized

B. Provide Engineer with up to 8 hours of formal training on Contractor's AMG systems.

C. For grading contracts, provide a rover for use by the Engineer.

D. Check and recalibrate, if necessary, the AMG system at the beginning of each work day.

E. Contractor will bear all costs associated with use of the AMG system, including but not limited to reconstruction of work that may be incurred due to errors in application of the AMG system. Correction of grade elevation errors and any associated quantity adjustments resulting from the Contractor's activities are to be done at no cost to the Contracting Authority.

END OF SECTION

CONTROL OF MATERIALS

1.01 MATERIALS SOURCE OF SUPPLY AND QUALITY REQUIREMENTS

A. Materials used in the work shall meet all quality requirements of the contract documents. In order to expedite inspection and testing of materials, the Contractor shall notify the Engineer in writing of the proposed sources of those materials requested by the Engineer promptly after being awarded the contract. Any material shall be produced with a reasonably uniform quality and within requirements specified; the producer shall perform quality control tests and evaluations the producer believes necessary to control the product adequately. All materials for use in the project are subject to inspection and tests at any time prior to being incorporated into the work.

B. For the convenience of the Contractor, and when convenient to the Engineer, materials may be inspected at the site of production. Materials tested and found in compliance at the site of production may be later inspected for reasonably close conformity and normally will not be rejected except for obvious mistakes, contamination, quality change, or mishandling. To avoid later rejection, materials that usually show an extreme change in character or quality prior to or during the process of incorporation into the work should be produced to more rigid limits than those required by the specifications.

C. At the option of the Engineer, approval of the source, or approval of materials at the source prior to delivery, may be required. If it is found after trial that sources of supply for previously approved materials do not produce specified products or when conditions are such that use of unfit materials can not be prevented except by extraordinary inspection methods, the Contractor shall furnish materials from other sources. Before delivery, and at any time during the process of preparation and use, materials shall be subject to the approval of the Engineer.

D. Materials not previously inspected will be inspected at the project site. Acceptance at that time will be based on sampling and testing, producer's certifications, visual inspection, or any combination of these at the discretion of the Engineer.

E. Use of materials on the basis of the producer's certification, quality control tests, and evaluations may be permitted or required. The Engineer may require specific data obtained by qualified persons and procedures be provided with the material, when delivered. Certified gradation testing by a certified aggregate technician will be required for all aggregates to be furnished by the Contractor, and shall be done according to the current Iowa DOT Materials I.M. 209.

1.02 ALTERNATE PROCESSES, EQUIPMENT, OR MATERIALS AND OTHER SUBSTITUTIONS

A. General: In order to establish a basis of quality for the work, performance, or economy of operation, certain processes, types of machinery and equipment, or kind of material may be referenced in the contract documents by designating a manufacturer by name and referring to its brand or model numbers. Such reference is not intended to foreclose other processes, equipment or materials that will in the sole discretion of the Engineer meet, or exceed, the designated standards. There may be instances where the Engineer will not consider alternate processes, equipment, or materials.

B. Consideration:

1. The Jurisdiction may consider alternate processes, equipment, or materials for those specified in the contract documents; however, it is only an indication that the Jurisdiction will not foreclose consideration of the bidder’s/contractor’s request, and is not an approval. Following are the steps for consideration of alternate processes, equipment, or materials:

1.02 ALTERNATE PROCESSES, EQUIPMENT, OR MATERIALS AND OTHER SUBSTITUTIONS (Continued)

a. If a bidder/contractor desires to use alternate processes, equipment, or materials, the bidder/contractor shall contact the Engineer to confirm the Jurisdiction would consider alternate processes, equipment, or materials for those as specified in the contract documents.
b. Support/requirements for submissions of alternatives:
   1) The Engineer will consider and evaluate other products, equipment, methods, and systems only when such items are accompanied by full and complete technical data, test data, code compliance, and other relevant information, including samples and finishes where appropriate.
   2) The bidder/contractor shall submit design information, material compatibility, performance, durability, laboratory tests, chemical analysis, color, manufacturer's specifications, and other relevant information as proof of quality and integrity when presenting proposed alternatives to the Engineer for consideration. The bidder/contractor must include the kind, quality, design, and performance of the proposed materials and equipment.
   3) If alternate methods are proposed, the contractor shall furnish complete engineering plans covering the proposed change.
   4) It is the sole responsibility of the proposer of any alternative product to have pre-qualified the product proposed for its intended use for compliance with all applicable codes within the Jurisdiction prior to submittal to the Engineer for consideration.
c. In making an alternative request, the contractor shall be responsible for all costs including reimbursing the Engineer for services furnished and any time required to review the proposed change.
d. If the bidder/contractor desires to use alternate processes, equipment, or materials for those as specified in the contract documents, the bidder/contractor shall secure the written approval of the Engineer before entering an order therefore.
e. Proposed alternative processes, equipment, or materials that will in the sole discretion of the Engineer meet, or exceed, the designated standards will be given written approval to be used on the project as an "Approved Equal" or "Equivalent" to the specified item.
f. If approval as an "Approved Equal" or "Equivalent" is given by the Engineer, such approval will be on the condition that the bidder/contractor shall be fully responsible for producing construction work in reasonably close conformity with contract requirements.
g. In order to ensure fair competitive bidding, it is critical that all bidders base their bids on providing the material, equipment or process (including those trade named) fully complying with the contract documents.
h. The contractor shall not be entitled to any additional compensation if the Engineer does not approve the contractor's request for alternate processes, equipment, or materials after the contract is awarded. The bidder/contractor is solely at risk until the Engineer issues written notification of "Approved Equal" or "Equivalent."
i. The Jurisdiction reserves the right to adjust the contract price when the cost of an "Approved Equal" or "Equivalent" is less than the cost of the specified item. The contractor shall estimate the net savings of the proposed alternate and if the Engineer approves the proposal, a change order may be processed to reduce the contract amount by up to 50% of the estimated net savings of the "Approved Equal" or "Equivalent."

2. If the contract documents state that the Jurisdiction will not consider alternate processes, equipment, or materials, the bidder/contractor shall not propose any alternates to those specified in the contract documents.

1.03 SAMPLES AND TESTING

A. Each consignment of material shall be tested or inspected before being incorporated into the work and shall be approved by the Engineer in charge of the work before it is used. The Contractor shall allow such facilities for collecting and forwarding samples and subsequent testing as the Engineer may require.

B. Samples shall be supplied to allow ample time for testing without delaying the work. No material for which samples are requested shall be used until the samples have been approved. If necessary, work will be delayed or suspended, at no cost to the Jurisdiction, to permit the completion of all specified tests and examinations. Tests made on the samples of materials utilized for improvements constructed under these specifications will be made by the Jurisdiction at no cost to the Contractor.

C. All tests shall be made by the Jurisdiction testing laboratory, or at such independent testing laboratories as the Engineer shall approve. Except as otherwise specified, the testing of materials furnished for use under these specifications shall be done according to the methods described in the specific ASTM, AASHTO, AWWA, or other authorized specifications for each material. Results of all tests shall be submitted to the Engineer.

1.04 STORAGE OF MATERIALS

The Contractor shall be responsible for care and storage of materials delivered to the work site or purchased for use. Material delivered to the work site and damaged before actual incorporation in the work may be rejected by the Engineer even though it may have been previously acceptable. Stored materials shall be located to facilitate thorough inspections, to minimize environmental damage, and not interfere with operations.

1.05 UNACCEPTABLE MATERIALS

All materials not conforming to the requirements of the specifications at the time they are to be used shall be considered unacceptable, and all such materials will be rejected and shall be removed immediately from the work site unless otherwise instructed by the Engineer. No rejected material, the defects of which have been corrected, shall be used until approval has been given by the Engineer.

1.06 MATERIALS SUPPLIED BY THE JURISDICTION

When any materials are to be furnished by the Jurisdiction, the designation of such materials and the time of availability will be included in the contract documents.

1.07 MATERIALS SUPPLIED BY THE CONTRACTOR

A. Unless otherwise stated in the contract documents, all materials and equipment needed for, or to become a part of, the work shall be furnished by the Contractor. The Contractor shall assume full responsibility for ordering materials and equipment of the quality specified and of the quantity necessary, and shall be responsible for payment of the purchase and/or delivery cost of such materials and equipment.

B. All materials and equipment that become the property of the Jurisdiction as a part of the project shall be unused and newly produced or manufactured with original materials (as opposed to recycled or used materials), shall be state of the art for that material or equipment, and shall be properly stored to protect the integrity of the material and equipment. The Engineer may waive this provision and accept used or recycled material or equipment prior to submission of the bid. Such waiver must be in the form of an addendum.

END OF SECTION

LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

PART 1 - LEGAL RELATIONS

1.01 MUNICIPAL REGULATIONS, STATE, AND FEDERAL LAWS AND REGULATIONS

A. The Contractor shall at all times observe and comply with all applicable Federal, State, County, or City laws, ordinances, orders, and regulations.

B. References in these specifications to particular chapters or sections of the Iowa Code shall be to those chapters or sections as they appear in the current version of the Iowa Code. In the event such chapters or sections of the Iowa Code are subsequently amended, the specifications shall be deemed to refer to those chapters or sections as amended.

C. During the performance of this contract, the contractor (for itself), its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. Compliance with Regulations: The contractor shall comply with the Regulations relative to non-discrimination in Federally assisted programs of the DOT Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.

2. Nondiscrimination: The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, national origin, sex, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

3. Solicitations for Subcontracts, Including Procurement of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurement of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to non-discrimination on the grounds of race, color, national origin, sex, age, or disability.

4. Information and Reports: The contractor shall provide all information and reports required by the Regulations or directives issued pursuant there to, and shall allow access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Contracting Authority, the Iowa DOT, or FHWA to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information the contractor shall so certify to the Contracting Authority, the Iowa DOT, or the FHWA as appropriate, and shall set forth what efforts it has made to obtain the information.

5. Sanctions for Noncompliance: In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the Contracting Authority, the Iowa DOT, or the FHWA shall impose such contract sanctions as they may determine to be appropriate, including, but not limited to:
   a. Withholding of payments to the contractor under the contract until the contractor complies, and/or
   b. Cancellation, termination, or suspension of the contract, in whole or in part.

1.01 MUNICIPAL REGULATIONS, STATE, AND FEDERAL LAWS AND REGULATIONS (Continued)

6. Incorporation of Provisions: The contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurement of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Contracting Authority, the Iowa DOT, or the FHWA may direct as a means of enforcing such provisions including sanctions for non-compliance: Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Contracting Authority or the Iowa DOT to enter into such litigation to protect the interests of the Contracting Authority or the Iowa DOT; and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

1.02 GOVERNING LAW

The law of the State of Iowa shall govern this contract and all subcontracts for materials and services entered into by the Contractor.

1.03 PERMITS AND LICENSES

The Contractor shall procure all necessary permits for the construction of the work and for temporary excavations, obstructions, enclosures, and street openings arising from the construction and completion of the work described in the contract documents. The cost for all required Jurisdictional permits and licenses will be waived by the Jurisdiction. The Contractor shall be responsible for all violations of the law for any cause in connection with the construction of the work or caused by the obstruction of roads, streets, highways, or sidewalks, and shall give all requisite notices to the Jurisdiction or other public authorities in connection therewith.

1.04 PATENTS AND ROYALTIES

The Contractor shall defend, indemnify, and save the Jurisdiction harmless against all claims arising from alleged infringements of patents and royalties covering tools, machinery, processes, appliances, devices, or materials used in connection with the work. Unit prices provided in the proposal shall include payment of all necessary royalties or licenses.

1.05 USE AND OCCUPANCY PRIOR TO COMPLETION OF CONTRACT

The Contractor shall complete any portion or portions of the work in such order and at such time as the Engineer may require. The Jurisdiction shall have the right to use any completed or partially completed portions of the work at any time, but such possession and use shall not be deemed an acceptance of the work so used or any part thereof. If such prior use increases the cost of or delays the work, the Contractor shall be entitled to such extra compensation or extension of time, or both, as the Engineer may determine appropriate. When improvements are released to the Jurisdiction for public use prior to final approval and acceptance, the Contractor will be relieved of the responsibility for damages due to the elements or due to ordinary public use, but only the released and used portion of the improvements. Such release by the Contractor to the Jurisdiction for public use shall be directed in writing by the Engineer.

1.06 CONTRACTOR'S RESPONSIBILITY FOR THE WORK

A. Until the work is accepted by the Jurisdiction, it shall be in the custody of and under the charge, care, and control of the Contractor, who shall take every precaution against damage to the work by action of the elements or any other cause. The Contractor shall rebuild, repair, restore, and make good at its own expense, all damages to any portion of the work before acceptance thereof by the Jurisdiction. Issuance of any estimate or partial payment for work done will not be considered as final acceptance of any work completed.

1.06 CONTRACTOR'S RESPONSIBILITY FOR THE WORK (Continued)

B. If the Contractor completes a unit or portion of the work, the Jurisdiction may at its discretion accept such work and the Contractor may be relieved of further responsibility for such unit or portion of the work. Such partial acceptance shall not void or alter any of the terms of the contract, nor shall it constitute final acceptance of the work as provided in Section 1090, 1.08 - Acceptance and Final Payment.

1.07 RESPONSIBILITY FOR DAMAGE CLAIMS

The parties agree that it is their intent that there be no third-party beneficiaries to this contract. No provision of this contract or of any addendum, materials instructional memorandums, plans, proposal, special provision, developmental specification, supplemental specification, or general supplemental specification shall be construed as creating any third-party beneficiaries.

1.08 PERSONAL LIABILITY OF PUBLIC OFFICIALS

Neither the Engineer nor the Engineer's authorized representatives, agents, or assistants shall have any liability, either personally or as officials of the Jurisdiction, in carrying out any of the provisions of the Contract or in exercising any power or authority granted to them thereby. It being understood that in such matters they will act as the agents and representatives of the Jurisdiction.

1.09 WAIVER OF LEGAL RIGHTS

A. The Jurisdiction shall not be precluded or estopped by any measurement, estimate, or certificate made either before or after the completion and acceptance of the work and payment therefore, from showing the true amount and character of the work performed and the materials furnished by the Contractor, or from showing that any such measurement, estimate, or certificate is untrue or incorrectly made, or from showing that the work or materials do not in fact conform to the contract documents.

B. The Jurisdiction shall not be precluded or estopped, notwithstanding any such measurement, estimate, or certificate and payment in accordance therewith, from recovering from the Contractor and its surety such damages as it may sustain, and all outlay and expense it incurs, by reason of the Contractor's failure to comply with the terms of the Contract. Neither the acceptance by the Jurisdiction nor any of its representatives, nor any payment for acceptance of the whole or any part of the work, nor any extension of time, nor any possession taken by the Jurisdiction, shall operate as a waiver of any portion of the contract, or any powers herein reserved, or any right to damages herein provided. A waiver of any breach of the contract shall not be held to be a waiver of any other subsequent breach.

C. The Contractor hereby waives any claims it may hereafter be entitled to assert against the Jurisdiction, its officers, agents, employees, or consultants, on its behalf or on behalf of its employees, agents, subcontractors, sub-subcontractors, and suppliers, for loss of or damage to personal property, tools, or equipment owned by it or its employees, agents, subcontractors, sub-subcontractors, and suppliers, which loss or damage is sustained on the Jurisdiction's project property, or which occurs during work on the project, and the Contractor agrees to assume liability or responsibility for such claims and to procure insurance to cover its exposure in that regard.

1.10 ACCEPTANCE BY THE JURISDICTION - NOT A WAIVER OF CONTRACTOR'S OBLIGATIONS OR A WAIVER OF THE JURISDICTION'S RIGHTS

A. In various provisions of the contract documents, including these specifications, the Jurisdiction has reserved to itself or the Engineer the authority to test or inspect materials, equipment, or manufactured assemblies and to accept or reject those and other elements of the work.

1.10 ACCEPTANCE BY THE JURISDICTION - NOT A WAIVER OF CONTRACTOR'S OBLIGATIONS OR A WAIVER OF THE JURISDICTION'S RIGHTS (Continued)

B. In various provisions of the contract documents, including these specifications, the Jurisdiction has reserved to itself or the Engineer the authority to require the Contractor's preparation of shop drawings for review and to accept or reject same. If unanticipated and either unusual or complex construction procedures or site conditions occur, the Engineer may require the Contractor to submit such shop drawings as, in the judgment of the Engineer, are necessary to satisfactorily complete the proposed construction.

C. Acceptance or approval by the Engineer as therein provided shall not operate to relieve the Contractor of its obligation (1) to perform the work as required by the contract documents in a workmanlike manner and according to the standards for construction applicable to the type of work covered by this contract generally observed by contractors in this locale and (2) to provide materials and equipment meeting the quality requirements as provided in the contract documents. The Jurisdiction assumes no responsibility for errors in shop drawings and assumes the Contractor will use material complying with requirements of the contract documents or, where not specified, those of sound and reasonable quality, and will erect the subjects of such shop drawings according to recognized standards of first quality work or, when specified, according to standards of the contract documents.

D. No such acceptance by the Jurisdiction shall constitute a waiver by the Jurisdiction of its right to subsequently reject defective work, materials, or equipment. Further, no such acceptance by the Jurisdiction or the Engineer shall be deemed a waiver by the Jurisdiction of its right to recover from the Contractor all losses, damages, outlay, or expense it incurs, which is attributable to such defective work, materials or equipment, or manufactured assemblies, nor shall such acceptance or approval be deemed a waiver of the Jurisdiction's right to indemnity from the Contractor for damage or injury to third parties occasioned by such defective work, materials, or equipment.

1.11 BUSINESS ORGANIZATION REQUIREMENTS

The bidder, or contractor, as a business organization shall comply with the following:

A. A corporation, limited liability company, limited partnership, or other type of business organization governed under Iowa statutes must be registered with the Iowa Secretary of State, must use the name under which it is registered with the Iowa Secretary of State, must be authorized to do business in Iowa, and must be registered as a contractor with the Iowa Department of Labor.

B. A partnership, sole proprietorship, company operating under a trade name, or other type of business organization not governed under Iowa statutes should be registered in the Office of the County Recorder where it is located or where the work is to be performed, must use the name under which it is registered, and must be registered as a contractor with the Iowa Department of Labor. Prior to entering into contract, the designated low bidder, if it is not required to be registered with the Iowa Secretary of State, shall provide to the Jurisdiction the name and address of its registered agent or lawful representative upon whom legal notices and processes may be served. The registered agent or lawful representative must be an Iowa resident, an Iowa profit or nonprofit corporation, or a foreign profit or nonprofit corporation qualified to do business in Iowa.

C. A foreign business organization, organized under the laws of a state other than Iowa, shall file with the Engineer’s documentation that it has complied with all the provisions of this section prior to entering into a contract.

1.11 BUSINESS ORGANIZATION REQUIREMENTS (Continued)

D. If a bid is proposed to be submitted by two persons or entities as a joint venture, the names of the two persons or entities appearing on the documents must be followed by the notation – "a joint venture." In that instance, the bid must also be signed by authorized agents of both entities, and the bid security must indicate that it "applies to and covers the proposal for construction of (Project Name) submitted by the (principal on bond) and (name of other company), submitted as a joint venture proposal." A bid submitted by two persons or entities without any indication they are submitting it as a joint venture, without being signed by authorized representatives of both entities, and without bid security covering both entities as a joint venture, will be rejected.

1.12 CONSENT TO JURISDICTION OF IOWA DISTRICT COURT OR FEDERAL DISTRICT COURT IN IOWA

The Contractor agrees that any causes of action that accrue to it, or which by subrogation or assignment accrue to its sureties or insurers, arising out of or connected with this contract shall be brought in the Iowa District Court in and for the County where the Jurisdiction is located or in the United States District Court in and for the District where the Jurisdiction is located. Contractor further consents, on behalf of itself and its subrogees and assigns, to the jurisdiction of either the Iowa District Court in and for the County where the Jurisdiction is located or the United States District Court in and for the District where the Jurisdiction is located, as to any causes of action brought against it arising out of this contract or any work performed under it by Contractor or its subcontractors, and further agrees, on behalf of itself, its subrogees and assigns, to waive any and all objections to the jurisdiction of said court as to any such cause of action.

1.13 SEVERABILITY

It is the intent of the Jurisdiction and the Contractor that the lawful provisions of this contract shall be severable from any provisions of this contract that are hereafter declared to be illegal or void by a court of competent jurisdiction.

PART 2 - RESPONSIBILITIES TO THE PUBLIC

2.01 SANITATION

The Contractor shall arrange for the necessary sanitary conveniences, properly secluded, for the workers on the project. These shall be maintained in a manner inoffensive to the public and in compliance with the local health regulations.

2.02 CONVENIENCE AND SAFETY

A. Use of Streets: The Contractor is granted the privilege of using Jurisdictional roads, streets, or highways, as shown on the plans, for the purpose of doing work specified in the contract, but is not granted exclusive use of such roads, streets, or highways.

B. Protection of Workers and the Public: The Contractor shall erect and maintain good and sufficient guards, barricades, and signals at or near the work according to the MUTCD and all applicable laws, regulations, and specifications. The Contractor shall, in all cases, maintain safe passageways at all road crossings, crosswalks, and street intersections and shall do all other things necessary to prevent an accident or loss of any kind.

After November 24, 2008, all personnel shall wear ANSI 107 Class 2 apparel at all times when exposed to traffic or construction equipment in the right-of-way.

C. Convenience and Access: The Contractor shall handle the work in a manner that will cause the least inconvenience and annoyance to the general public and to the property owners abutting the work area. The Contractor shall also provide access to the abutting property to the greatest extent practicable.

D. Worker Safety: The Contractor shall comply with all current and future federal and state OSHA requirements. Nothing in this contract or any action by the Jurisdiction shall be interpreted or construed as a waiver of OSHA requirements. It is the Contractor's obligation to follow OSHA requirements and standards at all times.

E. Project Area or Work Site Safety:

1. In accordance with Section 1070, 1.06, until the work is accepted by the Jurisdiction, the work shall be in the custody of and under the charge, care, and control of the Contractor. The Contractor is also responsible for the project area or work site. The Contractor is solely responsible for the safety of everyone on its work site.

2. The Contractor should have a safety program; however, the Contractor need not submit a safety program to the Jurisdiction, and the Jurisdiction will not review or approve the Contractor’s safety program. The Jurisdiction assumes that the Contractor will maintain a safe worksite; however, the Jurisdiction’s staff will not intrude in the Contractor’s responsibility for safety issues.

3. The Engineer may assign some or all of the duties and responsibilities of the Engineer to an authorized representative for a given project. Nothing contained in this section or in the contract documents shall be construed as requiring or permitting the Engineer to direct the means, methods, sequences, or procedures, including safety measures, of performing any work under the contract or contract documents, except to assure that the quality of work conforms to these specifications and other provisions of the contract documents and that the contract will be completed as scheduled.

2.02 CONVENIENCE AND SAFETY (Continued)

4. The Engineer may appoint an authorized representative on the work site to monitor the materials used and the work done by the Contractor. The Engineer's authorized representative is not a safety inspector and is not responsible for monitoring, directing, or otherwise ensuring the safety of the Contractor, its subcontractors, its suppliers, or any others that may be on the work site.

5. Construction of the work included in the contract is by its nature dangerous work; and the Contractor is hereby notified that it is the Contractor's sole responsibility to provide as safe a working site as possible given the nature of the work. It is the Contractor's responsibility to notify and advise its employees, subcontractors, suppliers, and everyone on the worksite of the dangers associated with the work, and provide them with appropriate safety information to protect them from those dangers.

2.03 WORK AREA

A. The Contractor shall confine its work to the Jurisdiction's premises, including construction easements and construction limit lines as shown in the contract documents and verified by the Engineer. The Contractor shall not enter upon or place materials on any private property for which the Jurisdiction has not obtained an easement for such use. The Contractor agrees to defend, indemnify, and hold the Jurisdiction harmless from all suits and actions of every kind and description resulting from the Contractor's use of private property. Before beginning construction, the Contractor shall check with the Engineer for any special instructions concerning easements.

B. Temporary buildings, storage sheds, shops and office, etc., may be erected by the Contractor only with the prior approval of the Engineer and shall be built with labor and materials furnished by the Contractor without expense to the Jurisdiction. Such temporary buildings and utilities shall remain the property of the Contractor and shall be removed by the Contractor, at its expense, after the completion of the work.

2.04 PROJECT AREA FOR THE WORK

A. Acquisition: Existing and proposed additional right-of-way or easements shown on the plans and/or in the contract documents will provide, without cost to the Contractor, adequate space for the performance of the work. If the contract documents do not contain a notice to the Contractor of non-acquired additional right of way or easements, as shown on the plans, and the Contractor provides documentation acceptable to the Engineer, compensation will be allowed for loss or damage occasioned by delays in securing said right-of-way or easements; and, if the need to acquire such additional right-of-way or easements is the sole and only cause of the impossibility of completing the work within the specified time, the Jurisdiction may grant an extension of time if requested by the Contractor. Before beginning construction, the Contractor shall obtain from the Engineer a list of any easements or right-of-way not acquired and any special instructions pertaining to properties affected by the work.

B. Location: Property lines, limits of easements, and limits of construction permits are indicated on the plans, and it shall be the Contractor's responsibility to confine its construction activities within those limits.

C. Use: The Contractor shall confine its equipment, storage of materials, and operation of work to the limits indicated by laws, ordinances, permits, or direction of the Engineer and shall not unreasonably encumber the premises with its materials.

No storage of flammable products or combustible materials shall be allowed below overhead portions of bridges, other highway structures, or existing overhead structures spanning or encroaching the public right-of-way or easements. When not in use, materials or products that present risk of fire hazards must be stored at least 15 feet from the footprint of overhead structural elements.

2.04 PROJECT AREA FOR THE WORK (Continued)

The Contractor shall comply with the Engineer's instructions regarding signs and advertisements.

D. Encroachments: Any damage resulting to persons or property from the Contractor's encroachment beyond the specified limits shall be the sole responsibility of the Contractor.

2.05 EXPLOSIVES

A. Use: The Contractor shall not blast any rock or other materials or allow the same to be done in prosecution of the work, unless it secures the Engineer's approval, proper insurance coverages, and a blasting permit when required.

B. Safety: The Contractor is solely responsible for all damage resulting from blasting operations performed by the Contractor or its agents. The Contractor shall use the utmost care to not endanger life or damage property; and whenever ordered by the Engineer, the number and size of the charges shall be reduced. Suitable coverages or mats shall be provided to confine all materials lifted by blasting within the limits of the excavation or trench. All explosives shall be stored in a secure manner and clearly marked according to all applicable laws and regulations.

C. Regulations: The Contractor shall abide by all existing Federal, State, and Local regulations regarding the use of explosives, including, but not limited to, Uniform Fire Code, Article 77, and National Fire Protection Association 495, Explosive Materials Code of the National Fire Codes.

2.06 TRAFFIC CONTROL

A. General:

1. The Contractor shall maintain traffic and shall provide and maintain traffic control devices according to the contract documents. If there is no specific traffic control plan, then the Contractor's traffic control devices shall meet the requirements of and be placed according to the current edition of MUTCD.

2. During construction, areas to be maintained for traffic shall be kept clear of all hazardous materials, including but not limited to construction debris, dust, and mud.

B. Closing Streets to Traffic:

1. Upon the Engineer's approval, the Contractor may close streets or parts of streets to vehicular traffic as soon as the construction work is started; such streets or parts of streets shall remain closed as long as construction work or condition of the finished work requires. The Engineer will determine how many streets or parts of streets may be closed by the Contractor at one time, and may refuse to allow the closing of additional streets until some of the improvement is finished and opened to traffic.

2. The Contractor shall notify the Engineer 48 hours in advance (excluding weekends) of closing any roads, streets, or public thoroughfares. No road or street shall be closed without prior approval from the Engineer.

3. The Contractor shall not remove, relocate, or reset any permanent Jurisdictional traffic control devices unless authorized to do so by the Engineer or contract documents. If a sign must be removed or relocated for any phase of construction, the Contractor shall notify the Engineer of the necessity for removal. The Engineer shall arrange for the removal, relocation, or resetting of permanent traffic control devices by Jurisdictional personnel as needed to allow the work to proceed. If Jurisdictional personnel are not available, the authorized Jurisdictional representative may give authorization to the Contractor to remove, relocate, or reset the permanent traffic control devices.

2.06 TRAFFIC CONTROL (Continued)

4. In the event the Contractor removes or relocates a traffic control sign without prior notice to or authorization from the Engineer, the Contractor shall bear all responsibility and liability to any person sustaining bodily injury or property damage on account thereof.

2.07 PROTECTION OF ABOVEGROUND AND UNDERGROUND FACILITIES

A. The Engineer has attempted to show on the plans all aboveground and underground facilities, including public and private utilities, which may be affected by the work. The location, depth, and size of each such facility shown on the plans is approximate only and is not guaranteed. Other underground facilities may exist and their location may not be presently known or identified. It is the Contractor's responsibility to determine the existence and exact location of all such facilities located within the construction area to avoid damage.

B. Where existing facilities are shown in the contract documents or encountered within the construction area, it shall be the responsibility of the Contractor to notify the operators of those facilities prior to beginning any construction activities. The Contractor shall allow access to those facilities for necessary modification of services. The Contractor shall support, sustain, and protect existing pipes, conduits, poles, wires, and other apparatus located under, over, along, across, or adjacent to the work site. If such utilities are damaged through Contractor's negligence, they will be repaired by the agencies having control of same, but the cost of such repairs shall be paid by the Contractor.

C. The Contractor shall, prior to commencing any excavation or other operation that may affect underground facilities, notify the "Iowa One Call" underground facility locate system, established pursuant to Iowa Code Chapter 480. The Contractor shall, if requested by the operator of an underground facility, assist in the location of its facilities; provided, however, the Jurisdiction shall not be responsible to the Contractor or to any operator of an underground facility for the cost of locating such facility, or for any damage to such facility that occurs in attempting to locate it, or for any damage to the facility occasioned by the Contractor's performance of work under the contract.

D. Claims for additional compensation will not be allowed to the Contractor for any interference, delay, or additional work occasioned by the location or adjustment of aboveground or underground facilities, or connections thereto.

2.08 PROTECTION OF PROPERTY

A. The Contractor shall continuously maintain adequate protection of all its work from damage and shall protect the Jurisdiction's property and adjacent private property from injury or loss arising in connection with the work. The Contractor shall repair or restore any such damage, injury, or loss to Jurisdiction property or adjacent private property.

B. Protect existing facilities, trees, and shrubs to remain in place. Any damage to existing trees or shrubs, branches, and root systems to remain and to be protected shall be repaired and/or pruned by an experienced tree surgeon or arborist. Do not disturb soil within 10 feet of the drip line of trees without notifying the Engineer. The Contractor shall mark the 10 foot limit from the drip line.

C. The Contractor shall continuously maintain its work area by undertaking mowing, weed control, and solid waste management in a manner matching the maintenance level of the area properties. Failure to do so within three working days after direction from the Engineer may cause the Jurisdiction to do the work and the cost thereof deducted from the Contractor’s next payment.

2.09 LAND MONUMENTS

A. The Contractor will be required to preserve all center stones, land monuments, or other property marks the Contractor may find in prosecuting the work. The Contractor shall notify the Engineer of the finding of any land monuments and shall not remove or disturb same until permission is given to do so, at which time the Contractor shall properly remove said landmarks under the direction of the Engineer.

B. For every land monument lost or destroyed by the Contractor, the Contractor may be charged, and such amount shall be deducted from any monies due or may become due to the Contractor under the contract.

2.10 DUST CONTROL

During construction operations, the Contractor shall be responsible for the control of dust to a degree compatible with the area in which the construction is being performed and with existing environmental regulations. In the event the Contractor does not control dust as specified, the Jurisdiction reserves the right to order dust control to be performed by other forces and withhold the cost thereof from any monies due or may become due to the Contractor under the contract.

2.11 ENVIRONMENTAL AND HISTORIC ITEMS

If contaminated soils, historical artifacts, or other environmental or historic items are encountered, stop work and notify the Engineer.

2.12 RAILROAD CROSSINGS

The authority for performing work beneath, at grade, or over railroad tracks will have been previously secured by the Jurisdiction. It shall be the Contractor's responsibility to contact the railroad company officials prior to beginning the work on railroad property or easements. The Contractor shall perform the work without damage to the facilities and property of the railroad or its lessees, and in strict observance of requirements for the safety of the railroad property and operations. All such work will be subject to the inspection of the railroad's representative. The Contractor shall protect, indemnify, and hold the Jurisdiction harmless from any and all damages resulting from its operations on railroad property or easements or in the construction of railroad crossings according to Section 1070, Part 3 - Bonds and Insurance.

2.13 BORROW AND WASTE SITES

A. Unless borrow or waste sites are designated on the plans or specified in the special provisions, the Contractor shall secure and operate such sites at its own expense.

B. In all cases, borrow and waste sites shall be operated in such a manner as to meet Federal, State, and local safety, environmental, and health requirements. Site operations, or the result of such operation, that create a definite nuisance or result in damage to public or private property will not be permitted. In all cases, sites shall be approved by the Engineer before use.

2.14 MAINTAINING POSTAL SERVICE

A. It shall be the Contractor's responsibility to contact the U.S. Postal Service to ascertain its requirements for the maintenance of postal service to residents or businesses in the vicinity of the work site according to the instructions of the Postal Service. The Contractor shall be responsible for mailboxes at temporary locations designated by the Postal Service, and at the completion of the work, the Contractor shall replace all mailboxes in locations and conditions satisfactory to the Postal Service.

B. Not less than 24 hours prior to removing any mailbox, the Contractor shall notify each affected resident or business addressee in writing advising them of the move and the location of their temporary mailbox during construction.

C. For each residential or business address affected by the work, the Contractor shall place a temporary mailbox at a location approved by the Postal Service. Temporary mailboxes shall be in place so postal service is maintained at all times. Any permanent mailbox that must be removed shall be stored on the property from which it is removed and at a sufficient distance from the work area to ensure it will not be damaged by construction activities.

2.15 FINISHING AND CLEANUP REQUIREMENTS

From time to time, as may be ordered by the Engineer, and immediately after completion of the improvement, the Contractor shall, at its expense, cleanup and remove all refuse and unused materials of any kind resulting from the work. Upon failure to do so within three working days after such request by the Engineer, the work may be done by the Jurisdiction and the cost thereof charged to the Contractor and deducted from its final payment. Upon completion of the work, the Contractor shall remove all its equipment and put the area of the work in a neat and clean condition and do all other cleaning necessary to complete the work in a workmanlike manner satisfactory to the Engineer.

PART 3 - BONDS AND INSURANCE

3.01 PERFORMANCE, PAYMENT, AND MAINTENANCE BOND

A. The lowest responsive, responsible bidder shall be required to file, before the contract is awarded, a surety bond for performance, payment, and/or maintenance on a form provided by the Jurisdiction and in penal sum equal to the total bid amount. Said bond shall be executed by a corporation authorized to contract as a surety in the state of Iowa. Said bond shall be filed in the specified number of copies as a part of the executed contract documents for the Jurisdiction's approval and award.

B. Said bond shall provide that the Contractor shall well and satisfactorily perform and execute the work in all respects, according to the contract documents therefore, and according to the time and conditions of the contract documents, and also that the Contractor shall pay all debts incurred by it in the prosecution of such work, including those for labor and materials furnished. Said bond may also provide for the maintenance of the improvement for the number of years stipulated in the contract documents, and shall remain in full force for the entire maintenance period. Said bond shall in all cases comply with the laws of the State of Iowa and shall be subject to the approval of the Jurisdiction.

C. Within the time period specified in the maintenance portion of the bond, the Contractor shall, as and when ordered by the Engineer, repair, replace, or rebuild such portions of the work found to be faulty because of materials or workmanship. After being notified of the need for repairs, the Contractor shall submit, within seven calendar days, a written report stating its intentions and schedule for completing the repairs for approval by the Engineer. If the Contractor fails to submit such written report or to make the repairs as approved by the Engineer, the Jurisdiction shall have the right to make such repairs and to collect from the Contractor or its surety all outlay and expense the Jurisdiction incurs in making the repair, and in attempting to enforce the terms of the contract and the bond against the Contractor and its surety.

3.02 INSURANCE REQUIREMENTS

A. The Contractor shall purchase and maintain insurance to protect the Contractor and the Jurisdiction against all hazards herein enumerated throughout the duration of the contract. Said insurance shall be provided by an insurance company or companies, “admitted” or “non-admitted” to do business in the State of Iowa, having an A.M. Best rating of no less than “B+.”

B. "Insurance," "insurance policy," or "insurance contract" when used in these specifications shall have the same meaning as "insurance policy" and "insurance contract" under Iowa Code Section 507B.2. All insurance required by this section shall provide coverage on an occurrence basis, not on a claims-made basis, and the person or other entity shall provide evidence of such coverage through an "insurance policy," "contract of insurance," or "certificate of insurance" that clearly discloses on its face coverage on an occurrence basis. Insurance coverage required for hazardous materials abatement including removal of lead, asbestos, PCB's, or the like may be provided on a claims-made basis when it is demonstrated to the satisfaction of the Jurisdiction that occurrence coverage is not reasonably available.

C. Except for workers compensation insurance, the Contractor shall purchase and maintain such insurance as will protect the Contractor and the Jurisdiction as set forth below, which may arise out of or result from the Contractor’s operations under the contract, whether such operations be by the Contractor, its subcontractors or consultants, suppliers, third parties, or the agents, officers, or employees of any of them. In addition, the Contractor shall purchase and maintain workers compensation insurance to cover its employees.

3.02 INSURANCE REQUIREMENTS (Continued)

1. Workers Compensation: A standard Workers Compensation policy approved for use in the State of Iowa shall be issued with the following coverages.
   a. Statutory Benefits covering all employees injured on the job by accident or disease as prescribed by Iowa Code Chapter 85.
   b. Employers Liability insurance with the following limits:

Bodily injury by accident	$500,000 each accident
Bodily injury by disease	$500,000 each accident
Bodily injury by disease	$500,000 policy limit

2. Commercial General Liability Insurance: No less comprehensive and no more restrictive than the coverage provided by a standard form Commercial General Liability Policy (ISO CG 0001 or its equivalent) with all standard exclusions with minimum limits shown below covering claims for damages because of bodily injury, personal injury, or damage to property that occur on the premises under contract or arise out of the operations in performance of the contract. Any additional exclusions shall be identified on the Certificate of Insurance and shall be subject to the review and approval of the Jurisdiction.

General Aggregate Limit	$2,000,000
Products' Completed Operations Aggregate Limit	$2,000,000
Personal and Advertising Injury Limit	$1,000,000
Each Occurrence Limit	$1,000,000
Fire Damage Limit (any one fire)	$50,000
Medical Damage Limit (any one person)	$5,000

This insurance must include the following features:

a. Coverage for all premises and operations. The policy shall be endorsed to provide the Designated Construction Project(s) General Aggregate Limit Endorsement (ISO CG 2503 or its equivalent).
b. Personal and advertising injury.
c. Operations by independent contractors.
d. Contractual liability coverage. If work to be performed by Contractor includes construction or demolition operations within 50 feet of any railroad property and affecting any railroad bridge or trestle, tracks, roadbeds, tunnel, underpass, or crossing, then such policy will include a Railroad's Contractual Liability Endorsement (ISO CG 2417 or its equivalent).
e. Coverage for demolition of any building or structure, collapse, explosion, blasting, excavation, and damage to property below the surface of the ground (XCU coverage).
f. Any fellow employee exclusions shall be deleted as it applies to managerial and supervisory employees.
g. The policy shall not contain a total or absolute pollution exclusion. Coverage shall be provided for pollution exposures arising from products and completed operations.
h. Products and completed operations shall be maintained for the duration of the work; and shall be further maintained for a minimum period of time after final acceptance and payment if required in the Special Provisions.
i. Contractual liability coverage will also include contractually assumed defense costs in addition to policy limits.
j. In lieu of including the Jurisdiction as an additional insured on the Contractor's Commercial General Liability Insurance, the Jurisdiction, at its option, may require the Contractor to provide an Owner's Protective Liability Policy by Special Provision, or may allow the Contractor to provide an Owner's Protective Liability Policy by Change Order. If an Owner's Protective Liability Policy is provided, the minimum coverage, limits, and exclusions shall be as shown above; and the Contractor's premium cost of obtaining such insurance shall be considered incidental to the work and shall not be subject to reimbursement by the Jurisdiction.

3.02 INSURANCE REQUIREMENTS (Continued)

3. Automobile Liability Insurance: Covers all owned, non-owned, hired, and leased vehicles with a minimum combined single limit of $1,000,000 per accident covering claims for damages because of bodily injury, personal injury, or damage to property that arise out of operations in performance of the contract. The insurance must include contractual liability coverage. Any fellow employee exclusion shall be deleted. The policy shall provide Auto Cargo Pollution Endorsement (ISO CA 99 48 or its equivalent), if required in the special provisions.

4. Railroad Protective Liability: If required by the Jurisdiction by special provision, or by an affected railroad, the Contractor shall procure and maintain Railroad Protective Liability Insurance naming the railroad as the insured with minimum limit for bodily injury and property damage liability of $2,000,000 per occurrence, $6,000,000 aggregate, or with such other limits as the railroad shall require. The original of said policy shall be furnished to the railroad and a certified copy of said policy shall be furnished to the Jurisdiction prior to any construction or entry upon the railroad easement premises by the Contractor.

5. Umbrella/Excess Insurance: At the Contractor's option, the limits specified in Section 1070, 3.02, C, 1, 2, 3 may be satisfied with a combination of primary and Umbrella/Excess Insurance. At the Jurisdiction's option, the minimum insurance limits specified above may be increased by special provision. This increase may be satisfied with a combination of primary and Umbrella/Excess Insurance.

6. Additional Insured Endorsements: Except for Workers Compensation, the insurance specified shall:
   a. Include the Jurisdiction as an additional insured, per Section 1070, 3.06, B; and
   b. Be primary to and not in excess of or contributory with any other insurance available to the Jurisdiction.

7. Reference to ISO: Wherever the term "ISO" appears in these specifications, any subsequent equivalent ISO form or non-ISO equivalent form may be used.

3.03 CONTRACTOR'S INDEMNITY - CONTRACTUAL LIABILITY INSURANCE

A. To the extent covered by the standard insurance forms listed in Section 1070, 3.02, the insurance shall include contractual liability insurance to cover all indemnification and hold harmless agreements and provisions in the contract documents, including the following provision.

B. To the fullest extent permitted by law, the Contractor shall defend, indemnify, and hold harmless the Jurisdiction and its officers, agents, employees, and consultants from and against all claims, damages, losses, and expenses, including but not limited to, attorney's fees, arising out of or resulting from the performance or prosecution of the work by the Contractor, its subcontractors, agents, or employees; or arising from any neglect, default, or mismanagement or omissions by the Contractor, its subcontractors or consultants, suppliers, third parties, or the agents, officers, or employees of any of them in the performance of any duties imposed by the contract or by law; provided any such claim, damage, loss, or expense:

1. is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself) including economic damages and the loss of use resulting therefrom, and

3.03 CONTRACTOR'S INDEMNITY - CONTRACTUAL LIABILITY INSURANCE (Continued)

2. is caused in whole or in part by any act or omission of the Contractor, its subcontractors or consultants, suppliers, third parties, or the agents, officers, or employees of any of them, or anyone for whose acts any of them may be liable, regardless whether or not it is caused in part by a party indemnified hereunder.

   Such obligation shall not be construed to negate, abridge, or otherwise reduce any other right or obligation of indemnity that would otherwise exist as to any party or person described in this subsection.

C. In any and all claims against the Jurisdiction or the Engineer or any of their agents, officers, employees, or consultants by any employee of the Contractor, its subcontractors or consultants, suppliers, third parties, or the agents, officers, or employees of any of them, or anyone for whose acts any of them may be liable, the indemnification obligation under this subsection shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Contractor or any subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.

D. The obligations of the Contractor under this subsection shall not extend to the liability of the Engineer, the Engineer's agents, employees, or consultants, arising out of:

1. the preparation or approval of maps, drawings, opinions, reports, surveys, change orders, design standards, or specifications; or

2. the giving of or the failure to give directions or instructions by the Engineer, the Engineer's agents, employees, or consultants.

provided the preparation or the giving or failure to give directions or instructions is the sole proximate cause of the injury or damage.

E. If any litigation on account of such claims shall be commenced against the Jurisdiction, the Contractor, upon notice thereof from the Jurisdiction, shall defend the same at its sole cost and expense; and the record of any judgment rendered against the Jurisdiction on account of such claims for damages shall be conclusive as against said Contractor and entitle the Jurisdiction to recover the full amount thereof, with interest and cost, and attorney's fees incurred by said Jurisdiction, whether the Jurisdiction paid such amounts or not.

3.04 CONTRACTOR'S INSURANCE FOR OTHER LOSSES; WAIVER OF SUBROGATION

A. The Contractor shall assume full responsibility for all loss or damage from any cause whatsoever to any tools owned by the mechanics; or any tools, machinery, equipment, or motor vehicles owned or rented by the Contractor, its subcontractors or consultants, suppliers, third parties, or the agents, officers, or employees of any of them; or to any shed or other temporary structures, scaffolding and stagings, protective fences, and bridges belonging to the contractor, its subcontractors or consultants, suppliers, third parties, or the agents, officers, or employees of any of them, not covered by the Jurisdiction’s Builders Risk Insurance.

B. Contractor shall cause each of its subcontractors, consultants, suppliers, third parties, or the agents of any of them, to carry insurance sufficient to cover all loss to such materials, tools, motor vehicles, and equipment. All insurance carried by the Contractor, or its subcontractors, consultants, suppliers, third parties or the agents of any of them, covering risk of loss or damage to materials, tools, motor vehicles, and equipment used in the performance of the Work, shall provide a waiver of subrogation against the Jurisdiction. To the extent that any subcontractors, consultants, suppliers, third parties or the agents of any of them, do not provide such coverages, any uninsured loss shall be the sole responsibility of the Contractor.

3.05 PROPERTY INSURANCE

A. When stated in the special provisions, the Jurisdiction shall purchase and maintain property insurance, a.k.a. Builder's Risk Insurance, in the amount of the initial bid amount, or in an amount equal to the estimated value of actual building construction, whichever is less, as well as applicable modifications thereto for the entire work at the site on a replacement cost basis. Such property insurance shall be maintained, unless otherwise provided in the contract documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final acceptance of the work by the Jurisdiction. The insurance shall include interests of the Jurisdiction, the Contractor, subcontractors, and sub-subcontractors in the work. This property insurance covering the work will have a deductible of $5,000 for each occurrence, or as stated in the special provisions, which will be the responsibility of the Contractor.

B. Property insurance shall be on an all-risk policy form and shall insure against the perils of fire and extended coverage and physical loss or damage including, without duplication of coverage, flood and earthquake, theft, vandalism, malicious mischief, collapse, falsework, temporary buildings and debris removal, including demolition occasioned by enforcement of any applicable legal requirements, and shall cover reasonable compensation for the Jurisdiction's services and expenses required as a result of such insured loss. Coverage for other perils shall not be required unless otherwise provided in the contract documents.

C. Unless otherwise provided in the contract documents, this property insurance shall cover portions of the work stored off the site, after written approval of the Jurisdiction, at the value established in the approval, and portions of the work in transit. Coverage for work stored off the site and in transit will be not less than 10% of the policy amount.

D. Boiler and Machinery Insurance: The Jurisdiction, at the Jurisdiction's option, may purchase and maintain Boiler and Machinery Insurance required by the contract documents or by law, which shall specifically cover such insured objects during installation and until final acceptance by the Jurisdiction; this insurance shall include interest of the Jurisdiction, Contractor, subcontractors, and sub-subcontractors in the work, and the Jurisdiction and Contractor shall be named insureds.

E. Loss of Use Insurance: The Jurisdiction, at the Jurisdiction's option, may purchase and maintain insurance to insure the Jurisdiction against loss of use of the Jurisdiction's property due to fire or other hazards, however caused. In the event the Jurisdiction purchases such insurance, the Jurisdiction shall waive all rights of action against the Contractor for loss of use of the Jurisdiction's property, including consequential losses due to fire or other hazards, however caused.

F. If the Contractor requests in writing that insurance for risks other than those described herein or for other special hazards be included in the property insurance policy, the Jurisdiction shall, if possible, include such insurance, and the cost thereof shall be charged to the Contractor by appropriate change order.

G. If during the project construction period, the Jurisdiction insures properties, real or personal or both, adjoining or adjacent to the site by property insurance under policies separate from those insuring the project or if after final acceptance, property insurance is to be provided on the completed project through a policy or policies other than those insuring the project during the construction period, the Jurisdiction shall waive all rights according to the terms of Section 1070, 3.05, I, for damages caused by fire or other perils covered by this separate property insurance. All separate policies shall provide this waiver of subrogation by endorsement or otherwise.

3.05 PROPERTY INSURANCE (Continued)

H. Before an exposure to loss may occur, the Jurisdiction shall file with the Contractor a copy of each policy that includes insurance coverages required by this section. Each policy shall contain all generally applicable conditions, definitions, exclusions, and endorsements related to this project. Each policy shall contain a provision that the policy will not be cancelled or allowed to expire until at least 30 calendar days prior written notice has been given to the Contractor.

I. Waivers of Subrogation: The Jurisdiction and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents, and employees, each of the other, and (2) the Jurisdiction's consultants, separate contractors, if any, and any of their subcontractors, sub-subcontractors, agents, and employees, for damages caused by fire or other perils to the extent covered by property insurance obtained pursuant to this section or other property insurance applicable to the work, except such rights as they have to proceeds of such insurance held by the Jurisdiction as fiduciary. The Jurisdiction or Contractor, as appropriate, shall require of the Jurisdiction's consultants, separate contractors, if any, and the subcontractors, sub-subcontractors, agents, and employees of any of them, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.

J. A loss insured under the Jurisdiction's property insurance shall be adjusted by the Jurisdiction as fiduciary and made payable to the Jurisdiction as fiduciary for the insureds, as their interest may appear, subject to requirements of any applicable mortgagee clause and of Section 1070, 3.05, K. The Contractor shall pay subcontractors their shares of insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require subcontractors to make payments to their sub-subcontractors in a similar manner.

K. The Jurisdiction as fiduciary shall have power to adjust and settle a loss with insurers unless one of the parties in interest shall object in writing within five calendar days after occurrence of loss to the Jurisdiction's exercise of this power; if such objection be made, arbitrators shall be chosen according to Section 1040, 1.10, D, provided one arbitrator shall be appointed by the Jurisdiction, one by the party in interest making objection, and the third to be appointed by the two arbitrators thus chosen. Arbitration shall thereafter proceed as provided in Section 1040, 1.10, E through G. The Jurisdiction as fiduciary shall, in that case, make settlement with insurers according to the direction of such arbitrators. If distribution of insurance proceeds by arbitration is required, the arbitrators will direct such distribution.

L. Partial occupancy or use of the work shall not commence until the insurance company or companies provided property insurance have consented to such partial occupancy or use by endorsement or otherwise. The Jurisdiction and the Contractor shall take reasonable steps to obtain consent of the insurance company or companies and shall, without mutual written consent, take no action with respect to partial occupancy or use that would cause cancellation, lapse, or reduction of insurance.

M. Installation Floater: Under contracts where the Jurisdiction does not provide Builders Risk Insurance, the Jurisdiction may by special provision require the Contractor to provide coverage under an “Installation Floater” covering all materials, fixtures, equipment, and supplies provided for the job. Such insurance shall be on an “*all risk*” form in an amount equal to the maximum value of such materials, equipment, or supplies covered on the job site, off-premises at any temporary storage location, or in transit. The Installation Floater covering the equipment shall have a maximum deductible no greater than $5,000 for each occurrence, which will be the responsibility of the Contractor.

3.06 ENDORSEMENT NAMING JURISDICTION AS AN ADDITIONAL INSURED / CANCELLATION AND MATERIAL CHANGE / GOVERNMENTAL IMMUNITIES ENDORSEMENT

A. All liability insurance policies the Contractor is required to provide pursuant to this Section 1070, Part 3 - Bonds and Insurance shall be by endorsement name and designate the Jurisdiction as an additional insured.

B. The Additional Insured Endorsement shall include the following provisions:

The Jurisdiction, including all its elected and appointed officials, all its employees and volunteers, all its boards, commissions and/or authorities and their board members, employees, and volunteers, and all its officers, agents, and consultants, are named as Additional Insureds with respect to liability arising out of the Contractor's work and services performed for the Jurisdiction. This coverage shall be primary to the Additional Insureds, and not contributing with any other insurance or similar protection available to the Additional Insureds, whether other available coverage by primary, contributing, or excess.

The Additional Insured Endorsement shall be included on all Commercial General Liability, Automobile Liability, and Umbrella/Excess Insurance policies.

C. The Cancellation and Material Change Endorsement shall include the following provisions:

Thirty calendar days advance written Notice of Cancellation, Non-Renewal or Reduction in Insurance coverage and/or Limits, and 10 calendar days written Notice of Non-payment of Premium, shall be sent to the Jurisdiction at the office and attention of the Certificate Holder. This endorsement supersedes the standard cancellation statement on the Certificate of Insurance to which this endorsement is attached.

This Cancellation and Material Change Endorsement shall be included on insurance policies required by the SUDAS Standard Specifications.

D. All liability policies that include the Jurisdiction as an additional insured shall include a Governmental Immunities Endorsement, pursuant to Iowa Code Section 670.4, which endorsement shall include the following provisions:

1. Nonwaiver of Government Immunity: The insurance carrier expressly agrees and states the purchase of this policy and including the Jurisdiction as an Additional Insured does not waive any of the defenses of governmental immunity available to the Jurisdiction under Iowa Code Section 670.4 as it now exists and as it may be amended from time to time.

2. Claims Coverage: The insurance carrier further agrees this policy of insurance shall cover only those claims not subject to the defense of governmental immunity under Iowa Code Section 670.4 as it now exists and as it may be amended from time to time.

3. Assertion of Government Immunity: The Jurisdiction shall be responsible for asserting any defense of governmental immunity, and may do so at any time and shall do so upon the timely written request of the insurance carrier. Nothing contained in this endorsement shall prevent the carrier from asserting the defense of governmental immunity on behalf of the Jurisdiction.

4. Non-Denial of Coverage: The insurance carrier shall not deny coverage or deny any of the rights and benefits accruing to the Jurisdiction under this policy for reasons of governmental immunity unless and until a court of competent jurisdiction has ruled in favor of the defense(s) of governmental immunity asserted by the Jurisdiction.

3.06 ENDORSEMENT NAMING JURISDICTION AS AN ADDITIONAL INSURED / CANCELLATION AND MATERIAL CHANGE / GOVERNMENTAL IMMUNITIES ENDORSEMENT (Continued)

5. No Other Change in Policy: The insurance carrier and the Jurisdiction agree the above preservation of governmental immunities shall not otherwise change or alter the coverage available under the policy.

This Government Immunities Endorsement shall be included on all insurance policies that include the Jurisdiction as Additional Insured.

E. All liability policies purchased in the Jurisdiction's name shall include a Governmental Immunities Endorsement, pursuant to Iowa Code Section 670.4, which endorsement shall include the following provisions:

1. Nonwaiver of Government Immunity: The insurance carrier expressly agrees and states the purchase of this policy does not waive any of the defenses of governmental immunity available to the Jurisdiction under Iowa Code Section 670.4 as it now exists and as it may be amended from time to time.

2. Claims Coverage: The insurance carrier further agrees this policy of insurance shall cover only those claims not subject to the defense of governmental immunity under Iowa Code Section 670.4 as it now exists and as it may be amended from time to time.

3. Assertion of Government Immunity: The Jurisdiction shall be responsible for asserting any defense of governmental immunity, and may do so at any time and shall do so upon the timely written request of the insurance carrier. Nothing contained in this endorsement shall prevent the carrier from asserting the defense of governmental immunity on behalf of the Jurisdiction.

4. Non-Denial of Coverage: The insurance carrier shall not deny coverage or deny any of the rights and benefits accruing to the Jurisdiction under this policy for reasons of governmental immunity unless and until a court of competent jurisdiction has ruled in favor of the defense(s) of governmental immunity asserted by the Jurisdiction.

5. No Other Change in Policy: The insurance carrier and the Jurisdiction agrees that the above preservation of governmental immunities shall not otherwise change or alter the coverage available under this policy.

This Government Immunities Endorsement shall be included in all Insurance Policies in the Jurisdiction's name.

3.07 PROOF OF INSURANCE

A. The Contractor shall, prior to the Jurisdiction's approval and execution of the Contract, provide to the Jurisdiction a certificate or certificates of insurance evidencing all required insurance coverages as required in this Section 1070, Part 3 – Bonds and Insurance, utilizing the ACORD certificate form, or equivalent, required by the Jurisdiction. The Certificate of Insurance requirement may be satisfied with a blanket certificate.

B. The Description of Operations on the Certificate of Insurance for the work must state either: 1) Blanket certificate of coverage of all work, services, or projects with the Jurisdiction, or 2) Identify the specific project by name and project number. The Contract will not be submitted for approval execution by the Jurisdiction until all certificates of insurance are correct and have received staff approval.

C. The Cancellation statement on the Certificate of Insurance shall be superseded by the Cancellation and Material Changes Endorsement, which shall be attached to the certificate.

3.07 PROOF OF INSURANCE (Continued)

D. All endorsements required for the work shall be attached to the appropriate Certificate or Certificates of Insurance and shall be, on the face thereof, listed by name.

E. If an Owner's Protective Policy is provided, the policy with appropriate endorsements shall be submitted to the Jurisdiction. The Contract will not be submitted for approval and execution by the Jurisdiction until the Owner's Protective Policy and all certificates of insurance are correct and have received staff approval.

3.08 NOTIFICATION IN EVENT OF LIABILITY OR DAMAGE

A. Upon the occurrence of any event, the liability for which is herein assumed by the Contractor, the Contractor agrees to forthwith notify the Jurisdiction in writing of such happening, which notice shall give the details as to the happening, the cause as far as can be ascertained, the estimate of loss or damage done, the names of witnesses, if any, and stating the amount of any claim.

B. In the event the Jurisdiction has or obtains actual knowledge of any event that may result in a claim, the liability for which is herein assumed by the Contractor, the Jurisdiction agrees to notify the Contractor of such event within a reasonable period of time after acquiring knowledge thereof; provided however, the Jurisdiction shall have no duty to inspect the project to obtain knowledge of such events; and provided further the Jurisdiction's failure to so notify the Contractor shall not relieve the Contractor of any liability or obligation herein assumed by the Contractor.

3.09 SAMPLE INSURANCE FORMS

See the SUDAS website (www.iowasudas.org) for examples of standard insurance forms.

END OF SECTION

PROSECUTION AND PROGRESS

1.01 SUBLETTING OR ASSIGNMENT OF CONTRACT

A. Work by Contractor:

1. The Contractor shall perform, with its own organization and forces, work amounting to no less than 30% of the total contract cost, except any items designated in the contract documents as "specialty items" may be performed by subcontract, and the cost of any such "specialty items" may be deducted from the total contract cost before computing the amount of work required to be performed by the Contractor with its own organization. Any items that have been selected as "specialty items" for the contract will be listed as such in the contract documents.

2. In order to meet this 30% requirement, the Contractor shall not purchase any materials for a subcontracted item, nor shall it place other contractor's employees on its payroll.

3. The Contractor shall not assign this Contract to another person, firm, or corporation without the prior consent of the Jurisdiction. The Jurisdiction may refuse to approve a proposed assignment of contract if such assignment would not be in the best interests of the Jurisdiction, or if such assignment would be contrary to law or public policy. An assignment of contract and all subcontracts shall be in writing.

B. Permission to Sublet:

1. The Contractor shall not sublet, assign, or otherwise dispose of any portion of the contract, except for the furnishing and transportation of materials, without a written "permission to sublet" order duly approved by the Jurisdiction.

2. Requests for permission to sublet, assign, or otherwise dispose of any portion of the contract shall be in writing and shall provide the name, address, telephone number, and representative of the organization that will perform the work, a description of the work is to be sublet, and the associated cost. When requested by the Engineer, the Contractor shall provide a written report showing the organization that will perform the work is particularly experienced and equipped for such work.

3. Consent to sublet, assign, or otherwise dispose of any portion of the contract shall not be construed to relieve the Contractor of any responsibility for the fulfillment of the contract or in any way create any contractual relationship between the subcontractor and the Jurisdiction.

C. Subcontracts:

1. Upon request of the Engineer, the Contractor shall submit a copy of each subcontract agreement within 10 calendar days.

2. The Contractor shall be responsible to include all conditions and requirements of the contract documents in all its subcontracts and enforce said requirements with its subcontractors.

1.02 CONTRACT TIME

A. When a completion date is specified in the contract documents, the contract time shall be the time from the starting date stated in the Notice to Proceed to the date specified for completion as shown in the contract, both dates inclusive. When working days or calendar days are specified in the contract documents, the contract time shall be the time as calculated with the number of working days or calendar days as specified in the contract and the starting date in the Notice to Proceed. The contract time may be extended by the Jurisdiction as provided in these specifications, in which event the contract time includes the new extension of time. The Contractor acknowledges that if it fails to complete the contract in said time, liquidated damages will be assessed against it as specified in Section 1080, 1.12 - Liquidated Damages.

1. Completion Date Contracts: The Contractor shall complete the contract on or before the completion date. Unless otherwise noted in the proposal form, the Contractor may commence work any time after receipt of the signed contract, specifications permitting and issuance of the Notice to Proceed. Section 1080, 1.06 will not apply. Liquidated damages will be assessed according to Section 1080, 1.12 for each calendar day beyond the completion date that the contract remains uncompleted.

2. Calendar Day Contracts: The Contractor shall complete the contract within the number of consecutive calendar days specified. The calendar day count will commence on the date specified by the Notice to Proceed. Section 1080, 1.06 will not apply. Liquidated damages will be assessed according to Section 1080, 1.12 for each calendar day beyond the specified number of calendar days that the contract remains uncompleted.

3. Working Day Contracts: The three types of start dates are as follows:

   a. Specified Start Date: Working days will be charged to the Contractor starting on the specified start date, the date noted in the Notice to Proceed, or 14 calendar days after execution of the contract, whichever is later. Starting work prior to the specified start date will be considered upon request, and working days will be charged when work starts.

   b. Approximate Start Date: It is expected the site will be available by the approximate start date. If it appears the site will not be available by the approximate start date, the Engineer will inform the Contractor of the delay and if possible the duration of the delay. The Contractor may commence work, weather and specifications permitting, any time after execution of the contract, after receipt of the Notice to Proceed, and on or after the approximate start date provided the site has become available. If work is started under these conditions, working days will be charged. Starting work before the approximate start date and before the site is available, will be considered only after the Contractor has submitted a signed waiver of any right to claim extra compensation for damages due to delays from any cause related to early commencement. If approved, working days will not be charged when working prior to the date of site availability. If the Contractor is working on the project when the site becomes available, working days will be first charged on the following day.

   c. Late Start Date: Unless otherwise noted in the proposal form, the Contractor may commence work any time after receipt of the signed contract, receipt of the Notice to Proceed, and weather and specifications permitting. Working days will begin to be charged whenever the Contractor starts work. Charging of working days will begin on the late start date if the Contractor has not started work prior to this date.

      If the Contractor wishes to start preliminary work prior to the late start date and move out intending to return at a later date to complete the project, the Contractor shall request approval from the Engineer for temporary suspension of work according to Section 1080, 1.08. Approval of suspension of work in this circumstance will be based on if the project area is in a condition that is at least as safe as it was before the start of the work. The Engineer will submit in writing to the Contractor approval for suspension of work and a computed revised late start date. The revised late start date will be computed by adding the working days used for the preliminary work to the late start date listed on the proposal form. The charging of the remainder of the working days will resume on the revised late start date or when the Contractor recommences work if prior to the revised late start date.

1.02 CONTRACT TIME (Continued)

B. Intermediate contract periods may be designated for completion of a specific item or certain portions of the contract. The contract period and the liquidated damages, if any, for each portion will be listed in the contract documents.

1.03 WORK PROGRESS AND SCHEDULE

A. The progress of the work shall be at a rate sufficient to complete the contract within the time allowed. The Contractor's sequence of operations shall be such as to cause as little inconvenience to the general public as possible.

B. After being awarded the contract, and if requested by the Engineer, the Contractor shall immediately prepare and submit to the Engineer for approval a progress schedule that will ensure the completion of the project within the time specified. Adequate equipment and forces shall be made available by the Contractor to start work immediately upon Notice to Proceed by the Engineer and to prosecute the work to completion according to schedule and within the time specified.

C. If it appears the rate of progress is such that the contract will not be completed within the time allowed, or if the work is not being executed in a satisfactory and workmanlike manner, the Engineer may order the Contractor to take such steps as necessary to complete the contract within the period of time specified or to prosecute the work in a satisfactory manner. If the Contractor fails to comply with such order within two weeks after receipt of the order, the Jurisdiction will have the right to declare the contract in default.

1.04 PRECONSTRUCTION CONFERENCE

The Engineer may schedule and conduct a preconstruction conference. The Contractor and the intended subcontractors, if known, shall participate in this conference. The Engineer will invite representatives of railroads and utilities and others having responsibilities or interest in the work.

1.05 NOTICE TO PROCEED

A. The return of the signed and executed contract to the Contractor shall serve as notice the contract bond is acceptable, the contract is in force, and the Contractor may complete arrangements for materials and other work according to the contract documents.

B. The Contractor shall begin work as specified in the Notice to Proceed issued by the Engineer and shall prosecute the work vigorously and continuously to completion, except when it is physically impossible to do so due to weather conditions or other unavoidable handicaps. The necessity of discontinuing and resuming work on any portion of the contract shall be determined by the Engineer.

C. The Jurisdiction may, if provided for in the contract documents, give a limited Notice to Proceed as to any portion of the work under the contract.

1.06 WEEKLY RECORD OF WORKING DAYS

A. On contracts with completion provisions based upon working days, the Engineer will furnish the Contractor a weekly statement showing the number of working days charged to the Contractor for the preceding week, the number of working days specified for completion of the project, the number of working days remaining to complete the contract, and the revised date for completion.

1.06 WEEKLY RECORD OF WORKING DAYS (Continued)

B. Working days will be charged under the following circumstances:

1. Prior to Commencement of Work: Beginning on the date designated in the Notice to Proceed, or beginning on the specified starting date or as soon thereafter as provided in the specifications, a working day will be charged for every calendar day other than Saturday, Sunday, or a recognized legal holiday. Working days will be charged for Saturdays if a mandatory six-day work week is specified in the contract documents.

2. After Commencement of Work: One full working day will be charged for any weekday, exclusive of Saturdays, Sundays, or a recognized legal holiday, when weather or other conditions (not under control of the Contractor) will permit construction operations to proceed for not less than 3/4 of a normal workday in the performance of a controlling item of work as determined by the Engineer. If such conditions allow operations to proceed for at least 1/2 but less than 3/4 of the normal working hours, one-half working day will be charged.

   Working days will not be charged for Saturdays (unless a mandatory six-day work week is specified in the contract documents), Sundays, and recognized legal holidays the Contractor does not work. As an incentive to the Contractor to expedite the work, working days will not be charged for Saturdays the Contractor does work, unless a mandatory six-day work week is specified. Working days will be charged for Sundays and recognized legal holidays if the contractor does work on the controlling item or work requiring inspection.

   When cure time of pavements and structural concrete is the controlling item of work, working days will be charged; this will not include Saturdays, Sundays, and recognized legal holidays according to the paragraph above.

   Upon written notice to the Contractor, the Engineer may suspend charging of working days on substantially completed contracts for up to 30 calendar days when only cleanup of the project site or minor work items remain. If the designated time has expired and the remaining work items and site cleanup remain uncompleted, the Engineer may restart charging of working days effective at the end of the designated period by providing written notice to the Contractor.

C. Any objection by the Contractor to such weekly determinations shall be deemed waived and shall not thereafter be made the basis of any claim, unless the Contractor shall, within seven calendar days after receipt of a weekly statement, file with the Engineer its written protest setting forth its objections and reasons. If the Contractor's objection to the working day count is made on the grounds it was unable to work due to causes beyond its control, the Contractor shall state its reasons in writing, furnish proof to establish its claim, and state the approximate number of calendar days it estimates it was delayed. The Engineer shall then determine the appropriate number of working days to be charged under the contract.

1.07 WORK ON SUNDAYS OR LEGAL HOLIDAYS

A. Except when an accelerated work schedule is required in the contract documents, no work requiring inspection will be allowed on Sundays or holidays observed by the Jurisdiction except with permission of the Engineer. The Contractor should request a determination of the holidays observed by the Jurisdiction.

B. Such work as may be required to properly maintain or protect completed or partially completed construction, or to maintain lights and barricades, will be permitted on Sundays or holidays without specific permission of the Engineer.

1.08 TEMPORARY SUSPENSION OF WORKING DAYS

When, in the judgment of the Engineer, unfavorable weather makes it impractical to secure acceptable results or other conditions warrant an order to suspend working days, the Engineer shall issue to the Contractor a written order to suspend working days wholly or on any part of the contract. When conditions are again favorable for prosecution of the working days, the Engineer shall issue to the Contractor a written order to resume the suspended working days. Orders to suspend working days will not be written for short intermittent shutdowns due to weather conditions. The Contractor shall take every precaution to prevent any damage or unreasonable deterioration of the work during the time of suspended operations.

1.09 EXTENSION OF TIME

A. Allowances for Delays: The Contractor expressly covenants and agrees that in undertaking to complete the work within the contract time, it has taken into consideration and made allowance for all delays and hindrances that would ordinarily be anticipated in performing such work.

B. Request for Extension of Time: Whenever the Contractor becomes aware of its inability to complete the work under the contract within the contract period, it shall request an extension in writing. Such request shall be submitted to the Engineer at least two weeks prior to the expiration of the contract time to allow for the Jurisdiction's action before termination. The submission or acceptance of a request for extension of time shall not guarantee such extension will be granted. The following items may be justification for extension of time:

1. **Weather:** Extension of time due to adverse weather conditions at the site, so unusual or severe as not to be reasonably anticipated, as determined by the Engineer, may be requested. An average or usual number of inclement working days when work cannot proceed are to be anticipated during the construction period and are not to be considered as warranting extension of time.

2. **Other Contractors:** An extension of time may be requested for delays caused by the noncompletion of essential work of other contractors, provided such noncompletion is the sole and only cause of delay, and where the Contractor has available on the site of the work all equipment, material, and labor necessary to proceed with the work.

3. **Change Orders:** An extension of time may be requested for delays caused by the issuance of a change order, where the work occasioned by the change order is the sole and only cause of the impossibility to complete the work within the specified time.

4. **Work Stoppage:** An extension of time may be requested for delays caused by a general work stoppage in the area or a work stoppage affecting this project that is beyond the control of the Contractor, or where the Contractor has taken in good faith all steps made available to it by law to resolve the causes thereof and to terminate such work stoppage.

5. **Acts by U.S. Government:** An extension of time may be requested for delays caused by any act taken by the United States government that would affect fabrication or delivery of materials or equipment to the work site.

6. **Court Proceedings:** An extension of time may be requested for delays caused by any court proceedings.

7. **Other Delays:** An extension of time may be requested for other delays encountered by the Contractor beyond its control and impossible for the Contractor to complete the contract within the specified time.

1.09 EXTENSION OF TIME (Continued)

C. Claims for Damages: The Contractor shall have no claim for damages for any extensions or delays provided or mentioned in the preceding portions of this section; but the Contractor shall, in such cases, be allowed to petition for such extension of time as the Jurisdiction may grant in writing on account of such delay, provided, however, the claim for such extension of time is made by the Contractor in writing to the Jurisdiction immediately after any such delay occurs.

D. Extension of Time Granted: No extension of time shall be granted or recognized except as specifically approved by the Jurisdiction in writing to the Contractor. Oral representations or agreements by Jurisdiction agents or employees regarding time extension shall not be binding on the Jurisdiction.

1.10 CONTRACTOR'S EMPLOYEES, METHODS, AND EQUIPMENT

A. Superintendent:

1. All work under the contract shall be performed under the continuous supervision of competent personnel, thoroughly experienced in the class of work specified.

2. Prior to beginning work, the Contractor shall give the Engineer, in writing, the name of the Contractor's official representative or superintendent for the project. The superintendent shall be capable of providing adequate supervision of the project and shall be responsible for receiving instructions, notices, and written orders from the Engineer. A change of the superintendent shall be reported to the Engineer in writing. Failure to provide adequate supervision of the project shall be grounds for the Engineer to require a change in supervision before allowing the work to proceed. The superintendent shall be responsible for reporting to the Engineer any inconsistencies, omissions, or lack of definite detail in the plans, special provisions, or contract documents that may be discovered.

3. The lack of proper supervision by the Contractor or by its supervisory personnel shall be just cause for termination of the contract.

B. Workers:

1. The Contractor shall employ competent and efficient workers for every kind of work. The Jurisdiction reserves the right to direct the suspension or discharge from the work any worker, employee, agent, overseer, foreman, or superintendent in the employ of the Contractor, who, in the opinion of the Engineer, shall be incompetent, negligent, unfaithful, insubordinate, or disorderly, and any such person shall immediately be suspended or discharged by the Contractor whenever so directed by the Engineer.

2. The Contractor shall not employ or hire any of the employees of the Jurisdiction without permission of the Engineer.

C. Methods and Equipment:

1. The methods and equipment used by the Contractor shall produce a satisfactory quality of work and shall be adequate to maintain the schedule of progress specified. Equipment used on any portion of the project shall be such, and its use so regulated, that no serious or irreparable damage to the roadway, adjacent property, or other streets or highways will result from its use. If damage does occur to the street or highway, suitable repairs shall be made at the Contractor's expense.

1.10 CONTRACTOR'S EMPLOYEES, METHODS, AND EQUIPMENT (Continued)

2. When the methods and equipment to be used by the Contractor in accomplishing the construction are not prescribed in the contract documents, the Contractor is free to use any methods or equipment that will accomplish the contract work in conformity with the requirements of the contract documents, as demonstrated to the satisfaction of the Engineer.

3. When the contract documents specify that the construction be performed by use of certain methods and equipment, such methods and equipment shall be used unless others are authorized by the Engineer.

4. If the Contractor desires to use a method or type of equipment other than specified in the contract documents, the Contractor may request authority from the Engineer to do so. The request shall be in writing and shall include a full description of the method and equipment proposed to be used and an explanation of the reasons for desiring to make the change. If approval is given, it will be on the condition that the Contractor shall be fully responsible for producing construction work in conformity with contract requirements.

5. If after trial use of the substituted methods or equipment, the Engineer determines the work produced does not meet the requirements of the contract documents, the Contractor shall discontinue use of the substitute method or equipment and shall complete the remaining construction with the specified methods and equipment. The Contractor shall remove the defective work and replace it with work of specified quality, or take such other corrective action as the Engineer may direct. No change will be made in basis of payment for the construction items involved, or in contract time, as a result of authorizing a change in methods or equipment under these provisions.

1.11 CONTRACTOR'S EQUIPMENT IDENTIFICATION

All vehicles and major construction equipment utilized on Jurisdiction's projects, with the exception of vehicles used for personal purposes and rented equipment bearing the name, address, and telephone number of the rental company, shall exhibit the Contractor's name in at least two locations on each piece of equipment. This identification can be either a decal or painted lettering of a type and size, and with a contrasting color, rendering it legible from a distance of no less than 50 feet.

1.12 LIQUIDATED DAMAGES

A. Time is of the essence of the contract. As delay in the diligent prosecution of the work may inconvenience the public, obstruct traffic, interfere with business, and/or increase costs to the Jurisdiction such as engineering, administration, and inspection, it is important the work be prosecuted vigorously to completion. Should the Contractor, or in case of default the surety, fail to complete the work within the contract time plus such extensions of time as may be allowed by the Jurisdiction, a deduction at the liquidated damages rate specified in the contract will be made for each and every calendar day or working day, whichever is specified, that such contract remains uncompleted after expiration of the contract time. In either event, the Contractor or the Contractor's surety shall be responsible for all costs incident to the completion of the work, and shall be required to pay to the Jurisdiction the liquidated damages stipulated in the proposal form.

B. The liquidated damages rate specified in the contract documents is hereby agreed upon as the true and actual damages due the Jurisdiction for loss to the Jurisdiction and to the public due to obstruction of traffic, interference with business, and/or increased costs to the Jurisdiction such as engineering, administration, and inspection after the expiration of the contract time, or extension thereof. Such liquidated damages may be deducted from any money due or to become due the Contractor under the contract, and the Contractor and its surety shall be liable for any liquidated damages in excess of the amount due the Contractor.

1.12 LIQUIDATED DAMAGES (Continued)

C. Allowing the Contractor to continue and finish the work, or any part of it, after the expiration of the contract time or extension thereof shall in no way operate as a waiver on the part of the Jurisdiction of any of its rights or remedies under the contract, including its right to liquidated damages pursuant to this provision.

1.13 BREACH OF CONTRACT

A. The Contractor's failure to perform in any of the following particulars shall constitute a breach of contract:

1. Failure by the Contractor to begin work at the time specified;

2. Failure by the Contractor to complete the work within the contract period or any extension thereof;

3. Failure or refusal by the Contractor to comply with an order of the Engineer within a reasonable time;

4. Contractor's persistent disregard of laws, ordinances, or instructions of the Engineer;

5. Contractor's repeated failure to provide sufficient workers, equipment, or materials to ensure the proper and timely completion of the work;

6. Failure or refusal by the Contractor to remove rejected materials;

7. Failure or refusal by the Contractor to replace, perform anew, or correct any defective or unacceptable work;

8. Contractor's discontinuance of the work without authorization by the Jurisdiction;

9. Bankruptcy or insolvency of the Contractor, or the making of an assignment for the benefit of creditors by the Contractor; or

10. Failure by the Contractor to carry on the work in an acceptable manner.

Upon Contractor's breach of the contract in any particular above, the Jurisdiction shall be entitled to give notice of default to the Contractor. The notice of default shall indicate how the contract has been breached and shall indicate what action the Contractor must take to cure such breach.

B. If the Contractor or its surety does not, within the time for cure provided in the notice of default, take action to cure such breach, the Contractor shall, at the direction of the Engineer, relinquish possession and control of the work, and the Jurisdiction shall thereupon have full power and authority, without violating the contract or bond, to take over the completion of the work, to appropriate or use any or all materials and equipment at the site that may be suitable and acceptable, to enter into agreements with others for the completion of said contract according to the terms and provisions thereof, or to use such other methods as in the Jurisdiction's opinion may be required for the completion of said contract in an acceptable manner.

1.13 BREACH OF CONTRACT (Continued)

C. The Contractor and its surety shall be liable for all outlay and expense incurred by the Jurisdiction, together with the costs of completing the work, and such costs may be deducted from any monies due or which may become due to the Contractor. In case the outlay and expense incurred by the Jurisdiction in completing the work is less than the sum that would have been payable under the contract if it had been completed by the Contractor, then the Contractor will be entitled to receive the difference. In case such outlay and expense exceeds the sum that would have been payable under the contract, then the Contractor and its surety shall be liable for and shall pay to the Jurisdiction the amount of said excess.

D. Neither the Jurisdiction, nor any officer, agent, or employee thereof, shall be in any way liable or accountable to the Contractor or the Contractor's surety for the method by which the completion of said work, or any portion thereof, may be accomplished, or for the price paid therefore. Neither by taking over the work nor by declaring the contract in default shall the Jurisdiction forfeit the right to recover damages from the Contractor or the Contractor's surety for failure to complete the entire contract.

E. The Contractor shall be liable for the Jurisdiction’s attorney fees incurred as a result of the Contractor’s breach of contract.

1.14 TERMINATION OF CONTRACTOR'S RESPONSIBILITY

The contract will be considered completed when the work has been accepted in writing by the Jurisdiction as provided in Section 1090, 1.08 - Acceptance and Final Payment hereof. Such final acceptance shall release the Contractor from all further obligation with respect thereto, except as to conditions and requirements as set forth in the bond and Jurisdiction's specifications regarding insurance.

END OF SECTION

MEASUREMENT AND PAYMENT

1.01 MEASUREMENT

The determination of quantities of work performed under the contract will be made by the Engineer, based upon the lines and grades as shown on the plans and as given during the progress of the work or as evidenced by approved tickets for weight or liquid measure or by measurements made by the Engineer. All items will be computed in the units shown in the contract.

1.02 SCOPE OF PAYMENT

A. The Contractor shall receive and accept the compensation provided in the contract at unit prices, if it be a unit price contract; or at the lump sum price, if it be a lump sum price contract, except as may be modified by change orders. The compensation provided for in the contract shall constitute full payment for furnishing all labor, equipment, tools, and materials and for performing all work contemplated and embraced under the contract; for all loss or damage arising out of the nature of the work or from the action of the elements; for all expenses incurred by, or in consequence of, the suspension or discontinuance of the said prosecution of the work or from any unforeseen difficulties or obstructions that may arise or be encountered during the prosecution of the work; and for all risks of every description connected with the prosecution of the work until the final acceptance of the work by the Jurisdiction.

B. Neither the payment of any progress payment nor of any retained percentage shall relieve the Contractor of any obligation to make good any defective work or material. Payment will be made only for materials actually incorporated in the work, except as provided in Section 1090, 1.05 - Progress Payments.

C. The contract price for any item shall be full compensation for all labor, materials, supplies, equipment, tools, and all things of whatsoever nature required for the complete incorporation of the item into the work the same as though the item were to read "in place," unless the contract documents shall provide otherwise.

1.03 LUMP SUM BREAKDOWNS

A. If the contract is based on a lump sum bid price, or contains one or more lump sum items for which progress payments are to be made, the Contractor shall prepare and submit a breakdown estimate covering each lump sum item to the Engineer for approval. The breakdown estimate shall show the estimated value of each kind or item of work. The sum of the lump sum items listed in the breakdown estimates shall equal the contract lump sum. Overhead and profit shall not be listed as separate items.

B. The breakdown estimate shall be approved by the Engineer before any progress payments are prepared. An unbalanced breakdown estimate providing for overpayment to the Contractor for items of work to be performed first will not be approved but shall be revised by the Contractor and resubmitted until acceptable to the Engineer.

1.04 PAYMENT FOR CHANGE ORDERS

A. The Contractor's claims for extra work will not be paid unless the extra work covered by such claims was authorized by a change order as specified in Section 1040, 1.07 - Change Orders.

B. Payment for extra work shall be made in one or more of the following ways as determined by the agreement between the parties to the contract prior to the starting of the work.

1.04 PAYMENT FOR CHANGE ORDERS (Continued)

1. Unit Prices: By unit prices contained in the Contractor's original proposal and incorporated in the construction contract, so far as the same may apply.

2. Supplemental Schedule: By supplemental schedule of prices to include costs of all equipment, material, labor, supervision, management, insurance, overhead, and incidentals, said schedule to be submitted by the Contractor upon request of the Engineer and to be accepted by the Jurisdiction.

3. Lump Sum: By an acceptable lump sum proposal from the Contractor.

C. The percentage markup to be allowed to the Contractor for extra work performed by a subcontractor shall be in accordance with the following:

1. 10% of the first $50,000 with a $100 minimum.

2. 5% of the portion over $50,000.

1.05 PROGRESS PAYMENTS

A. Limits: Progress payments made under the contract, unless provided otherwise by law, shall be made according to Iowa Code Chapter 573, and shall be made on the basis of monthly estimates of labor performed and material delivered and incorporated in to the work, as determined by the Engineer. Payment may be made for materials not incorporated into the project if they can be specifically identified and cost verified by invoice. Progress payment requests shall be accompanied by the documentation required in Section 1090, 1.07, B - Sales Tax and Use Tax.

B. Retainage: The Jurisdiction shall retain from each monthly progress payment 3% of the amount determined to be due according to the estimate of the Engineer.

C. Quantities: Quantities used for progress payments shall be considered as only approximate and provisional and shall be subject to recalculation, adjustment, and correction by the Engineer in subsequent partial payments and in the final payment. Inclusion of any quantities in a progress payment, or failure to disapprove the work at the time of any progress payment, shall not be construed as acceptance of the corresponding work or materials.

1.06 PAYMENT OF RETAINAGE

A. Retained funds shall be retained by the Jurisdiction for a period of 30 calendar days after the completion and final acceptance of the improvement by the Jurisdiction. If at the end of the 30 calendar day period claims are on file as provided, the Jurisdiction shall continue to retain from the unpaid funds, a sum equal to double the total amount of all claims on file. The remaining balance of the unpaid fund, or if no claims are on file, the entire unpaid fund, shall be released and paid to the Contractor.

B. The Jurisdiction, the Contractor, any claimant for labor or material who has filed a claim, or the surety on any bond given for the performance of the contract, may, at any time after the expiration of 30 calendar days, and not later than 60 calendar days, following the completion and final acceptance of said improvement, bring action in equity in the county where the improvement is located to adjudicate all rights to said fund, or to enforce liability on said bond, pursuant to Iowa Code Chapter 573. Upon written demand of the Contractor, served in the manner prescribed for original notices, on the person filing a claim, requiring the claimant to commence action in court to enforce the claim, an action shall be commenced within 30 calendar days, otherwise the retained and unpaid funds due the Contractor shall be released to the Contractor.

1.07 SALES AND USE TAX STATEMENT

A. At the completion of the contract and before final payment can be made thereon, the Contractor and all subcontractors shall file with the Engineer in triplicate, with original signatures on all three sets, a statement under oath on forms provided by the Iowa Department of Revenue and Finance showing the data with reference to sales, use, and service taxes required by Iowa Code Section 423.4, as amended. On projects with a total contract cost greater than $1 million or with supplies and materials in excess of 50% of the contract price and when directed by the Engineer, the Contractor shall submit with each progress pay estimate completed sales and use tax forms from the Iowa Department of Revenue listing all supplies and materials purchased since the previous progress payment.

B. If a Sales Tax Exemption Certificate(s) is issued by the Jurisdiction according to Section 1020, 1.08, no sales, use, or service statement is required.

1.08 ACCEPTANCE AND FINAL PAYMENT

A. Final payment will be based on the actual final total amount of the work accomplished and finally accepted by the Jurisdiction under the contract. Under no circumstances or conditions will the Contractor be paid anything for anticipated profits for the work, nor will it be paid for any work not actually included in the improvement. The Jurisdiction will not give final acceptance of the work until the Contractor has submitted all documentation required by the contract documents.

B. The Engineer shall, after determining the work has been finally and fully completed according to the contract documents, make a final estimate of the amount of work done and the value thereof.

C. Final acceptance of construction shall be defined as final approval of the project only in the sense that it has been constructed, cleaned up, and completed in apparent substantial compliance with the contract documents. Said final acceptance is stipulated to mean a written acceptance by the Jurisdiction.

D. It is mutually agreed between the parties to the contract that a certificate of completion of the project, submitted by the Engineer and approved by the Jurisdiction, shall constitute final acceptance of the work and materials included in the contract on the date of such approval, subject to the provision any such approval, acceptance, or payment as herein provided shall not constitute an acceptance of any unauthorized or defective work, or of any improper material.

END OF SECTION

These Special Provisions amend or supplement the 2026 SUDAS Standard Specifications. All provisions that are not so amended or supplemented remain in full force and effect.

A full copy of the 2026 SUDAS Specifications Manual and General Supplemental Specifications are available at the following web address: https://www.iowasudas.org/manuals/specifications-manual/. Specification Sections that apply directly to this project are listed in the Project Manual Table of Contents, referenced in the bid items by item code, estimate reference note description, or referenced on the drawings.

DIVISION 1 – GENERAL PROVISIONS AND COVENANTS

SUDAS Division 1 General Provisions and Covenants and the Project Manual's Bidding Requirements contain similar requirements. Additions made by Special Provisions or in project specific non-SUDAS documents or specifications sections shall govern over the standard language in SUDAS.

SECTION 1010 – DEFINITIONS

SP-1.03 Definitions and Terms

Add the following new paragraphs immediately after paragraph 1.03 of the General Provisions and Covenants to read as follows:

Agreement or Contract. The written instrument, executed by Owner and Contractor, that sets forth the Contract Price, and Contract Times, identifies the parties and the Engineer, and designates the specific items that are Contract Documents.

Bidding Documents. The Bidding Requirements, the proposed Contract Documents, and all Addenda.

Bidding Requirements. The Advertisement or Notice to Bidders, Instruction to Bidders, Bid Bond, or other Bid Security, if any, the Bid Form and the Bid with any attachments.

City. City of Muscatine or Owner.

Contract Documents. Those items so designated in the Agreement or Contract, and which together comprise the Contract.

Engineer. During design and bidding, the Engineer is the Owner's Engineering Consultant (Stanley Consultants) or Design Engineer responsible for the design. During construction, Engineer is the City Engineer responsible for administering the contract. Refer to Contract for definition of roles.

Instruction to Contractor (ITC) – Field Order. A written order issued by Engineer which requires minor changes in the work.

Issuing Office. The office from which the Bidding Documents are to be issued and where the bidding procedures are to be administered.

Jurisdictional Engineer, Jurisdiction, Jurisdictional Authority. Used in the SUDAS Standard Specifications shall mean the City of Muscatine.

Muscatine Power and Water (MPW). MPW is the owner of the City water and electrical systems. Legal name is Board of Water, Electric, and Communications Trustees of the City of Muscatine, Iowa.

Owner. City of Muscatine.

Request for Information (RFI). Contractor request for information to answer questions regarding conflicts or intent of the Contract Documents.

Technical Data. Those items expressly identified in Special Provisions with respect to subsurface or hazardous conditions at the site.

State Revolving Fund (SRF). Administered jointly thru the Iowa Department of Natural Resources (DNR) and the Iowa Finance Authority (IFA) SRF is a loan program for publicly owned water and wastewater utilities to finance infrastructure projects.

Substantial Completion. The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of Engineer, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms “substantially complete” and “substantially completed” as applied to all or part of the Work refer to Substantial Completion thereof.

The following must be completed to achieve substantial completion unless otherwise noted:

A. All utilities, sanitary sewer, storm sewer, manholes, inlets, inlet piping, sewer services, water main, water services, any relocated or repaired utilities are operational.

B. Street pavement and curb and gutter is installed and streets are open for public use.

C. Sidewalks are installed and available for public use.

D. Driveways are installed and ready for residential use.

SECTION 01020 – PROPOSAL REQUIREMENTS AND CONDITIONS

Add the following under Section 01020 Proposal Requirements and Conditions

SUDAS Section 01020 Proposal Requirements and 00 21 13 Instructions to Bidders contain similar requirements. Requirements listed in the project specific Instruction to Bidders govern over standard SUDAS Specifications requirements.

SP-1.04 Examination of the Contract Documents and Site of Work

Add the following new paragraph(s) immediately after paragraph 1.04.E:

F. No reports of explorations and tests of subsurface conditions at or adjacent to the Site are known to the owner.

G. No reports or drawings related to Hazardous Environmental Conditions at the Site are known to the Owner.

H. Included as part of the contract is a set of water main improvement drawings produced by MPW and the City.

SP-1.09 Preparation of the Proposal

Amend the paragraph under 1.09B with the following sentence. Bids shall be submitted using the City of Muscatine’s IonWave bidding website utilizing the unit price schedule interface on the site.

SP-1.14 Opening of Proposals

Amend the paragraph under 1.14 noting that no physical bid opening will be held. All bids will be evaluated by the City’s electronic bid submission system.

SP-1.15 Limitation on Withdrawl of Proposals After Opening of Proposal

Add the following new article immediately after article 1.15:

1.16 COMPLIANCE WITH STATE REVOLVING FUND REQUIREMENTS.

A. Bidders must review the SRF Required Front End Specification document included in the project manual and submit the required materials outlined in Attachments 1 thru 10.

B. See Document 00 21 13 Instructions to Bidders for a brief outline of bidding requirements.

SECTION 1030 – APPROVAL FOR AWARD AND AWARD OF CONTRACT

SP-1.03 Award of Contract

Add the following new paragraph(s) immediately after paragraph 1.03.D:

E. After Notice of Award, Contractor may obtain if requested, at no charge, up to 3 printed or hard copies of the Drawings and Project Manual and one set in electronic format. Additional copies will be furnished upon request at the cost of reproduction plus handling charge.

SECTION 1040 – SCOPE OF WORK

SC-1.06 Increase or Decrease of Work

Add the following sentence immediately after paragraph 1.06.B:

B. Quantity changes amounting to more than a 20% change to the total bid for an item and materially change the character of the work, shall be subject to unit price reevaluation to increase or decrease the unit price.

SC-1.07 Change Orders

Add the following new paragraph(s) immediately after paragraph 1.07.B:

C. Change Procedures

1. Submittals: Submit name of individual authorized to receive change documents, and be responsible for informing others in Contractor's employ or Subcontractors of changes to Work.

2. Engineer will advise of minor changes in Work not involving an adjustment to Contract Price or Contract Time by issuing supplemental instructions on Engineer’s Instruction to Contractor (ITC) Form.

3. Engineer may issue a proposal request notice of change which includes detailed description of proposed change with supplementary or revised Drawings and Specifications, change in Contract Time for executing change with a stipulation of any overtime work required and period of time during which requested price will be considered valid. Contractor will prepare and submit an estimate within 10 days.

4. Contractor may propose changes by submitting a request for change to Engineer, describing proposed change and its full effect on Work. Include a statement describing reason for change, and effect on Contract Price and Contract Time with full documentation and a statement describing effect on Work by separate or other contractors. Document any requested substitutions in accordance with Substitution Request procedures.

5. Change orders will be prepared according to SUDAS Section 1040, 1.07.

D. During the performance of the Work, Contractor and Owner shall submit to the Design Engineer all matters in question concerning the requirements of the Contract Documents. These requests are called Request For Information (RFI). Design Engineer with reasonable promptness will issue a written clarification on the issue submitted. Engineer’s written clarification, interpretation, or decision will be final unless Contractor appeals it be submitting a Change Proposal.

E. Contractor shall submit a change proposal request or change order request to Engineer to request an adjustment in Contract Times or Contract Price. Request shall include an explanation of the reason of the request with supporting data.

SP-1.13 Errors or Omissions

Add the following new article immediately after article 1.13:

1.14 CONSTRUCTION CONSTRAINTS:

A. Work shall be constructed within contract times defined in Agreement.

B. Use temporary sewage bypass pumping and temporary gravity connections as needed to construct sewer. Costs for temporary pumping and temporary gravity connections shall be incidental to pipe installation and will not be paid for separately unless otherwise specifically identified in the contract.

C. No new construction areas shall be initiated in October and no road surfaces shall be left unpaved through winter unless authorized in advance in writing by City and/or Design Engineer.

D. Maximum length of construction area that is allowed with no permanent pavement is defined in the construction staging drawings.

E. At no time during construction shall work two blocks (more than 800') and two intersections be closed to traffic at any one time. Limit shall include backfill up to grade. Any exceptions to this must be approved by the City.

F. Install temporary driving surface at intersections preceding and following active trench construction to maintain cross traffic every 2 blocks. Costs for temporary gravel surfacing for intersections are paid for as a separate bid item.

G. See J sheets for phasing constraints and staging plans.

SECTION 1050 – CONTROL OF WORK

SP-1.05 Shop Drawings, Certificates, and Equipment Lists

Add the following new subparagraph immediately after paragraph 1.05 A. 2.:

3. See project manual Section 01 33 00 Submittal Procedures for contract requirements for shop drawings submittal procedures.

SP-1.08 Removal of Defective Work and Materials

Add the following new paragraph(s) immediately after paragraph 1.08.C:

D. If, instead of requiring correction or removal and replacement of defective Work, Owner prefers to accept it, Owner may do so (subject, if such acceptance occurs prior to final payment, to Engineer's confirmation that such acceptance is in general accord with the design intent and applicable engineering principles, and will not endanger public safety). Contractor shall pay all claims, costs, losses, and damages attributable to Owner's evaluation of and determination to accept such defective Work (such costs to be approved by Engineer as to reasonableness), and for the diminished value of the Work to the extent not otherwise paid by Contractor. If any such acceptance occurs prior to final payment, the necessary revisions in the Contract Documents with respect to the Work shall be incorporated in a Change Order. If the parties are unable to agree as to the decrease in the Contract Price, reflecting the diminished value of Work so accepted, then Owner may impose a reasonable set-off against payments. If the acceptance of defective Work occurs after final payment, Contractor shall pay an appropriate amount to Owner.

E. If Contractor fails within a reasonable time after written notice from Engineer to correct defective Work, or to remove and replace rejected Work as required by Engineer, or if Contractor fails to perform the Work in accordance with the Contract Documents, or if Contractor fails to comply with any other provision of the Contract Documents, then Owner may, after seven days written notice to Contractor, correct or remedy any such deficiency.

F. All claims, costs, losses, and damages incurred or sustained by Owner in exercising the rights and remedies under this Paragraph 1.08 will be charged against Contractor as set-

offs against payments due. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of Contractor's defective Work.

SP-1.10 Line and Grade Stakes

Delete subparagraph 1.10.A., B., and C. in its entirety and insert the following new paragraph in its place:

A. The Contractor will employ a Land Surveyor to perform construction staking and record drawing production. Contractor shall coordinate day to day construction needs directly with Land Surveyor. Refer to SUDAS Section 11,010 and Special Provisions 1.16 Field Engineering under Section 1050 for requirements.

B. The work shall be performed in strict conformity with the contract documents. Contractor's licensed land surveyor is responsible for staking the points, lines, and grades as shown in the contract documents. Contractor is responsible for proper use, interpretation, and preservation of field staking.

C. Contractor is responsible for protecting and preserving all stakes, points, or marks set for the work by Contractor's hired land surveyor and those established by the Design Engineer's land surveyor. If stakes, points, or marks have been altered or destroyed, Contractor is responsible for correcting and replacing the stakes at their costs.

SP-1.15 Additional Contractor Responsibilities

Add the following new article immediately after article 1.15:

1.16 FIELD ENGINEERING

A. The Contractor will employ a Land Surveyor licensed in the State of Iowa for this project. The Land Surveyor will perform construction staking and record drawing production based on field measurements and Contractor and Owner records. The Contractor shall coordinate day to day construction needs directly with the Land Surveyor.

B. Contractor shall be responsible for the cost of construction staking beyond the initial staking.

C. Contractor shall locate and protect survey control and reference points. Promptly notify Engineer of any discrepancies discovered.

D. Control datum for survey is that shown on Drawings.

E. Verify set-backs and easements; confirm drawing dimensions and elevations.

F. Provide field services to establish elevations, lines, and levels, utilizing proven and recognized engineering survey practices.

G. For use in record drawing production, verify and certify that the elevations and locations of the Work are in conformance with the Contract Documents.

H. Maintain a complete and accurate log of control and survey work as it progresses.

I. Protect survey control points prior to starting site work; preserve permanent reference points during construction.

J. Promptly report to Engineer the loss or destruction of any reference point or relocation required because of changes in grades or other reasons.

K. Replace dislocated survey control points and property pins caused by construction activities. Replace based on original survey control. Make no changes without prior written notice to Engineer.

SECTION 1060 – CONTROL OF MATERIALS

SP-1.02 Alternate Processes, Equipment, or Materials

Add the following new paragraph(s) immediately after paragraph 1.02.B.2:

3. For period of 30 days after effective date of Contract, Engineer will consider formal requests from Contractor for substitution of products in place of those specified. After end of that period, requests will be considered only in case of product unavailability or other conditions beyond control of Contractor.

4. Substitutions will not be considered for acceptance when:

   a. They are indicated or implied on Shop Drawings.

   b. They are requested directly by Subcontractor or supplier.

   c. Acceptance will require substantial revision of Contract Documents.

5. Substitute products, “Or Equal” items, shall not be ordered or installed without written notification from Owner’s Engineering Consultant and Owner's acceptance. Engineer will advise Contractor in writing of any negative determination.

SP-1.03 Samples and Testing

Change the first sentence of paragraph C. to read:

C. All sampling and testing shall be performed by an independent testing laboratory at Contractor’s cost. Laboratory shall be approved by Engineer.

SP-1.04 Storage of Materials

Add the following new subparagraph immediately after the paragraph in:

Storage of construction materials shall only be on streets and areas that are intended to be reconstructed for this Project. Coordinate use of premises under direction of Owner. Contractor shall confine construction equipment, storage of materials and equipment and operations of workers to areas permitted by law, ordinances, permits, or requirements of Contract Documents, and shall not unreasonably encumber premises with construction equipment or other material or equipment.

SECTION 1070 – LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC

SP-1.01 Municipal Regulations, State, and Federal Laws and Regulations

Add the following new subparagraph immediately after subparagraph 1.01 C. 7.

7. Selected Contractor must comply with all the contract requirements outlined in the document SRF Required Front End Specifications within Attachments 1 thru 10. Contractor will be required to provide documentation as listed in the Attachments 1 thru 10. Failure to provide documentation or compiling to contract SRF requirements may delay payment or result in termination of the contract.

SP-2.13 Borrow and Waste Sites

Delete the last sentence under paragraph 2.13 B.

SP-3.01 Performance, Payment, and Maintenance Bond

Add the following new subparagraph(s) immediately after subparagraph 3.01.C.:

1. Contractor shall furnish a maintenance bond, subject to the Owner's approval, guaranteeing to keep all work constructed under this contract in good repair for a period of two (2) years from date of final acceptance. Good repair shall be construed to mean free from any functional or structural deterioration, except that caused from ordinarily reasonable use and acts of God, which appreciably reduces the effectiveness of the

improvement for the purpose intended or any serious departure from the standards or original construction.

2. If, in the opinion of the Owner, such deterioration takes place, they shall so notify the Contractor by registered letter to the address given in the Contractor's proposal and send a copy of such notice to the bonding company, which notice is mutually agreed to be sufficient and adequate. If the Contractor shall not proceed to remedy such defects as are called to his attention in the notice within ten (10) days, the City shall cause the repairs to be made as it deems best, and the entire cost thereof shall be paid by the Contractor or his sureties.

SP-3.02 Insurance Requirements

Supplement or replace insurance requirements as follows.

The Contractor shall purchase and maintain throughout the construction period, insurance in the following minimum requirements, and the coverage must be written in a company that has a Best's rating of B+ or better: Reference SUDAS Section 3.02 A, B, and C.

1. Worker's compensation insurance including Employer's Liability and Occupation disease covering all Iowa employees for statutory Iowa benefits who perform any of the obligations assumed by the Contractor under the contract. The policy will contain broad form all states endorsement. Reference SUDAS Section 3.02 1. for limits.

Delete subparagraph 3.02.C.2. in its entirety and insert the following in its place:

2. Comprehensive General Liability, including independent contractors, completed operations and products, contractual liability, broad form property damage, personal injury, and X, C, and U coverage; coverages must meet the following limits. Deductibles on bodily injury are not acceptable:

Coverage	Minimum Limits
Bodily Injury or Death	$1,000,000 each occurrence $5,000,000 aggregate
Property Damage	$1,000,000 each occurrence
Combined Single Limit	$1,000,000 each occurrence
Umbrella Liability Coverage	$5,000,000

Delete subparagraph 3.02.C.3. in its entirety and insert the following in its place:

3. Comprehensive General Automobile liability insurance on all self-propelled vehicles not covered under general liability and used in connection with the Contract, whether owner, non-owner, or hired:

Coverage	Minimum Limits
Bodily Injury or Death	$1,000,000 each occurrence
Property Damage	$1,000,000 each occurrence
Option - Combined Single Limit	$1,000,000 each occurrence

Add the following new subparagraph(s) immediately after paragraph 3.02.C.7:

8. Owner shall have the right at any time to require public liability insurance and property damage liability insurance greater than those required in the above paragraphs. In any such event, the additional premium or premiums payable solely as the result of such additional insurance shall be added to the bid price.

9. Any reductions in limits or coverages or exceptions to the insurance requirements can be made if requested in writing and mutually agreed to.

10. Contractor shall furnish to the Owner and additional insureds, Certificates of Insurance evidencing compliance with the foregoing requirements before commencing any operations under this contract. Certificates shall contain a provision that the coverage afforded under

the policies will not be canceled or materially changed until at least thirty (30) days prior written notice has been given to the Owner.

11. Additional Insureds: Stanley Consultants, Inc.; City of Muscatine; shall be specifically named on policy as additional insureds by endorsement, including completed operations.

SECTION 1080 – PROSECUTION AND PROGRESS

SP-1.03 Work Progress and Schedule

Add the following new paragraph(s) immediately after paragraph 1.03.C:

D. CONSTRUCTION PROGRESS DOCUMENTATION

1. Construction progress schedules:
   a. Submit preliminary Schedule to City within 15 days after date of Owner-Contractor Agreement for coordination with Owner's requirements. After review, submit detailed schedules within 15 days.
      1) Submit revised Progress Schedules with each staging change or significant update to schedule.
      2) Distribute copies of reviewed schedules to Project site file, subcontractors, suppliers, and other concerned parties.
      3) Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules.

2. Form of schedules:
   a. Prepare schedules in form of horizontal bar chart.
      1) Provide separate horizontal bar for each trade or operation.
      2) Horizontal time scale: Identify first work day of each week.
      3) Scale and spacing: To allow space for notations and future revisions.
   b. Format of listings: Chronological order of start of each item of Work.
   c. Identification of listings: By major Specification Section numbers.

3. Construction progress schedule shall show:
   a. Complete sequence of construction by activity.
   b. Dates for beginning, and completion of, each major element of construction specifically listing:
   c. percentage of completion for each item, as of first day of each month.

4. Submittal schedule shall show dates for Contractor's submittals.

5. Prepare and submit sub-schedules for each separate stage of Work as shown on J sheets.

6. Provide sub-schedules to define critical portions of prime schedules.

7. Progress revisions:
   a. Indicate progress of each activity to date of submission.
   b. Show changes occurring since previous submission of schedule:
      1) Major changes in scope.
      2) Activities modified since previous submission.
      3) Revised projections of progress and completion.
      4) Other identifiable changes.
   c. Provide narrative report as needed to define:
      1) Problem areas, anticipated delays, and impact on schedule.
      2) Corrective action recommended, and its effect.
      3) Effect of changes on schedules of other prime contractors.

8. Distribution copies of reviewed schedules to:
   a. Job site file.
   b. Subcontractors.
   c. Other concerned parties.

9. Instruct recipients to report promptly to Contractor, in writing, any problems anticipated by projects shown in schedules.

SP-1.14 Termination of Contractor's Responsibility

Add the following new paragraph at the end of article 1.14:

1.14 TERMINATION OF PUBLIC IMPROVEMENTS CONTRACT

Provisions contained in Chapter 573A Code of Iowa providing for the termination of contracts in construction of public improvements when construction is stopped because of national emergency shall apply to and be a part of this contract and binding on all parties including subcontractors and sureties upon any bond given or filed in connection therewith

SECTION 3010 – TRENCH EXCAVATION AND BACKFILL

SP-1.07 Special Requirements

Delete article 1.07 in its entirety and insert the following new paragraphs in its place.

A. Schedule Work to keep streets, sidewalks, and utilities in usable condition; avoid property owner inconvenience.

B. Do not trespass on private property. Maintain construction operations on existing right-of-way or easements provided for the project.

C. Maintain suitable means of access for property owners abutting streets and highways involved in construction, except as specifically permitted otherwise by Owner.

D. Suitable access shall mean a roadway of sufficient width, free from ruts, potholes, and mud holes, and capable of carrying a passenger car without damage to car in all weather conditions.

E. When access must be denied due to construction, provide suitable access within 24 hours after responsible construction is completed.

F. Whenever construction is stopped due to inclement weather, weekends, holidays, or other reasons, suitable access shall be provided for property owners.

G. Rock trench excavation is not anticipated.

H. Section 3010 1.08 A. 6. indicates all dewatering activities are incidental.

SP-3.01 Trench Excavation

Add the following new subparagraph immediately after subparagraph 3.01.D.4:

5. Place unsuitable trench excavated material directly on trucks and haul away. No spoil banks permitted. Contractor to dispose of unsuitable job-excavated material at site determined by the contractor.

Add the following new paragraph immediately after paragraph 3.01.D:

E. Obtain from utility company's locations of buried utilities shown on Drawings. Pothole as needed to confirm location and elevation.

F. Some utility house services may be shown on drawings, but no attempt has been made to locate and show all services. Obtain locations of house services from utility companies.

G. Make arrangements with utility companies to temporarily support, brace or remove utility poles either adjacent to or in trench excavation at no additional cost to Owner.

H. MPW utility poles that require removal and relocation due to construction shall be coordinated with Muscatine Power and Water (MPW). MPW relocation costs will be billed directly to the Owner for previously approved locations.

I. Utility mains shown on Drawings, in conflict with new facilities: Perform relocation or make arrangements with utility to perform Work at no additional cost to Owner.

J. Utility mains not shown on Drawings, in conflict with trench excavation or new facilities notify Engineer immediately to discuss utility conflict solutions. Relocation shall be authorized by Engineer.

SP-3.03 Trench Protection

Add the following new paragraph immediately after paragraph 3.03.B:

C. Slope walls of trench or provide trench shoring as required to comply with OSHA and safety requirements; maintain walls of excavation vertical below top of pipe.

SP-3.06 Trench Compaction Testing

Add the following new article(s) immediately after article 3.06:

3.07 REPAIR AND RESTORATION

A. Repair, at no additional cost to Owner, existing fences, culverts, and drain tile disturbed by construction.

B. Remove, salvage, store and re-install mailboxes, parking meters, impacted by construction, at no additional cost to owner.

C. All existing permanent street signage shall be delivered to Public Works facility immediately upon removal.

D. Maintain proper restored surface grades and elevations throughout 2-year maintenance warranty period following final closeout. If settlement of surface grading or differential settlement of pavement and manhole boxouts occur that causes surface to be at elevations other than design indicates, repair and restore immediately.

E. Contractor fully responsible for liaison with utility companies and for repairing, at no expense to Owner, utilities damaged by Contractor. In event of break in existing water main, gas main, sewer, or electric or communication cable, immediately notify responsible official of organization operating utility affected.

F. Restore obstructions removed to accommodate equipment or to facilitate excavation.

3.08 CLEANUP

A. Remove waste material promptly as it is generated by construction operations; do not permit to accumulate. Cleanup each portion of construction as it is completed.

B. Cleanup operations in public right-of-way shall be kept within 400' (120 m) of construction operations.

C. Cleanup and remove rubbish, debris, and surplus material.

D. Grade disposal areas periodically to reasonably neat surface to provide for drainage and access by others.

E. Leave Site in neat condition.

F. Reopen to traffic as soon as practicable. See J sheets and Sections 01 50 00 and 00 75 00 for traffic constraints.

3.09 MANAGEMENT OF CONTAMINATED SOILS AND GROUNDWATER

A. No specific areas of potential contamination have been identified on Drawings. Process identified below is to be used in event contamination is discovered during construction process.

B. Comply with local, state, and federal standards for worker protection and equipment decontamination. Submit a Site Health and Safety Plan to Owner detailing any protective measures and decontamination practices that will be utilized for dealing with contamination.

C. Excavation within area of potential contamination shall be continuously monitored by qualified personnel using a photoionization detector (PID) for screening purposes.

D. If no contamination is encountered, excavated material may be disposed in same manner as other excavated material.

E. Soil exceeding 10 ppm organic vapors, or where a petroleum odor is present, will be considered potentially contaminated and shall be hauled to a stockpile site at Muscatine Solid Waste Transfer Station on Houser Street. Stockpile shall be designed as follows:

1. Flat cleared area.

2. Place 20 mil thick polyethylene sheeting beneath all stockpiled soil. Sheeting shall be seamless throughout.

3. Stockpile shall be kept covered with more sheeting when not in use. Anchor sheeting cover to keep it in place.

4. Place low earthen berm beneath bottom sheeting on all sides of stockpile to prevent liquid runoff from entering or exiting stockpile.

F. Test soils in stockpile after work has been completed in contaminated area by compositing 10, approximately 1 oz samples into 1 sample to be used for laboratory analysis.

1. Test sample for total extractable hydrocarbons (THE) by Iowa Method OA-2, polynuclear aromatic hydrocarbons (PAHs) by Method 8270 and toxic characteristic leaching procedure (TCLP) Resource Conservation and Recovery Act (RCRA) metals by SW846 Methods 1311 and 6010/7471.

2. Analyze sample for benzene, toluene, ethylbenzene, and xylenes (BTEX) by Iowa Method OA-1.

3. If laboratory testing finds no contamination, or contamination levels below statewide soil standards, haul stockpiled soils to normal disposal area.

4. If laboratory testing identifies contamination above statewide standards, contact Muscatine County Landfill with results from testing specified above and paint filter methods. If landfill is willing to accept this material, haul stockpiled soils to landfill. If landfill declines to accept stockpiled soils, contact Owner’s Representative.

G. Discharge groundwater encountered in excavation to storm sewer unless water has a noticeable petroleum odor or a petroleum surface “sheen.” If an odor or sheen is present, discharge to sanitary sewer.

H. Discharge groundwater encountered in excavation to storm sewer unless water has a noticeable petroleum odor or a petroleum surface “sheen.” If an odor or sheen is present, discharge to sanitary sewer.

SECTION 4010 – SANITARY SEWERS

SP-1.03 Submittals

Delete paragraph in its entirety and insert the following in its place:

A. Submit data and certificates from manufacture showing evidence that products comply with standards listed for pipe, pipe joints, gaskets, frames, lids, gratings and appurtenances.

B. Provide evidence that components, materials, and treatment chemicals that come into contact with potable water shall be certified for conformance to ANSI/NSF Standard 60 or 61, as applicable.

SECTION 4020 – STORM SEWERS

SP-1.03 Submittals

Delete paragraph in its entirety and insert the following in its place:

A. Submit data and certificates from manufacture showing evidence that products comply with standards listed for pipe, pipe joints, gaskets, frames, lids, gratings and appurtenances.

B. Provide evidence that components, materials, and treatment chemicals that come into contact with potable water shall be certified for conformance to ANSI/NSF Standard 60 or 61, as applicable.

SECTION 4060 – CLEANING, INSPECTION, AND TESTING OF SEWERS

SP-1.03 Submittals

Delete paragraph in its entirety and insert the following:

A. Provide test reports to Engineer.

SP-3.03 Sanitary Sewer Leakage Testing

Add the following sentence to the end of the paragraph

IDNR indicates replacement of existing sewers which have service connections immediately connected are exempted from leakage testing requirements.

SECTION 5010 – PIPE AND FITTINGS

SP-1.07 Special Requirements

Delete paragraph in its entirety and insert the following:

A. Notify local utility, Muscatine Power and Water (MPW), prior to relocating any water mains. Relocations shall only be performed in presence of local utility inspector.

B. Local utility will perform main shutdown and notify Contractor when complete. Provide material and perform relocation under supervision of local utility inspector. Provide temporary service or make other arrangements with affected property owners for scheduled shutdown of utilities for period of longer than 4 hours.

SECTION 6030 – CLEANING, INSPECTION, AND TESTING OF STRUCTURES

SP-1.03 Submittal

Delete paragraph in its entirety and insert the following:

A. Provide test reports to Engineer.

SP-3.04 Sanitary Sewer Manhole Testing

Add the following new paragraph(s) immediately after subparagraph 3.04.A.2:

3. IDNR indicates replacement of existing sewers (and manholes) which have service connections immediately connected are exempted from leakage testing requirements.

SECTION 11,020 – MOBILIZATION

SP-3.01 Existing Conditions Video Record

Add the following new paragraph(s).:

3.01 EXISTING CONDITIONS VIDEO RECORD

A. Prior to construction, perform video recording along route of new sanitary and storm sewers. Recording shall document significant features that may be affected by construction activity. Video shall include but is not limited to adjacent building foundations, adjacent sidewalk conditions, locations of parking spots and meters, condition of existing driveways and retaining walls, and condition of existing pavement at the tie in point and 50’ back from tie in points.

B. Provide labor, equipment, and materials for televising and complete video documentation of route of sewers.

C. Viewing shall be in upstream direction along sewer routes. Recording shall be consecutive and continuous along sewer route.

D. Personnel and equipment:

1. Furnish equipment, supplies, and materials necessary to complete Work as specified.

2. Equipment not giving proper results shall be replaced.

E. Video camera and other components shall provide clean, clear, and sharp color picture.

F. Video recording:

1. Provide complete color video recording of areas along route of new sewers. Video recording shall be provided to the City on a flash drive or on a secure file transfer site. Video may need to be divided into multiple smaller files rather than one large file for ease of file transfers.

2. Produce video recordings of sufficient quality to allow proper in-house viewing with minimum of distortion; no image tearing.

3. Provide voice narration on video recording to document following information:
   a. Name of city, street, and date upon which video inspection was made.
   b. Description of special features, i.e. cracked pavements, special landscaping, etc.
   c. Stop camera at special features for minimum of 10 seconds to allow for photographic documentation.
   d. Deliver video recording to City for permanent records.

e. Label each recording to identify sewer and limits of coverage.

G. Recording procedure:

1. Camera shall be moved at uniform rate consistent with amount of detail being recorded.

2. Take necessary steps and adopt procedures to ensure optimum viewing conditions.

ADD THE FOLLOWING SPECIFICATIONS TO THE PROJECT IN ADDITION TO THE SUDAS SPECIFICATIONS:

- SECTION 01 22 00 – UNIT PRICES
- SECTION 01 33 00 – SUBMITTAL PROCEDURES
- SECTION 01 50 00 – TEMPORARY FACILITIES AND CONTROLS
- SECTION 01 57 14 – SWPPP – OWNER CERTIFICATION
- SECTION 01 57 15 – SWPPP – CONTRACTOR AND SUBCONTRACTOR CERTIFICATION
- SECTION 01 57 16 – SWPPP – TRAINING LOG
- SECTION 01 57 17 – SWPPP – STORMWATER CONSTRUCTION SITE INSPECTION REPORT
- SECTION 01 57 18 – SWPPP – SWPPP AMENDMENT LOG
- SECTION 01 77 00 – CLOSEOUT PROCEDURES
- SECTION 33 01 30-71 – REHABILITATION OF SEWERS WITH POLYURETHANE LINER

SRF Required Front-End Specifications

Attachment 1: -RESERVED-

Attachment 2: Statement in Advertisement for Bids on Debarment and Suspension/Certification Regarding Debarment and Suspension Form *(to be completed and signed by Prime Contractor and submitted with the bid)*

Attachment 3: Disadvantaged Business Enterprise Certification Form (to be completed and signed by Prime Contractor and submitted with the bid)

Attachment 4: DBE Program Subcontractor Performance Form (to be completed and signed by Prime and DBE Subcontractor for each subcontract and submitted with the bid)

***If no DBE was chosen by the Prime Contractor to be utilized for this project, then this form is** not required **to be submitted.**

Attachment 5: DBE Program Subcontractor Utilization Form *(to be completed and signed by Prime and DBE Subcontractor for each subcontract and submitted with the bid)*

***If no DBE was chosen by the Prime Contractor to be utilized for this project, then this form is** not required **to be submitted.**

Attachment 6: -RESERVED-

Attachment 7: Other Federal Requirements Language

A. -RESERVED-
B. Federal Labor Standards Provisions (including Davis-Bacon prevailing wage rates**)
C. -RESERVED
D. Historical and Archeological Finds
E. Prohibitions on Procurement from Violating Facilities

Attachment 8: Right of Entry and Records Retention

Attachment 9: American Iron & Steel Requirement

Attachment 10: Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment *(to be completed and signed by Prime Contractor and submitted with the bid)*

-Attachment 1: RESERVED-

Attachment 2: SRF Required Front-End Specifications
Debarments and Suspensions

*This form to be completed by the Prime Contractor and submitted with the bid.

Any bidder or equipment supplier whose firm or affiliate is listed in on the U.S. General Services Administration Excluded Parties List will be prohibited from the bidding process. The excluded parties records search engine is located at the System for Award Management (SAM) website: https://sam.gov. Pursuant to 2 CFR Part 180, as supplemented by 2 CFR 1532, any entity submitting a bid while the SAM website lists that entity as having an active exclusion will be determined by the DNR to be a non-responsive bidder and will not be able to receive SRF funding.

United States Environmental Protection Agency Washington, DC 20460

Certification Regarding Debarment, Suspension, and Other Responsibility Matters

The prospective participant certifies to the best of its knowledge and belief that it and the principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

(b) Have not within a three year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction: violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(c) Are not presently indicted or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1) (b) of this certification; and

(d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

I understand that a false statement on this certification may be grounds for rejection of this proposal or termination of the award. In addition, under 18 U SC Sec. 10 01, a false statement may result in a fine or imprisonment, or both.

Signature of Authorized Representative	Date
Printed Name	Title

☐ I am unable to certify to the above statements. My explanation is attached.

Attachment 3: SRF Required Front-End Specifications
Disadvantaged Business Enterprise (DBE) Solicitation

*This form to be completed by Prime Contractor and submitted with the bid.

In Iowa, DBEs must be certified through the Iowa Department of Transportation (IDOT). Information on certification requirements and a list of certified DBEs is on the IDOT website at https://secure.iowadot.gov/DBE/Home/Index/.

Prime contractors' DBE requirements for SRF projects include:

- Taking affirmative steps for DBE participation
- Documenting the efforts and the proposed utilization of certified DBEs

PROJECT INFORMATION

SRF Applicant: _____ Bidder: _____

Address: _____

City: _____ State: _____ Zip: _____

Contact Person: _____

Phone Number: _____ Email: _____

1. At this point in time, has the prime contractor begun to solicit work opportunities to subcontractors for this project?
   ☐ Yes ☐ No ☐ N/A

2. Do you agree to use the good faith efforts checklist to ensure the DBEs have the opportunity to compete for procurements funded by EPA financial assistance funds?
   ☐ Yes ☐ No

3. If yes, was a DBE chosen by the prime contractor to be utilized for this project?
   ☐ Yes ☐ No

Signature: _____

GOOD FAITH EFFORTS CHECKLIST

Please complete the checklist to determine if you have complied with the requirement to make good faith efforts to ensure that certified DBEs have the opportunity to compete for procurements funded by EPA financial assistance funds. Bidders/offerers must make good faith efforts prior to submission of bids/proposals.

1. Did you ensure that DBEs are made aware of contracting opportunities to the fullest extent practicable through outreach and recruitment activities?
   ☐ Yes ☐ No

2. Did you make information on forthcoming opportunities available to DBEs and arrange time frames for contracts and establish delivery schedules, where the requirements permit, in a way that encourages and facilitates participation by DBEs in the competitive process? This includes, whenever possible, posting solicitation for bids or proposals for a minimum of 30 calendar days before the bid or proposal closing date.
   ☐ Yes ☐ No

3. Did you consider in the contracting process whether firms competing for large contracts could subcontract with DBEs? This will include dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by DBEs in the competitive process.
   ☐ Yes ☐ No

4. Did you encourage contracting with a consortium of DBEs when a contract is too large for one of these firms to handle individually?
   ☐ Yes ☐ No

5. Did you use the services of the Small Business Administration and the Minority Business Development Agency of the Department of Commerce to identify potential subcontractors?
   ☐ Yes ☐ No

6. List the potential DBE subcontractors that were contacted. Only list those that are certified through the Iowa Department of Transportation.

Name	**How Contacted** (e.g. letter, phone call, fax, e-mail)	**Response** (e.g. did not respond, not interested, not competitive)

CONTRACT ADMINISTRATION PROVISIONS

Several contract provisions are required to prevent unfair practices that adversely affect DBEs. These include:

1. Prime Contractor must pay its Subcontractor for satisfactory performance no more than 30 days from the Prime Contractor's receipt of payment from the SRF loan recipient.
2. Prime Contractor must notify the SRF loan recipient in writing prior to termination of a DBE subcontractor for convenience.
3. Prime Contractor must employ the six Good Faith Efforts to solicit a replacement subcontractor if a DBE subcontractor fails to complete work under a subcontract for any reason.

Attachment 4: SRF Required Front-End Specifications
Disadvantaged Business Enterprise (DBE) Subcontractor Performance Form

*This form to be completed by Prime and DBE Subcontractor for each subcontract and submitted with the bid.
*If a DBE has NOT yet been selected by the Prime Contractor or if no DBEs are needed, then this form is not required to be submitted at this time.

This form is intended to capture the DBE[1] subcontractor's[2] description of work to be performed and the price of the work submitted to the prime contractor. An EPA Financial Assistance Agreement recipient must require its prime contractor to have its DBE subcontractors complete this form and include all completed forms in the prime contractor's bid or proposal package.

Subcontractor Name: _____

Project Name: _____

Bid/Proposal No.: _____ Assistance Agreement ID No. (if known): _____

Point of Contact: _____

Address: _____

Telephone No.: _____ Email: _____

Prime Contractor Name: _____

Issuing/Funding Entity: _____

Contract Item Number	Description of Work Submitted to the Prime Contractor Involving Construction, Services, Equipment or Supplies	Price of Work Submitted to the Prime Contractor

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above.

Prime Contractor Signature _____ Print Name _____

Title _____ Date _____

Subcontractor Signature	Print Name
Title	Date

[1]A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certification as described in 40 CFR 33.204-33.205. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

[2]Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an EPA award of financial assistance.

Attachment 5: SRF Required Front-End Specifications
Disadvantaged Business Enterprise (DBE) Subcontractor Utilization Form

*This form to be completed by Prime and DBE Subcontractor for each subcontract and submitted with the bid.
*If a DBE has NOT yet been selected by the Prime Contractor or if no DBEs are needed, then this form is not required to be submitted at this time.

This form is intended to capture the prime contractor's actual and/or intended use of identified certified DBE[1] subcontractors[2] and the estimated dollar amount of each subcontract. An EPA Financial Assistance Agreement Recipient must require its prime contractors to complete this form and include it in the bid or proposal package. Prime contractors should also maintain a copy of this form on file.

Prime Contractor Name: _____

Project Name: _____

Bid/Proposal No.: _____ Assistance Agreement ID No. (if known): _____

Point of Contact: _____

Address: _____

Telephone No.: _____ Email: _____

Issuing/Funding Entity: _____

I have identified potential DBE certified subcontractors ☐ Yes ☐ No

If yes, complete the table below. If no, explain: _____

Subcontractor Name/ Company Name	Company Address/Phone/Email	Estimated Dollar Amount	Currently DBE Certified?
			☐ Yes ☐ No
			☐ Yes ☐ No
			☐ Yes ☐ No
			☐ Yes ☐ No
			☐ Yes ☐ No

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above.

_____ _____
Prime Contractor Signature Print Name

_____ _____
Title Date

[1]A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certification as described in 40 CFR 33.204-33.205 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.
[2]Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an EPA award of financial assistance.

-Attachment 6: RESERVED-

Attachment 7: SRF Required Front-End Specifications
Other Federal Requirements Language

A. -RESERVED-

B. Federal Labor Standards Provisions (including Davis-Bacon prevailing wage rates)

The Project or Program to which the construction work covered by this contract pertains is being assisted by the United States of America and the following Federal Labor Standards Provisions are included in this Contract pursuant to the provisions applicable to such Federal assistance.

(1) Minimum wages.

(i) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in Sec. 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

(ii) (A) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(2) The classification is utilized in the area by the construction industry; and

(3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting

officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii) (B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, provided that the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

(2) Withholding. The EPA shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the EPA may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

(3) Payrolls and basic records.

(i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii) (A) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the (write in name of appropriate federal agency) if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant, sponsor, or owner, as the case may be, for transmission to the (write in name of agency). The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at http://www.dol.gov/whd/programs/dbra/forms.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and

subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the (write in name of appropriate federal agency) if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit them to the applicant, sponsor, or owner, as the case may be, for transmission to the (write in name of agency), the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, sponsor, or owner).

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) That the payroll for the payroll period contains the information required to be provided under Sec. 5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under Sec. 5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a)(3)(ii)(B) of this section.

(D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under paragraph (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the EPA or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

(4) Apprentices and trainees

(i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate)

specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with, 29 CFR part 30.

(5) Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

(6) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the (write in the name of the Federal agency) may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

(7) Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

(8) Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

(9) Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (and any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

(10) Certification of eligibility.

(i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

(b) Contract Work Hours and Safety Standards Act. The Agency Head shall cause or require the contracting officer to insert the following clauses set forth in paragraphs (b)(1), (2), (3), and (4) of this section in full in any contract in an amount in excess of $100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by Sec. 5.5(a) or 4.6 of part 4 of this title. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.

(3) Withholding for unpaid wages and liquidated damages. The loan recipient shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this section.

(c) In addition to the clauses contained in paragraph (b), in any contract subject only to the Contract Work Hours and Safety Standards Act and not to any of the other statutes cited in Sec. 5.1, the Agency Head shall cause or require the contracting officer to insert a clause requiring that the contractor or subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall preserve them for a period of three years from the completion of the contract for all laborers and mechanics, including guards and watchmen, working on the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. Further, the Agency Head shall cause or require the contracting officer to insert in any such contract a clause providing that the records to be maintained under this paragraph shall be made available by the contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the EPA and the Department of Labor, and the contractor or subcontractor will permit such representatives to interview employees during working hours on the job.

C. -RESERVED-

D. Historical and Archeological Finds

Should any cultural, historical, or paleontological resources including but not limited to deposits of charcoal or ash, animal bones, pottery sherds, or stone tools be exposed as part of proposed project activities, the owner shall stop ground-disturbing activities within 100 feet of the discovery and immediately notify the State Revolving Fund Environmental Review Specialist (SRF). No further disturbance of the deposits shall ensue until the SRF determines that the project activities in that area may proceed.

If human remains are accidentally discovered, Iowa burial law [[Iowa Code Sections 263B, 523I.316(6), and 716.5; 685 IAC 11.1] requires that all work in the vicinity of the finding be halted, the remains left in place and protected, local law enforcement officials notified, and the bioarchaeology director at the Office of the State Archaeologist (OSA) contacted immediately (319-384-0740). Photographs are only to be taken at the direction of the bioarchaeology director and must not be shared publicly.

In all cases of inadvertent discovery, the SRF shall determine the applicability of the Protection of Historic Properties regulations of the Advisory Council on Historic Preservation [36 CFR Part 800.13(b)] and, when applicable, shall notify the State Historic Preservation Office (SHPO) and consult with the SHPO, OSA, and other interested parties to determine the proper course of action regarding the discovery.

Compensation to the contractor, if any, for lost time or changes in construction to avoid the find, shall be determined in accordance with changed conditions or change order provisions of the specifications.

E. Prohibitions on Procurement from Violating Facilities (Section 306, Clean Air Act; Section 508, Clean Water Act; Executive Order 11738)

Both the Clean Water Act and the Clean Air Act prohibit federal agencies from extending assistance by way of loans or contracts to persons who have been convicted of violations of either law. Executive Order 11738 was issued to coordinate enforcement by the U.S. Environmental Protection Agency, which shall designate facilities which have given rise to a conviction for an offense under the criminal provisions of the Clean Air Act and the Clean Water Act.

The Executive Order also prohibits agencies from extending assistance to facilities that are not in compliance with either Act.

SRF assistance recipients may not procure goods, services, or materials from suppliers listed by the EPA as violators.

The Excluded Parties Listing search engine is located at the System for Award Management (SAM) website: https://sam.gov.

Attachment 8: SRF Required Front-End Specifications
Right of Entry and Records Retention

The recipient shall provide access at all times for the Department of Natural Resources, the Iowa Finance Authority, the state auditor, and the U.S. EPA Office of the Inspector General to all project records and documents for inspection and audit purposes for a period of three years after the date of last loan payment. The same access to the project site(s) shall be provided for inspection purposes.

567 Iowa Administrative Code paragraph 92.8 (2).e. State inspections. Personnel of the department shall have the right to examine all construction aspects of the project, including materials and equipment delivered and stored on site for use on the project.

Attachment 9: SRF Required Front-End Specifications
American Iron and Steel Requirements

H.R. 3547, the "Consolidated Appropriations Act, 2014," enacted January 17, 2014 by the U.S. Congress, includes "American Iron and Steel" provisions that require Clean Water and Drinking Water State Revolving Fund assistance recipients of these funds to use iron and steel produced in the United States.

H.R. 3547 includes the following language in Division G, Title IV, under the heading, "Use of American Iron and Steel":

> Sec. 436. (a)(1) None of the funds made available by a State water pollution control revolving fund as authorized by title VI of the Federal Water Pollution Control Act (33 U.S.C. 1381 et seq.) or made available by a drinking water treatment revolving loan fund as authorized by section 1452 of the Safe Drinking Water Act (42 U.S.C. 300j-12) shall be used for a project for the construction, alteration, maintenance, or repair of a public water system or treatment works unless all of the iron and steel products used in the project are produced in the United States.
>
> (2) In this section, the term "iron and steel products" means the following products made primarily of iron and steel: lined or unlined pipes and fittings, manhole covers and other municipal castings, hydrants, tanks, flanges, pipe clamps and restraints, valves, structural steel, reinforced precast concrete, and construction materials.
>
> (b) Subsection (a) shall not apply in any case or category of cases in which the Administrator of the Environmental Protection Agency (in this section referred to as the "Administrator") find that—
>
> 1. Applying subsection (a) would be inconsistent with the public interest;
> 2. Iron and steel products are not produced in the United States in sufficient and reasonably available quantities and of a satisfactory quantity; or
> 3. Inclusion of iron and steel products produced in the United States will increase the cost of the overall project by more than 25 percent.
>
> (c) If the Administrator receives a request for a waiver under this section, the Administrator shall make available to the public on an informal basis a copy of the request and information available to the Administrator concerning the request, and shall allow for informal public input on the request for at least 15 days prior to making a finding based on the request. The Administrator shall make the request and accompanying information available by electronic means, including on the official public Internet Web site of the Environmental Protection Agency.

The final guidance and any published waivers are found at: https://www.epa.gov/cwsrf/state-revolving-fund-american-iron-and-steel-ais-requirement. In particular the contractor should pay attention to the guidance for documentation of compliance. There is also a waiver for incidental items; in order to qualify for this waiver the total materials and costs for the project must be tracked and incidental items identified.

Sample "American Iron and Steel" Contract Language

In order to fulfill the requirements, the assistance recipient must in good faith design the project and solicit bids for construction with U.S.-made iron and steel. The following information will be included in any contracts resulting from this request for bids:

The Contractor acknowledges to and for the benefit of the City of _____ ("Purchaser") and the State of Iowa (the "State") that it understands the goods and services under this Agreement are being funded with monies made available by the Clean Water State Revolving Fund and/or Drinking Water State Revolving Fund and such law contains provisions commonly known as "American Iron and Steel;" that requires all of the iron and steel products

used in the project to be produced in the United States ("American Iron and Steel Requirement") including iron and steel products provided by the Contactor pursuant to this Agreement.

The Contractor hereby represents and warrants to and for the benefit of the Purchaser and the State that (a) the Contractor has reviewed and understands the American Iron and Steel Requirement, (b) all of the iron and steel products used in the project will be and/or have been produced in the United States in a manner that complies with the American Iron and Steel Requirement, unless a waiver of the requirement is approved, and (c) the Contractor will provide any further verified information, certification or assurance of compliance with this paragraph, or information necessary to support a waiver of the American Iron and Steel Requirement, as may be requested by the Purchaser or the State.

Notwithstanding any other provision of this Agreement, any failure to comply with this paragraph by the Contractor shall permit the Purchaser or State to recover as damages against the Contractor any loss, expense, or cost (including without limitation attorney's fees) incurred by the Purchaser or State resulting from any such failure (including without limitation any impairment or loss of funding, whether in whole or in part, from the State or any damages owed to the State by the Purchaser). While the Contractor has no direct contractual privity with the State, as a lender to the Purchaser for the funding of its project, the Purchaser and the Contractor agree that the State is a third-party beneficiary and neither this paragraph (nor any other provision of this Agreement necessary to give this paragraph force or effect) shall be amended or waived without the prior written consent of the State.

Sample Certifications

As indicated in the contract language, it will be the responsibility of the Contractor to obtain certifications that the products and materials used in the project are U.S.-made. EPA recommends the use of a step certification process for documenting compliance with AIS requirements, similar to one used by the Federal Highway Administration. Step certification creates a paper trail which documents the location of the manufacturing process involved with the production of steel and iron materials. Each handler (supplier, fabricator, manufacturer, processor, coater, etc.) of the iron and steel products certifies that their step in the process was domestically performed. Alternatively, the final manufacturer that delivers the iron or steel product to the worksite, vendor, or contractor, may provide a certification asserting that all manufacturing processes occurred in the US and providing detailed information on the steps involved.

The following information is provided as a sample letter of certification for AIS compliance. Documentation must be provided on company letterhead. In this example, there may be multiple letters from different manufacturers if one manufacturer did not perform all of the steps.

Date Company Letterhead

Company Name
Company Address
City, State Zip

Subject: American Iron and Steel Step Certification for Project (XXXXXXXXXX)

I, (company representative), certify that the (melting, bending, coating, galvanizing, cutting, etc.) process for (manufacturing or fabricating) the following products and/or materials shipped or provided for the subject project is in full compliance with the American Iron and Steel requirement as mandated in EPA's State Revolving Fund Programs.

Item, Products and/or Materials:

1. Xxxx

2. Xxxx

3. Xxxx

Such process took place at the following location:

_____

If any of the above compliance statements change while providing material to this project we will immediately notify the prime contractor and the engineer.

Signed by company representative

Covered and Non-Covered Items

The EPA issued a waiver for De Minimus incidental components of eligible water and wastewater infrastructure projects. Funds used for such De Minimus incidental components cumulatively may comprise no more than a total of 5% of the total cost of the materials used in and incorporated into a project. The cost of an individual incidental item may not exceed 1% of the total cost of the materials used in and incorporated into a project.

De Minimus incidental items include miscellaneous, generally low-cost components that are essential for, but incidental to, the construction and are incorporated into the physical structure of the project. For many of these incidental components, the country of manufacture and the availability of alternatives are not readily or reasonably identifiable prior to procurement in the normal course of business. For others, the country of manufacture may be known but the miscellaneous character in conjunction with the low cost, individually and (in total) as typically procured in bulk, mark them as properly incidental.

Examples of incidental components could include small washers, screws, fasteners (i.e., nuts and bolts), miscellaneous wire, corner bead, ancillary tube, etc. Examples of items that are clearly not incidental include significant process fittings (i.e., tees, elbows, flanges, and brackets), distribution system fittings and valves, force main valves, pipes, treatment and storage tanks, large structural supports, etc.

In consultation with their contractors, assistance recipients should determine the items to be covered by this waiver, and must retain relevant documentation (i.e. invoices) as to those items. Assistance recipients must summarize in the AIS De minimis Product List the types and/or categories of items to which this waiver is applied, the total cost of incidental components for each type or category, and the calculations by which they determined the total cost of materials used in and incorporated into the project.

The successful bidder will fill out the AIS Procurement List and submit it to the assistance recipient to indicate iron and steel items proposed to be procured for the project.

Assistance recipients will complete the AIS De Minimis Waiver Products List for the entire project to demonstrate compliance with the De Minimis Waiver cost requirements outlined above.

Related forms and resources can be found at https://opportunityiowa.gov/community/water-quality/srf-resources/documents-and-guides.

Attachment 10: SRF Required Front-End Specifications

*This form to be completed by Prime Contractor and submitted with the bid.

PROHIBITION ON CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT

This term and condition implements 2 CFR 200.216 and is effective for obligations and expenditures of EPA financial assistance funding on or after 8/13/2020. EPA recipients and subrecipients, including borrowers under EPA funded revolving loan fund programs, are prohibited from obligating or expending loan or grant funds to:

(a) Procure or obtain, extend or renew a contract to procure or obtain;
(b) Enter into a contract (or extend or renew a contract) to procure; or
(c) Obtain the equipment, services, or systems that use "covered telecommunications equipment or services"

identified in the regulation as a substantial or essential component of any system, or as critical technology as part of any system.

Certain equipment, systems, or services, including equipment, systems, or services produced or provided by entities subject to the prohibition are recorded in the System for Award Management exclusion list, website: https://sam.gov.

(1) As described in Public Law 115-232, section 889, covered telecommunications equipment or services includes:
  (i) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
  (ii) For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).
  (iii) Telecommunications or video surveillance services provided by such entities or using such equipment.
  (iv) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

(2) Consistent with 2 CFR 200.471, costs incurred for telecommunications and video surveillance services or equipment such as phones, internet, video surveillance, and cloud servers are allowable except for the following circumstances:
  (i) Obligating or expending EPA funds for covered telecommunications and video surveillance services or equipment or services to procure (enter into, renew or extend contracts) or obtain the equipment, services, or systems as described in 2 CFR 200.216.

I understand the above prohibitions and certify that the project will be in compliance with all the requirements.

Signature	Date
Printed Name	Title

Davis-Bacon Prevailing Wage Rates for Muscatine County, Iowa

Construction Types: Heavy and Highway

Date: 01-16-2026

General Decision Number: IA20260028

Source:

https://SAM.gov

"General Decision Number: IA20260028 01/16/2026

State: Iowa

Construction Types: Heavy and Highway

Counties: Adair, Adams, Allamakee, Appanoose, Audubon, Benton, Black Hawk, Boone, Bremer, Buchanan, Buena Vista, Butler, Calhoun, Carroll, Cass, Cedar, Cerro Gordo, Cherokee, Chickasaw, Clarke, Clay, Clayton, Clinton, Crawford, Dallas, Davis, Decatur, Delaware, Des Moines, Dickinson, Dubuque, Emmet, Fayette, Floyd, Franklin, Fremont, Greene, Grundy, Guthrie, Hamilton, Hancock, Hardin, Harrison, Henry, Howard, Humboldt, Ida, Iowa, Jackson, Jasper, Jefferson, Johnson, Jones, Keokuk, Kossuth, Lee, Linn, Louisa, Lucas, Lyon, Madison, Mahaska, Marion, Marshall, Mills, Mitchell, Monona, Monroe, Montgomery, Muscatine, O'Brien, Osceola, Page, Palo Alto, Plymouth, Pocahontas, Polk, Pottawattamie, Poweshiek, Ringgold, Sac, Shelby, Sioux, Story, Tama, Taylor, Union, Van Buren, Wapello, Warren, Washington, Wayne, Webster, Winnebago, Winneshiek, Woodbury, Worth and Wright Counties in Iowa.

HIGHWAY CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	01/16/2026

SAIA2025-001 12/26/2024

	Rates	Fringes
BRICKLAYER (BRICKLAYER/STONE MASON)		
ZONE 1	$ 37.00	18.62
ZONE 2	$ 37.00	18.62
ZONE 3	$ 37.00	18.62
ZONE 4	$ 35.75	17.09
ZONE 5	$ 32.65	17.09
Carpenter & Piledrivermen		
ZONE 1	$ 34.27	17.08
ZONE 2	$ 32.80	17.23
ZONE 3	$ 32.68	17.48
ZONE 4	$ 32.45	14.80
ZONE 5**	$ 31.40	13.45
CONCRETE FINISHER		
ZONE 1	$ 31.85	15.08
ZONE 2	$ 31.85	15.08
ZONE 3	$ 31.85	15.08
ZONE 4	$ 30.00	10.70
ZONE 5	$ 28.95	10.70
ELECTRICIAN (STREET AND HIGHWAY LIGHTING AND TRAFFIC SIGNALS)		
ZONE 1, 2, AND 3	$ 41.40	18.80
ZONE 4	$ 40.10	17.80
ZONE 5	$ 38.45	16.05
IRONWORKER (SETTING OF STRUCTURAL STEEL)		
ZONE 1	$ 32.28	19.07
ZONE 2	$ 30.57	19.46
ZONE 3	$ 30.56	19.60
ZONE 4	$ 28.74	18.51
ZONE 5**	$ 27.26	17.59

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LABORER

ZONE 4		
GROUP A	$ 25.42	13.42
GROUP AA	$ 28.96	13.42
GROUP B	$ 23.57	13.42
GROUP C	$ 21.60	13.42
ZONE 5		
GROUP A	$ 25.42	12.17
GROUP AA	$ 28.96	12.17
GROUP B	$ 23.57	12.17
GROUP C	$ 21.60	12.17
ZONES 1, 2, & 3		
GROUP A	$ 26.29	13.64
GROUP AA	$ 28.96	13.64
GROUP B	$ 24.44	13.64
GROUP C	$ 21.36	13.64

POWER EQUIPMENT OPERATOR

ZONE 1		
GROUP A	$ 38.92	18.28
GROUP B	$ 37.37	18.28
GROUP C	$ 34.87	18.28
GROUP D	$ 34.87	18.28
ZONE 2		
GROUP A	$ 38.82	18.28
GROUP B	$ 37.22	18.28
GROUP C	$ 34.67	18.28
GROUP D	$ 34.67	18.28
ZONE 3		
GROUP A	$ 35.10	31.30
GROUP B	$ 33.80	31.30
GROUP C	$ 32.30	31.30
GROUP D	$ 32.30	31.30
ZONE 4		
GROUP A	$ 35.10	20.70
GROUP B	$ 33.96	20.70
GROUP C	$ 31.88	20.70
GROUP D	$ 31.88	20.70
ZONE 5		
GROUP A	$ 34.17	15.55
GROUP B	$ 33.13	15.55
GROUP C	$ 31.40	15.55
GROUP D	$ 30.40	15.55

TRUCK DRIVER

ZONE 1	$ 29.00	13.40
ZONE 2	$ 29.00	13.40
ZONE 3	$ 29.00	13.40
ZONE 4	$ 29.00	11.00
ZONE 5	$ 27.24	11.00

ZONE DEFINITIONS

ZONE 1 The Counties of Polk, Warren, and Dallas for all Crafts, and Linn County Carpenters only.

ZONE 2 The Counties of Dubuque for all Crafts and Linn County for all Crafts except Carpenters.

ZONE 3 The Cities of Burlington (including West Burlington), Clinton, Fort Madison, Keokuk, and Middleton (including the Iowa Army Ammunition Plant) and Muscatine (and abutting municipalities of any such cities).

ZONE 4 Story, Black Hawk, Cedar, Jasper, Jones, Jackson, Louisa, Madison, and Marion Counties; Clinton County (except the City of Clinton), Johnson County, Muscatine County (except the City of Muscatine), the City of Council Bluffs, Lee County and Des Moines County.

ZONE 5 All areas of the state not listed above.

LABORER CLASSIFICATIONS - ALL ZONES

GROUP AA - Skilled pipelayer (sewer, water, and conduits)

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and tunnel laborers; asbestos abatement worker

GROUP A - Carpenter tender on bridges and box culverts; CCTV* sewer inspection operator; curb machine (without a seat); deck hand; diamond & core drills; drill operator on air tracs, wagon drills, and similar drills; form setter/stringman on paving work; gunnite nozzleman; joint sealer kettleman; laser operator; mason tender (brick/stone), powderman tender; powderman/blaster; sign erector; saw operator; {(Zones 4 and 5) Skilled pipelayer (sewer, water, and conduits); surveyors assistant; tunnel laborer; asbestos abatement worker}. *new labor classification (CCTV: closed circuit television)

GROUP B - Air, gas, electric tool operator; barco hammer; carpenter tender; caulker; chain sawman; compressor (under 400 cfm); concrete finisher tender; concrete processing materials and monitors; cutting torch on demolition; drill tender; dumpmen; electric drills; fence erectors; form line expansion joint assembler; form tamper; general laborer; grade checker; handling and placing metal mesh, dowel bars, reinforcing bars and chairs; hot asphalt laborer; installing temporary traffic control devices; jack hammerman; mechanical grouter; painter (all except stripers); paving breaker; planting trees, shrubs and flowers; power broom (not self-propelled); power buggyman; rakers; rodman (tying reinforcing steel); sandblaster; seeding and mulching; sewer utility topman/bottom man; spaders; stressor or stretcherman on pre or post tensioned concrete; stringman on re/surfacing/no grade control; swinging stage, tagline, or block and tackle; tampers; timberman; tool room men and checkers; tree climber; tree groundman; underpinning and shoring caissons over twelve feet deep; vibrators; walk behind trencher; walk behind paint stripers; walk behind vibrating compactor; water pumps (under three inch); work from bosun chair.

GROUP C - Scale weigh person; traffic control/flagger, surveillance or monitor; water carrier.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS - ALL ZONES

GROUP A - All terrain (off road) forklift; asphalt breakdown roller (vibratory); asphalt laydown machine; asphalt plant; asphalt screed; bulldozer (finish); central mix plant; concrete pump; crane; crawler tractor pulling scraper; directional drill (60,000 (lbs) pullback and above); dragline and power shovel; dredge engineer; excavator (over cu. yd.); front end loader (4 cy and over); horizontal boring machine; master mechanic; milling machine (over 350 hp); motor grader (finish); push cat; rubber tired backhoe (over cu. yd.); scraper (12 cu. yd. and over or finish); Self-propelled rotary mixer/road reclaimer; sidebroom tractor; slipform portland concrete paver; tow or push boat; trenching machine (Cleveland 80 or similar)

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GROUP B - Articulated off road hauler, asphalt heater/planer; asphalt material transfer vehicle; asphalt roller; belt loader or similar loader; bulldozer (rough); churn or rotary drill; concrete curb machine; crawler tractor pulling ripper, disk or roller; deck hand/oiler; directional drill (less than 60,000 (lbs) pullback); distributor; excavator (1/2 cu. yd. and under); form riding concrete paver; front end loader (2 to less than 4 cu. yd.); group equipment greaser; mechanic; milling machine (350 hp. and less); paving breaker; portland concrete dry batch plant; rubber tired backhoe (1/2 cu. yd. and under); scraper (under 12 cu. yd.); screening, washing and crushing plant (mobile, portable or stationary); shoulder machine; skid loader (1 cu. yd. and over); subgrader or trimmer;

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trenching machine; water wagon on compaction.

GROUP C - Boom & winch truck; concrete spreader/belt placer; deep wells for dewatering; farm type tractor (over 75 hp.) pulling disc or roller; forklift; front end loader (under 2 cu. yd.); motor grader (rough); pile hammer power unit; pump (greater than three inch diameter); pumps on well points; safety boat; self-propelled roller (other than asphalt); self-propelled sand blaster or shot blaster, water blaster or striping grinder/remover; skid loader (under 1 cu. yd.); truck mounted post driver.

GROUP D - Boiler; compressor; cure and texture machine; dow box; farm type or utility tractor (under 75 hp.) pulling disk, roller or other attachments; group greaser tender; light plants; mechanic tender; mechanical broom; mechanical heaters; oiler; pumps (under three inch diameter); tree chipping machine; truck crane driver/oiler.

** CARPENTERS AND PILEDRIVERMEN, or IRONWORKERS (ZONE 5)
Setting of structural steel; any welding incidental to bridge or culvert construction; setting concrete beams.

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at https://www.dol.gov/agencies/whd/government-contracts.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least $13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2025. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

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The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the

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discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

a) a survey underlying a wage determination
b) an existing published wage determination
c) an initial WHD letter setting forth a position on a wage determination matter
d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that

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the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION"

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PART 1 GENERAL

1.01 UNIT PRICE REQUIREMENTS

A. Items of Work described herein are specifically listed in the Contract for separate measurement and payment.

B. No other items of Work required by Contract Documents shall be measured or paid for as a separate item but shall be included as part of listed unit price item to which Work pertains. Failure to list all such related Work in the following descriptions of unit price items shall not invalidate this stipulation.

C. Take measurements, compute quantities, and submit to City Engineer. City Engineer will verify measurements and quantities.

D. The unit item code (XXXX-X-X) refers to the following:
1. First four numbers: SUDAS Standard Specifications Section number.
2. Second letter and number: Pay item category within SUDAS Specifications Section under article 1.08 Measurement and Payment.
3. Note, the second number may not be present for every item.

E. All the listed requirements within the referenced SUDAS Standard Specifications Sections are applicable in their entirety unless otherwise noted in the contract documents.

1.02 DESCRIPTION OF UNIT PRICE ITEMS (ESTIMATE REFERENCE NOTES)

A. See C sheets for Estimate Reference Notes

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

PART 1 GENERAL

1.01 SUBMITTAL PROCEDURES

A. Submit electronically when required by Specification Sections. Contact City Resident Project Representative (Engineer), for submittal instructions. Shop drawing submittals shall be provided to Owner's Engineering Consultant (Design Engineer).
   1. Ms. Karmen K Heim with Stanley Consultants, Inc. heimkarmen@stanleygroup.com

B. Definition of Engineer for shop drawings submittal review applies to Design Engineer or Owner's Engineering Consultant unless otherwise instructed.

C. Engineer will make internal distribution to the Owner and other interested parties.

D. Submittals shall be in English language.

E. Weights, measures, and units shall be English units with SI metric values following in parenthesis.

F. Graphics symbols for electrical and electronic diagrams shall conform to ANSI Y32.2/IEEE 315/ CSA Z99.

G. Refer to SUDAS specifications Section 1050 1.05, and Section 1070 1.10 for shop drawing requirements.

1.02 CONTRACTOR RESPONSIBILITIES

A. Review submittals prior to submission.

B. Determine and verify:
   1. Field measurements.
   2. Field construction criteria.
   3. Catalog numbers and similar data.
   4. Conformance to Specifications.

C. Coordinate each submittal with other submittals and with requirements of Work and of Contract Documents.

D. Notify Engineer in writing, at time of submission, of any deviations in submittals from requirements of Contract Documents. Any such deviations permitted by Engineer will require modifications of Contract Documents.

E. Provide space on Shop Drawings for Contractor and Engineer review stamps.

F. When Shop Drawings are revised for resubmission, identify all changes made since previous submission.

G. Submittals containing language imposing duties on others (such as verification of dimensions or supply of related information) inconsistent with contract language shall be null and void.

H. Submittals shall not be used as media for inquiries for information or for verification of information that must be supplied by others to Contractor. Inquiries or verification of information shall be made by separate Contractor submittal using Request for Information (RFI) process.

I. Begin no fabrication or Work which requires submittal review until return of submittals by Engineer with stamp, as either "Reviewed", "Reviewed as Noted", or "Reviewed as Noted-Resubmit."

J. Distribute copies of reviewed submittals that carry Engineer stamp as either "Reviewed" or "Reviewed as Noted" as appropriate. Instruct parties to promptly report any inability to comply with requirements.

K. Submittals not requested will not be recognized or processed.

1.03 ENGINEER DUTIES

A. Review required submittals with reasonable promptness and in accord with schedule, only for general conformance to design concept of Project and compliance with information given in Contract Documents. Review shall not extend to means, methods, sequences, techniques, or procedures of construction or to safety precautions or program incident thereto. Review of a separate item as such will not indicate approval of assembly in which item functions.

B. Affix stamp and initials or signature, and indicate requirements for resubmittal, or review of submittal. Engineer's action on submittals is classified as follows:
1. Reviewed: Submittal has been reviewed and appears to be in conformance to design concept of Project and Contract Documents. Contractor may proceed with fabrication of work in submittal.
2. Reviewed As Noted: Submittal has been reviewed and appears to be in conformance to design concept of Project and Contract Documents, except as noted by reviewer. Contractor may proceed with fabrication of work in submittal with modifications and corrections as indicated by reviewer.
3. Reviewed As Noted-Resubmit: Submittal has been reviewed and appears to be in conformance to design concept of Project and Contract Documents, except as noted by reviewer. Contractor may proceed with fabrication of work in submittal with modifications and corrections as indicated by reviewer. Contractor shall make any corrections indicated by reviewer and resubmit for review.
4. Resubmit: Submittal has been reviewed and appears not to be in conformance to design concept of Project or with Contract Documents. Contractor shall not proceed with fabrication of work in submittal, but instead shall make any corrections required by reviewer and resubmit for review.
5. Returned without Review: Submittal is being returned without having been reviewed because: 1) not required by Contract Documents; 2) grossly incomplete; 3) indicates no attempt at conformance to Contract Documents; 4) cannot be reproduced; 5) lacks Contractor's completed approval stamp; or 6) lacks design professional's seal when required by law or Contract Documents. If submittal is required by Contract Documents, Contractor shall not proceed with Work as detailed in submittal, but instead shall correct defects and resubmit for review.
6. For Information Only: Submittal has not been reviewed but is being retained for informational purposes only.
7. Void: Submittal is voided because it is no longer required or has been superseded by another submittal.

C. Return one electronic copy of submittals to Contractor. Contractor shall make additional distribution as required.

D. Review of submittals shall not relieve Contractor from responsibility for any variation from Contract Documents unless Contractor has, in writing, called Engineer's attention to such variation at time of submission, and Engineer has given written concurrence pursuant to Contract Documents to specific variation, nor shall any concurrence by Engineer or other reviewer relieve Contractor from responsibility for errors or omissions in submittals.

1.04 SHOP DRAWINGS SUBMITTALS

A. Submit for review for limited purpose of checking for conformance to information given and design concept expressed in Contract Documents. Produce copies and distribute in accordance with article “Submittal Procedures” and for record documents purposes as described in Section 01 77 00.

B. Designate in construction schedule, or in separate coordinated submittal schedule, dates for submission and dates that reviewed submittals will be needed.

C. Make submittals promptly in accordance with approved schedule, and in such sequence as to cause no delay in Work or in work of other contractors.

D. Present in clear and thorough manner, complete with respect to dimensions, design criteria, materials of construction, and like information to enable review of information as required.

E. Details shall be identified by reference to sheet and detail, schedule or room numbers shown on Drawings.

F. Indicate special utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

G. Schedule submittals to expedite Project. Coordinate submission of related items.

H. For each submittal for review, allow a minimum of 15 days to complete review process.

I. Identify variations from Contract Documents and product or system limitations which may be detrimental to successful performance of completed Work.

J. Shop Drawings shall be submitted in electronic format.
1. Submit electronic copy to Engineer. Specific instructions will be provided after award.
2. Submittal Transmittal form (see pdf attached) shall be provided in Word format for each submittal. Microsoft Word template will be provided after award.
3. Text documents shall be submitted in .pdf format except for the shop drawing Transmittal Form.
4. Drawings shall be submitted in .pdf or .tif format.
5. Electronic submittal shall be suitable for reproduction in black and white.
6. Samples may be submitted to Engineer.

K. Submittals shall contain:
1. Date of submission and dates of any previous submissions.
2. Project title and number.
3. Contract identification.
4. Names of:
   a. Contractor.
   b. Supplier.
   c. Manufacturer.
5. Identification of product, with Specification section number and article number.
6. Field dimensions, clearly identified as such.
7. Relation to adjacent or critical features of Work or materials.
8. Applicable standards, such as ASTM or Federal Specification numbers.
9. Identification of deviations from Contract Documents.
10. Identification of revisions on resubmittals.
11. An 8" x 3" blank space for Contractor and reviewer stamps.
12. Indication of Contractor's approval, initialed or signed, with wording substantially as follows:

    "Contractor represents to Owner and Engineer that Contractor has either determined and verified all quantities, dimensions, field construction criteria, materials, catalog numbers, and similar data, or assumes full responsibility for doing so and has reviewed or coordinated each submittal with requirements of Work and Contract Documents."

13. If Contract Documents include performance specifications stating required results which can be verified as meeting stipulated criteria, so that further design by Contractor prior to fabrication is necessary, Submittal depicting such design must be prepared under seal of professional engineer licensed in appropriate state and Submittal shall be signed and sealed in accordance with applicable regulations and with following certification statement:

    "I hereby certify that this engineering document was prepared by me or under my direct personal supervision, that I am a duly licensed professional engineer under

laws of state of Iowa and I accept responsibility for adequacy of this document to meet criteria stipulated in Contract Documents."

L. Product Data:
1. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
2. Indicate product utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

M. Design data:
1. Submit for Engineer's knowledge as contract administrator or for Owner.
2. Submit for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

N. Test reports:
1. Submit for Engineer's knowledge as contract administrator or for Owner.
2. Submit test reports for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

O. Certificates:
1. When specified in individual specification sections, submit certification by manufacturer, installation/application subcontractor.
2. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
3. Certificates may be recent or previous test results on material or product, but must be acceptable to reviewer.

P. Manufacturer's instructions:
1. When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, to Engineer for delivery to Owner in quantities specified for Product Data.
2. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.

Q. Manufacturer's field reports:
1. Submit report within 30 days of observation for information.
2. Submit for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

R. Operations and maintenance manuals:
1. Designate in construction schedule, or in separate coordinated schedule, dates for submission and dates that reviewed operations and maintenance manuals will be needed.
2. Operations and maintenance manuals shall be presented in clear and thorough manner, complete with respect to dimensions, design criteria, materials of construction, and like information to enable reviewer to review information as required. Details shall be identified by reference to sheet and detail, schedule or room numbers shown on Drawings.

1.05 RESUBMISSION REQUIREMENTS

A. Make any corrections or changes in submittals required by Engineer and resubmit until stamped as either "Reviewed," "Reviewed as Noted," or “For Information Only.”

B. Text and depictions changed on Submittal shall be back-circled (clouded).

C. Engineer will assume that portions of Submittal not back-circled have not been changed by Contractor from previous submission.

D. Indicate revision number and date in document revision block.

1.06 DISTRIBUTION

A. Distribute reproductions of Shop Drawings which carry Engineer stamp as either "Reviewed" or "Reviewed as Noted" to:
   1. Job site file.
   2. Record Documents file.
   3. Other affected contractors.
   4. Subcontractors.
   5. Supplier or fabricator.

B. Distribute Samples which carry Engineer stamp as either "Reviewed" or "Reviewed as Noted" as directed by Engineer.

1.07 PHOTOGRAPHIC DOCUMENTATION

A. At Contractor’s option, provide photographs of Site and construction throughout progress of Work in a format acceptable to Engineer.

B. At Contractor’s option, submit photographs with Application for Payment demonstrating completion of pay items.

C. Deliver digital files to Owner with Project Record Documents. Catalog and index in chronological sequence; provide typed table of contents.

1.08 VIDEO DOCUMENTATION OF EXISTING CONDITIONS

A. Prior to construction, Contractor to perform video recording along route of new sanitary and storm sewers, new pavement, driveway, and sidewalks, and haul routes. Recording shall document significant features that may be affected by construction activity.

B. See Special Provisions section 00 75 00 for requirements.

1.09 SUBMITTAL TRANSMITTAL FORM PROCEDURES

A. Submittals shall be accompanied by completed copies of Submittal Transmittal form, bound herein. An electronic version of transmittal form is available and may be obtained from Engineer. Reproduce additional copies required.

B. Submit copies of transmittal form for initial submittals and resubmittals. Sequentially number transmittal form. Revise submittals with original number and sequential alphabetic suffix.

C. Prior to submittal, complete information under heading “Contractor's Transmittal.”

D. Engineer will complete information under “Reviewer's Action.”

E. Do not include submittals for more than one section of Specifications on Submittal Transmittal form.

F. Minimize file size of submittal shall be 10 MB or less. Submit shop drawings in small logical batches rather than large batches that require the Engineering reviewer to organize. Submittals should be organized by Contractor and their subcontractors or suppliers.

G. Identify project title, location, and number and contract title and number.

H. Identify preparer name and, submittal number, including preparer’s submittal revision number.

I. A brief description under "Title" should clearly identify specific application of equipment or material covered by Submittal, utilizing where possible same title used in Drawings and Specifications.

J. Identify Specification Section number.

K. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with requirements of Work and Contract Documents.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

SUBMITTAL TRANSMITTAL

Transmittal No. | **Project Location** City of Muscatine, IA

Project No. 17660.60.40 | **Date Received** | **Contract Title** West Hill Area – Sanitary and Storm Sewer Separation – Phase 6E

Contract No. 6E | **Date Distributed** | **Project Title**

CONTRACTOR'S TRANSMITTAL

ENGINEER'S/ARCHITECT'S ACTION

STATUS ABBREVIATIONS

R - Reviewed
RN - Reviewed as Noted
RNR - Reviewed as Noted Resubmit
RS - Resubmit
RET - Returned Without Review
FIO - For Information Only
V - Void

Preparer		Preparer Submittal No.		Rev No.	Title			Section	Dwg No.	Status

CONTRACTOR's Remarks

Address

By Date

Action of any kind on drawings by ENGINEER/ARCHITECT does not relieve CONTRACTOR from responsibility for errors, correctness of details, or conformance to the Contract.

ENGINEER'S/ARCHITECT'S Remarks

By

Date

Stanley Consultants

PART 1 GENERAL

1.01 TEMPORARY ELECTRICITY

A. Provide and pay for power service required from as needed for construction operation. Contractor is responsible for making arrangements with local electric utility if a source of power is needed.

1.02 TEMPORARY WATER SERVICE

A. Provide and pay for suitable quality water service as needed to maintain specified conditions for construction operations.

1.03 TEMPORARY SANITARY FACILITIES

A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.

B. At end of construction, remove enclosure and return site to original condition.

C. See SUDAS 1070, 2.01 for worker sanitary conveniences.

1.04 MAINTENANCE OF SERVICES

A. See SUDAS Section 1070, 2.14 and Section 11,030 for maintaining postal service and solid waste collection during construction.

1.05 FIELD OFFICES AND SHEDS

A. If Contractor requires a field office or shed, coordinate location with Owner.

1.06 VEHICULAR ACCESS

A. Extend and relocate as Work progress requires, provide detours as necessary for unimpeded traffic flow. Location as approved by Owner**.**

B. Provide unimpeded access for emergency vehicles. Maintain 20' (6 m) width driveways with turning space between and around combustible materials.

C. Provide and maintain access to fire hydrants and control valves free of obstructions.

D. Provide means of removing mud from vehicle wheels before entering streets.

E. Existing on-site roads may be used for construction traffic.

1.07 CONSTRUCTION PARKING

A. Arrange for temporary surface parking areas to accommodate construction personnel. Locate as approved by Owner.

B. When site space is not adequate, provide additional off-site parking.

C. Use of existing on-site streets and driveways used for construction traffic is not permitted. Tracked vehicles not allowed on paved areas.

D. Use of existing parking facilities used by construction personnel is not permitted.

E. Do not allow heavy vehicles or construction equipment in parking areas.

F. Do not allow vehicle parking on existing pavement.

G. Permanent pavements and parking facilities:
   1. Prior to Substantial Completion the base for permanent roads and parking areas may be used for construction traffic.
   2. Avoid traffic loading beyond paving design capacity. Tracked vehicles not allowed.

H. Maintenance:
   1. Maintain traffic and parking areas in a sound condition free of excavated material, construction equipment, products, mud, snow, and ice.
   2. Maintain existing and permanent paved areas used for construction; promptly repair breaks, potholes, low areas, standing water, and other deficiencies, to maintain paving and drainage in original, or specified, condition.

I. Removal, repair:
   1. Remove temporary materials and construction when permanent paving is usable.
   2. Repair existing and permanent facilities damaged by use, to original or condition.

J. Mud from site vehicles: Provide means of removing mud from vehicle wheels before entering streets.

1.08 PROGRESS CLEANING AND WASTE REMOVAL

A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.

B. Collect and remove waste materials, debris, and rubbish from site weekly and dispose off-site.

1.09 PROJECT IDENTIFICATION

A. Project identification sign:
   1. Provided by Contractor for project use.
   2. Two printed signs of size, construction, and design as shown on Drawings.
   3. Size lettering to provide legibility from at least 30' (9 m) distance.
   4. Content:
      a. Project title, logo and name of Owner as indicated on Contract Documents.
      b. Company names of Engineer
      c. Name of prime Contractor.
   5. Graphic design, logo, name, and byline colors, style of lettering: As shown on Drawings.
   6. Lettering: Series C of Standard Alphabet for Highway Signs, Public Roads Administration, Federal Works Agency.
   7. Obtain approval from Owner for final approval of sign content.

B. Design sign and structure to withstand 60 miles/hr (100 km/hr) wind velocity.

C. Sign printer: Experienced as a professional sign printer for minimum 3 years.

D. Finishes, printed: Adequate to withstand weathering, fading, and chipping for duration of construction.

E. Show content, layout, lettering, color.

F. Sign materials:
   1. Structure and framing: Use new structurally adequate materials
   2. Sign surfaces: Exterior grade plywood with medium density overlay, minimum 3/4" (19 mm) thick, standard large sizes to minimize joints.
   3. Rough hardware: Galvanized.
   4. Paints and primers: As shown on Drawings.

G. Installation:
1. Install project identification sign prior to mobilizing to Project site.
2. Erect at location determined by the Owner.
3. Erect supports and framing on secure foundation, rigidly braced and framed to resist wind loadings.
4. Install sign surface plumb and level, with butt joints. Anchor securely.
5. Paint exposed surfaces of sign, supports, and framing.

H. Maintenance: Maintain signs and supports clean, repair deterioration and damage.

I. Removal: Remove signs, framing, supports, and foundations at completion of Project and restore area.

J. Refer to detail on A.02 drawings for project sign requirements.

1.10 TRAFFIC REGULATION

A. Reference SUDAS Section 1070, 2.06 and to SUDAS Section 8030 for additional traffic control requirements and J series drawings.

B. Quality assurance:
1. IDOT Standard Specifications.
2. U. S. Department of Transportation Federal Highway Administration “Manual on Uniform Traffic Control Devices for Streets and Highways,” current edition, as amended.

C. Traffic control devices may be new or used but shall meet standards of IDOT Standard Specification.

D. Portable generators shall not be used to power traffic control devices within 300' of residential dwellings, including apartments, between hours of 10:00 pm and 7:00 am.

E. Owner will furnish “NO PARKING” signs to facilitate removal of parked cars ahead of scheduled work. Contractor responsible for installation and maintenance of signs 48 hours in advance of when cars must be removed. Contractor shall contact the City’s Roadway Maintenance Supervisor, City of Muscatine Public Works Department (563-263-8933) prior to installation of “NO PARKING” signs.

F. Monitor condition of traffic control facilities at all times, including non-work hours. Repair or replace as necessary.

G. Signs, signals, and devices:
1. Post-mounted and-wall mounted traffic control and informational signs: At approaches to site and on site, install at crossroads, detours, parking areas, and elsewhere as needed to direct construction and affected public traffic.
2. Traffic cones and drums, flares and lights: As approved by local jurisdictions.
3. Flagger equipment: As required by local jurisdictions.
4. Relocate as Work progresses, to maintain effective traffic control.

H. Flaggers: Provide trained and equipped flaggers to regulate traffic when construction operations or traffic encroach on public traffic lanes.

I. Flares and lights: Use flares and lights during hours of low visibility to delineate traffic lanes and to guide traffic.

J. Haul routes:
1. Consult with authority having jurisdiction, establish public thoroughfares to be used for haul routes and site access. Determine haul roads with approval of agency having jurisdiction over proposed roadway.
2. Confine construction traffic to designated haul routes.

3. Provide traffic control at critical areas of haul routes to regulate traffic, to minimize interference with public traffic.
4. Make condition survey of haul roads prior to use and document with necessary photographs and written descriptions. Refer to Special Provisions for details on Existing Conditions Video Record.
5. Keep reasonably free from dirt, dust, mud, and other debris from construction operations.
6. Clean a minimum of twice a week.
7. Repair damaged haul routes to match existing conditions before use.

K. Removal:
1. Remove equipment and devices when no longer required.
2. Repair damage caused by installation.
3. Remove post settings to a depth of 2' (600 mm).

1.11 BARRIERS

A. Provide barriers to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.

B. Provide barricades and covered walkways required by governing authorities for public rights-of-way.

C. Provide protection for plants designated to remain. Replace damaged plants.

D. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.12 ENCLOSURES AND FENCING

A. Construction: Plastic construction netting.

B. Provide a minimum of 4' (1.2 m) high fence around open excavations and areas of work that require protection.

C. Maintain protective construction fencing of open excavations at the end of workday and during periods of no construction activity.

1.13 SECURITY

A. Security program:
1. Protect Work existing premises and Owner's operations from theft, vandalism, and unauthorized entry.
2. Initiate program in coordination with Owner's existing security system at project mobilization.
3. Maintain program throughout construction period until Owner acceptance precludes the need for Contractor security.

B. Entry control:
1. Restrict entrance of persons and vehicles into Project site
2. Allow entrance only to authorized persons with proper identification.
3. Owner and Contractor shall control entrance of persons and vehicles related to Owner's operations.

1.14 WATER CONTROL

A. Grade site to drain. Maintain excavations free of water. Provide, operate, and maintain pumping equipment.

B. Protect site from puddling or running water. Provide water barriers as required to protect site from soil erosion.

1.15 DUST CONTROL

A. Execute Work by methods to minimize raising dust from construction operations.

B. Provide positive means to prevent air-borne dust from dispersing into atmosphere.

C. Refer to SUDAS Section 1070, 2.10 and Section 9040 for Dust Control.

1.16 EROSION AND SEDIMENT CONTROL

A. Plan and execute construction by methods to control surface drainage from cuts and fills, from borrow and waste disposal areas. Prevent erosion and sedimentation.

B. Minimize amount of bare soil exposed at one time.

C. Provide temporary measures such as berms, dikes, and drains, to prevent water flow.

D. Construct fill and waste areas by selective placement to avoid erosive surface silts or clays.

E. Inspect project site weekly to detect evidence of erosion and sedimentation; promptly apply corrective measures.

F. Provide methods, means and measures to minimize erosion and sedimentation of soils disturbed resulting from the project construction activities. See Storm Water Pollution Prevention Plan (SWPPP) (Sheet CE.01), and erosion control plans (RR Sheets) and SUDAS Section 9040 for erosion control requirements.

G. Utilize SWPPP forms for contractor and subcontractor certification, contractor training log, site inspection report, and SWPPP amendment log. Example forms are provided in Project Manual.

1.17 NOISE CONTROL

A. Provide methods, means, and facilities to minimize noise produced by construction operations.

1.18 PEST CONTROL

A. Provide methods, means, and facilities to prevent pests and insects from damaging the Work.

1.19 POLLUTION CONTROL

A. Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations.

1.20 RODENT CONTROL

A. Provide methods, means, and facilities to prevent rodents from accessing or invading premises.

1.21 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

A. Remove temporary utilities, equipment, facilities, materials, prior to Substantial Completion inspection.

B. Remove underground installations to a minimum depth of 2' (600 mm). Grade site as indicated.

C. Clean and repair damage caused by installation or use of temporary work.

D. Restore existing and permanent facilities used during construction to original condition. Restore permanent facilities used during construction to specified condition.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

WEST HILL AREA
SANITARY AND STORM SEWER SEPARATION
PHASE 6E

MUSCATINE, IOWA

Owner Certification Statement – Storm Water Pollution Prevention Plan

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE (City of Muscatine Representative) DATE

NAME (City of Muscatine Representative) TITLE

City of Muscatine, Iowa
NAME TELEPHONE NO.

COMPANY ADDRESS

SITE ADDRESS

KEEP A COPY OF THIS SIGNED CERTIFICATION WITH THE STORM WATER POLLUTION PREVENTION PLAN.

WEST HILL AREA
SANITARY AND STORM SEWER SEPARATION
PHASE 6E

MUSCATINE, IOWA

Certification Statement

I certify under penalty of law that I understand the terms and conditions of the General National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site as part of this certification. Further, by my signature, I understand that I am becoming a co-permittee, along with the Owner and other contractors and subcontractors signing such certifications, to the Iowa Department of Natural Resources NPDES General Permit No. 2 for "Storm Water Discharge Associated with Industrial Activity for Construction Activities" at the identified site. As a co-permittee, I understand that I, and my company, are legally required under the Clean Water Act and the Code of Iowa, to ensure compliance with the terms and conditions of the Storm Water Pollution Prevention Plan developed under this NPDES permit and the terms of the NPDES permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE	DATE
NAME	TITLE
COMPANY NAME	TELEPHONE NO.

COMPANY ADDRESS

SITE ADDRESS

KEEP A COPY OF THIS SIGNED CERTIFICATION WITH THE STORM WATER POLLUTION PREVENTION PLAN. FORWARD A COPY TO THE OWNER.

SWPPP TRAINING LOG

Project Name_____

Project Number_____

Date	Training Description	Person receiving training	Signature of Responsible Person (Contractor/Subcontractor)

Stormwater Construction Site Inspection Report

General Information			
Project Name			
NPDES Tracking No.		**Location**	
Date of Inspection		**Start/End Time**	
Inspector's Name(s)			
Inspector's Title(s)			
Inspector's Contact Information			
Inspector's Qualifications			
Describe present phase of construction			
Type of Inspection: ❑ Regular ❑ Pre-storm event ❑ During storm event ❑ Post-storm event			
Weather Information			
Has there been a storm event since the last inspection? ❑Yes ❑No **If yes, provide:** Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in):			
Weather at time of this inspection? ❑ Clear ❑Cloudy ❑ Rain ❑ Sleet ❑ Fog ❑ Snowing ❑ High Winds ❑ Other: Temperature:			
Have any discharges occurred since the last inspection? ❑Yes ❑No **If yes, describe:**			
Are there any discharges at the time of inspection? ❑Yes ❑No **If yes, describe:**			

Site-specific BMPs

- *Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.*
- *Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.*

	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1		❑Yes ❑No	❑Yes ❑No	
2		❑Yes ❑No	❑Yes ❑No	
3		❑Yes ❑No	❑Yes ❑No	
4		❑Yes ❑No	❑Yes ❑No	
5		❑Yes ❑No	❑Yes ❑No	
6		❑Yes ❑No	❑Yes ❑No	
7		❑Yes ❑No	❑Yes ❑No	
8		❑Yes ❑No	❑Yes ❑No	
9		❑Yes ❑No	❑Yes ❑No	
10		❑Yes ❑No	❑Yes ❑No	
11		❑Yes ❑No	❑Yes ❑No	
12		❑Yes ❑No	❑Yes ❑No	

	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
13		❑Yes ❑No	❑Yes ❑No	
14		❑Yes ❑No	❑Yes ❑No	
15		❑Yes ❑No	❑Yes ❑No	
16		❑Yes ❑No	❑Yes ❑No	
17		❑Yes ❑No	❑Yes ❑No	
18		❑Yes ❑No	❑Yes ❑No	
19		❑Yes ❑No	❑Yes ❑No	
20		❑Yes ❑No	❑Yes ❑No	

Overall Site Issues

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	❑Yes ❑No	❑Yes ❑No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	❑Yes ❑No	❑Yes ❑No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	❑Yes ❑No	❑Yes ❑No	
4	Are discharge points and receiving waters free of any sediment deposits?	❑Yes ❑No	❑Yes ❑No	
5	Are storm drain inlets properly protected?	❑Yes ❑No	❑Yes ❑No	
6	Is the construction exit preventing sediment from being tracked into the street?	❑Yes ❑No	❑Yes ❑No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	❑Yes ❑No	❑Yes ❑No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	❑Yes ❑No	❑Yes ❑No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	❑Yes ❑No	❑Yes ❑No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	❑Yes ❑No	❑Yes ❑No	
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	❑Yes ❑No	❑Yes ❑No	
12	(Other)	❑Yes ❑No	❑Yes ❑No	

Non-Compliance

Describe any incidents of non-compliance not described above:

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: _____

Signature:_____ Date:_____

Stormwater Discharge from Construction Activities

SWPPP Amendment Log

Project Name: _____

Project Number: _____

Amendment No.	Date	Brief Description of Amendment	Prepared By

The Amendment Log should include additions of new BMPs, replacement of failed BMPs, significant changes in the activities or timing on the project, changes in personnel, updates to site maps, etc.

SWPPP is a living document – all changes and amendments are required by EPA to be documented.

PART 1 GENERAL

1.01 SUBSTANTIAL COMPLETION

A. When the Contractor considers the Work or designated portion thereof is substantially complete, submit written notice, with list of items to be completed or corrected.

B. Within reasonable time, Engineer will inspect to determine status of completion. Duties and responsibilities assigned to the Engineer during construction, as defined in the Contract, are the responsibility of the Owner or Owner's Representative.

C. Should Engineer determine that Work is not substantially complete, it will promptly notify Contractor in writing, giving reasons therefor.

D. Contractor shall remedy deficiencies, and send second written notice of substantial completion, and Engineer will reinspect Work.

E. When Engineer determines that Work is substantially complete, it will prepare Certificate of Substantial Completion.

1.02 FINAL COMPLETION

A. When the Contractor considers the Work is complete, it shall submit written certification that:
1. Contract Documents have been reviewed.
2. Work has been inspected for compliance with Contract Documents.
3. Work has been completed in accordance with Contract Documents, and deficiencies listed with Certificate of Substantial Completion have been corrected.
4. Equipment and systems have been tested in presence of Owner's representative and are operational.
5. Work is complete and ready for final inspection.

B. Engineer will inspect to verify status of completion with reasonable promptness.

C. Should Engineer consider that Work is incomplete or defective, it will promptly notify Contractor in writing, listing incomplete or defective Work.

D. Contractor shall take immediate steps to remedy deficiencies and send second written certification that Work is complete, and Engineer will reinspect Work.

E. When Engineer finds Work is acceptable, it will consider closeout submittals.

1.03 REINSPECTION FEES

A. Should Engineer perform reinspections due to failure of Work to comply with claims made by Contractor, Owner will compensate Engineer for such additional services and deduct amount of such compensation from final payment to Contractor.

1.04 CLOSEOUT SUBMITTALS

A. Evidence of compliance with requirements of governing authorities:

B. Project record documents: In accordance with Article 1.05.

C. Warranties and Bonds: In accordance with Article 1.06.

D. Evidence of payment and release of liens: In lieu of releases or waivers of Liens, if approved by Owner, Contractor may furnish receipts or releases in full and an affidavit of Contractor demonstrating subcontractors and suppliers have been paid.

E. Consent of Surety to final payment.

F. Certificates of insurance for products and completed operations.

1.05 PROJECT RECORD DOCUMENTS

A. Contractor shall maintain on site one set of the following record documents; record actual revisions to the Work:
   1. Drawings.
   2. Specifications.
   3. Addenda.
   4. Change Orders and other modifications to the Contract.
   5. Reviewed Shop Drawings, Product Data, and Samples.
   6. Manufacturer's instruction for assembly, installation, and adjusting.

B. Ensure entries are complete and accurate, enabling future reference by Owner.

C. Store record documents separate from documents used for construction.

D. Record information concurrent with construction progress, not less than weekly.

E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
   1. Manufacturer's name and product model and number.
   2. Product substitutions or alternates utilized.
   3. Changes made by Addenda and modifications.

F. Record Drawings: Legibly mark each item to record actual construction including:
   1. Size, type, measured horizontal and vertical locations of all underground utilities and appurtenances encountered in excavations, referenced to permanent surface improvements.
   2. Field changes of dimension and detail.
   3. Details not on original Contract Drawings.
   4. Rim elevations of all manholes and inlets and invert elevations on all pipes entering or exiting all new or modified manholes and inlets.
   5. Coordinates for location of all new or modified manholes.
   6. Station, size, depth, and location of all sanitary services connected to new sanitary sewers.
   7. Station, size, depth, and location of all storm sewers connected to new storm sewers.
   8. Information provided shall be compatible with City of Muscatine datum and Muscatine Area Geographic Information Consortium (MAGIC).
   9. Drawings will be electronically prepared by licensed land surveyor. Contractor shall coordinate directly with land surveyor on Record Drawing production and data collection.
   10. Provide one electronic copy of Record Drawings to Owner

G. Submit documents to Engineer prior to substantial completion.

H. Failure to keep record drawings up-to-date as the construction progresses shall be grounds for denial of payment.

1.06 PRODUCT WARRANTIES AND PRODUCT BONDS

A. Obtain warranties and bonds executed in duplicate by responsible subcontractors, suppliers, and manufacturers, within ten days after completion of the applicable item of work.

B. Execute and assemble transferable warranty documents and bonds from subcontractors, suppliers, and manufacturers.

C. Verify that documents are in proper form, contain full information, and are notarized.

D. Co-execute submittals when required.

E. Provide Table of Contents and assemble in 3-D side ring binder with durable cover.

F. Submit prior to final Application for Payment.

G. Time of Submittals:
   1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within 10 days after acceptance.
   2. Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.
   3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within 10 days after acceptance, listing the date of acceptance as the beginning of the warranty or bond period.

1.07 ADJUSTMENT OF ACCOUNTS

A. Submit final statement of accounting, reflecting adjustments to Contract Price:

B. Original Contract Price.

C. Additions and deductions resulting from:
   1. Previous Change Orders.
   2. Allowances.
   3. Unit prices.
   4. Deductions for uncorrected Work.
   5. Penalties and bonuses.
   6. Deductions for liquidated damages.
   7. Deductions for reinspection payments.
   8. Other adjustments.

D. Total Contract Price, as adjusted.

E. Previous payments.

F. Sum remaining due.

G. Engineer will issue final Change Order, reflecting approved adjustments to Contract Price not previously made by Change Orders.

1.08 APPLICATION FOR FINAL PAYMENT

A. Submit Application for Final Payment in accordance with procedures and requirements in conditions of Contract.

PART 2 PRODUCTS

NOT USED

PART 3 EXECUTION

NOT USED

END OF SECTION

PART 1 GENERAL

1.01 SUMMARY

A. It is the intent of this section to provide technical information for structural renewal of a gravity storm or sanitary sewer pipe or main by installing a polyurethane hybrid liner system. This section covers work, materials, and equipment required to spray apply this polyurethane hybrid material to a thickness required to produce a new structural pipe within existing pipe or culvert to be renewed.

B. This section of these specifications establishes minimum standards for surface preparation, cleaning, liner material application, and testing of proposed liner system.

1.02 SUBMITTALS

A. Contractor shall submit technical data sheets on each product to be used on new structural liner, including applicable ASTM test results indicating product conforms to and is suitable for its intended use per these specifications.

B. Material Safety Data Sheets (MSDS) for each product used.

C. Contractor shall submit any technical data sheets and project specific data for repair materials anticipated to be used in preparation of existing wall structure prior to application of lining system. At a minimum will be included proper surface preparation, application, and cure time required prior to application of specified lining system described further herein.

D. Provide samples of cured system in 2” x 3” coupons at project required mil thickness.

E. Installation Qualifications:
1. Manufacturer and Contractor specializing in performance of work specified in this section with a minimum of three (3) years documented experience and 35,000 square feet of application.
2. Five (5) references of municipal sanitary sewer or storm sewer projects successfully performed within past three years for projects similar in size and scope.

1.03 QUALITY ASSURANCE

A. Coating material shall be produced in an ISO 9001 certified facility.

B. Furnish materials of quality required by applicable ASTM standards or other approval standards listed herein.

C. Coating products shall be capable of being installed and subsequently cured properly within specified environmental conditions on subject project site. This implies that said coating product(s) shall be resistant to all forms of chemical or bacteriological attack normally found in municipal sanitary sewer or storm sewer systems and being capable of adhering to prepared substrate and/or repair products used.

D. Repair product(s) shall be fully compatible with coating product(s) including ability to bond effectively to host substrate and coating product(s) forming a composite system.

E. Contractor shall utilize equipment for spray application of coating product which has been previously approved by coating product manufacturer; and Contractor shall have received training on operation and maintenance of said equipment from coating product manufacturer.

F. Contractor’s installation personnel shall be trained by, or have their training approved and certified by, coating product manufacturer for handling, mixing, application and inspection of coating product(s) to be used as specified herein.

G. Contractor's installation personnel shall be trained in use of testing or inspection equipment and knowledgeable of proper use, preparation, and installation of coating products to be used as specified herein.

H. Provide guarantee against defective materials and workmanship in accordance with requirements of these specifications.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Moisture damage and/or contamination of materials shall be prevented during their delivery and handling.

B. Materials shall be stored in undamaged condition with seals and labels kept intact as packaged by manufacturer. Additionally, liquid products shall be protected from freezing while being stored in temperature range specified by manufacturer.

1.05 DEFINITIONS

A. Cleaning: Removal of sand, dirt, roots, grease and all other solid or semi-solid material from structures as required for proper application of patching and coating products.

B. Faults: Leaking joints, cracks, breaks or other imperfections in structure.

1.06 JOB CONDITIONS

A. Environmental Requirements:
1. Do not apply repair or lining materials when surface and ambient temperatures are outside temperature ranges required by Manufacturer. Do not apply products of this Section to frozen surfaces.
2. Do not apply coatings during rain or snow, or when relative humidity is outside humidity ranges required by Manufacturer.

B. Protection:
1. If there is potential for endangerment to public during progress of rehabilitation work, Contractor shall provide adequate protective measures to ensure safety of any pedestrian and vehicular traffic on nearby streets and walkways.
2. Contractor shall protect any existing structures from damage due to operations associated with work of this section.
3. It is responsibility of Contractor to provide appropriate protective measures to ensure that chemicals are always under control of Contractor and are not available to any unauthorized personnel or animals.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Subject to compliance with requirements stated herein, manufacturers that may be used include:
1. OBIC, LLC., or
2. Approved equal.

2.02 PROTECTIVE STRUCTURAL LINING SYSTEM MATERIALS

A. Protective lining system shall be OBIC 1200 material or approved equal.

2.03 LINER SYSTEM

A. 100% solids, no volatile organic compound (VOC), Structural Polyurethane Hybrid coating to provide infiltration and corrosion protection as well as a semi-structural liner equivalent to a pipe within a pipe.

Material shall be capable of curing properly given project site conditions and temperatures conforming to the following minimum physical requirements:

Property	Value
Hardness, D-2240	70D
Tensile strength, D-412	4,200 psi
Ultimate elongation, D-412	20 %
Flexural modulus D-790	93,000 psi
Flexural strength D-790	10,500 psi
ASTM G210 SWAT	Pass

PART 3 EXECUTION

3.01 SURFACE PREPARATION

A. Contractor shall conduct a surface preparation program to include monitoring of sewer atmosphere for hydrogen sulfide, methane, low oxygen or other gases, approved flow control equipment, and surface preparation equipment.

B. Surface preparation methods on metallic (i.e., steel) piping may include high pressure water cleaning, hydro blasting, abrasive blasting, grinding, detergent water cleaning, or steam cleaning, which shall be suited to provide a surface compatible for installation of polyurethane liner system.
   1. Oil and grease removal where required shall consist of using a solvent cleaning methodology as per SSPC-SP1.
   2. Minimum surface preparation is a Near White Metal Blast Cleaning per SSPC-SP10/NASE 2. All surfaces shall be blasted clean using sharp, angular abrasive for and optimum surface profile (3 mils / 75 microns) for mechanical bonding of polyurethane liner. Bare steel shall be primed same day as it is cleaned or before flash rusting occurs, as required.

C. After defects in existing pipe structure are identified, repair all leaks with a chemical or hydraulic sealant designed for use in field sealing of ground water. Severe cracks shall be “repaired with a urethane-based chemical” sealant. Product to be utilized shall be approved by Owner/Engineer prior to installation. Repairs to exposed rebar, defective pipe penetrations or inverts, etc. shall be repaired utilizing non-shrink grout or approved alternative method. Corroded rebar shall receive a corrosion preventative or rust converter primer that penetrates deep into metal to prevent existing rust from spreading or future rust from forming on rebar.

3.02 REPAIR MATERIALS

A. Repair materials shall be used to fill voids, structurally reinforce and/or rebuild surfaces. Repair materials shall be compatible with polyurethane hybrid coating and shall be applied in accordance with manufacturer’s recommendations.

B. Subject to compliance with polyurethane hybrid coating manufacturer’s requirements, following products shall be acceptable as compatible repair base coat materials for polyurethane hybrid top coating:
   1. A hydraulic cement and/or plug shall be used to stop active infiltration. Hydraulic cement and plug shall be suitable for polyurethane hybrid top coating and shall be approved by polyurethane hybrid coating manufacturer.
   2. Hydrophobic and/or Hydrophilic polyurethane chemical grouts used to stop active infiltration. Chemical grouts shall be suitable for polyurethane top coating and shall be approved by polyurethane hybrid coating manufacturer.

3.03 LINING MATERIAL INSTALLATION

A. Application procedures shall conform to recommendations of manufacturer, including materials handling, mixing, environmental controls during application, safety and spray equipment.

B. Spray equipment shall be specifically designed to accurately ratio and apply liner system.

C. Required minimum wall thickness to be applied shall be determined using design method for bonded liners in Chapter 7 of ASCE Manual of Practice No. 92 or ASCE MOP 145 for condition state I; whichever is greater. Long-term material properties used therein shall be as determined using ASTM D2990.

D. Maximum thickness applied per pass shall be 0.25". Subsequent passes shall be made until required finished thickness is achieved.

3.04 QUALITY ASSURANCE AND ACCEPTANCE

A. Final liner system shall be completely free of pinholes or voids. Liner thickness shall be minimum value as determined herein.

B. Engineer may, at his/her discretion, survey finished liner to determine that liner is securely bonded to wall surface of lined structure. This shall be done by utilizing tapping of a hammer to determine location and size of any unbonded areas which shall subsequently be marked. Depending on size and frequency of these unbonded areas, Engineer may require an adhesion test be run on these areas using ASTM D7234 for concrete and brick pipes. If adhesion test pulls existing structure's substrate with it, liner shall be considered bonded. For metal pipes, adhesion shall be evaluated using ASTM D4541.

C. If stress level required to pull bonded liner off of existing wall surface is less than two (2) times external hydrostatic pressure used in liner's wall thickness design a design reconciliation shall be required to determine new needed minimum thickness. Cost of engineering and additional liner thickness shall be paid for as a change in conditions of contract.

D. Finished liner, when required by Engineer, shall be inspected for pinholes or breaches using a high-voltage holiday detection instrument as described in ASTM D5162 for ferrous material (steel) pipes and ASTM D4787 for non-ferrous material (concrete and brick) pipes. Any deficiencies in the finished liner system shall be marked and repaired according to procedures set forth by Manufacturer.

E. Measurement for payment will be made at unit price based on number of feet of finished liner installed.

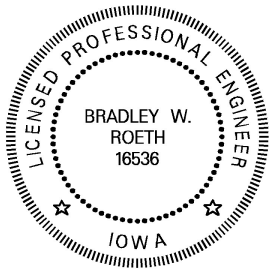
END OF SECTION

MUSCATINE POWER AND WATER

STANDARD SPECIFICATIONS
FOR
WATER DISTRIBUTION SYSTEM IMPROVEMENTS

Board of Water, Electric, and Communications Trustees
of the City of Muscatine, Iowa

2023



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

11/29/2023

Bradley W. Roeth — Date

License Number: 16536

My license renewal date is December 31, 2024

Pages or sheets covered by this seal:
Specification

MUSCATINE POWER AND WATER
3205 CEDAR STREET
MUSCATINE, IA 52761
NOVEMBER 2023

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1.1 GENERAL REQUIREMENTS

A. Standard Specification covers construction, connections to, and repairs made on Muscatine Power and Water's (MPW) water distribution system.

B. Standard Specification is intended to cover installations by both MPW in-house personnel and outside contractors and serve as a guide for design of water main improvements for MPW's water system.

C. Questions regarding interpretation or changes to the Standard Specifications should be directed to Manager, Water and Utility Services or MPW's Project Leader at Muscatine Power and Water, 3205 Cedar Street, Muscatine, Iowa 52761.

D. Standard Specification is on file at the offices of the Iowa Department of Natural Resources (IDNR) in Des Moines, Iowa.

E. Any exceptions or modifications to Standard Specifications for specific projects shall be made in writing. Should these specifications contained herein conflict with SUDAS, then this specification shall be the prevailing standard/specification.

F. Unforeseen circumstances or conditions encountered during construction must be reported to MPW Manager, Water and Utility Services or MPW's Project Leader immediately.

G. No water main extensions or services tapped from MPW owned facilities will be permitted without prior approval by MPW.

1.2 DESIGN STANDARDS

A. Fire Protection: Water distribution system shall be designed in accordance with the grading schedule for Municipal Fire Protection recommended fire flows by the Insurance Service Offices and 10 States Standards. Fire protection shall be as shown on Insurance Services Office Table 5 (see Table 1 below).

Table 1. Insurance Services Office Table 5

Location or Type	Domestic Flow	Fire
Residential:		
1. Single Family-Detached	100 gpcd	1,500 gpm
2. Single Family-Attached (Townhome)-with approved firewall	100 gpcd	2,000 gpm
3. Multifamily	100 gpcd	3,000 gpm
Office	50 gpcd	3,000 gpm
Commercial	60 gal/ emp/shift	6,000 gpm
Industrial	75 gal/ person/shift	6,000 gpm

Flow shall be calculated using a "C" factor of 100, ignoring fittings, and with a minimum residual pressure of twenty (20) psi.

B. Hydrant Location: Hydrants shall be spaced not more than 400 feet apart in single family residential districts and no more than 300 feet or about one city block apart in other districts. Spacing may vary slightly to allow placement of fire hydrants on extensions of property lines.

C. Valve Spacing: Valves shall be installed so that not over 800 feet of water main, with services, will be shut off at any time. Transmission mains with no services shall have valves located so that not over 1200 feet of main will be shut off at any time.

D. Bury Depth: All waterlines shall be buried with a 5'-0" bury depth to the top of pipe unless otherwise designed and approved by MPW. Where conflicts occur with other utilities not identified on the plans Contractor shall obtain approval from MPW for recommended bury depth.

1.3 PERMITS

A. Plans for water main extensions or modifications prepared by engineering personnel other than MPW's shall be submitted to MPW for design review, approval, and IDNR permitting before the work is bid.

B. Permits for utilizing or crossing IDOT, County, Railroad, and other utilities' right of way/easements will be acquired by MPW unless otherwise noted in the Water Main Extension Agreement or the Detailed Specifications for the Project.

C. Contractor shall obtain Street Excavation Permits and Street Closure Permits from the City of Muscatine's Building and Zoning Department at Muscatine's City Hall located at 215 Sycamore Street, Muscatine, Iowa 52761.

D. Storm water permitting will be acquired by contractor unless otherwise noted in the Water Main Extension Agreement or the Detailed Specifications for the Project. Costs of compliance with requirements of storm water permit will be handled by contractor unless otherwise outlined in the Water Main Extension Agreement or in the Detailed Specifications for the Project.

1.4 CODES AND STANDARDS

A. In the event of a conflict between codes and standards, the one establishing the more stringent requirements shall be followed (10 States, AWWA, or SUDAS (current year)).

B. The following standards and specifications are used in or referred to in this Standard Specification:

1. American Water Works Association (AWWA).
2. 10 States Standards (above all for fire flow and design).

3. SUDAS (current year)

4. Occupational Safety and Health Act of 1970, as amended (OSHA).

5. American National Standards Institute (ANSI).

6. Iowa Department of Health.

7. Iowa Department of Transportation (IDOT).

8. Iowa Department of Natural Resources (IDNR).

9. American Society for Testing and Materials (ASTM).

10. City of Muscatine, Iowa, Codes and Standards.

11. Muscatine Power and Water's rules and regulations as outlined in WATER CUSTOMER SERVICE HANDBOOK.

12. Muscatine Power and Water's current "Backflow Prevention Policy".

13. Steel Structures Painting Council (SSPC).

C. The most current versions or updates of the above specifications are to be used unless otherwise noted in the Detailed Specifications for the Project.

D. Copies of all codes and standards referenced in these Standard Specifications are on file for review at the offices of Muscatine Power and Water, 3205 Cedar Street, Muscatine, Iowa 52761.

1.5 MATERIALS

A. Pipe Types: Pipe, joints and couplings (as applicable) shall be legibly and permanently marked with critical information including: nominal pipe size, pressure class, dimensions ration, applicable conformance standards (e.g. ANSI / AWWA / ASTM), manufacturer's name, production record code, seal or mark of testing agency verifying suitability of pipe material for potable water service and for use in fire protection systems (e.g. UL / FM / NSF, as applicable.

All water main distribution pipe shall be 6 inches in diameter or larger. Where the distribution system is significantly looped then 6-inch diameter pipe is the minimum standard in residential areas. For dead end water mains 8-inch diameter is the minimum acceptable pipe diameter in residential areas. Where fire flows larger than 1,500 gpm then larger pipe diameter will be required and shall be specified on the plans.

1. Ductile iron water main pipe (DIP). DIP pipe shall be used for all pipes larger than 12 inches in diameter unless alternate materials are shown on the Drawings. DIP pipe may be used for pipe 12-inches in diameter and smaller. DIP shall conform to ANSI/AWWA C151/A21.51. Pipe shall be cement-mortar lined in accordance with ANSI/AWWA C104/A21.4.53. Thickness design of pipe shall conform to ANSI/AWWA C150/A21.51. Pipe shall be manufactured with a bituminous coal tar base exterior coating system not less than 1 mil thick in accordance with AWWA C-151/ANSI A-21.4.

Nitrile gaskets shall be provided for water main construction unless noted and approved by MPW. No exceptions are allowed where it is determined that hydrocarbon contamination is present.

All pipe and pipe joints shall be push-on, restrained or mechanical as required by the design and shall conform to ANSI/AWWA C111/A21.11 unless otherwise designed and approved by MPW. Pipe shall be minimum Class 52 unless specified otherwise on the Plans or in the Detailed Specifications for the Project.

2. Polyvinyl Chloride Pipe (PVC): PVC may be used for all pipe 12-inches in diameter and smaller, in accordance with the Project Documents. All pipe shall be manufactured in accordance with AWWA C900. Pipe joints shall be bell-and-spigot, push-on type with integral elastomeric gasket, in conformance with ASTM D3139 and ASTM F477. Pipe minimum wall thickness shall be DR18.

Pipe shall be homogeneous throughout and free of visible cracks, holes, foreign material blisters, and other visible deleterious faults. Pipe shall be manufactured from rigid polyvinyl chloride compound with cell classification 12454-B as defined in ASTM D-1784. Normal laying length is 20 feet.

PVC pipe shall not be permitted in identified LUST sites where possible hydrocarbon contamination may occur.

3. Restrained Joint Polyvinyl Chloride Pipe (RJ-PVC). RJ-PVC may be used for pipe 12-inches in diameter and smaller, in accordance with the Project Documents and as approved by the Engineer. All pipe shall be manufactured in accordance with AWWA C900. Pipe joints shall be non-metallic mechanically restrained elastomeric bell-and-spigot joints of either coupled or integral bell type in conformance with ASTM F-477 and AWWA C-900. Pipe minimum wall thickness shall be DR18.

Pipe shall be homogeneous throughout and free of visible cracks, holes, foreign material blisters, and other visible deleterious faults. Pipe shall be manufactured from rigid polyvinyl chloride compound with cell classification 12454-B as defined in ASTM D-1784. Normal laying length is 20 feet.

RJ-PVC pipe shall not be permitted in identified LUST sites where possible hydrocarbon contamination may occur.

4. High Density Polyethylene water main pipe (HDPE): High density polyethylene (HDPE) pipe and fittings shall conform to ANSI/AWWA C906-15. Any deviations in material or workmanship including fusing shall be rejected if it does not conform with C906-15.

HDPE pipe shall be ductile iron pipe size with black with two blue stripes. Wall thickness shall be DR11 unless specified differently on the plans. HPDE pipe will be permitted on a case-by-case basis to be approved by MPW. HDPE shall not be permitted in identified LUST sites where possible hydrocarbon contamination may occur.

5. Mechanical Joint Restrained Joints: Full body style, ductile iron radial type bolt retainer glands for mechanical join applications design for respective pipe material being used and for MJ fittings and valves. Split-ring retainer glands will not be permitted on new construction except under special circumstances. All glands shall be of uniform thickness and utilize a standard MJ gasket and match standard MJ bold circle, using 304/316 SS bolts and nuts (Teflon coated) required for installation.

Acceptable mechanical joint restraint styles include EBAA IRON INC. 1100, 1100SD, or 1100HD Series MEGALUG Mechanical Joint Restraints.

6. Other Restraints: Tie rod system or assembly is subject to MPW's approval. Tie rods shall be no less than 3/4-inch diameter threaded steel coated with two coats of coal tar epoxy paint or approved spray on bituminous automotive undercoating material.

7. Casing Pipe: Steel casing for bored and jacked steel casings shall conform to SUDAS 3020, with a minimum 3/8” thickness, except as noted below.

a) Casing Spacers: Casing spacers shall be specifically manufactured for installation of ductile iron water main in steel casings. Spacers shall be able to remain securely fastened to the water main during installation of water main in the casing. Choice of casing spacers is subject to MPW’s approval. Preferred supplier: Powerseal Model 4810.

b) End Seals: End seals for steel casings shall be rubber, HDPE or neoprene wrap around type with stainless steel bands manufactured for that specific purpose and sized accordingly. Choice of end seals is subject to MPW’s approval. Preferred supplier: Powerseal end seals.

B. Pipe Fittings: Ductile iron fittings shall conform to ANSI/AWWA C110/A21.10 (full-body) and ANSI/AWWA C153/A21.53 (compact). Fittings shall be cement-mortar lined in accordance with ANSI/AWWA C104/A21.4.95. For pipes with a nominal diameter 4 inches and larger fittings shall be mechanical joint or as specified by the specific Plans for the Project. Bolts, nuts, and washers shall be stainless steel or high strength low alloy Cor-ten Blue.

HDPE pipe fittings for new construction shall conform to ANSI/AWWA C906-15 and be heat fused. When restrained mechanical joints are specified for HDPE pipe Mueller AquaGrip or Engineer approved equal shall be provided.

C. Tapping Sleeves: Tapping sleeves for ductile iron or PVC water main pipe taps shall be stainless steel per ASTM A-240, fully enclosed tapping sleeve, full wrap gasket, full flange, and stainless-steel bolts and nuts with 3/4-inch NPT test plug with stainless plug. Approved tapping sleeve styles include JCM-432, Ford-FTSS, Mueller-H-304 or approved equal with nitrile gasket.

D. Valves and Valve Boxes:

1. Gate Valves: All gate valves shall conform to AWWA C509. Acceptable manufacturer is Mueller. Gate valves shall meet the following specific requirements: Resilient seated wedge type. Manufacturer-tested to 500 psig, 250 psig working pressure, turn clockwise (right) to open, epoxy coated (triple dipped). Stainless steel bolts in the bonnet, bi-directional flows and flat bottom for handling, brass trim, triple O-ring seal on stem and O-ring seal on bonnet with the top two replacements with valve open, non-rising stem with 2-inch square wrench nut with notification washers made from polymer, all bolts to be stainless steel.

2. Butterfly Valves: Butterfly valves shall only be used in special circumstances and shall conform to AWWA C504. Butterfly valves shall meet the following specific requirements: Steel adjusting packing, stainless shaft. stem with 2-inch square wrench nut, turn clockwise (right) to open, epoxy coated, all bolts to be stainless steel, domestic preferred.

3. Tapping Valves: Tapping valves shall be fully open style to accommodate MPW's tapping machine (MJ to mechanical joint). Tapping valves can be MJ x MJ if using the Ford FTSS sleeve with MJ outlet. Approved application is MJ x MJ gate valve with the Ford FTSS sleeve with MJ outlet.

4. Valve Boxes: Valve Boxes shall be domestic only, heavy duty, Tyler 664S or East Jordan with centering ring or approved equal. Cover shall have the word "WATER" cast into the cover. Provide 5'-0" standard length unless specified otherwise.

5. Extension Stems: Extension stems shall be provided for buried valves when the operating nut is more than 5’-6” below finished grade. Each extension stem for a buried valve shall extend to between 5’-0” and 5’-6” of the ground surface, no exceptions will be allowed, and shall be provided with spacers, which center the stem in the valve box, and shall be equipped with a 2-inch wrench nut painted red.

E. Fire Hydrants: Fire hydrants shall conform to AWWA C502. All hydrants shall be Mueller Super Centurion or Waterous Pacer meeting the following specific requirements: 6-inch mechanical joint connection, direction to OPEN shall be clockwise (right), nozzles: two 2-1/2-inch hose nozzles, one 4-1/2-inch pumper nozzle, nozzles to be National Standard Thread (NST) style, O-ring packing nitrile, suitable for 5'-0" depth of cover unless specified otherwise on Plans. Valve opening of 4-1/2 inch, automatic drain valve to drain hydrant barrel when main valve is closed. Operating nut shall be National Standard 1 inch square, oversized mechanical joint shoe, epoxy coated bowl. All underground parts shall be constructed of ductile iron with Stainless steel bolts. Shall include 1” washed rock around the drips in the hydrant.

Exposed hydrant body shall be factory primed painted white and buried portion shall have top coats black.

F. Tracer Wire: All tracer wire components for water main pipe shall be Copperhead brand, blue polyethylene jacketed direct bury type.

1. Open-Cut Installation: use number 12 superflex part number\1230B-SF-500’, 1,000’, 2,500’ with a 45 mil coating.

2. Horizontal Directional Drill Installation: #12 ccs Extra high strength – Blue – “Soloshot” – for HDD, part number 1245B-EHS-500’, 1,000’, 2,500’ with a 45 mil coating.

Tracer wire splices shall be Copperhead Industries LLC tracer wire. Dry-con connectors – 3WB-01-Blue, 3-way direct bury lug connector. Snake Pit Trace Wire Boxes – RP14*TP for roadway, LD14*TP – Adjustable for light duty. Copperhead 1 lb. magnesium anode used on dead-end trace wires. Cobra Test Station for service ends, T3-B75, Blue or approved equal for all Tracer wire parts.

G. Gravel Backfill: Gravel for drainage shall be clean washed gravel 3/4 inch to 1-inch size without fines or standard washed pea gravel.

H. Corrosion Protection: All ductile iron pipe, fittings and buried hydrant barrels shall be protected from corrosive soils by wrapping with NLT 10-mil thick polyethylene tubing or sheeting conforming to ANSI/AWWA C105/A21.5. The poly-wrap shall be secured around the pipe with 2-inch wide by 10-mil thick tape supplied by the poly-wrap manufacturer.

I. Insulation: Insulation shall be required where water main pipe is within 4 feet of the ground elevation. Above ground: insulation shall be Pittsburg Corning Foamglas with Pitwrap. Insulation thickness shall be as shown on the Plans, no less than 5 inches thick. Bells will be covered. Below ground: rigid insulation, minimum 2" thick.

J. Services: All new water service piping shall have a minimum 1" nominal diameter from the main to the service meter. During water main replacement projects all services shall be replaced to the meter with approved pipe material if the existing service line is not approved service line material.

Service lines 2 inches in diameter and smaller, but no less than 1" shall be Type K (heavy), soft annealed, seamless copper. Connections to existing service lines (where required) shall be 3 piece compression type, Mueller 110 Conductive Compression Connection. If the main is wrapped with poly-wrap, the service should also be wrapped 3-4 feet from the main. HDPE service lines must be approved before construction.

Tapping pipe saddles shall be as follows:

1. Service Saddle for DIP: Tapping ductile iron or cast iron pipe for 1-1/2 inch and 2 inch sizes shall be JCM 406, ROMAC Style 202NS, Smith Blair 317, Mueller DR2S or Ford FC202 service saddles, nylon or thick epoxy coated with stainless steel straps for use on ductile iron or cast iron pipe. Torque to manufacturer's specifications.

2. Service Saddle for HDPE: Tapping HDPE pipe for 1-1/2 inch or 2 inch sizes shall be JCM 406 or ROMAC 202N-H, nylon or plastic coated with stainless steel straps for use on HDPE pipe and should be supplied with concave or spring washers. Fused saddles can be Integrity of Fischer Brand electrofusion branch saddles.

Corporation and curb stops shall be as follows:

3. Corporation: Mueller No. B-25008, 1" brass. Corporations are provided by MPW unless otherwise specified in Detailed Specifications for Project. Lead free brass.

4. Curb Stops: Lead free brass Mueller H-10314 curb stop valve, Mueller or AY McDonald boxes and valve with 5' long curb box, extension type – arch pattern base, one piece lid with rod, upper section lid to be two-hole style.

K. Backflow Prevention: Backflow prevention devices shall conform to requirements of MPW's current "Backflow Prevention Policy" and MPW's current "Customer Service Handbook". Check with MPW's Metering Department for latest updates of both documents.

L. Concrete: Concrete shall be air entrained with a minimum 28-day compressive strength of 4000 psi. In instances where high early strength is desirable as in cases where it is desirable to open roadways sooner to traffic or to shorten maintenance time for traffic control signage and barricades for street cuts, IDOT C-4 or M-4 mix shall be used. For thrust blocks, a minimum of 24 hours for cure time on M-4 is required prior to pressure testing.

M. Seeding, Fertilizer and Mulch: The rates of seed, fertilizer, and water applications required by this Subsection M are minimums, and the Contractor shall be solely responsible for the establishment of 70% grass coverage of all unpaved or otherwise uncovered areas of soil within the limits of the Project or disturbed soil by the Contractor. Additional labor, materials, equipment and incidentals to establish the 70% coverage shall be subsidiary to the pay items

"Seeding and Fertilizing".

All areas which have been disturbed by the Contractor during construction shall be graded and shaped to the grades shown on the Drawings, and shall be finished with 6 inches of topsoil provided by the Contractor and approved by the Engineer. Topsoil may be either material selected from the site or imported material. shall be the following:

1. Fertilizer: Fertilizer to be seed starter 13-13-13 or 15-15-15. Fertilizer is to be applied at a rate of 50 pounds per 4000 square feet.

2. Seed: Seed mix to be equal parts Kentucky Bluegrass, Fescue and perennial rye. Seed mix is to be applied at rate of 5 pounds per 1000 square feet.

3. Mulch: Mulch to be clean straw pinned in place over all seeded areas. Straw mulch is to be applied at rate of one 40 pound bale per 600 square feet.

An equivalent hydro seeding application may also be considered.

1.6 SUBMITTALS

A. All shop drawing submittals shall include a standard transmittal form.

B. Shop drawing submittals shall be in PDF format for all submittal items required in the Detailed Specifications for the Project.

C. Contractor shall submit manufacturer's catalog data for all items to be used in constructing the Project, one electronic Adobe .pdf file.

D. Contractor shall submit certificates from manufacturers evidencing compliance with standards listed in this Standard Specification and as listed in the Detailed Specifications for the Project.

1.7 TRAFFIC CONTROL

A. Traffic control shall be coordinated with City of Muscatine Police and Engineering Departments or the Iowa Department of Transportation as appropriate.

B. Traffic control shall meet the requirements of IDOT “Work Zone Safety Guidelines for Utilities”, current edition and MUTCD.

1.8 INSPECTION AND TESTING

A. Construction Inspection: Construction will be inspected by MPW's Project Leader or other designated representative. No pipe or appurtenances shall be buried prior to final approval by MPW or MPW Representative. All change orders must be processed in writing through the Project Leader.

B. Compaction Testing: In place density testing for compaction shall be conducted for water main installation under a roadway. If the water main installation is installed during a road improvement project the compaction testing may be completed by another Contractor. Compaction testing is not required when the water main is installed 10’ or more outside of the roadway unless stated otherwise on the Plans or in the Detailed Specifications for the Project. In the event of a disagreement as to whether the compaction requirements have been met when no testing is required, the Contractor shall enlist the services of an MPW-approved independent soil testing company to make field tests as necessary to establish compliance with this Standard Specification. Contractor shall pay costs of all failing tests and MPW shall pay costs of all passing tests. Costs of laboratory determinations will be divided between Contractor and MPW based on percentage of field tests each is responsible to pay for. Moisture density testing shall conform to ASTM D1557. Field density tests, when required, shall be performed as directed by MPW's Project Leader. A minimum of one test shall be taken every 300 feet along the trench for each 8-inch lift or layer of backfill material. Field density tests shall conform to ASTM D1556.

C. Concrete Testing: One set of four concrete test cylinders shall be taken for each concrete pour. Cylinders will be retained by MPW and broken if a question arises as to the strength of the concrete provided. Each cylinder shall be provided with a tag giving the date, time, location and strength requirements specified for the Project. Tag to be taped to each cylinder with several wraps of fiber packing tape.

D. Material Inspection: All pipe and appurtenances are subject to inspection by MPW at the point of delivery. Material found to be defective due to manufacture or damaged in shipment shall be rejected or recorded on the bill of lading and removed from the job site. MPW may perform tests as specified in the applicable AWWA standard to ensure conformance with the standard. In case of failure of the pipe or appurtenance to comply with such Specifications, responsibility for replacement of the defective materials becomes that of the Contractor.

E. Filling and Flushing: Pipe and appurtenances to be tested shall be filled slowly with potable water. After filling, lines shall be flushed at blow-offs and dead-ends at a minimum velocity of 3.0 feet per second in the pipeline to be tested (refer to AWWA C651-14 Table 3 for required flow and openings). Flushing shall be carried out until turbidity-free (< 5 NTU or system ambient values) water is obtained from all points along the main. Certain contaminants resist flushing at any feasible velocity and pigging of the main may be required. A special pipeline pig may be required when the required flushing velocity cannot be achieved or when needed to conserve water during water use restriction period or to remove cake deposits or to prevent erosion damage, nuisance or traffic interruption, as directed by the Engineer.

F. Pressure and Leakage Testing: Pressure test after initial flushing of line and before bacteriological testing has commenced. An MPW's Representative shall be present at the beginning and end of each pressure test. MPW shall be notified of the time of the test a minimum of 24 hours prior to the test. MPW's Representative shall record the test pressure at 30-minute intervals. The duration of the pressure test shall be a minimum of two hours and cannot commence until MPW's Representative records the initial test pressure. The pipeline shall be allowed to stabilize at the test pressure before conducting the hydrostatic test.

1. Before applying the specified test pressure, air shall be expelled completely from the pipe, valves, and hydrants. After all the air has been expelled, all corporation cocks shall be closed and the test pressure applied. At the conclusion of the pressure test, the corporation cocks shall be removed and plugged or left in place as directed by MPW.

2. All exposed pipe, fittings, valves, hydrants, and joints shall be examined carefully during the test. Any damaged or defective pipe, fittings, valves, hydrants, or joints that are discovered during the pressure test shall be repaired or replaced with sound material, and the test shall be repeated until line passes test to MPW's satisfaction.

3. All make up water and make up water containers and pumps shall be cleaned and disinfected with a 6 to 8% chlorine bleach solution.

4. When hydrants are in the test section, the test shall be made against the auxiliary valves of the hydrant.

5. The contractor may be responsible for disinfection of the water main on a case by case basis.

Pressure testing shall be conducted through MPW installed corporations and not through fire hydrants.

The pressure test shall consist of holding a minimum hydrostatic pressure of 150 pounds per square inch for a period of two hours at the lowest elevation of the test section. Test pressure shall not exceed pipe, thrust-restraint, or appurtenances' design pressure at the lowest section of pipeline being tested.

Water mains shall be pressure tested at valved sections, not exceeding 1200 feet in total length. Valves shall not be operated in either direction at differential pressures exceeding the rated valve working pressure.

A two pound test gauge with a minimum capacity of 160 pounds will be required. The test shall conform to the applicable sections of AWWA C-600, AWWA C-605 or AWWA C-906. The hydrostatic test pressure shall not vary by more than +/- 5.0 psig for the duration of the test period. The test pressure shall be maintained within this tolerance by adding make-up water through a metered pressure test pump into the pipeline test segment. The meter on the pressure test pump shall be capable of reading to the nearest 0.10 gallon increment. All make-up water added shall be accurately measured in gallons (and fractions thereof) by suitable methods. The total make-up water added during and at the conclusion of the test period to reach the required test pressure shall not exceed the calculated leakage allowance for the pipeline segment being hydrostatically test as outlined in sections AWWA C-600, AWWA C-605 or ASTM F2164.

CAUTION: Pressurize HDPE pipe in accordance with manufacturer's recommendations. Pressurizing HDPE pipe for testing or placing into service requires additional precautions: Leaks at pressurized fusion joints may immediately precede catastrophic and sudden pipe separation and result in violent and dangerous movement of piping or attached parts and cause a sudden release of piping contents under pressure. Never approach or attempt to repair or stop leaks while pipe is pressurized. Always depressurize pipe before making corrections. Faulty fusion joints cannot be repaired. They must be cut out and rejoined using proper heat fusion procedures.

G. Tracer Wire Inspection: Tracer wires will be tested by MPW for continuity shortly after pressure testing has been completed.

H. Disinfection: At a minimum the standards set forth in AWWA C651 shall be followed excluding the use of calcium hypochlorite granular tablets. Preferred disinfection method is the continuous-feed method for new waterline construction.

A more specific description of the process follows:

Once the pipe section has been slowly filled, the bacterial/disinfection test will be officially started. The test requires the pipe to stand for 24 hours undisturbed after the initial chlorination testing confirms that a minimum of 25 ppm available chlorine is present when using the continuous-feed method. If less than 25 ppm of chlorine is available at initial filling, the test will be considered invalid and pipe must be rechlorinated. After 24 hours the residual will be checked to confirm that not less than 10 ppm of chlorine is available. If confirmed, the pipe can be flushed until the available chlorine is equal to the normal distribution levels and a sample for analysis will be drawn. The pipe shall be isolated again for 24 hours. After 24 hours, the water will be tested a second time to confirm not less than 0.3 ppm of chlorine remains in the main. If confirmed a second sample will be drawn for bacteriological analysis. Failure of any of the above test results will require re-chlorination to the minimum 25 ppm and repeat bacteria testing. All chlorinated water needs to be de-chlorinated by an approved method before it is released to the environment.

The contractor may be responsible for de-chlorination of the water main from high test chlorination on a case by case basis.

I. Bacteriological Testing: MPW will take two bacteriological samples 24-hours apart for in-house analysis after disinfection for each sample location as required in AWWA C651. Contractor shall assist MPW in collecting samples as required. MPW will not place installation into operation until test results from water samples taken test out satisfactory. One set of bacteriological tests shall be collected from every 1,200 foot section of new water main, plus one set from the end of the line and at least one set from each branch.

For any failed bac-t test, the IDNR must be notified by MPW lab staff.

All pressure testing and bacteriological tests shall be completed prior to the installation of service lines.

1.9 LOCATING BURIED UTILITIES

A. Contractor shall contact the Iowa One-Call system at 1-800-292-8989 for locations prior to doing any excavating (48 hour notice required).

B. All utility crossing shall be exposed by pot-holing or day-lighting prior to crossing with underground drilling equipment, HDD, moles, etc.

1.10 PROTECTION OF EXISTING FACILITIES

A. Contractor shall exercise care to assure that all private and publicly owned facilities, buildings, poles, wires, walkways, roadways, and other items near the construction area and not shown as removal items on the Plans are protected so they are not damaged or destroyed.

B. Contractor shall repair or replace all damaged items.

1.11 WORK BY MPW AND COORDINATION WITH MPW

A. Contractor shall coordinate activities with MPW so that disturbances to normal utility water system operations are minimized. Contractor shall provide a minimum 24-hour notice to MPW to allow adequate scheduling of men and equipment. Contractor shall assume all responsibility for costs incurred due to the lack of 24-hour notice to MPW. MPW must be notified at least 3 working days before a scheduled water outage to allow time for customer notification.

B. Operation of all valves and hydrants during charging of main, pressure testing, disinfection and bacteria testing shall be by MPW unless MPW specifically directs otherwise.

C. MPW will provide tapping and corporations up to 2-inch size required for blowing off air and making pressure tests to line segments installed. On contracts for developers, costs for this work are to be paid by the developer. On in house contracts let by MPW, costs for this work will be paid by MPW and not billed to contractor.

D. Tapping of existing water mains with taps of up to 12-inch size will be done by MPW unless otherwise noted in Detailed Specifications for the Project. On contracts for developers, costs for this work are to be paid by the developer. On in house contracts let by MPW, costs for this work will be paid by MPW and not billed to contractor.

E. MPW will hold electrical poles where necessary for construction if construction is within MPW's electrical service area. Contractor shall provide a minimum 24-hour notice to MPW to allow adequate scheduling of men and equipment. On projects contracted by Muscatine Power and Water there will be no charge to Contractor for this service. On all other projects, Contractor will be billed for this service. Contractor will be responsible for the coordination and fees charged by utilities for this service outside MPW's electrical service area.

1.12 TRENCH EXCAVATION

A. Trench excavations shall be in compliance with 29 CFR Part 1926 OCCUPATIONAL SAFETY AND HEALTH STANDARDS-EXCAVATIONS.

B. Sheeting, shoring, bracing, and trench boxes shall be of an OSHA approved design and certified in accordance with current OSHA rules and regulations. Sheeting and shoring materials shall be removed in a manner that avoids damage or disturbance to the work completed or adjacent structures or pavements. Trench boxes shall be lifted prior to moving forward to prevent displacement of pipe in place.

C. Compact light weight trench boxes or shoring shall be required in front yard stop box replacements for contractor’s safety and to minimize disturbances to lawn, sidewalk and parking areas.

D. Excavation depth to provide a minimum 5'-0" cover over top of pipe.

E. Trench width shall be ample to permit the pipe to be laid and joined properly but should be no more than 12 inches on either side of the pipe. Keep walls of trench vertical below top of pipe.

F. Level trench bottom to provide uniform bearing and support for full length of the pipe barrel. Provide bell holes for each pipe joint. Stones found in the trench shall be removed for a depth of at least 6 inches below bottom of pipe.

G. If soft, spongy, or otherwise unsuitable materials are encountered which do not provide suitable bedding or support for the pipe, Contractor shall notify MPW's Project Leader or designated representative immediately.

If removal of unsuitable material is authorized, contractor is responsible for removal of material.

Contractor shall replace unsuitable materials with MPW approved crushed stone, sand, or manufactured sand as appropriate. New materials shall be placed and compacted in accordance with backfill portion of this Standard Specification.

H. All pipe installations shall be conducted only in dry materials. Contractor shall take such steps as are necessary to prevent surface and ground water from flowing into the excavation. Remove all accumulated water by pumping or dipping with equipment bucket.

I. Dewatering systems, if required, shall be subject to MPW's approval and shall remain in place until construction work and testing have been completed.

J. Removal of pavement and road surfaces shall be a part of the trench excavation. Pavement removal shall conform to City of Muscatine Public Works requirements. MPW requires concrete removal to be accomplished using a hydraulic system such as a jack hammer on a backhoe attachment.

1.13 BACKFILL AND COMPACTION

A. Backfill shall not proceed until water main installation, thrust blocking, or thrust restraints have been inspected and approved by MPW's Project Leader or designated representative.

B. Backfill materials shall be suitable soils from trench excavation or from a borrow area approved by MPW's Project Leader. Suitable materials shall be free of debris, small stones, rock, roots, lumps, frozen materials or any other items that will prevent placing and compacting the material to the density required.

C. Backfill under or within 10 feet of the edge of roadways or parking areas shall be manufactured sand compacted in accordance with this Standard Specification.

D. Backfill materials shall be approved by MPW's Project Leader prior to placement.

E. Backfill shall be placed on both sides of pipe simultaneously to prevent displacement. Place backfill in successive horizontal lifts of not more than 8 inches loose depth. This depth may be adjusted if it can be shown that required compaction can be achieved utilizing a different layer thickness. Backfill shall be placed and compacted using equipment 18 inches above top of pipe. Refer to Attachment 5 for more details.

F. Place material at proper moisture content for obtaining specified density.

G. Compaction requirements are as follows:

1. Areas beneath or within 10 feet of edge of roadways or parking areas shall be compacted to 95 percent of maximum dry density as determined by ASTM D1557.

2. All other areas shall be compacted to 90 percent of maximum dry density as determined by ASTM D1557.

3. Method of compaction is subject to MPW's approval.

H. “Flooding” or “jetting” of backfill trench is not an acceptable compaction method or process and will not be approved.

1.14 PIPE AND MATERIAL HANDLING AND STORAGE

A. All pipe, fittings, valves, hydrants, and accessories shall be loaded and unloaded by lifting with hoists or skidding in order to avoid shock or damage. Under no circumstances shall materials be dropped. Pipe handled on skid ways shall not be rolled or skidded against pipe on the ground.

B. Slings, hooks, or pipe tongs shall be used in such a manner as to prevent damage to the exterior surface or internal lining of the pipe.

C. Stored materials shall be kept safe from damage. The interior of all stored and placed pipe, fittings, and other appurtenances shall be kept free from dirt or foreign matter at all times by use of tight-fitting end plugs or sturdy durable plastic bags or other MPW approved means. Pipe and fittings contaminated with mud and surface water shall be removed from the site and not used in construction unless thoroughly cleaned by the Contractor and inspected and approved by MPW. Valves and hydrants shall be drained and stored in a manner that will protect them from damage by freezing.

D. Gaskets for mechanical and push-on joints shall be stored in a cool location, out of direct sunlight. Gaskets shall not come in contact with petroleum products. Gaskets shall be used on a first-in, first-out basis.

E. Mechanical-joint bolts shall be handled and stored in a dry location in a manner that will ensure proper use with respect to types and sizes.

F. Staging will not occur prior to one week of construction and placed in a neat and orderly fashion.

1.15 PIPE INSTALLATION

A. Ductile iron pipe installation shall conform to the requirements of ANSI/AWWA C600. PVC pipe installation shall conform to the requirement of AWWA C605. HDPE installation shall conform to the requirement of AWWA M55.

B. Proper implements, tools, and facilities shall be provided and used for the safe and convenient performance of the work. All pipe, fittings, valves, and hydrants shall be lowered carefully into the trench by means of suitable tools, rigging and equipment, in such a manner as to prevent damage to water main materials and protective coatings and linings. Under no circumstances shall water main materials be dropped or dumped into the trench. The trench shall be dewatered prior to installation of the pipe.

C. All pipe, fittings, valves, hydrants, and other appurtenances shall be examined carefully for damage and other defects immediately before installation. Defective materials shall be marked and held for inspection by MPW, who may prescribe corrective repairs or reject the materials.

D. All lumps, blisters, and excess coating shall be removed from the socket and plain ends of each pipe, and the outside of the plain end and the inside of the bell shall be wiped clean and dry and be free from dirt, sand, grit, or any foreign materials before the pipe is laid.

E. Foreign material shall be prevented from entering the pipe while it is being placed in the trench. No debris, tools, clothing, or other materials shall be placed in the pipe at any time.

F. As each length of pipe is placed in the trench, the joint shall be assembled and the pipe brought to correct line and grade. The pipe shall be secured in place with approved backfill material. Lay pipe in dry bedding material.

G. At all times when pipe-laying is not in progress, the open ends of pipe shall be closed by a watertight plug or other means approved by MPW. When practical, the plug shall remain in place until the trench is pumped completely dry. Care must be taken to prevent pipe flotation, should the trench fill with water.

H. Cutting pipe for insertion of valves, fittings, or closure pieces shall be done in conformance with all safety recommendations of the manufacturer of the cutting equipment. Cutting shall be done in a safe, workmanlike manner without creating damage to the pipe or cement-mortar lining. All PPE shall be used while cutting, including safety glasses and a shield. Pipe may be cut using a hydraulic squeeze cutter, abrasive pipe saw, rotary wheel cutter or guillotine pipe saw. Cut ends and rough edges shall be ground smooth, and for push-on joint connections, the cut end shall be beveled by methods recommended by the manufacturer and approved by MPW.

I. For installations requiring polyethylene encasement for ductile-iron pipe, the encasement shall be installed in accordance with ANSI/AWWA C105/A21.5 and recommendations of DUCTILE IRON PIPE RESEARCH ASSOCIATION INSTALLATION GUIDE FOR DUCTILE IRON PIPE. This includes overlapping and the correct tape to be used on the joints. Use 10 mil blue or black polywrap pipe sleeve from AA Thread or equivalent. Use 10 mil PVC tape to bind ends with 1 ½’ overlap. On mechanical or open joints with couplings, use cross laminated HDPE joint wrap, 10 mil XLAM HDPE joint wrap.

J. Pipe which is damaged or unsound will be rejected and marked. Sound pipe before installation to detect cracks.

K. Use suitable fittings where grades or alignments require offsets greater than manufacturer's recommended joint deflections.

L. Follow manufacturer's recommended installation and assembly practices.

M. CAUTION: Pressurizing HDPE pipe for testing or placing into service requires additional precautions: Leaks at pressurized fusion joints may immediately precede catastrophic and sudden pipe separation and result in violent and dangerous movement of piping or attached parts and cause a sudden release of piping contents under pressure. Never approach or attempt to repair or stop leaks while pipe is pressurized. Always depressurize pipe before making corrections. Faulty fusion joints cannot be repaired. They must be cut out and rejoined using proper heat fusion procedures.

N. TRENCHLESS INSTALLATION

1. General: Select a method of installation that is appropriate for the soil conditions anticipated and will 1) allow the pipe to be installed to the desired line and grade within the specified tolerances; 2) prevent heaving or settlement of the ground surface or damage to nearby facilities; and 3) prevent damage to the carrier pipe and any lining materials within the carrier pipe.

2. Installation Method: Horizontal directional drilling (HDD) shall be the primary method for installing pipe with trenchless technology. HDD installs pipe from a surface-launched drilling rig. A pilot bore is formed and then enlarged by back reaming and removing the spoil material. The pipe is then pulled in place. Other methods may be allowed with the Engineer's approval.

3. Line and Grade: Install pipe at line and grade that will allow the carrier pipe to be installed at its true starting elevation and grade within the specified maximum alignment deviation of the pipe centerline. When no deviation tolerances are specified in the contract documents, apply the following maximum deviations to the carrier pipe.

4. Pressurized Pipe: Tolerances for installation of pressurized water main pipe shall include horizontally accuracy of ± 2.0 feet, vertical accuracy ± 1.0 foot, while maintaining the minimum depth specified in the contract documents. Greater deviation or interference with other identified facilities may be cause for rejection.

5. Deviation from Line and Grade: Installations deviating from the specified tolerances that cannot be adjusted to conform to the specified tolerances may be rejected by the Engineer. If nonconforming installation is not rejected, provide all additional fittings, manholes, or appurtenances needed to accommodate horizontal or vertical misalignment, at no additional cost to MPW. Abandon rejected installation and place special fill materials, at no additional cost to MPW. Replace abandoned installations, including all additional fittings, manholes, or appurtenances required to replace rejected installations.

6. Casing Pipe or Un-cased Carrier Pipe Installation: Install pipe by approved methods. Use a jacking collar, timbers, and other means as necessary to protect the driven end of the pipe from damage. Do not exceed the compressive or tensile strength capacity of the pipe during pushing or pulling operations. Fully support bore hole at all times to prevent collapse. Insert pipe as soil is removed, or support bore with drilling fluid. Fully weld all casing pipe joints. Use an interlocking connection system when approved by the Engineer. Fill space between the inside of the bore hole and the outside of the pipe with special fill material if the space is greater than 1 inch.

7. Pit Restoration: Remove installation equipment and unused materials from the launching and receiving pits. When the carrier pipe extends beyond the limits of trenchless installation and into the bore pit, place bedding and backfill material according to this Section. Place suitable backfill material in the pit. Apply the testing requirements of this Section. Restore the site to original condition or better.

1.16 TRACER WIRE INSTALLATION

A. Copperhead tracer wire shall be installed on top of water main once backfill has been brought up to top of pipe.

B. Tracer wires will be tested for continuity before final acceptance of the Project. Wires without continuity shall be repaired or reinstalled by Contractor.

C. Tracer wire shall be brought up to ground level at all valve boxes and installed in a separate tracer wire box. At all dead ends and valve/hydrants, a tracer wire anode will be installed. See the tracer wire specification drawings in Attachment 4 for more detail.

D. Tracer wire access boxes will be placed at a maximum distance of 500'.

1.17 HORIZONTAL AND VERTICAL SEPARATIONS

A. Horizontal Separation of Gravity Sanitary and Combined Sewers from Water Mains:

1. Separate gravity sanitary and combined sewer mains from water mains by a horizontal distance of at least 10 feet unless: (a) the top of a sewer main is at least 18 inches below the bottom of the water main, and (b) the sewer is placed in a separate trench or in the same trench on a bench of undisturbed earth at a minimum horizontal separation of 3 feet from the water main.

2. When it is impossible to obtain the required horizontal clearance of 3 feet and a vertical clearance of 18 inches between sewers and water mains, provide a linear separation of at least 2 feet and one of the following: (a) construct sanitary and combined sewers of water main materials meeting the requirements of SUDAS Section 5010, 2.01, or (b) enclose the water main in a watertight casing pipe with an evenly spaced annular gap and watertight end seals.

B. Horizontal Separation of Gravity Storm Sewers from Water Mains:

1. Separate gravity storm sewers and water mains by a horizontal distance of at least 10 feet unless it is impossible to do so.

2. When impossible to maintain a 10 feet horizontal separation, maintain a minimum separation of 3 feet and utilize one of the following within 10 feet measured edge-to-edge: (a) construct the water main of ductile iron pipe with gaskets impermeable to hydrocarbons, (b) enclose the water main in a watertight casing pipe with evenly spaced annular gap and watertight end seals, (c) construct storm sewer pipe of water main materials, or (d) construct storm sewers of reinforced concrete pipe with gaskets manufactured according to ASTM C 443.

C. Horizontal Separation of Water Mains from Sanitary and Combined Sewer Manholes: Ensure water pipes do not pass through or come in contact with any part of a sanitary or combined sewer manhole. Maintain a minimum horizontal separation of 3 feet.

D. Separation of Sewer Force Mains from Water Mains: Separate sewer force mains and water mains by a horizontal distance of at least 10 feet unless:

1. The force main is constructed of water main materials meeting a minimum pressure rating of 150 psi and the requirements of SUDAS Section 5010, 2.01 and,

2. The sewer force main is laid at least 4 linear feet from the water main.

E. Vertical Separation of Sanitary or Combined Sewer and Water Main Crossovers:

1. Vertically separate sanitary and combined sewers crossing under water main by at least 18 inches when measured from the top of the sewer to the bottom of the water main. If physical conditions prohibit the separation, do not place the sewer closer than 6 inches below a water main or 18 inches above a water main. Maintain the maximum feasible separation distance in all cases. The sewer and water pipes must be adequately supported and have watertight joints. Use a low permeability soil for backfill material within 10 feet of the point of crossing.

2. Where the sanitary sewer crosses over or less than 18 inches below a water main, utilize one of the following within 10 feet measured edge-to-edge horizontally, centered on the crossing: (a) construct sanitary and combined sewers of water main material meeting the requirements of SUDAS Section 5010, 2.01. or (b) enclose the water main in a watertight casing pipe with an evenly spaced annular gap and watertight end seals.

F. Vertical Separation of Storm Sewer and Water Main Crossovers:

1. Vertically separate storm sewers crossing from water mains by at least 18 inches measured between the outside edges of the water main and storm sewer. Maintain the maximum feasible separation distance in all cases. The sewer and water pipes must be adequately supported and have watertight joints. Use a low permeability soil for backfill material within 10 feet of the point of crossing.

2. When impossible to maintain an 18 inch vertical separation when the water main crosses over the storm sewer, maintain a minimum vertical separation of 6 inches and utilize one of the following within 10 feet measured edge-to-edge centered on the crossing: (a) construct the water main of ductile iron pipe with gaskets impermeable to hydrocarbons, (b) enclose the water main in a watertight casing pipe with evenly spaced annular gap and watertight end seals, (c) construct storm sewer pipe of water main materials, or (d) construct storm sewers of reinforced concrete pipe with gaskets manufactured according to ASTM C 443.

G. Surface Water Crossings: Comply with the Recommended Standards for Water Works, 2007 Edition, section 3.07 CONFLICTS (Section from SUDAS)

1. Above-water Crossings: Ensure the pipe is adequately supported and anchored; protected from vandalism, damage, and freezing; and accessible for repair or replacement.

2. Underwater Crossings: Provide a minimum cover of 5 feet over the pipe unless otherwise specified in the contract documents. When crossing water courses that are greater than 15 feet in width, provide the following: (a) pipe with flexible, restrained, or welded watertight joints, (b) valves at both ends of water crossings so the section can be isolated for testing or repair; ensure the valves are easily accessible and not subject to flooding, and (c) permanent taps or other provisions to allow insertion of a small meter to determine leakage and obtain water samples on each side of the valve closest to the supply source.

H. Should physical conditions exist such that exceptions to above separations are required, Contractor shall obtain MPW’s Project Leader's assistance for details which will provide protection equal to that provided by above items. When it is impossible to obtain the minimum specified separation distances, the IDNR must specifically approve any variance from the requirements.

1.18 CONNECTIONS TO EXISTING WATER MAINS

A. Existing water mains shall remain in service during installation of new water main. Length of time for tie-in shall be kept to a minimum. Coordinate tie-in with MPW.

B. Uncover existing mains, to which connections are to be made, a sufficient time ahead of pipe laying operations to verify fittings required.

C. Clean and disinfect existing main and inside of fittings and valves in accordance with Disinfection and De-chlorination section of this Standard Specification.

D. In general, a 6’ by 8’ hole will be required for MPW to make a safe tapping connection. If a tap larger than 4” is being made, 6’ of clearance is needed from the face of the tapping valve. The side of the pipe that is being tapped needs to be excavated lower so water does not come up on to the pipe or contaminate the tapping machine. Any excavation over 5’ deep requires trench protection.

1.19 GATE VALVES AND FITTINGS

A. Prior to installation, valves shall be inspected for direction of opening, number of turns to open, freedom of operation, tightness of pressure-containing bolting and test plugs, cleanliness of valve ports and seating surfaces, handling damage, and cracks. Defective valves shall be corrected or held for inspection by MPW. Valves shall be closed before being installed.

Valves, fittings, plugs, and caps shall be set and joined to the pipe in the manner specified for all valves for cleaning, laying, and joining pipe. Valves 12 inches and larger should be provided with special support, such as crushed stone or concrete blocks so that the pipe will not be required to support the weight of the valve. Valves shall be installed in the closed position.

B. Install valves with stems vertical, except where shown otherwise on plans.

C. Tighten valve glands on new and existing valves as work is installed; replace O-rings if required and retighten glands after valves are placed in operation and brought up to operating pressure. Replace any O-rings which are deteriorated or in unsatisfactory condition.

D. A valve box shall be provided for every valve. The valve box shall not transmit shock or stress to the valve. Valve box shall be centered over the operating nut of the valve using one standard centering ring manufactured for that purpose. The box cover shall be flush with the surface of the finished area unless otherwise directed by MPW.

E. In no case shall valves be used to bring misaligned pipe into alignment during installation. Pipe shall be supported in such a manner as to prevent stress on the valve.

F. If valves are going to be deeper than 5’ from ground surface, MPW requires an valve nut extension. If deeper than 8’, a solid valve box will be required.

1.20 TAPPING VALVES AND SLEEVES

A. Conform to requirements for gate valves and fittings listed above.

B. Follow manufacturer's recommended assembly and installation practices.

C. All valves and sleeves will be blocked for support.

1.21 FIRE HYDRANTS

A. Prior to installation, all hydrants shall be inspected for direction of opening, nozzle threading, operating-nut and cap-nut dimensions, tightness of pressure-containing bolting, cleanliness of inlet elbow, handling damage, and cracks. Defective hydrants shall be replaced or held for inspection by MPW.

B. All hydrants shall be set plumb and shall have their nozzles parallel with or at right angles to the curb, with steamer (largest) nozzle facing the curb.

C. Hydrants shall be set to the established grade and set to the bury line marked on the hydrant so the breakaway will work correctly.

D. Hydrant drains shall not be connected to, or located within 10 feet of, sanitary sewers and storm drains.

E. All fire hydrants shall be independently valved. Refer to Attachment 2 for plan layout of valving and pipe.

F. Flush hydrants will be used at the discretion of the Utility.

G. Hydrants must meet new specifications for lead free brass.

H. Hydrants need to be blocked with hard blocks and shims. Pour concrete only if poor soils are in the area. Refer to Attachment 1 for more details.

1.22 THRUST RESTRAINT/BLOCKING

A. Thrust blocking: Provide cast-in-placed concrete thrust blocks where buried piping changes direction, changes size, and at dead ends, unless otherwise noted on the Plans or approved by the Engineer. Concrete shall have a minimum compressive strength of 4000 psi in 28 days. Allow concrete adequate time to reach a compressive strength of 3000 psi prior to pressure testing. Concrete thrust blocks shall be cast against undisturbed vertical edge of trench for bearing, the bearing surface of thrust block shall be symmetrical vertically and horizontally with respect to line of force of pipe or joint, thrust blocks at dead ends, at plugs and at caps shall be removable so that lines may be easily extended after testing and a period

of normal service, and thrust blocks at fittings shall be placed in such a manner as to permit tightening of mechanical joint bolts after placement of trust block.

Thrust blocks shall be subject to inspection and approval of MPW's Project Leader prior to water main testing.

B. Tie rods: Tie rods and fittings shall be suitable for use with mechanical joint fittings. Coat tie rods and fittings with 2 coats of coal tar paint or spray on bituminous automotive undercoating material after installation. Tie-rod assemblies and systems are subject to MPW's approval.

C. Thrust restraint: Mechanical joint restraints for push on or mechanical joints may be used instead of concrete blocking when indicated on the Plans or in the Detailed Specifications for the Project. The preferred method is to use joint restraints (i.e. Megalugs) in addition to concrete blocking or poured kickers.

D. A detail drawing showing typical thrust block installations is found in Attachment 3 at the end of these specifications. Thrust blocking from pipe sizes greater than 20-inches will be as shown on the Plans or in Detailed Specifications for the Project.

Sizes of thrust blocks in square feet of bearing area for water mains based on soil bearing capacity of 2000 pounds per square foot are listed in the table below:

Table 2 - Bearing Area of thrust Blocks in Square Feet

Pipe Size (Inches)	90° Bend	45° Bend	22-1/2° Bend	11-1/4° Bend	Dead End or Tee
4	3	2	2	1	2
6	6	3	2	1	4
8	10	5	3	2	7
10	14	8	4	2	10
12	20	11	6	3	14
14	26	14	8	4	19
16	34	19	10	5	24
18	40	22	11	6	28
20	52	28	15	7	37

1.23 SURFACE RESTORATION

A. Reopen backfilled areas to traffic or former use as soon as possible. Refer to Attachment 6 and 7 for typical trench and roadway repairs.

B. Fill all depressions and grade disturbed areas to provide smooth uniformly sloping surfaces with positive drainage.

C. Seeding details are noted in Section 1.5.M

D. Agricultural areas shall have topsoil stripped back to a depth of 12 inches. Topsoil shall be kept separate from other excavated materials and spread back over disturbed areas after water main installation and backfill operations have been completed.

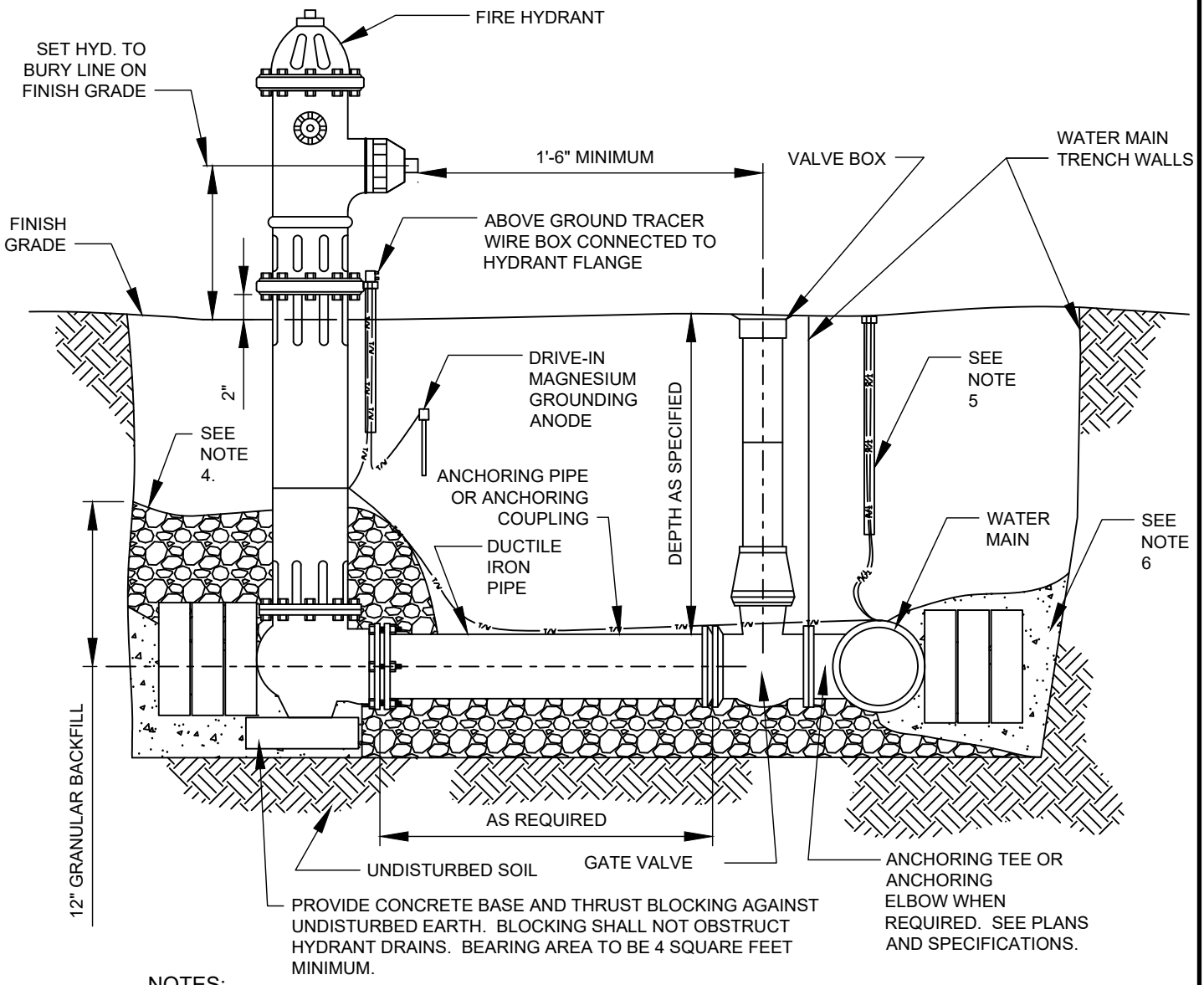
E. Apply fertilizer, seeding and mulch at rates provided for in Materials portion of this Standard Specification.

1.24 CLEAN UP

A. Contractor shall keep site clean and orderly. Contractor shall remove all brush, rubbish, rocks, spoil and other waste materials off site for disposal. MPW reserves the right to instruct the contractor on clean-up timelines. Excess materials from all demolitions and excavations shall be disposed of offsite by Contractor, at Contractor's expense, unless otherwise shown on Plans or described in Detailed Specifications for the Project. Leave site generally as it was prior to construction. Site shall be picked up, raked and left in a finished, smooth, clean, seeded and mulched condition.

ATTACHMENTS

1. Hydrant Installation Detail Elevation – AWD0212A
2. Hydrant Installation Detail Plan – AWD0212B
3. Thrust Block Details – AWD0212C
4. Tracer Wire Installation Plan – AWD0212D
5. Trench Detail – AWD0212E



NOTES:

1. ALTERNATE MECHANICAL JOINT RESTRAINT SYSTEMS ARE SUBJECT TO OWNER'S APPROVAL.
2. APPLY POLYETHYLENE ENCASEMENT ON PIPE, VALVE, VALVE BOX FIRE HYDRANT AND FITTINGS AS SPECIFIED.
3. HYDRANT STEAMER NOZZLE TO BE TURNED TOWARDS STREET UNLESS SPECIFIED OTHERWISE.
4. INSTALL LAYER OF FILTER FABRIC OR 4 MIL PLASTIC FILM BARRIER OVER DRAIN FIELD. DRAIN FIELD COMPRISED OF 1/2 CU. YD. MINIMUM OF 1" WASHED GRAVEL.
5. USE SNAKEPIT TRACER WIRE BOXES ON WATERMAIN AS SPECIFIED IN PLANS.
6. USE CONCRETE BLOCKS IF SOIL IS LOAD BEARING, OTHERWISE, USE POURED CONCRETE THRUST BLOCK AS SPECIFIED IN PLANS.

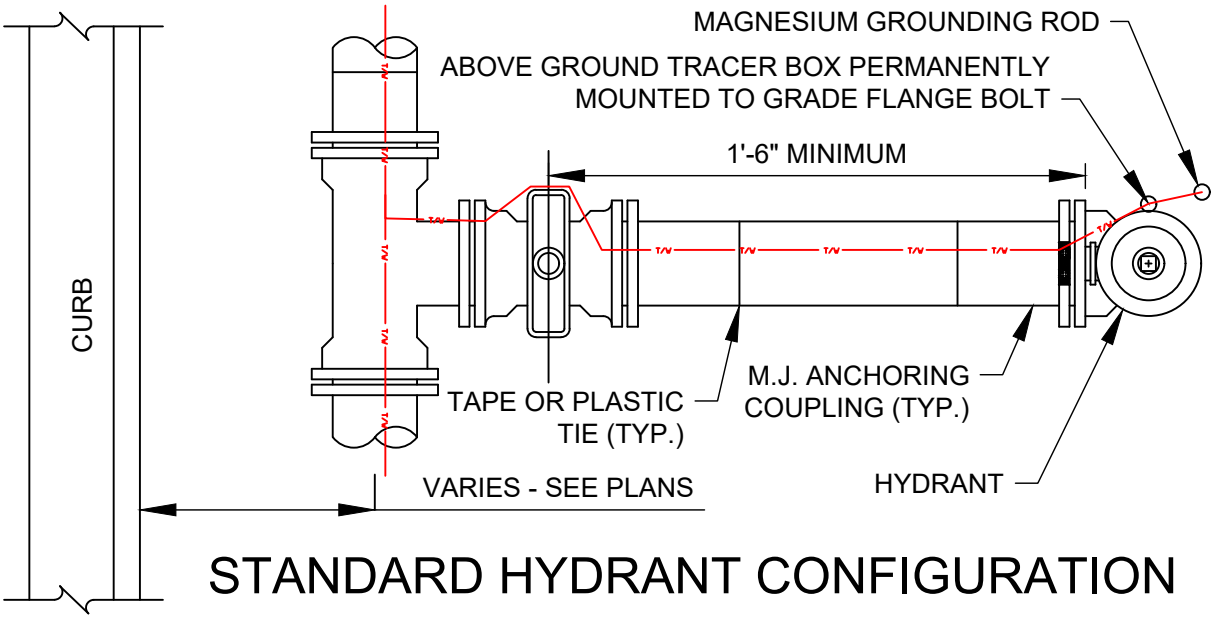
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APPROVED BY: A. GROSS	DATE: 2-18-15
REVISED BY: A. HANEY	DATE: 2-12-15
SCALE: NONE	

HYDRANT INSTALLATION DETAIL ELEVATION

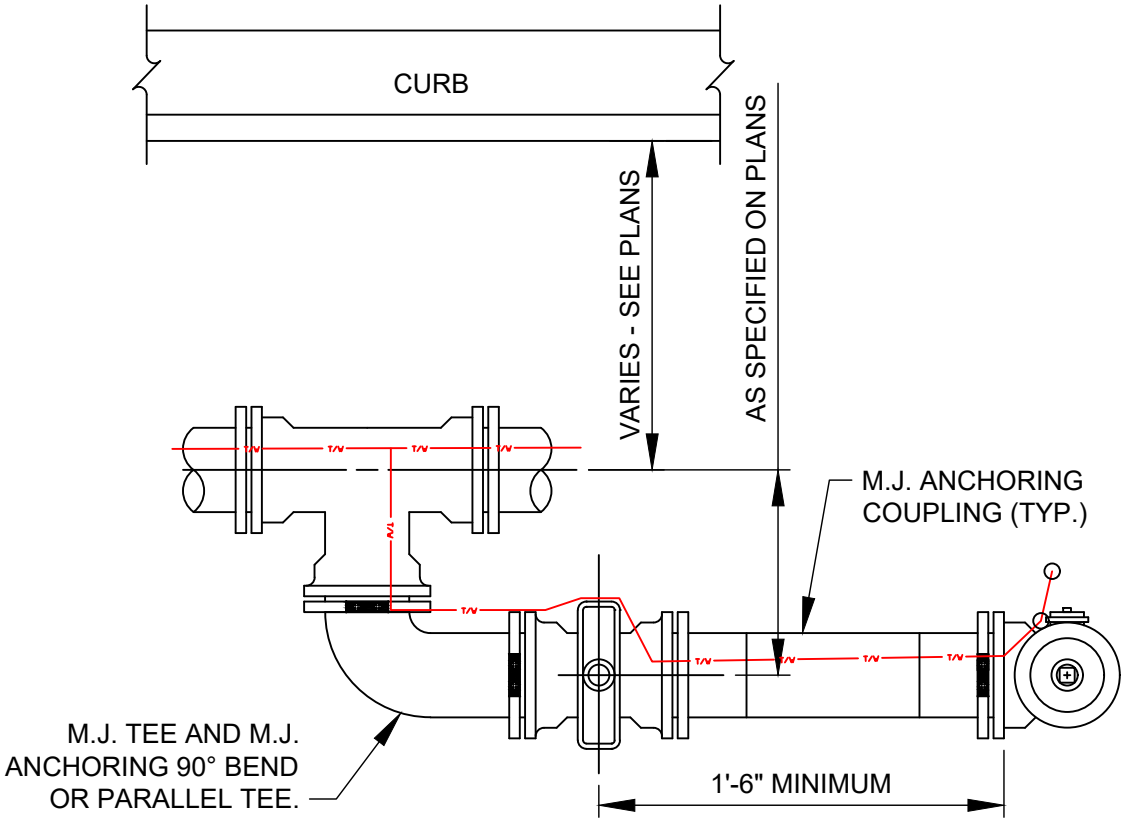
MUSCATINE POWER & WATER

FILE No. 142

DRAWING No. AWD0212A



STANDARD HYDRANT CONFIGURATION



PARALLEL HYDRANT CONFIGURATION

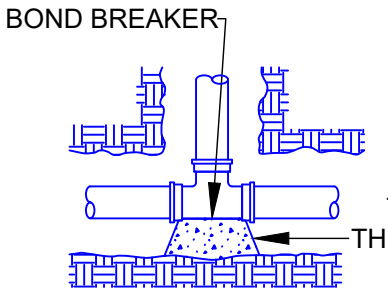
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REVISED BY: A. HANEY	DATE: 2/17/15
SCALE: NONE	

HYDRANT INSTALLATION DETAIL PLAN

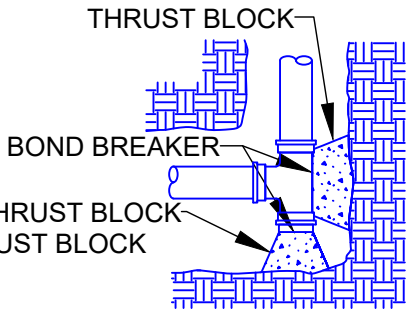
MUSCATINE POWER & WATER

FILE No. 142

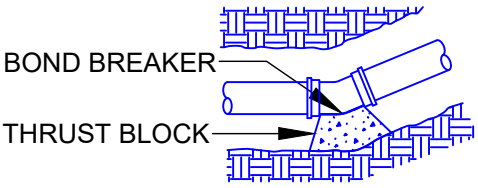
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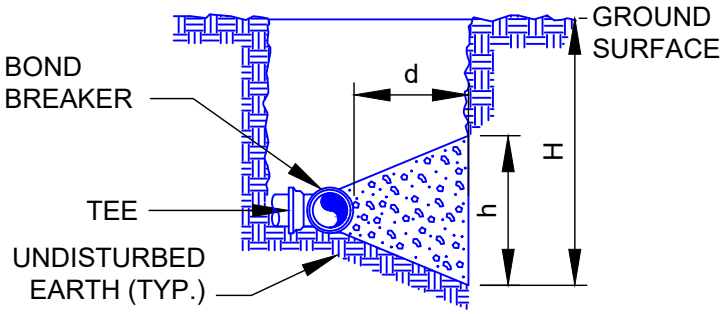
TEE (PLAN)



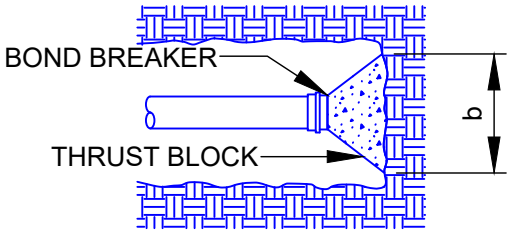
PLUGGED TEE (PLAN)



BEND (PLAN)



ELEVATION



DEAD END (PLAN)

NOTES:

1) BEARING SURFACE SHOULD, WHERE POSSIBLE, BE PLACED AGAINST UNDISTURBED SOIL. WHERE IT IS NOT POSSIBLE, THE FILL BETWEEN THE BEARING SURFACE AND UNDISTURBED SOIL MUST BE COMPACTED TO AT LEAST 90% STANDARD PROCTOR DENSITY, VERIFIED BY IN PLACE DENSITY TESTING.

2) BLOCK HEIGHT (h) SHOULD BE EQUAL TO OR LESS THAN ONE-HALF THE TOTAL DEPTH TO THE BOTTOM OF THE BLOCK, (H), BUT NOT LESS THAN THE PIPE DIAMETER.

3) BLOCK HEIGHT (h) SHOULD BE CHOSEN SUCH THAT THE CALCULATED BLOCK WIDTH (b) VARIES BETWEEN ONE AND TWO TIMES THE HEIGHT.

4) DO NOT ALLOW CONCRETE TO DIRECTLY CONTACT JOINTS OR FITTING BOLTS, PROTECT JOINTS AND BOLTS WITH POLYETHYLENE ENCASEMENT.

5) BLOCK DEPTH (d) SHALL BE AT LEAST $\frac{1}{2}$ BLOCK HEIGHT (H).

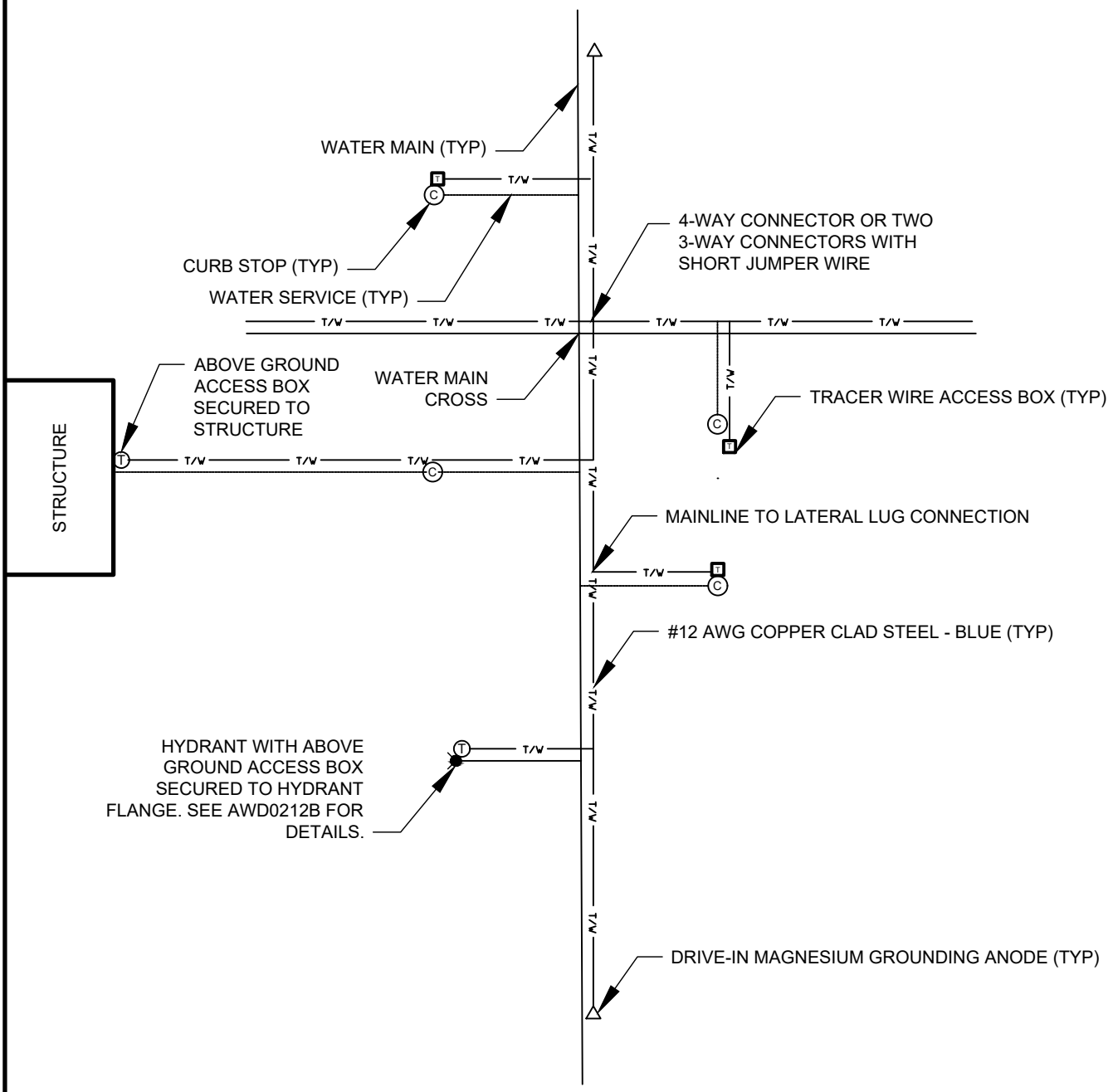
DRAWN BY: S. WIESKAMP	DATE: 12/02/04
APPROVED BY: Gerald R. Peterson	DATE: 01/13/05
REVISED BY: E.B.GLENNEY	DATE: 3-28-08
SCALE: NONE	

THRUST BLOCK DETAILS

MUSCATINE POWER & WATER

FILE No. 142

DRAWING No. AWD0212C



NOTES

1. TRACER WIRE SHOWN OFFSET FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON TOP OF PIPE AND FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS.

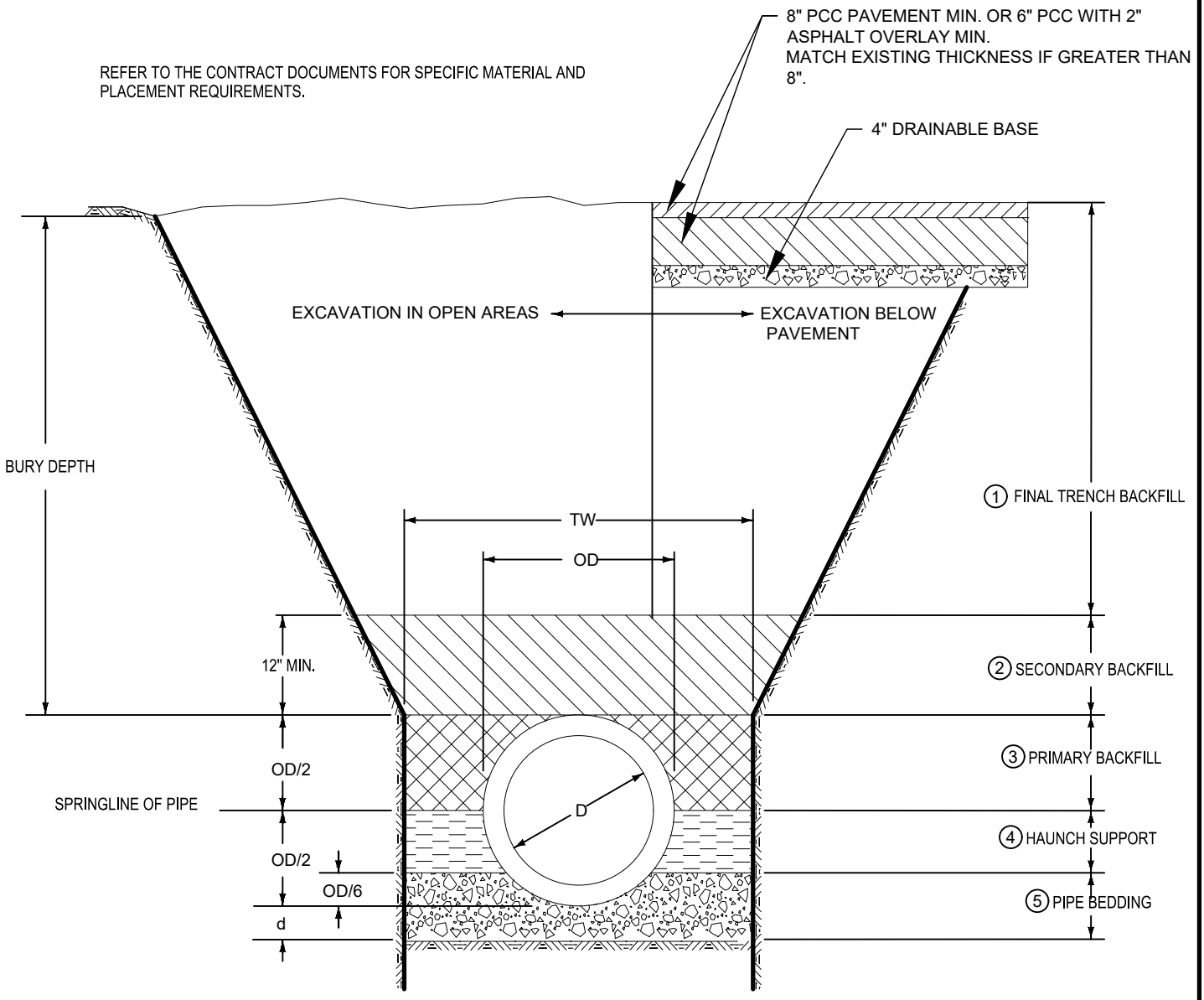
DRAWN BY: A. HANEY	DATE: 2/10/15
APPROVED BY: A. GROSS	DATE: 2/18/15
REVISED BY: A. HANEY	DATE: 2/10/15
SCALE: NONE	

TRACER WIRE INSTALLATION PLAN

MUSCATINE POWER & WATER

FILE No. 142

DRAWING No. AWD0212D



① BACKFILL SHALL BE CLEAN SAND OR MANUFACTURED SAND WITHIN 10 FT. OF PAVEMENT.

②③④ BACKFILL SHALL BE CLEAN SAND OR MANUFACTURED SAND REGARDLESS OF LOCATION.

⑤ IF ROCKS OR UNSUITABLE SOILS ARE ENCOUNTERED, OVER EXCAVATE AND REPLACE WITH COMPACTED ROCK OR MANUFACTURED SAND; OTHERWISE PIPE CAN BE BEDDED ON NATIVE MATERIALS.

Key

OD = OUTSIDE DIAMETER OF PIPE

D = INSIDE DIAMETER OF PIPE

TW = TRENCH WIDTH AT TOP OF PIPE, MAX IS OD + 12" EACH SIDE

d = DEPTH OF BEDDING MATERIAL BELOW PIPE, 6"

DRAWN BY: A. HANEY	DATE: 5-22-15
APPROVED BY: AHREN GROSS	DATE: 5-28-15
REVISED BY:	DATE:
SCALE: NONE	

TRENCH DETAIL

MUSCATINE POWER & WATER

FILE No. 142

DRAWING No. AWD0212E

City of Muscatine

ITEM NUMBER 2026-0122

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

April Limburg, City Planner

SUBJECT

Resolution vacating and deeding over to the adjoining property owner the undeveloped right of way located at 301 West 11th Street

EXECUTIVE SUMMARY

Presented for Council's consideration is a request to vacate and deed over to the adjoining property owner the undeveloped right of way of Fuller St located at 301 West 11th Street. An executed deed is required to finalize the transfer of the property.

STAFF RECOMMENDATION

Staff recommends Council adopt the attached resolution deeding the adjoining property owner's the undeveloped right of way located at 301 W 11th St.

BACKGROUND/DISCUSSION

The northernmost 315 feet of the Fuller Street right-of-way remains undeveloped. As there is no current or projected public use for this section, the City requests its vacation. Upon vacation, the right-of-way will be deeded to the adjoining property owners, Scott Day and Diane Mayer-Day, who own the parcels adjoining both the east and west sides of the right of way being requested for
vacation.

CITY FINANCIAL IMPACT

The deed of this property adds it to the tax roll.

ATTACHMENTS

1. Resolution - deed
2. Deed ROW
3. 301 W 11TH-Plat of Survey

Prepared by April Limburg, 215 Sycamore St, Muscatine, IA, 52761 (563) 262-4141

RESOLUTION NO. 2026-0122

A RESOLUTION VACATION AND DEEDING OVER TO THE ADJOINING PROPERTY OWNER THE UNDEVELOPED RIGHT OF WAY LOCATED AT 301 W 11 STREET

WHEREAS, the Planning and Zoning Commission of the City of Muscatine, on February 9, 2026 recommended approval of the vacation and deeding of undeveloped Fuller Ave right of way

WHEREAS, due notice of said proposal to vacate and convey said right of way and to further convey said vacated right of way to the adjoining property owner was give as provided for by law, setting forth the time and place for hearing on said proposal; and

WHEREAS, in accordance with said notice, those interested in said proposal vacation on deeding, both for and against, have been given an opportunity to be heard with respect thereto and have presented their views to the City Council of the City of Muscatine, Iowa at public hearing held on March 3, 2026 and

WHEREAS, the said right of way was vacated by Ordinance on

WHEREAS, Scott or Diana Day, is the adjoining property for the portion said vacated right of way described as follows:

A PART OF FULLER STREET RIGHT OF WAY IN TERRACE HEIGHTS ADDITION IN THE CITY OF MUSCATINE, IOWA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF THE FULLER STREET RIGHT OF WAY; THENCENORTH 52°37’08” EAST 60.00 FEET ALONG THE NORTH LINE OF SAID RIGHT OF WAY TO THE EAST RIGHT OF WAY OF FULLER STREET; THENCE SOUTH 36°49’42” EAST 315.77 FEET ALONG SAID EAST RIGHT OF WAY; THENCE SOUTH 53°11’27 WEST 60.00 FEET TO THE WEST RIGHT OF WAY OF FULLER STREET; THENCE NORTH 36°49’42” WEST 315.17 FEET ALONG SAID WEST RIGHT OF WAY TO THE POINT OF BEGINNING; CONTAINING 0.43 ACRES, MORE OR LESS.

WHEREAS, it is the intent of the City to convey said vacated right of way to Scott and Diana Day

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA, as follows:

1. The City of Muscatine, Iowa will vacate and deed its rights, title, and interest in and to the real property described in the copy of the deed attached to this Resolution marked Exhibit A to Scott and Diana Day.

2. The deed will be in the name of the City of Muscatine, Iowa; will be signed by the Mayor and attested by the City Clerk; and will be in substantially the same from as the copy of the deed attached as Exhibit A to this Resolution.
3. Any Resolution or part thereof in conflict or inconsistent with this Resolution is repealed.

PASSED, APPROVED AND ADOPTED this 7 day of April, 2026.

BY THE CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA

_____

Brad Bark , Mayor

Attest:

_____

Cinda Hilger, City Clerk

Exhibit A

Prepared by: April Limburg, 215 Sycamore Street, Muscatine, IA 52761; 563.262.4141
Return and Tax Statement to: Scott or Diane Day, 301 W 11th St Muscatine, IA 52761

WARRANTY DEED

The City of Muscatine, Iowa, a municipal corporation situated in Muscatine County, Iowa, for valuable consideration, transfers and deeds to Scott L Day or Diane E Mayer-Day all its right, title, and interest in the following real property in Muscatine County, Iowa:

A PART OF FULLER STREET RIGHT OF WAY IN TERRACE HEIGHTS ADDITION IN THE CITY OF
MUSCATINE, IOWA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF THE FULLER STREET RIGHT OF WAY; THENCE
NORTH 52°37'08" EAST 60.00 FEET ALONG THE NORTH LINE OF SAID RIGHT OF WAY TO THE EAST RIGHT OF WAY OF FULLER STREET; THENCE SOUTH 36°49'42" EAST 315.77 FEET ALONG SAID EAST RIGHT OF WAY; THENCE SOUTH 53°11'27 WEST 60.00 FEET TO THE WEST RIGHT OF WAY OF FULLER STREET; THENCE NORTH 36°49'42" WEST 315.17 FEET ALONG SAID WEST RIGHT OF WAY TO THE POINT OF BEGINNING; CONTAINING 0.43 ACRES, MORE OR LESS.

Exempt from transfer tax per Iowa Code Section 428A.2(21).

The City covenants with the grantee, its successors and assigns, to warrant and defend the real property against the lawful claims of all persons claiming by, though, or under the City.

IN WITNESS WHEREOF, the City of Muscatine, Iowa, has caused this instrument to be executed in its corporate name by its Mayor and City Administrator and its seal to be affixed on April 7, 2026.

CITY OF MUSCATINE, IOWA

(CITY SEAL)

By _____
Brad Bark, Mayor

ATTEST:

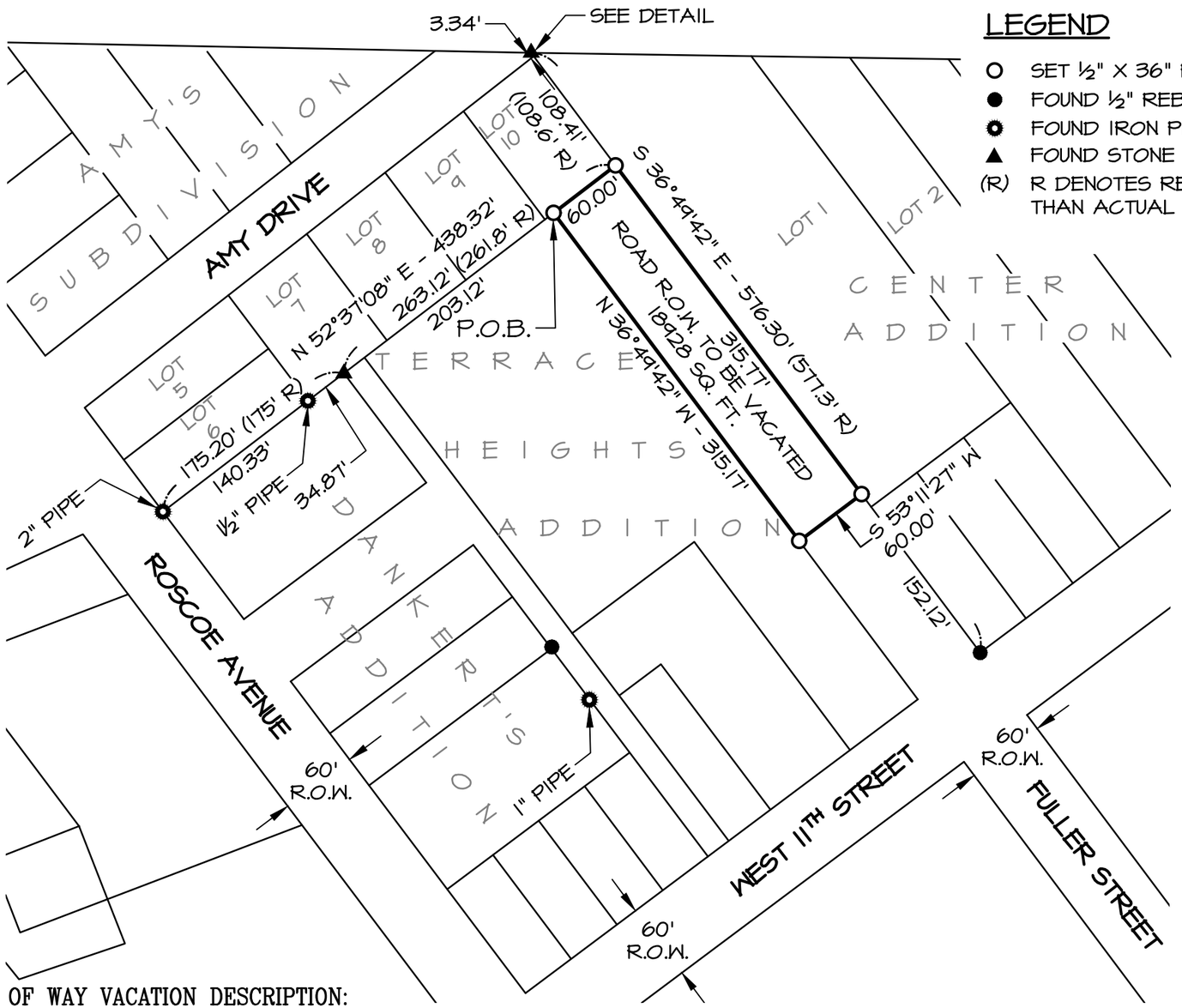
_____
Cinda Hilger, City Clerk

STATE OF IOWA, MUSCATINE COUNTY, ss.

This instrument was acknowledged before me on _____, 2026, by Brad Bark and Cinda Hilger as Mayor and City Clerk, respectively, of the City of Muscatine, Iowa.

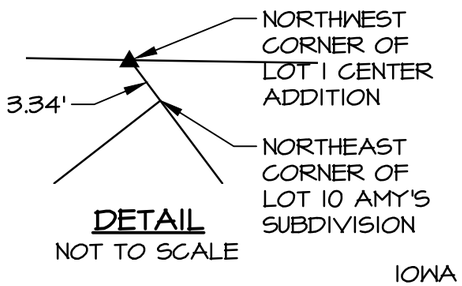
Notary Public in and for the State of Iowa

There is no known private burial site, well, solid waste disposal site, underground storage tank, hazardous waste or private sewage disposal system on the property as described in Iowa Code section 558.69, and therefore the transaction is exempt from the requirements to submit a groundwater hazard statement.

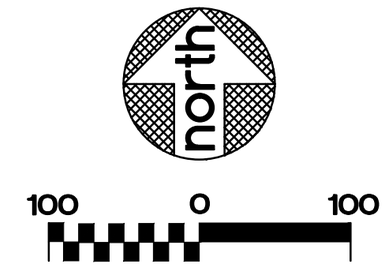


LEGEND

- ○ SET ½" X 36" REBAR W/BLUE CAP #18379
- ● FOUND ½" REBAR
- ◉ FOUND IRON PIPE AS NOTED
- ▲ FOUND STONE
- (R) R DENOTES RECORD DATA IF OTHER THAN ACTUAL FIELD MEASUREMENT



DETAIL
NOT TO SCALE



BASIS OF BEARINGS
IOWA REGIONAL COORDINATE SYSTEM
ZONE 14

RIGHT OF WAY VACATION DESCRIPTION:

A PART OF FULLER STREET RIGHT OF WAY IN TERRACE HEIGHTS ADDITION IN THE CITY OF MUSCATINE, IOWA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF THE FULLER STREET RIGHT OF WAY; THENCE NORTH 52°37'08" EAST 60.00 FEET ALONG THE NORTH LINE OF SAID RIGHT OF WAY TO THE EAST RIGHT OF WAY OF FULLER STREET; THENCE SOUTH 36°49'42" EAST 315.77 FEET ALONG SAID EAST RIGHT OF WAY; THENCE SOUTH 53°11'27 WEST 60.00 FEET TO THE WEST RIGHT OF WAY OF FULLER STREET; THENCE NORTH 36°49'42" WEST 315.17 FEET ALONG SAID WEST RIGHT OF WAY TO THE POINT OF BEGINNING; CONTAINING 0.43 ACRES, MORE OR LESS.

I hereby certify that this land surveying document was prepared and the related survey work was performed by me or under my direct personal supervision and that I am a duly licensed Professional Land Surveyor under the laws of the State of Iowa.

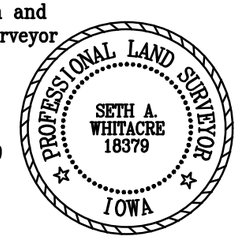
Seth A. Whitacre

Seth A. Whitacre

Date 1/17/26 Reg. No. 18379

My license renewal date is December 31, 2026

Pages or sheets covered by this seal: 1



SURVEY COMPANY / RETURN TO:
Martin & Whitacre Surveyors & Engineers, Inc.
1508 BIDWELL ROAD, MUSCATINE, IOWA 52761
INFO@MARTIN-WHITACRE.COM (563)263-7691

SURVEYOR: SETH A. WHITACRE
PROPRIETOR(S): CITY OF MUSCATINE
REQUESTOR: CITY OF MUSCATINE
LOCATION: FULLER STREET - TERRACE HEIGHTS ADDITION
SURVEY TYPE: ROAD R.O.W. VACATION

FILE	BOOK	SCALE	DRN	CHK'D	DATE	JOB NO.
SCANNED	WEST HILL #3	1"=100'	EJA	SAW	1/17/26	9142.25
REV. 0			301 W 11TH.DWG		SHEET 1	OF 1

City of Muscatine

ITEM NUMBER 2026-0123

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

SUBJECT

Resolution setting a public hearing for April 21, 2026 at 5:30 P.M. for the consideration of the transfer of real estate located at 910 E. 2nd Street, Muscatine Iowa.

EXECUTIVE SUMMARY

Resolution setting a public hearing for April 21, 2026 at 5:30 pm for the consideration of the transfer of real estate located at 910 E. 2nd Street. (legal Description attached)

STAFF RECOMMENDATION

Staff recommends approval.

BACKGROUND/DISCUSSION

The City of Muscatine has entered into a Development Agreement dated April 17, 2025, with Lumber Lofts, LLC for the transfer and redevelopment of the property located at 910 E. 2nd Street. Prior to the transfer of City-owned property, a public hearing is required to be held. This resolution sets that public hearing for April 21, 2026.

CITY FINANCIAL IMPACT

N/A

ATTACHMENTS

1. Resolution Setting public hearing lumber lofts
2. Lumber Lofts public notice

RESOLUTION 2026-0123
SETTING A PUBLIC HEARING FOR THE CONSIDERATION OF REAL ESTATE TRANSFER
(Lumber Lofts LLC)

WHEREAS, City of Muscatine is the owner of certain real estate located at 910 E 2nd Street, Muscatine, Iowa and more particularly described on Exhibit "A" attached hereto (“Property); and

WHEREAS, City of Muscatine has entered into a Development Agreement dated April 17, 2025 with Lumber Lofts, LLC for the transfer and redevelopment of the Property;

WHEREAS, City of Muscatine is required to hold a public hearing on the proposed transfer pursuant to Iowa Code §364.7

RESOLVED that a Public Hearing shall be held on April 21, 2026 at the City Hall on April 21, 2026 at 6:00 o'clock P.M. for the purpose of considering the transfer of real estate located at 910 E. 2nd Street, Muscatine, Iowa.

FURTHER RESOLVED that the City Clerk shall publish the Notice of Transfer of Real Estate and Notice of Public Hearing in the *The Muscatine Journal* at least once not less than four (4) but not more than twenty (20) days prior to the date of the public hearing.

Adopted on April 7, 2026

_____
Brad Bark, Mayor

_____
Cinda Hilger, City Clerk

Exhibit "A"

Legal Description for 910 E. 2nd Street, Muscatine, Iowa

All of Block 20, in the City of Muscatine, Muscatine County, Iowa, including the Northeasterly 240 feet of the vacated alley in Block 20; except Lots 1 and 10; and except those parts conveyed to the State of Iowa by Warranty Deeds recorded in Book 206 of Lots, page 567 and in Book 252 of Lots, page 160; all references being to the real estate records of Muscatine County, Iowa. Subject to easements of record.

[To be published in *The Muscatine Journal*]

NOTICE OF TRANSFER OF REAL ESTATE
AND
NOTICE OF PUBLIC HEARING
(Lumber Lofts LLC)

City of Muscatine is the owner of all of the right, title and interest in and to the real estate located at 910 E. 2nd Street, Muscatine, Iowa and more particularly described as follows, to-wit:

> All of Block 20, in the City of Muscatine, Muscatine County, Iowa, including the Northeasterly 240 feet of the vacated alley in Block 20; except Lots 1 and 10; and except those parts conveyed to the State of Iowa by Warranty Deeds recorded in Book 206 of Lots, page 567 and in Book 252 of Lots, page 160; all references being to the real estate records of Muscatine County, Iowa. Subject to easements of record.

The City Council of the City of Muscatine will consider the adoption of the following resolution for the transfer of the real estate described herein at a meeting to be held on April 21, 2026

> RESOLVED that the City of Muscatine shall transfer the real estate more particularly described on Exhibit "A" to Lumber Lofts, LLC pursuant to the terms and conditions set forth in the Development Agreement dated April 17, 2025
>
> FURTHER RESOLVED that the Mayor and City Clerk are hereby authorized to execute and deliver a quit claim deed from the City to the Lumber Lofts, LLC conveying all of its right, title and interest in and to the above-described real estate and are further authorized to take such further actions as necessary to effectuate the purposes of this resolution.

Before taking final action thereon, the City Council will hold a public hearing on the proposal to transfer the above-described real estate. Said public hearing shall be held at City Hall, 215 Sycamore, Muscatine, Iowa on April 21, 2016 at 5;30 p.m. Written or oral comments with regard to the transfer of the real estate described herein may be made at the public hearing or filed in writing with the undersigned prior thereto.

Published by Order of the City Council of the City of Muscatine.

Cinda Hilger, City Clerk

City of Muscatine

ITEM NUMBER 2026-0137

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

LeAnna McCullough, Interim Finance Director

SUBJECT

Resolution Setting a Public Hearing for April 21, 2026, on the Proposed Amendment #1 to the City Budget for Fiscal Year 2025/2026.

EXECUTIVE SUMMARY

The City Council recently completed the budget review process for the fiscal year 2026/2027 budget. As part of that review, revised estimate revenue and expenditure amounts for the current year (2025/2026) were also reviewed by City Council. Each year, these revised estimate amounts become Amendment #1 to the current year budget.

Prior to the adoption of a budget amendment, a public hearing is required. The attached resolution will set a public hearing for April 21, 2026 at 5:30 p.m. concerning Amendment #1 to the 2025/2026 City budget. At this meeting, the public can comment on the proposed budget amendment.

STAFF RECOMMENDATION

Staff recommends approval of the Resolution Setting a Public Hearing for April 21,2026 on the Proposed Amendment #1 to the Fiscal Year 2025/2026 Budget.

BACKGROUND/DISCUSSION

The City Council recently completed the budget review process for the fiscal year 2026/2027 budget. As part of that review, revised estimate revenue and expenditure amounts for the current year (2025/2026) were also reviewed by City Council. Each year, these revised estimate amounts become Amendment #1 to the current year budget.

There were numerous increases and decreases in both revenues and expenditures in the Revised Estimate for 2025/2026. Budgeted expenditures increased by $1,688,452 and transfers out increased by $263,339. Budgeted revenues increased by $2,833,025 and transfers in increased by $263,339. The beginning fund balances for the year were also amended to the actual ending balances at the end of fiscal year 2024/2025.

Of the overall net expenditure increase, there was a $66,600 expenditure decrease in the General Fund, a $289,520 expenditure decrease in special revenue funds, a $51,713 debt service fund expenditure increase, a $1,982,900 increase in general capital projects fund expenditures, a $4,700 decrease in permanent fund expenditures, and a $277,998 expenditure increase in Enterprise funds, including enterprise fund capital projects. These increases include the updated capital project construction schedules and expenditures for grants that were awarded after the original budget was adopted.

Prior to the adoption of budget amendments, a public hearing is required. The attached resolution and public hearing notice will set a public hearing on Amendment #1 to the City's fiscal year 2025/2026 budget for April 21, 2026 at 5:30 p.m.

CITY FINANCIAL IMPACT

While there are increases and decreases in both revenues and expenditures in Amendment #1, there is no direct financial impact from this amendment.

ATTACHMENTS

1. Notice of PH - FY26 Budget Amend #1 to be published 4-11-26
2. Resolution Setting PH for Budget Amend #1 FY2025-2026

NOTICE OF PUBLIC HEARING - AMENDMENT OF CURRENT BUDGET
City of MUSCATINE
Fiscal Year July 1, 2025 - June 30, 2026

The City of MUSCATINE will conduct a public hearing for the purpose of amending the current budget for fiscal year ending June 30, 2026

Meeting Date/Time: 4/21/2026 05:30 PM	**Contact:** Matthew Mardesen	**Phone:** (563) 264-1550

Meeting Location: City Hall Council Chambers

There will be no increase in taxes. Any residents or taxpayers will be heard for or against the proposed amendment at the time and place specified above. A detailed statement of: additional receipts, cash balances on hand at the close of the preceding fiscal year, and proposed disbursements, both past and anticipated, will be available at the hearing. Budget amendments are subject to protest. If protest petition requirements are met, the State Appeal Board will hold a local hearing. For more information, consult https://dom.iowa.gov/local-gov-appeals.

REVENUES & OTHER FINANCING SOURCES		**Total Budget as Certified or Last Amended**	**Current Amendment**	**Total Budget After Current Amendment**
Taxes Levied on Property	1	16,922,402	0	16,922,402
Less: Uncollected Delinquent Taxes - Levy Year	2	0	0	0
Net Current Property Tax	3	16,922,402	0	16,922,402
Delinquent Property Tax Revenue	4	0	0	0
TIF Revenues	5	2,522,000	36,300	2,558,300
Other City Taxes	6	5,376,254	-150,000	5,226,254
Licenses & Permits	7	510,700	-45,200	465,500
Use of Money & Property	8	2,349,000	364,705	2,713,705
Intergovernmental	9	15,416,545	935,733	16,352,278
Charges for Service	10	17,912,000	-241,600	17,670,400
Special Assessments	11	0	0	0
Miscellaneous	12	8,033,999	2,162,087	10,196,086
Other Financing Sources	13	15,805,000	-229,000	15,576,000
Transfers In	14	20,626,363	263,339	20,889,702
Total Revenues & Other Sources	15	105,474,263	3,096,364	108,570,627
EXPENDITURES & OTHER FINANCING USES				
Public Safety	16	12,571,600	48,000	12,619,600
Public Works	17	4,036,000	-227,000	3,809,000
Health and Social Services	18	60,000	0	60,000
Culture and Recreation	19	4,875,000	42,300	4,917,300
Community and Economic Development	20	8,851,720	-58,335	8,793,385
General Government	21	3,929,200	282,176	4,211,376
Debt Service	22	4,931,629	51,713	4,983,342
Capital Projects	23	9,144,600	1,956,300	11,100,900
Total Government Activities Expenditures	24	48,399,749	2,095,154	50,494,903
Business Type/Enterprise	25	37,965,050	-406,702	37,558,348
Total Gov Activities & Business Expenditures	26	86,364,799	1,688,452	88,053,251
Transfers Out	27	20,626,363	263,339	20,889,702
Total Expenditures/Transfers Out	28	106,991,162	1,951,791	108,942,953
Excess Revenues & Other Sources Over (Under) Expenditures/Transfers Out	29	-1,516,899	1,144,573	-372,326
Beginning Fund Balance July 1, 2025	30	45,134,366	3,189,018	48,323,384
Ending Fund Balance June 30, 2026	31	43,617,467	4,333,591	47,951,058

Explanation of Changes: To amend the 2025/2026 budget to the revised estimate amounts determined during the 2025/2026 budget review process. Amendments include updated revenue and expenditure estimates and updated capital projects construction schedules.

RESOLUTION NO. 2026-0137

RESOLUTION SETTING TIME AND PLACE FOR A PUBLIC HEARING CONCERNING AMENDMENT #1 TO THE CITY BUDGET FOR THE FISCAL YEAR ENDING JUNE 30, 2026 FOR THE CITY OF MUSCATINE, IOWA

WHEREAS, a public hearing is required in order to amend the budget for the City of Muscatine for the fiscal year ending June 30, 2026;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF MUSCATINE, IOWA that a public hearing be set for April 21, 2026 at 5:30 p.m. in the City Hall Council Chambers. At this meeting, the public can comment on the proposed Amendment #1 to the Fiscal Year 2025/2026 Budget.

BE IT FURTHER RESOLVED that the City Clerk be directed to publish Notice of Public Hearing in the Muscatine Journal, in the form required by the State of Iowa.

PASSED, APPROVED AND ADOPTED this 7th day of April, 2026.

BY THE CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA

Brad Bark, Mayor

ATTEST:

Cinda Hilger, City Clerk

City of Muscatine

ITEM NUMBER 2026-0138

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

LeAnna McCullough, Interim Finance Director

SUBJECT

Resolution Setting a Public Hearing for April 21, 2026 on the Proposed City Budget for Fiscal Year 2026/2027 (Public Hearing #2)

EXECUTIVE SUMMARY

The City Council completed the budget review process for the fiscal year 2026/2027 budget in late March. Two public hearings are required in order for City Council to adopt the annual budget for the upcoming year. City Council at the February 26, 2026 meeting, set the first public hearing for April 7, 2026 at 5:00 p.m. on the Proposed Property Tax Levy for 2026/2027. Per State requirements, this hearing will be held at a special meeting on April 7 at 5:00 with the only agenda item being the public hearing on the proposed tax levy for 2026/2027.

After that action on April 7, the City Council will need to set the next public hearing (Hearing #2) on the adoption of the budget and the certification of taxes for the 2026/2027 budget. The proposed total property tax levy rate for the 2026/2027 budget is $16.17331 per $1,000 of valuation, which is 1.38% higher than the current year (2025/2026) tax levy rate of $15.95328.

This resolution will set a public hearing for April 21, 2026, at 5:30 p.m. in the City Hall Council Chambers on the adoption of the fiscal year 2026/2027 budget. At this meeting, the public can comment on the proposed Fiscal Year 2026/2027 Budget.

STAFF RECOMMENDATION

Staff recommends approval of the Resolution Setting a Public Hearing for April 21, 2026 on the Proposed Fiscal Year 2026/2027 Budget

BACKGROUND/DISCUSSION

The proposed total property tax levy rate for the 2026/2027 budget is $16.17331 per $1,000 of valuation, which is 1.38% higher than the current year (2025/2026) tax rate of $15.95328

The proposed budget for 2026/2027 totals $92,569,733. This includes $49,482,601 in

governmental funds expenditures and $43,087,132 in business-type/enterprise funds expenditures. Of the total proposed budget, $26,156,100 is for capital projects in both governmental and business-type funds.

Setting Public Hearing #2 on the proposed budget is one of two items that City Councill will consider at the April 7, 2026 regular meeting as shown in the following schedule.

April 7, 2026	Set the Public Hearing for the Adoption of the Budget and Certification of Taxes for Fiscal Year 2026/2027
April 7, 2026	Set Public Hearing on Amendment #1 to the 2025/2026 City Budget
April 21, 2026	Hold Public Hearing #2 on the Proposed 2026/2027 Budget
April 21, 2026	Hold Public Hearing on Amendment #1 to the 2025/2026 City Budget
April 21, 2026	Approve Resolution for the Adoption of the 2026/2027 Budget and Certification of Taxes
April 21, 2026	Approve Resolution for Amendment #1 to the 2025/2026 City Budget

CITY FINANCIAL IMPACT

The proposed property tax rate and tax dollars generated will continue to fund the current services provided to the City's residents. The proposed budget for 2026/2027 totals $92,569,733 which includes $26,156,100 in capital project expenditures.

ATTACHMENTS

1. Notice of PH - Proposed Budget FY27 to be published 4-11-26
2. Resolution Setting PH for Budget FY27

NOTICE OF PUBLIC HEARING -- PROPOSED BUDGET
Fiscal Year July 1, 2026 - June 30, 2027

City of: MUSCATINE

The City Council will conduct a public hearing on the proposed Budget at: City Hall Council Chambers Meeting Date: 4/21/2026 Meeting Time: 05:30 PM

At the public hearing any resident or taxpayer may present objections to, or arguments in favor of , any part of the proposed budget. This notice represents a summary of the supporting detail of revenues and expenditures on file with the City Clerk and County Auditor.

City budgets are subject to protest. If protest petition requirements are met, the State Appeal Board will hold a local hearing. For more information, consult https://dom.iowa.gov/local-budget-appeals.

The Budget Estimate Summary of proposed receipts and expenditures is shown below. Copies of the the detailed proposed Budget may be obtained or viewed at the offices of the Mayor, City Clerk, and at the Library.

The estimated Total tax levy rate per $1000 valuation on regular property 16.17331

The estimated tax levy rate per $1000 valuation on Agricultural property is 3.00375

At the public hearing, any resident or taxpayer may present objections to, or arguments in favor of, any part of the proposed budget.

Phone Number
(563) 264-1550

City Clerk/Finance Officer's NAME
Matthew Mardesen

		Budget FY 2027	Re-estimated FY 2026	Actual FY 2025
Revenues & Other Financing Sources				
Taxes Levied on Property	1	17,707,306	16,922,401	16,109,544
Less: Uncollected Property Taxes-Levy Year	2	0	0	0
Net Current Property Taxes	3	17,707,306	16,922,401	16,109,544
Delinquent Property Taxes	4	0	0	23,405
TIF Revenues	5	2,423,800	2,558,300	2,629,296
Other City Taxes	6	5,390,067	5,226,254	5,218,406
Licenses & Permits	7	462,600	465,500	477,936
Use of Money and Property	8	2,356,108	2,713,705	3,637,598
Intergovernmental	9	18,744,273	16,352,278	13,253,731
Charges for Fees & Service	10	18,550,900	17,599,700	17,316,011
Special Assessments	11	0	0	0
Miscellaneous	12	8,383,000	10,266,790	10,347,852
Other Financing Sources	13	12,640,000	15,576,000	7,446,070
Transfers In	14	23,907,221	20,889,702	24,061,384
Total Revenues and Other Sources	15	110,565,275	108,570,630	100,521,233
Expenditures & Other Financing Uses				
Public Safety	16	12,982,600	12,619,600	12,687,961
Public Works	17	4,192,200	3,809,000	3,241,682
Health and Social Services	18	60,000	60,000	60,000
Culture and Recreation	19	4,973,200	4,917,300	4,644,681
Community and Economic Development	20	8,851,856	8,793,385	7,372,587
General Government	21	3,939,200	4,211,376	3,622,466
Debt Service	22	5,749,445	4,983,342	3,688,718
Capital Projects	23	8,734,100	10,517,600	9,612,391
Total Government Activities Expenditures	24	49,482,601	49,911,603	44,930,486
Business Type / Enterprises	25	43,087,132	38,141,648	34,538,605
Total ALL Expenditures	26	92,569,733	88,053,251	79,469,091
Transfers Out	27	23,907,221	20,889,702	24,061,384
Total ALL Expenditures/Transfers Out	28	116,476,954	108,942,953	103,530,475
Excess Revenues & Other Sources Over (Under) Expenditures/Transfers Out	29	-5,911,679	-372,323	-3,009,242
Beginning Fund Balance July 1	30	47,951,058	48,323,381	51,332,623
Ending Fund Balance June 30	31	42,039,379	47,951,058	48,323,381

RESOLUTION NO. 2026-0138

RESOLUTION SETTING TIME AND PLACE FOR A PUBLIC HEARING CONCERNING THE BUDGET ESTIMATE FOR FISCAL YEAR 2026/2027 FOR THE CITY OF MUSCATINE, IOWA

WHEREAS, the City is required to hold a public hearing concerning the City's budget estimate for fiscal year July 1, 2026 through June 30, 2027;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF MUSCATINE, IOWA that a public hearing will be held on April 21, 2026 beginning at 5:30 p.m, in the City Hall Council Chambers concerning the City's budget estimate for fiscal year 2026/2027, and the City Clerk is directed to publish notice of said meeting in the Muscatine Journal.

PASSED, APPROVED, AND ADOPTED this 7th day of April, 2026.

BY THE CITY COUNCIL OF THE CITY OF MUSCATINE, IOWA

Brad Bark, Mayor

ATTEST:

Cinda Hilger, City Clerk

City of Muscatine

ITEM NUMBER 2026-0124

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Jeff Jirak, Police Captain

SUBJECT

Request to apply for Bureau of Justice Assistance FY25 Edward Byrne Memorial Justice Assistance Grant (JAG) for an award amount of $10,294.00.

EXECUTIVE SUMMARY

The BJA FY25 Edward Byrne Memorial Justice Assistance Grant (JAG) is available for the Police Department to apply for. The award amount is a predetermined $10,294.00 and requires no local match. The application deadline is April 24, 2026.

STAFF RECOMMENDATION

Staff recommends approval.

BACKGROUND/DISCUSSION

The Police Department has been a recipient of JAG grant funding in the past but has not qualified to apply for the last few years. If awarded, the funds would be used to purchase a new drone for use by both City and County law enforcement.

CITY FINANCIAL IMPACT

No impact as there is no local match required.

ATTACHMENTS

City of Muscatine

ITEM NUMBER 2026-0108

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Brian Stineman, Public Works Director

SUBJECT

Request to approve the issuance of a purchase order to Crawford Company in the amount of $245,852.00 for the replacement of the large rooftop heating and cooling unit at the Musser Public Library

EXECUTIVE SUMMARY

Request to approve the issuance of a purchase order to Crawford Company in the amount of $245,852.00 for the replacement of the large rooftop heating and cooling unit at the Library.

STAFF RECOMMENDATION

Staff recommends issuing a purchase order to Crawford Company for $245,852.00.

BACKGROUND/DISCUSSION

The current air conditioning air handling unit on the roof of the Musser Public Library is failing. The unit is now obsolete and parts are no longer commercially available. Building & Grounds staff have been keeping it running the past two years with parts they have found from various suppliers. This is no longer sustainable, and the unit needs to be replaced with a modern unit. In researching replacement equipment, it was noted that there are electric units that could be used instead of the current gas configuration. Since MPW does not charge for electricity to the library, an electric unit would eliminate gas bills for the new system. This system provides heating and cooling for approximately two thirds of the library.

Multiple quotes were requested for the supply and installation of this unit. The quote from Crawford Company was found to be the lowest, most responsible quote.

Vendor	Quote
Crawford Company	$245,852
Modern	$260,899.53
Hornbuckle Heating & Air Conditioning	$369,235

TMI	No quote received

CITY FINANCIAL IMPACT

Funding is through the city budget process in the Building and Grounds Building Equipment Repair fund.

ATTACHMENTS

1. Crawford Quote
2. Modern Quote
3. Hornbuckle Quote

Plumbing/Mechanical/HVAC/Electrical
1306 Mill Street
Rock Island, IL 61201
Ph: (309) 788-4573
Fx: (309) 788-4691

Date:3/23/2026

Attn: Stan O'Brien
Building and Grounds Supervisor
563-263-8933

RE: Musser Public Library
408 E 2nd St,
Muscatine, IA 52761

Scope of Work: Replace Existing Intellipak unit and upgrade controls

We Agree to Furnish Labor and Materials for the HVAC

Division 23-HVAC:

- Provide material and labor to demo the existing Trane Intellipak unit. This includes disconnect of electrical.
- Demolition of gas line back to union at the roof and cap/make safe. Shutoff valve and existing pipe to remain.
- Provide material and labor to install a new Trane IPAK Roof Top Unit per city scope of work. This includes tie in of electrical.
- Provide material and labor to install new Tracer frontend and controls to RTU-1 per city scope of work.
- Provide factory startup and Check out with Trane.

Optional add:

- LON controls upgrade (RTU-6,7,8, EF Controller)

Clarifications

Included –

- Permit
- Crane for our work
- Starup and check out of new unit.
- 1 Year Crawford Labor Warranty
- Owner training for Crawford Co. supplied systems

Excluded –

- Sales Tax
- Bonding or allowances
- 3rd party commissioning agent.
- Fire Protection testing, or piping of any kind
- Temp heat, cooling, or dehumidification.

Miscellaneous –

- Change in proposed building layout may result in additional fees
- Any change in scope will be done by change order on lump sum or T&M rate.
- We specifically exclude anything not mentioned in this proposal
- Time based on a normal 40-hour work week
- This proposal expires 30 days from date of issue

Note:

Unit lead time 13-14 Weeks

Base Bid for **HVAC**:	$218,882.00
Option to add in Trane Lon Controls Package:	$26,970.00

Thank you for considering Crawford Company Muscatine. Please contact us with any questions.

Sincerely,

Tyler Green
309-631-1412

Payment of the proposal price, plus additional work performed, shall be due upon completion of the job (net 30 days), unless a different payment schedule is specified in writing on this form. All amounts unpaid after completion of the job, or as assembled by any different pay schedule, shall be charged at an annual interest rate of 18% and be in addition to the proposal price. Should it become necessary for Crawford Company to retain an attorney or collection agency to collect any payment after it becomes due, owner agrees to pay all costs of collection including reasonable attorney fees or collection agency fees. This agreement shall be governed by the law of the State of Illinois without regard to principles of conflicts of laws. The parties agree that the sole and exclusive jurisdiction and venue for any dispute arising out of or in any way related to this Contract shall be Rock Island County, the United States District Court for the Central District of Illinois Rock Island Division, and Purchaser agrees to consent to personal jurisdiction in the State of Illinois.

MODERN

INTEGRITY | SERVICE | LEADERSHIP | EMPOWERMENT | INNOVATION

www.moderncompaniesinc.com

Modern Companies, Inc.

City Of Muscatine

Mechanical Investment Service Proposal

Date:
1/30/2026

Proposal Number:
P05441

Prepared for:
City of Muscatine Public Library
408 East 2nd Street
Muscatine, IA 52761

Prepared by:
Scott Impens

scott.impens@moderncompaniesinc.com

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MODERN

PROJECT PROPOSAL

Company
Modern

Proposal Date: 1/30/2026
Proposal Number: P05441

Ph: Fax:

Bill To Identity
City Of Muscatine
1459 Washington Street
Muscatine, IA 52761

Agreement Location
City of Muscatine Public Library
408 East 2nd Street
Muscatine, IA 52761

WE ARE PLEASED TO SUBMIT OUR PROPOSAL TO PERFORM THE FOLLOWING:

OUR PRICE FOR THIS PROPOSAL IS
.....$230,932.87

OUR PROPOSAL INCLUDES:

Trane 55-Ton Fully Electric Intellipak RTU Replacement

- Disconnect utilities and prepare existing Trane Intellipak RTU for removal
- Provide subcontracted to remove existing RTU and set new
- Provide subcontracted electrician for electrical work
- Provide and install new Trane Intellipak RTU
- Cap existing gas lines and abandon as new unit is fully electric
- Factory start up and operational verification

Trane Control Upgrade
Network
- Furnish and install Tracer SC+ frontend control panel serving existing HVAC equipment and equipment listed below.
- Extend new BACnet communication link to RTU-1.
- Provide labor and materials to setup Web-Based Operator Interface.
- Provide Web-Based Graphics for building floor plan and mechanical equipment.
- Integrate all existing Trane equipment into new web-based interface.

Rooftop Unit (RTU-1)
- Control and monitor Rooftop Unit.
- Extend BACnet Communication to the factory provided BACnet Controller.
- Integrate existing field end devices.
- Map associated control points to the front-end control system.

Option to add in Trane LON Controls Package:.....$29,966.66

Optional LON Controls Upgrade (RTU-6,7,8, EF Controller)
- Furnish and install Trane field programmable BACnet DDC controllers for (3) RTU and (1) Exhaust Fan

Controller. Replace existing LON controllers.
- Extend BACnet Communication to RTU-6,7,8 and exhaust fan controller.
- Integrate existing field end devices.
- Map associated control points to the front-end control system.

Exclusions:

- Additional roof work outside of equipment curb adjustment
- Duct balancing
- Insulation
- Cutting, Patching, Painting
- Any work not directly stated in this proposal

WARRANTY: Our warranty on work performed is one (1) year, parts and labor.

TERMS OF PAYMENT: Monthly Progress Billing. Material and equipment furnished under this proposal shall remain the property of the seller until final payment has been received.

NOTE: Unless stated otherwise, prices do not include taxes and freight. Prices in this proposal are honored for 30 days from the quote date.

Upon execution as provided below, this agreement, including the following pages attached hereto (collectively, the "Agreement"), shall become a binding and enforceable agreement against both parties hereto. Customer, by execution of this Agreement, acknowledges that it has reviewed and understands the attached terms and conditions and has the authority to enter into this Agreement.

Contractor

Signature (Authorized Representative)

Scott Impens

Name (Print/ Type)

Phone

1/30/2026 P05441

Date Proposal #

Customer

Signature (Authorized Representative)

Name (Print/ Type)

Title

Date PO#

MODERN

Project Agreement Terms and Conditions

The following terms and conditions are incorporated into and a part of the agreement between Contractor and Customer (the "Agreement"):

1. Customer shall permit Contractor free and timely access to areas and equipment, and allow Contractor to start and stop the equipment as necessary to perform required services. All planned work under this Agreement will be performed during the Contractor's normal working hours.

2. Contractor warrants that the workmanship hereunder shall be free from defects for thirty (30) days from date of installation. If any replacement part or item of equipment proves defective, Contractor will extend to Customer the benefits of any warranty Contractor has received from the manufacturer. Removal and reinstallation of any equipment or materials repaired or replaced under a manufacturer's warranty will be at Customer's expense and at the rates in effect. CONTRACTOR MAKES NO OTHER WARRANTIES, EXCEPT AS DESCRIBED HEREIN, AND EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

3. Contractor may invoice Customer on a monthly basis. Customer will promptly pay invoices within thirty (30) days of receipt. Should a payment become thirty (30) days or more delinquent, Contractor may stop all work under this Agreement without notice and/or cancel this Agreement, and the entire Agreement amount shall become due and payable immediately without notice or demand. In addition, if Contractor does not receive payment of a properly submitted invoice within thirty (30) days, Customer shall accrue a late charge on the balance outstanding at the lesser of (a) 1 1/2% per month of (b) the highest rate allowed by law, in each case coupounded monthly to the extent allowed by law.

4. Any alteration to, or deviation from, this Agreement involving extra work, cost of materials or labor will become an extra charge (fixed price amount to be negotiated or on a time-and-materials basis at Contractor's rates then in effect) over the sum stated in this Agreement.

5. In the event Contractor must commence legal action in order to recover any amount payable or owed to Contractor under this Agreement, Customer shall pay Contractor all court costs and attorneys' fees incurred by Contractor.

6. In the event of a breach by Contractor of the terms of this Agreement, including without limitation Section 2, or in the event Customer incurs any liability in connection with the rendering of services by Contractor, Customer's sole remedy against Contractor shall be for Contractor to re-perform the services in accordance with the warranty or, if such services cannot be re-performed or such re-performance does not cure the breach or the liability, to refund to Customer the amount paid to Contractor under this Agreement, up to Customer's direct damages caused by such breach or liability. Notwithstanding the foregoing, in no event shall the liability of Contractor in connection with any products or services, whether by reason of breach of contract, tort (including without limitation negligence), statute or otherwise exceed the amount of fees paid by Customer to Contractor for those products or services. Further, in no event shall Contractor have any liability for loss of profits, loss of business, indirect, incidental, consequential, special, punitive, indirect or exemplary damages, even if Contractor has been advised of the possibility of such damages. In furtherance and not in limitation of the foregoing, Contractor shall not be liable in respect of any decisions made by Customer as a result of Contractor's services. Any action, regardless of form, against the Contractor relating to this Agreement, or the breach thereof, must be commenced within one (1) year from the date of the work.

7. Contractor shall not be liable for any delay, loss, damage or detention caused by acts or circumstances beyond its control including, without limitation, unavailability of machinery, equipment or materials, delay of carriers, strikes, including those by Contractor's employees, lockouts, civil or military authority, priority regulations, insurrection or riot, war, acts of terrorism, action of the elements, forces of nature, or by any cause beyond its control.

8. To the fullest extent permitted by law, Customer shall indemnify and hold harmless Contractor, its agent and employees from and against all claims, liabilities, damages, losses and expenses (including but not limited to attorneys' fees) arising out of or resulting from the performance of work hereunder or any act or omission arising out of or related to this Agreement, provided that such claim, damage, loss or expense is caused in whole or in part by an active or passive act or omission of Customer, anyone directly or indirectly employed by Customer, or anyone for whose acts Customer may be liable, regardless of whether it is caused in party by the neglilgence of Contractor. Further, and notwithstanding the preceding sentence, Contractor shall be held harmless and shall not be liable to Customer for any claims, liabilities, damages, losses and expenses related to mold or to the creation of mold at Customer's location(s) and shall have no obligation to treat, identify or remove such mold.

9. Customer shall make available to Contractor's personnel all pertinent Material Safety Data Sheets (MSDS) pursuant to OSHA'S Hazard Communication Standard Regulations.

10. Contractor's obligation under this proposal and any subsequent contract does not include the identification, abatement or removal of asbestos, mold or any other toxic or hazardous substances, hazardous wastes or hazardous materials. In the event such substances, wastes and materials are encountered, Contractor's shall have the right thereafter to suspend its work until such substances, wastes or materials and the resultant hazards are removed. The time for completion of the work shall be extended to the extent caused by the suspension and the contract price equitably adjusted. As previously provided, Contractor shall be held harmless and shall not be liable for any claims, liabilities, damages, losses and expenses related to such substances, wastes and materials, including the failure to identify or notify Customer of such substances, wastes and materials.

11. This Agreement is between Contractor and Customer alone, and neither intends that there be any third party beneficiaries to this Agreement. Without limiting the generality of the foregoing, by entering into this Agreement and providing services on Customer's behalf, Contractor is not assuming any duty or abligation to any of Customer's employees, vendors, clients, subcontractors, agents, shareholders, partners or members. Customer agrees to indemnify and hold Contractor harmless from and against any and all liabilities, losses, claims, costs, expenses and damages (including without limitation reasonable attorneys' fees) incurred by Contractor by reason of a claim brought against Contractor by any of Customer's employees, vendors, clients, subcontractors, agents, shareholders, partners or members with respect to the services provided by Contractor on Customer's behalf.

12. Each of the parties hereto is an independent contractor and neither party is, nor shall be considered to be, an agent, distributor or representative of the other. Neither party shall act or present itself, directly or indirectly, as an agent of the other or in any manner assume or create any obligation on behalf of, or in the name of, the other.

13. These terms and conditions, together with the attached documents, constitutes the entire agreement and understanding among the parties hereto and supersedes any and all prior agreements and understandings, oral or written, relating to the subject matter hereof. It sets forth the terms for the provision of any products or services Contractor may provide Customer, whether in connection with the particular engagement that is identified as the subject of this Agreement or otherwise, unless and until a written instrument is signed by an authorized representative of Contractor agreeing to different terms. This Agreement shall not be assignable by Customer and Contractor without the express prior written consent of either party. This Agreement shall be governed by and construed in accordance with the laws of the State of the Contractor's headquarters are located, without giving effect to that State's conflicts of laws principles.

14. If paying with credit card a 3% surcharge will be added to total project price.

HORNBUCKLE
HEATING & AIR CONDITIONING
RESIDENTIAL • COMMERCIAL • INDUSTRIAL
5545 Carey Avenue • Davenport, IA 52807 • Ph. (563) 391-5553 • Fax (563) 391-9596

PROPOSAL – MARCH 10, 2026

TO: CITY OF MUSCATINE
DEPARTMENT OF PUBLIC WORKS
BUILDING & GROUNDS
ATTN: STAN O'BRIEN

JOB: MUSSER PUBLIC LIBRARY
RTU REPLACEMENT
408 EAST 2ND STREET
MUSCATINE, IA 52761
REVISED

We are pleased to quote material and labor for the following:

BASE BID

1 **55 ton VAV RTU-1 with 460/3/60 power, variable speed supply fan, electric heat, dry bulb economizer with power exhaust, powered convenience outlet, hinged access doors, hail guards, and factory disconnect.**
Trane DDC controls and control wiring disconnect and reconnect including new Tracer SC+ front end control panel, communication link to new unit, web based operator interface, web based graphics for building floor plan and mechanical equipment, integrate all exiting equipment into new web based interface, control and monitor RTU-1, network connections, integration into the control system, mapping associated control points into the front end control system, and 4 hours of Owner training.
Demolition of existing unit and preparation of existing curb for new unit including replacement of existing isolation springs and EPDM skirting.
Power wiring disconnect and reconnect including new breaker and feeders as required (Tri City Electric).
Gas piping disconnect and reconnect (Crawford).
Factory startup.

$337,171.00

ALTERNATE BID #1

Optional LON controls upgrade including field programmable BACnet DDC controllers for RTU-6, RTU-7, RTU-8, and a roof mounted exhaust fan, network connections, integration into the control system, and mapping associated control points into the front end control system.

ADD $32,064.00

TOTAL: $369,235.00

This proposal does not include structural steel modifications, equipment screens, shift/overtime labor, painting, or performance/payment bond.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents, or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance. This proposal may be withdrawn by us if not accepted within thirty (30) days.

HORNBUCKLE HEATING & AIR CONDITIONING

RYAN HORNBUCKLE

CITY OF MUSCATINE

AUTHORIZED REPRESENTATIVE

2017 BBB Torch Awards for Ethics Recipient

City of Muscatine

ITEM NUMBER 2026-0125

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Brian Stineman, Public Works Director

SUBJECT

Request to approve change order number one to the taxi lane construction project at the Muscatine municipal airport

EXECUTIVE SUMMARY

Presented for Council consideration is a request to approve Change Order Number One to the Taxilane Construction Project at the Muscatine Municipal Airport.

STAFF RECOMMENDATION

Approve the request

BACKGROUND/DISCUSSION

After stockpiling wasted excavation material from the taxiway construction and final grading, the amount of stockpiled material was greater than anticipated, and extended into areas planned for a future taxilane extension. The stockpile also extended into the drainageway intended for large storm events. For both reasons, the stockpiled material needs to be moved to a location clear of both planned construction and the defined drainageway. The area along Highway 61 right-of-way fenceline is the best location to relocate the waste stockpile. For maintenance reasons, maximum slopes will be flattened, extending the footprint of the relocated material, and this area has sufficient room for relocation. Current costs including this change order remain well within funding limitations. Kent Worldwide has agreed to pay for the local share of the change order cost.

CITY FINANCIAL IMPACT

Grant funding will cover the majority of the cost of this change order and Kent Worldwide will pay for the local share. There is no direct cost to the City.

ATTACHMENTS

1. 137804_MUT_IaDOT_CO No 1_Signed JH GJ

CHANGE ORDER

No. 1

TAXILANE CONSTRUCTION
MUSCATINE MUNICIPAL AIRPORT (MUT)

OWNER: MUSCATINE, IOWA CONTRACT NO.: CNTRT-00008976 IDOT Project No.: 9I260MUT100

CONTRACTOR: HEUER CONSTRUCTION, INC. ENGINEER: GARRETT JACOBS, P.E.

You are directed to make the following changes in the Contract Documents.

Description: The existing waste excavation material stockpile shall be moved from its current location to the location shown on the provided layout to continue to facilitate large storm event drainage and simplification of effort for constructing a taxilane extension in the future.

CHANGE IN CONTRACT PRICE:	CHANGE IN CONTRACT TIMES:
Original Contract Price $ 281,704.25	Original Contract Times Completion Date: December 31, 2025
Net changes from previous Change Orders No. N/A to No. N/A $ 0.00	Net changes from previous Change Orders No. N/A to No. N/A Completion Date: 0
Contract Price Prior to this Change Order $281,704.25	Contract Times prior to this Change Order Completion Date: December 31, 2025
Net Increase of this Change Order $ 34,935.00	Net Increase of this Change Order Calendar Days: 121
Contract Price with all approved Change Orders **$ 316,639.25**	Contract Times with all approved Change Orders Completion Date: April 30, 2026

REQUESTED:	RECOMMENDED:	APPROVED:
By: _____	By: _____	By: _____
Authorized Representative Heuer Construction, Inc.	Aviation Project Manager Bolton & Menk, Inc.	Authorized Staff Member City of Muscatine, Iowa
Date: 3-26-26	Date: 3/27/2026	Date: _____

Attachments:
1 – Supporting Documentation
2 – Change Order Layout

CHANGE ORDER

No. 1

TAXILANE CONSTRUCTION
MUSCATINE MUNICIPAL AIRPORT (MUT)

OWNER: MUSCATINE, IOWA CONTRACT NO.: CNTRT-00008976 IDOT Project No.: 9I260MUT100

CONTRACTOR: HEUER CONSTRUCTION, INC. ENGINEER: GARRETT JACOBS, P.E.

1. **HAS THIS CHANGE ORDER BEEN DISCUSSED WITH CITY OFFICIALS?**
   This Change Order has been discussed preliminarily with City of Muscatine staff.

2. **BRIEF DESCRIPTION OF THE PROPOSED CONTRACT CHANGE(S) AND LOCATION(S).**
   Waste excavation material generated from the taxilane construction project shall be moved from its current position (within the extents of a future taxilane extension) to the location shown on the provided layout (adjacent to the airport fence, parallel to Highway 61).

3. **REASON(S) FOR THE CHANGE(S).**
   After stockpiling wasted excavation material from the taxiway construction and final grading, the amount of stockpiled material was greater than anticipated, and extended into areas planned for a future taxilane extension. The stockpile also extended into the drainageway intended for large storm events. For both reasons, the stockpiled material needs to be moved to a location clear of both planned construction and the defined drainageway. The area along Highway 61 right-of-way fenceline is the best location to relocate the waste stockpile. For maintenance reasons, maximum slopes will be flattened, extending the footprint of the relocated material, and this area has sufficient room for relocation. Current costs including this change order remain well within funding limitations.

4. **JUSTIFICATIONS FOR UNIT PRICES OR TOTAL COST.**
   The unit price utilized for the change order bid item is the same as was utilized for Excavation, Class 13.

   Additional Calendar Days have been added to the Change Order to accommodate completion of this work.

5. **CONFORMANCE WITH SPECIFICATIONS AND SUDAS STANDARDS.**
   All items mentioned in this Change Order will comply with the Project Specifications and SUDAS Standards.

CHANGE ORDER SUPPORTING DOCUMENTATION

Change Order No. 1 **Project:** Taxilane Construction

Engineers Project No. 25X.137804.000 **FAA AIP:** N/A **IDOT Prj No.** 9I260MUT100

ITEM NO.	ITEM	UNIT	UNIT PRICE	ORIGINAL BID QUANTITY	ORIGINAL BID COST	CHANGE ORDER UNIT PRICE CHANGE	CHANGE ORDER QUANTITY CHANGE	REVISED CONTRACT QUANTITY	REVISED CONTRACT COST	CURRENT CHANGE ORDER VALUE
CO1-1	LOCATION CHANGE OF EXCAVATION WASTE MATERIAL STOCKPILE	CY	$ -	0	$ -	$ 8.50	4,110	4,110	$ 34,935.00	$ 34,935.00
					$ -	$ -		0	$ -	$ -
					$ -	$ -		0	$ -	$ -
					$ -	$ -		0	$ -	$ -
					$ -	$ -		0	$ -	$ -
					$ -	$ -		0	$ -	$ -
					$ -	$ -		0	$ -	$ -
					$ -	$ -		0	$ -	$ -
									TOTAL AMOUNT CHANGE ORDER NO. 1	**$ 34,935.00**



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H:\RYANCO_PR\25X\137804000\CAD\C3D\FIGR\137804-Change Order No.1 2026 3 25.dwg 3/25/2026 2:36:17 PM

HORZ. 0 50 100 SCALE FEET

BOLTON & MENK
401 FIRST ST SE, SUITE 201
CEDAR RAPIDS, IOWA 52401
Phone: (319) 362-3219
Email: CedarRapids@bolton-menk.com
www.bolton-menk.com

DESIGNED	REV	DESCRIPTION	DATE
CDW			
DRAWN			
GTJ			
CHECKED			
GTJ			
CLIENT PROJ. NO.			
25X.137804.001			

MUSCATINE MUNICIPAL AIRPORT
TAXILANE CONSTRUCTION
RELOCATE WASTE EXCAVATION MATERIAL STOCKPILE
CHANGE ORDER NO. 1

SHEET 1

City of Muscatine

ITEM NUMBER 2026-0127

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Brian Stineman, Public Works Director

SUBJECT

Request to approve the issuance of a purchase order to Greiner Buildings in the amount of $129,298.75 for the construction of a storage building for the Building & Grounds Division of Public Works.

EXECUTIVE SUMMARY

Request to approve the issuance of a purchase order to Greiner Buildings in the amount of $129,298.75 for the construction of a storage building for the Building & Grounds Division of Public Works.

STAFF RECOMMENDATION

Staff recommends issuing a purchase order to Greiner Buildings in the amount of $129,298.75.

BACKGROUND/DISCUSSION

The current storage building utilized by the Building & Grounds Division of Public Works is a 1950's era Quonset hut that has previously been relocated from the riverfront to the Public Works lower lot yard between Washington and 5th Streets. The current building is over 70 years old. It has multiple holes in the roof and sides, the floor is not level, and the doors do not shut properly. There have routinely been issues with large and small animals getting into the building and ruining stored materials.

Building & Grounds uses this building for storage of materials and equipment that are used throughout the city on a regular basis. Not having a level floor requires equipment and material to be unloaded and moved with a loader shared by the Roadway Maintenance Division instead of a pallet jack or by handcart. A new building was approved in the FY2025/26 budget. We propose to construct this building on a level area inside the fence in our lower lot. In order to keep costs low, city staff will install the final electrical and heating portions of the work. Public Works intends to use the Quonset hut building that will be vacated by Building & Grounds to store leaf boxes and other equipment that will be less likely to be affected by the condition of the building.

Three quotes were received to construct a 30' wide x 80' long metal building. The quote from Greiner Buildings was the least expensive, most responsible bid. Construction can be completed this year.

Vendor	Quote
Greiner Buildings	$129,298.75
Wick Buildings	$130,758.00
Eastern Iowa Building, Inc.	$131,150.00

CITY FINANCIAL IMPACT

$131,000 was budgeted and approved for this project in the Building and Grounds Deferred Maintenance budget.

ATTACHMENTS

1. EIB Proposal
2. Greiner Proposal
3. Wick Proposal
4. B&G Building Site Map

March 17, 2026

Stan O'Brien
City of Muscatine, IA

30'x80'x17' Clear Height Pre-Engineered Post Frame Building Bid

- **2021 IBC Code Compliant** structure with engineer stamped plans for permitting
- Three ply 2" x 6" nail laminated columns **(lifetime warranty on treated column lumber)** to be set minimum 42" below grade on concrete footings and backfilled with spoils unless noted otherwise
- All framing lumber used will be No. 2 and better SPF or Southern Yellow Pine / MSR
- All roof purlins will be attached with structural screws
- All wall girts to be bypassed 2" x 4" placed 24" O.C
- All building columns and roof trusses to be placed 8' O.C
- One 3'x6'8" steel insulated walk door with lever handle lockset framed and trimmed
- Four 14'x14' insulated overhead doors with openers installed
- 6" smooth trowel finished concrete floor with steel reinforcement and vapor barrier installed
- All steel is fastened with stainless steel capped, painted to match screws
- 29-gauge Kynar painted steel install on all exterior walls and roof (**40-year warranty**)
- 20-year structural building warranty
- 6" gutters and downspouts with snow guard trim
- Dumpster provided by EIB
- Portable toilet provided by EIB
- Builders Risk insurance provided by EIB

Includes: Material, Freight, Labor, Unloading and Sales Tax-

Total Building Investment: $131,150.00

Options:

Thank you for the opportunity to bid on your project. Please feel free to call me anytime if you have any questions or need more information. Thanks again.

-Lucas Grout
319-540-3443
Lucas@easterniowabuilding.com

a. Building permit fees and site plan by owner, if required **(typically acquired by EIB and paid for by customer)**
b. Concrete bids do not include any site work or additional fill material that may be needed unless noted otherwise above
c. Dumpster by customer unless noted otherwise above
d. Portable restroom by customer unless noted otherwise above
e. Builders risk insurance by customer unless noted otherwise above

GREINER BUILDINGS
COMMERCIAL | AGRICULTURAL | RESIDENTIAL
POST • STEEL • STUD FRAME | GENERAL CONTRACTING | DESIGN | RECOVERS

Justin Rettig
120 E Main St. Ste. 1
Washington, IA 52353
(515) 971-6833
(319) 653-5532 (office)
jrettig@gbinc.net

Date: **March 20, 2026**
Prepared For: **O'Brien, Stan**
Phone: **(563) 263-8933**

Building Type: Lined and Insulated Shop
Proposal Type: General Bid. Approximate prices based on preliminary planning.
Note: Pricing is subject to market conditions at the time of construction.

Base Building Description:

- 30' Wide x 80' Long x 17'-0" High (height measures from finished floor to bottom of truss)
- Designed to be code-compliant, stamped engineered plans fee included separately below
- 3-Ply 2x6 glu-lams on sidewalls 8' spacing. 3-Ply 2x6 glu-lams on ends 10' max spacing
  - **Please see PostSaver advanced treatment application upgrade option below**
  - **Dri-Crete posthole footings. 18" diameter sidewalls, 18" diameter endwalls**
  - **Postholes backfilled 2/3 with concrete and 1/3 with rock (rock supplied by customer)**
- Gable roof with a 3.5/12 roof pitch and flat bottom-chord
- Trusses 8' spacing, code-required snow-load, 4# top-chord dead-load, 5# ceiling-load
  - **Trusses are bolted to columns with two bolts per side**
- 2x6 MSR 1650 Wall girts fastened to exterior of columns
- 1 - Row 2x10 Treated Skirtboard
  - **See Plasti-skirt upgrade below**
- 12" overhangs on all four walls, vented soffit at eaves and solid soffit at gable ends
- Vented ridge on both sides of roof for the entire length
- Wainscot 36" high metal on all four walls
- 4 - 14'x14' Overhead Door openings on Sidewall, interior trims included
  - **Overhead doors specified and included separately from base building below**
- 1 - 3'0" x 6'8" Plyco 95E Series walk door w/ solid panel, polar white
  - **Door Accessories: 1 - lockset, 1 - foam-injected jamb**
  - **See walk door upgrades below**
- Insulated exterior walls using 6" R-19 Fiberglass Blanket insulation - w/ white vinyl backing
- Interior Wall Liner: 29 J-Panel Interior Liner Panel
- Ceiling Liner: 26 Gauge J-Panel Interior Liner Metal
  - **See acoustical liner upgrade below**
- Insulation bumpers at eaves included
- Exterior wall & roof metal: 29 Gauge J-Panel Profile SMP Paint Galvalume Substrate
  - **See 29GA SMP alternate below**
  - **See 26GA SMP alternate below**
  - **See 26GA KYNAR upgrade below**
- Building to have permanent safety brackets with exposed anchor tab at ridge

Total Base Building, Materials and Labor:	**$82,138.73**
Additional Items: (Figures below are estimates only)	
Structural stamped engineered plans	$554.40
Cellulose blow-in attic insulation, R-value 38, blown 12 inches thick	$2,904.00
Overhead doors	$22,660.00
○ 4 - 14'x14' Clopay Model 3715 overhead door, or equivalent	
○ Model ATSW-T Chain Drive operators or equivalent	
○ Color: White	
○ 8 - 3 Button Deluxe Transmitter (remote controls)	
○ Low voltage wiring by others	
○ **See alternates below for upgrading doors and operators**	
5k seamless gutter, downspouts on both sides, Kickout, w/ extension	$2,750.00
6" Concrete floor, w/ rebar 3' on-center, vapor barrier, no sealer	$17,490.00
2,400 Total floor square footage, 4,000 PSI Compressive Strength	
Site Preparation (Customer to provide all necessary material)	$1,840.00
Dumpster/waste removal (May be removed if provided by others)	$1,581.25
Portable restroom (May be removed if provided by others)	$261.63
Subtotal (Before Discount):	**$132,180.00**
If we can beat the steel/material price increases expected	**($3,000.00)**
Grand Total After Discount:	**$129,180.00**

Alternates:

• Change wall/roof panel to 29GA SMP **ADD**	$600.00
• Change wall/roof panel to 26GA SMP **ADD**	$4,700.00
• Install 8"x16" thickened edge concrete around the perimeter **ADD**	$2,950.00
• Upgrade overhead doors and operators ESTIMATE ONLY **ADD**	$2,750.00

Upgrade Options:

• Kynar painted wall, roof, trim. G90 galvanized edge-rust resistant metal: (Substantially reduces chalking, fading, and edge-rusting)	$4,900.00
• PostSaver column wraps:	$2,275.00
• Perma-Column upgrade:	$8,250.00
• Plasti-Skirt splash-board protector:	$1,025.00
• 20 Srs. walk door vs 95 Srs. - 24 gauge panel, stainless steel hinges:	$165 per door
• 92 Srs. walk door vs 95 Srs. - Thermal break, stainless steel hinges:	$370 per door
• 8" wide x 16" deep perimeter concrete barrier, 220 Linear feet	$1,375.00
• 8" wide x 48" deep insulated frost wall, 220 Linear feet	$13,875.00
• Acoustical ceiling liner upgrade:	$575.00
• Drip-X condensation control on roof:	$2,125.00
• 1 - Row of snow-guard per each side of building, 164 linear feet total:	$950.00
• Optional geotechnical soil test estimate (official quote required):	$4,500.00
• Add clear sealer to concrete floor	$720.00

General Stipulations:

- Quotes subject to code & permit approval. Permit fees to be obtained and paid by customer.
- This quote assumes that electricity is readily available within reasonable distance of jobsite.
    - A 1/2% surcharge is added to jobs without readily available electricity
- If stamped engineered plans are required, additions for design requirements may be required.
- **During extreme market volatility, prices are honored until end of day Friday.**
- Jobsite to be accessible with a firm lane, minimal slopes or obstructions.
- A geotechnical engineering (soils) test is recommended for all new buildings to determine the soil and geologic conditions of a property and to provide recommendations and design criteria for construction.
- Quote assumes exposed electrical conduit. Requests for in-wall wiring will incur additional costs.

Due to ongoing volatility in tariffs and trade regulations, all tariffs, duties, import fees, or other government-imposed charges are excluded from this proposal. Any such costs imposed or increased after the proposal date will be passed through to the customer at cost. By accepting this proposal, the customer acknowledges these charges are outside Greiner Buildings' control and are their responsibility.

Wick Buildings

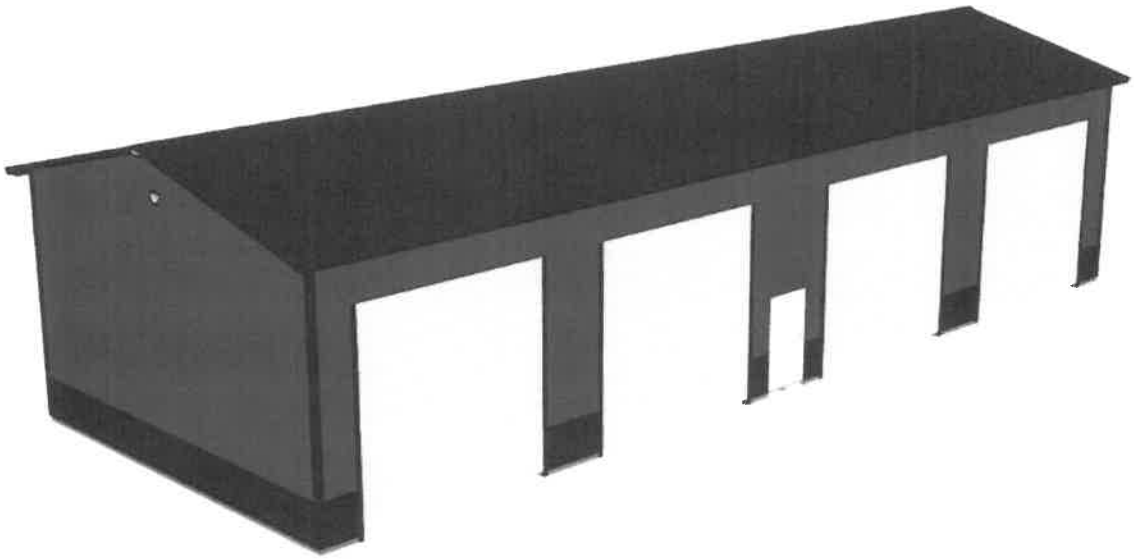
PROPOSAL

OWNER/PURCHASER
Stan O'Brien
City of Muscatine
MUSCATINE, IA 52761

BUILDING SITE
MUSCATINE, IA 52761
County: MUSCATINE

BUILDER
DAVE RIVER
CONSTRUCTION, INC.
1103 PERSHING ROAD
MAQUOKETA, IA 52060
Phone: (563) 559-0152

Building Design



Wick Buildings

PROPOSAL

The Wick Advantage

1. **TRUST.** DAVE RIVER CONSTRUCTION, INC. is a LOCAL, independent builder who lives and works in your community. **We earn your trust and work to keep it because our reputation matters to us.**

2. **ENGINEERED TO PERFORM.** Every Wick building is designed to your specific needs by Wick's in-house engineering team using defined standards that stand the test of time. **Protect what's important to you – both now and for the long term.**

3. **INDUSTRY-BEST MATERIALS.** Wick uses only the finest building materials, down to the smallest component in your building. **Get the building you deserve.**
    a. Lumber that meets or exceeds machine graded specs gives your building strength.
    b. Fully hardened steel (80,000+ PSI) with UL ratings for fire, impact and wind uplift protects your building against the elements and reduces your insurance premiums with many providers.
    c. Premium roof and sidewall fasteners that fight corrosion and reduce leaks.
    d. All structural components are connected with fasteners, providing pull-out strength much greater than nails.

4. **DIVERSE PAINT OPTIONS.** Wick offers modern paint colors and options you can't find elsewhere. **Create the unique look that you want.**
    a. Wick offers 38 forward-thinking paint options in solids, crinkles, and patterns.
    b. Matching paint is readily available at 5,000+ Sherwin Williams stores nationwide.

5. **WICK HAS YOUR BACK.** Industry-leading warranty and service with 70+ years of experience behind it. A warranty is only as good as the company that stands behind it. **Wick gives you peace of mind.**

Wick Buildings

PROPOSAL

SHOP SPECIFICATIONS: 30' W x 80' L x 16' ICH

Bay Spacing: 10 @ 8' 0" **Roof Pitch:** 3:12

Trusses: (11) SLC; All trusses with a 40 PSF Ground Snow Load

OPTION SPECIFICATIONS:

Wall Items

Sidewall 12" Overhang Aluminum Soffit on Bottom Sidewall	Full Coverage
-- Birdscreen for Sidewall Overhang	Full Coverage
Sidewall 12" Overhang Aluminum Soffit on Top Sidewall	Full Coverage
-- Birdscreen for Sidewall Overhang	Full Coverage
Endwall 12" Overhang Aluminum Soffit on Left Endwall	Full Coverage
Endwall 12" Overhang Aluminum Soffit on Right Endwall	Full Coverage
Wainscot 40" High on Bottom Sidewall	Full Coverage
Wainscot 40" High on Top Sidewall	Full Coverage
Wainscot 40" High on Left Endwall	Full Coverage
Wainscot 40" High on Right Endwall	Full Coverage

Interior Items

3'x2'x1" Premanufactured Hinged Attic Access Door	1 EA
Wick Liner Panel, Alpine White	Full Ceiling
2x6 Runners 72" O.C. (Code)	Full Ceiling
FW-3 36" on Center on Bottom Wall	Full Wall
-- Flushwall Girt Blocking 16' Height	Full Wall
FW-3 36" on Center on Top Wall	Full Wall
-- Flushwall Girt Blocking 16' Height	Full Wall
FW-3 36" on Center on Left Wall	Full Wall
-- Flushwall Girt Blocking 16' Height	Full Wall
FW-3 36" on Center on Right Wall	Full Wall
-- Flushwall Girt Blocking 16' Height	Full Wall
Wick Liner Panel, Alpine White on Bottom Wall	Full Wall
Wick Liner Panel, Alpine White on Top Wall	Full Wall
Wick Liner Panel, Alpine White on Left Wall	Full Wall
Wick Liner Panel, Alpine White on Right Wall	Full Wall
6" Thick Unfaced Batt on Bottom Wall	Full Wall
House Wrap on Bottom Wall	Full Wall
6" Thick Unfaced Batt on Top Wall	Full Wall
House Wrap on Top Wall	Full Wall
6" Thick Unfaced Batt on Left Wall	Full Wall

Wick Buildings

PROPOSAL

OPTION SPECIFICATIONS:

House Wrap on Left Wall	Full Wall
6" Thick Unfaced Batt on Right Wall	Full Wall
House Wrap on Right Wall	Full Wall
Doors / Windows	
Overhead Door Frameout (14' 0" x 14' 0")	4 EA
Plyco Series 32, 3068 Solid Walk Door	1 EA
-- Plyco Series 32 Walk door Bright White	1 EA
-- Header System	1 EA
Additional Items	
IBC Gable-Pitched 30'x80', 16' ICH, 8' Bays	1 EA
-- SLC Truss	11 EA
-- Girt Blocking	20 EA
2X12X20' M-23 SYP	4 EA

PROJECT ITEMS:

Structural Basic Plan Set	1 EA
Non-Illinois Structural Engineer Seal on Plan Set	1 EA

COLORS:

Roof	
Eave/Fascia/Gutter Trim	Slate
Ridgecap/Ridgevent	Slate
Roof Steel	Slate
UCR Trim at Rake	Slate

Wall	
J-Trim Under Soffit	Slate
Overhang Soffit	Slate
UCR Trim at Corner	Slate
UCR Trim at Wainscot	Slate
Wainscot Steel	Slate
Wall Sign	Black
Wall Steel	Graphite

Doors & Windows	
Overhead Door Trim	Slate

Total Proposed Investment: $130,758

***Pricing includes 2,400 sq.ft. 6" concrete, power-troweled and saw-cut finish with rebar 24" o.c.
Pricing includes 4 – 14'x14' R16.18 overhead doors, with operator and one remote each installed.
Pricing includes materials and labor for fully insulated and steel lined building. Electrical, HVAC, plumbing by other.
Sitework/Excavation not included.


ashington St
Proposed Building Location
Quonset Hut

City of Muscatine

ITEM NUMBER 2026-0105

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Jodi Royal-Goodwin, Community Development Director

SUBJECT

Request to approve a contract with North Construction, not to exceed $24,999.00, for improvements at 714 Mulberry Avenue as part of Ignite Vitality: Mulberry Project

EXECUTIVE SUMMARY

Presented for City Council's consideration is a contract to make improvements to the property at 714 Mulberry Avenue as part of the Ignite Vitality: Mulberry Project. All compliance activities were completed, allowing a Request for Bids to be issued, and a contract must be approved for work to begin.

STAFF RECOMMENDATION

Staff recommends Council approve the request.

BACKGROUND/DISCUSSION

The City of Muscatine was awarded a Community Development Block Grant (CDBG) from the Iowa Economic Development Authority (IEDA) to implement a neighborhood revitalization pilot program. City Council approved accepting this grant in April 2023. The project includes infrastructure improvements, demolition of blighted properties, commercial facade restoration, and exterior housing rehabilitation.

Exterior housing rehab, not to exceed $24,999 per property, is the single largest line-item in the CDBG grant ($750,000 of $1,738,000) and requires a number of tasks be completed before we can bid a project, including identifying interested and qualified homeowners, completing inspections and radon measurements, and finishing environmental reviews and consultations with the state historic preservation staff. Compliance activities are proceeding on specific projects. A request for bids was issued for a project at 714 Mulberry Avenue. The only bid received was from North Construction.

The attached contract is a draft that outlines the roles and responsibilities of the owner, contractor and City, and complies with IEDA and State of Iowa regulations as well as City

purchasing rules. All services are not-to-exceed $24,999. Approving the contract will allow grant activities to proceed as quickly as possible upon IEDA approval.

CITY FINANCIAL IMPACT

There is no impact to the general fund for approving this contract. All funding for these projects is from grant resources.

ATTACHMENTS

City of Muscatine

ITEM NUMBER 2026-0129

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Jodi Royal-Goodwin, Community Development Director

SUBJECT

Request to approve a contract with North Construction, not to exceed $24,999.00, for improvements at 715 Mulberry Avenue as part of Ignite Vitality: Mulberry Project

EXECUTIVE SUMMARY

Presented for City Council's consideration is a contract to make improvements to the property at 715 Mulberry Avenue as part of the Ignite Vitality: Mulberry Project. All compliance activities were completed, allowing a Request for Bids to be issued, and a contract must be approved for work to begin.

STAFF RECOMMENDATION

Staff recommends Council approve the request.

BACKGROUND/DISCUSSION

The City of Muscatine was awarded a Community Development Block Grant (CDBG) from the Iowa Economic Development Authority (IEDA) to implement a neighborhood revitalization pilot program. City Council approved accepting this grant in April 2023. The project includes infrastructure improvements, demolition of blighted properties, commercial facade restoration, and exterior housing rehabilitation.

Exterior housing rehab, not to exceed $24,999 per property, is the single largest line-item in the CDBG grant ($750,000 of $1,738,000) and requires a number of tasks be completed before we can bid a project, including identifying interested and qualified homeowners, completing inspections and radon measurements, and finishing environmental reviews and consultations with the state historic preservation staff. Compliance activities are proceeding on specific projects. A request for bids was issued for a project at 715 Mulberry Avenue. The only bid received was from North Construction.

The attached contract is a draft that outlines the roles and responsibilities of the owner, contractor and City, and complies with IEDA and State of Iowa regulations as well as City

purchasing rules. All services are not-to-exceed $24,999. Approving the contract now will allow grant activities to proceed as quickly as possible upon IEDA approval.

CITY FINANCIAL IMPACT

There is no impact to the general fund for approving this contract. All funding for these projects is from grant resources.

ATTACHMENTS

City of Muscatine

ITEM NUMBER 2026-0132

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Kevin Coon, City Engineer
Brian Stineman, Public Works Director

SUBJECT

Request to approve change order number 2 for the Muscatine CDF Relocation Project to Heuer Construction, Inc. for the amount of $32,313.00

EXECUTIVE SUMMARY

For Council consideration is a request to approve change order number 2 for Heuer Construction, Inc. in the amount of $32,313.00 for the Muscatine CDF Relocation Project. This project is the dredge spoils relocation.

STAFF RECOMMENDATION

Staff recommends approval of the request.

BACKGROUND/DISCUSSION

This change order addresses three separate issues on the project. During construction it was noted that the force main (previously installed by others) was shorter than anticipated and required additional length. An item for storm sewer was also noted to be absent from the bid request and is being added. The third item on the change order is for electrical conduit work needed due to the existing utility conditions not meeting what was needed for Muscatine Power and Water to relocate the electrical services for the apartment located along Mad Creek. The addition of the electrical items will decrease the Purchase Order that was previously acquired with Muscatine Power and Water to complete the electrical relocation.

CITY FINANCIAL IMPACT

Funds for this project are from future bond proceeds.

ATTACHMENTS

1. 2026-2-11 CO-2

IOWA DOT
SMARTER | SIMPLER | CUSTOMER DRIVEN

Form 830240 (11-15)

CONTRACT MODIFICATION

	Part	Non-Part
Non-Substantial	☐	☐
Substantial	☑	☐

No: CO 2

Concurrence Date

Contract ID: Muscatine CDF Relocation Project
County: Muscatine
Accounting ID:
Project No: N/A
Kind of Work: Dredge Spoils Relocation
Date Prepared: 4-1-26
Contractor: Heuer Construction, Inc.

You are hereby authorized to make the following changes to the contract documents.

A – Description of changes to be made or extra work to be done:

This change order is to allow for missing quantity in the bid for 12 inch HDPE stormwater pipe and an addional length of 10" ductile iron to be installed. There is also electrical conduit and an electrical handhole that will need to be installed in order to complete the electrical relocation work as well.

Add Item, 12" HDPE Dual Wall, 49 LF at a bid price of $85.00 for a total addition of $4,165.00

Add Item, 10" Ductile Iron Forcemain (under pavement), 60 LF at a bid price of $211.00 for a total addition of $12,660.00

Add Item, Electrical Conduit 3", 488 LF at a bid price of $26.00 for a total addition of $12,688.00

Add Item, Electrical Sweeps 18", 90*, Install Only, 10 EA at a bid price of $80.00 for a total addition of $800.00

Add Item, Electrical Handhole, Double Height, Install Only, 1 EA at a bid price of $2,000.00 for a total addition of $2,000.00

The total cost of this change order is $32,313.00

Contract Time Adjustment: ◉ No Time Added ○ Time Added _____ ○ To be determined later

When authorized, contractor agrees to perform the work outlined above in accordance with provisions of the contract documents.

Agreed: Crystal Gute (Contractor) 4-2-26 (Date)
Recommended: _____ (Site Staff) _____ (Date)

Approved: _____ (City Engineer) 4-2-26 (Date)
Approved: _____ (Public Works Director) _____ (Date)

Federal Participation ○ Approved ◉ Not Eligible
City of Muscatine _____ (Mayor (if required)) _____ (Date)

(Page 1 of 1)

HEUER Construction

DATE: 3/19/2026

CHANGE ORDER REQUEST

2360 BYPASS 61
MUSCATINE, IA 52761
PHONE: 563-264-8533
FAX: 563-263-4331

PROPOSAL NO. 4031

PAGE NO. 1 OF 1 PAGES

PROPOSAL SUBMITTED TO: CITY OF MUSCATINE

JOB NAME: MUSCATINE MARINA

ATTN: KEVIN COON

JOB LOCATION: MUSCATINE, IOWA

12" HDPE	49 LF	@ $85.00	$4,165.00
10" DUCTILE IRON PIPE	60 LF	@ $211.00	$12,660.00
			$16,825.00

WE PROPOSE to furnish material and labor - complete in accordance with above specifications for the sum of

SIXTEEN THOUSAND EIGHT HUNDRED TWENTY FIVE DOLLARS 0/100 ($) 16,825.00

Payment to be made as follows:

NO DOWNPAYMENT REQUIRED--PAYMENT DUE IN FULL UPON COMPLETETION

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance.

Authorized Signature _____

Note: This proposal may be withdrawn by us if not accepted within 30 days.

ACCEPTANCE OF PROPOSAL The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Date of Acceptance: _____

Signature: _____

Signature: _____

HEUER Construction

DATE: 4/1/2026

CHANGE ORDER REQUEST

2360 BYPASS 61
MUSCATINE, IA 52761
PHONE: 563-264-8533
FAX: 563-263-4331

PROPOSAL NO. 4039

PAGE NO. 1 OF 1 PAGES

PROPOSAL SUBMITTED TO: CITY OF MUSCATINE

JOB NAME: MUSCATINE MARINA

ATTN: KEVIN COON

JOB LOCATION: MUSCATINE, IOWA

3" Electrical Conduit:	488 LF	@ $26.00	$12,688.00
18" 90* Electrical Sweeps (install only):	10 EA	@ $80.00	$800.00
Drive-over Electrical Handhole (Double height, install only):	1 EA	@ $2,000.00	$2,000.00
			$15,488.00

WE PROPOSE to furnish material and labor – complete in accordance with above specifications for the sum of

FIFTEEN THOUSAND FOUR HUNDRED EIGHTY EIGHT DOLLARS 0/100 ($) 15,488.00

Payment to be made as follows:

NO DOWNPAYMENT REQUIRED--PAYMENT DUE IN FULL UPON COMPLETETION

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance.

Authorized Signature Krystal Yuto

Note: This proposal may be withdrawn by us if not accepted within 30 days.

ACCEPTANCE OF PROPOSAL. The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Date of Acceptance: _____

Signature: _____

Signature: _____

City of Muscatine

ITEM NUMBER 2026-0131

AGENDA ITEM SUMMARY

DATE: 4/7/2026

STAFF

Kevin Coon, City Engineer
Brian Stineman, Public Works Director

SUBJECT

Request to approve change order number 4 to the West Hill Sewer Separation Project Phase 6C for the amount of $16,851.00

EXECUTIVE SUMMARY

Presented for Council consideration is a request to issue Change Order Number 3 for the West Hill Sewer Separation Project Phase 6C contract in the amount of $16,851.00.

STAFF RECOMMENDATION

Staff recommends approving the request.

BACKGROUND/DISCUSSION

While completing the paving on Roscoe Ave, it was noted that there were two clay field tiles that were previously believed to be abandoned. After further investigation, the tile lines were shown to drain private backyard inlets behind the houses west of Roscoe Ave. In order to pick up the flow from these inlets this change order allows for the installation of an eight inch subdrain for a portion of the roadway with connection points to the tile line. This will replace a proposed four inch subdrain.

Another private inlet on a driveway along Amy drive was found to discharge into the Upper West Branch Tunnel instead of to the ravine behind the houses as previously believed. In order to abandon this inlet a buried concrete retaining wall is proposed to allow for the driveway to be installed at a higher elevation without endangering the foundation of the home.

CITY FINANCIAL IMPACT

Funds for this project are available from the Local Option Sales Tax via the State Revolving Fund

ATTACHMENTS

1. 2025-6-14 CO-4

IOWADOT
SMARTER I SIMPLER I CUSTOMER DRIVEN

Form 830240 (11-15)

CONTRACT MODIFICATION

	Part	Non-Part
Non-Substantial	☑	☐
Substantial	☐	☐

No: CO 4

Concurrence Date

Contract ID: West Hill Phase 6C
County: Muscatine
Accounting ID:
Project No: N/A
Kind of Work: Sewer Separation
Date Prepared: 4-1-26
Contractor: Langman Construction, Inc

You are hereby authorized to make the following changes to the contract documents.

A – Description of changes to be made or extra work to be done:

This change order is to establish pay items to upsize the subdrain in an area of Roscoe Avenue in order to accommodate the flow from two existing clay tiles. There is also an item for combined sidewalk retaining wall being added in order to eliminate a trench drain at the foot of a driveway and allow for a driveway to be added at a positive drainage slope while protecting the home.

The adjusted items are as follows:

1. Decrease Item 52, TYPE 1 SUBDRAINS (LONGITUDINAL) CORRUGATED PE, 4", by 317 LF at a unit price of $12.00 for a total decrease of $3,804.00

2. Add Item, TYPE 1 SUBDRAINS (LONGITUDINAL) CORRUGATED PE, 8", by 317 LF at a unit price of $23.00 for a total addition of $7,291

3. Add Item, COMBINED CONCRETE SIDEWALK RETAINING WALL, 3', by 12 LF at a unit price of $463.00 for a total addition of $5,556.00

4. Add Item, GR 14/11 BACKFILL MATERIAL, by 80 CY at a unit price of $65.00 for a total addition of $5,200.00

Total cost of the change order is $16,851.00

Contract Time Adjustment: ◉ No Time Added ○ Time Added _____ ○ To be determined later

When authorized, contractor agrees to perform the work outlined above in accordance with provisions of the contract documents.

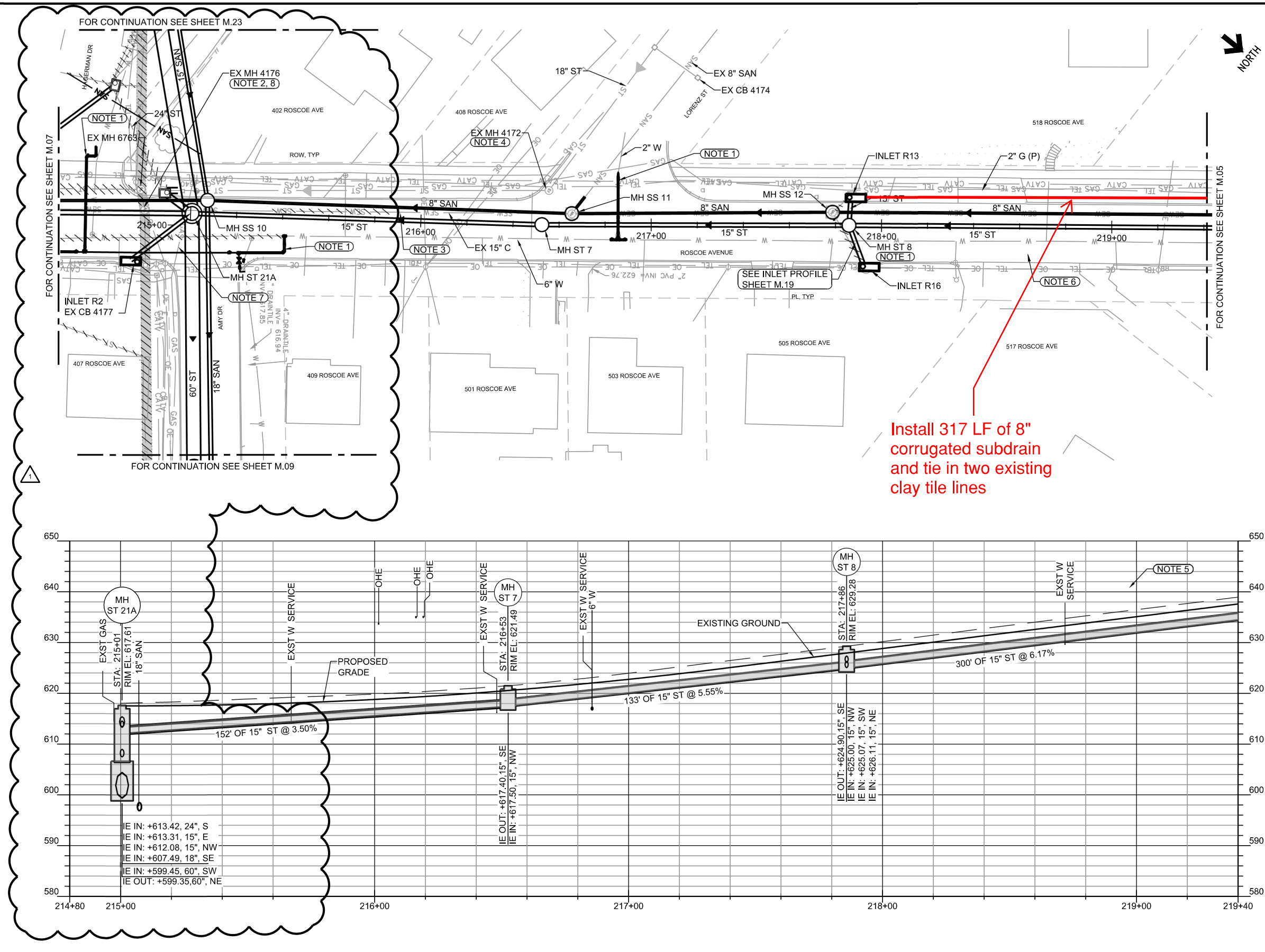
Agreed: Brian Gaul — Contractor — 4/2/2026 — Date
Recommended: _____ — Site Staff — Date

Approved: _____ — City Engineer — 4/2/26 — Date
Approved: _____ — Public Works Director — Date

Federal Participation ○ Approved ◉ Not Eligible

City of Muscatine _____ — Mayor (if required) — Date

(Page 1 of 1)



NOTES

1. SEE MPW PLANS FOR REPLACEMENT OF EXISTING WATER MAIN, SERVICES, HYDRANTS, VALVES BY OTHERS. COORDINATE STAGING OF WORK WITH MPW.
2. AT EXISTING MH 4176, REPLACE WITH STORM SYSTEM AS SHOWN ON SHEET M.23. DISCONNECT EXISTING 15" C FROM NORTHWEST AT IE = 609.81. DISCONNECT EXISTING 15"C FROM SOUTHEAST AT IE = 609.88. DISCONNECT EXISTING 12" STORM FROM NORTHEAST AT IE = 615.44.

   DISCONNECT EXISTING 24" PIPE AT MH AT IE = 614.17

   CONNECT NEW STORM SEWERS TO NEW RISER SECTION ON MH ST21A. (1)
3. INSTALL NEW STORM AT ALIGNMENT SHOWN. REMOVE EXISTING COMBINED SEWER AND MANHOLES AS WORK PROGRESSES WHEN INSTALLING NEW SEWERS. PLUG ALL OPEN ENDS OF INACTIVE SERVICES; AND ABANDON REMAINING PIPING IN PLACE.
4. PRESERVE EXISTING STORM MANHOLE. ADJUST RIM ELEVATION IF NECESSARY TO MATCH NEW PAVEMENT ELEVATION.
5. CONFIRM ELEVATION OF EXISTING WATER SERVICES. IF SERVICE IS IN CONFLICT WITH NEW SEWER. RELOCATE WATER SERVICE ACCORDING TO DETAILS ON SHEET A.05.
6. VIBRATION MONITORING IS REQUIRED ALONG THE PROJECT CORRIDOR ON EAST 11TH ST, WEST 11TH ST, AND IOWA AVENUE. VIBRATION MONITORING IS REQUIRED NEAR ADDRESS 518 ROSCOE AVENUE. SEE TABLE FOR LIST OF ADDRESSES THAT REQUIRE PROTECTION FROM VIBRATION IMPACTS ON SHEET C.16
7. COORDINATE WITH GAS COMPANY ON GAS LINE RELOCATION AHEAD OF SEWER CONSTRUCTION.
8. MAINTAIN COMBINED SEWAGE, SANITARY, AND STORM SEWER FLOW DURING DURATION OF CONSTRUCTION. TEMPORARY SYSTEM MAY INCLUDE BYPASSING, SANDBAGS OR OTHER METHODS OF FLOW CONTROL. TEMPORARY SYSTEM TO MAINTAIN FLOW MUST BE ADEQUATE FOR FLOW STREAMS TO PREVENT BACKUPS AND FLOODING. (1)

NO.	REVISIONS	DSGN	CHKD	APVD	DATE
1	ITC 05	KKH	ERS	KKH	

Stanley Consultants INC.
225 Iowa Avenue, Muscatine, Iowa 52761-3764
www.stanleyconsultants.com

CITY OF MUSCATINE - PHASE 6C
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

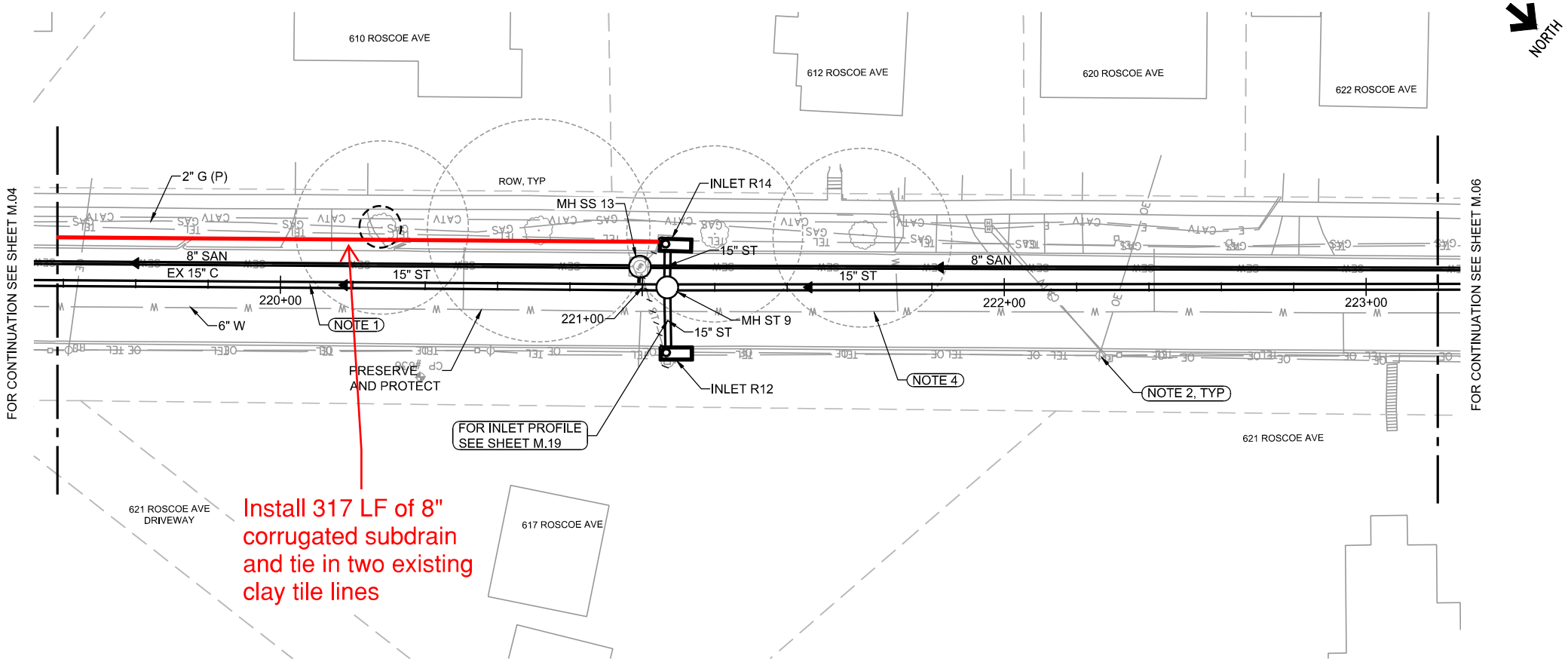
STORM SEWER
ROSCO NORTH BRANCH - SHEET 1

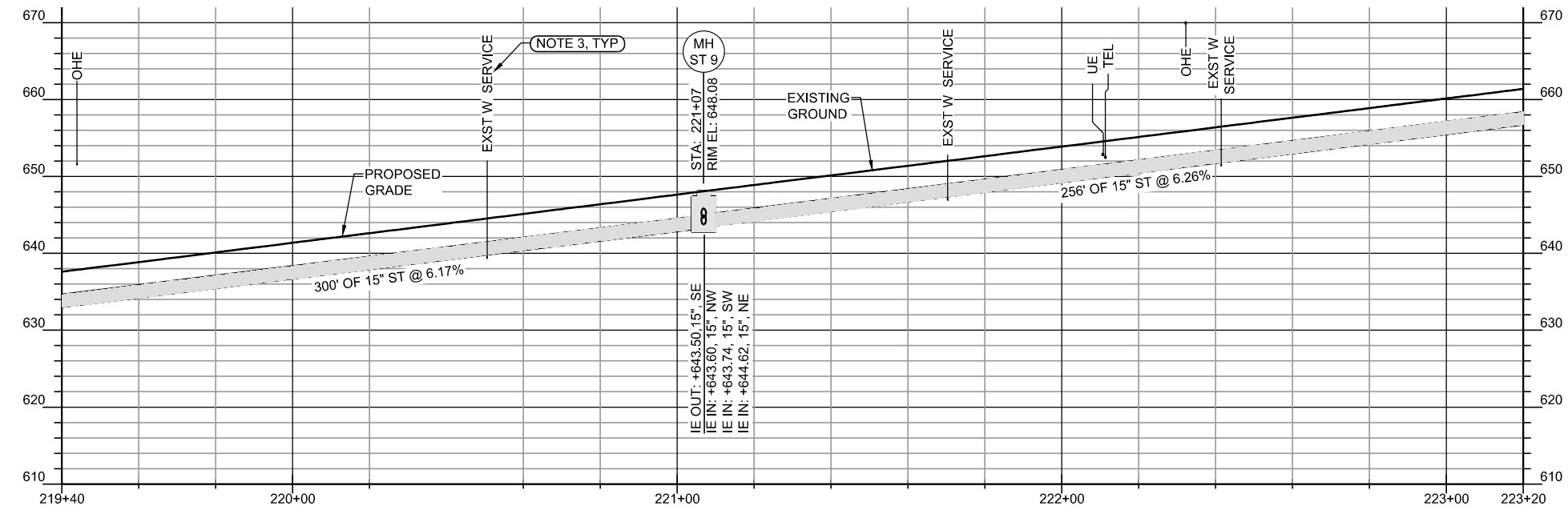
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 1, 2024

SCALE: 1" = 20"
NO. 17660.60.20
REV. 1
M.04

AT FULL SIZE
0 1 2 3 IN
0 1 2 3 4 5 6 7 8 cm

CADD D3-R5
© STANLEY CONSULTANTS





NOTES

1. INSTALL NEW STORM AT ALIGNMENT SHOWN. REMOVE EXISTING COMBINED SEWER AND MANHOLES AS WORK PROGRESSES WHEN INSTALLING NEW SEWERS. PLUG ALL OPEN ENDS OF INACTIVE SERVICES; AND ABANDON REMAINING PIPING IN PLACE.
2. PRESERVE AND PROTECT EXISTING POLES IN CLOSE PROXIMITY TO BACK OF CURB.
3. CONFIRM ELEVATION OF EXISTING WATER SERVICES. IF SERVICE IS IN CONFLICT WITH NEW SEWER, RELOCATE WATER SERVICE ACCORDING TO DETAILS ON SHEET A.05.
4. SEE MPW PLANS FOR REPLACEMENT OF EXISTING WATER MAIN, SERVICES, HYDRANTS, VALVES BY OTHERS. COORDINATE STAGING OF WORK WITH MPW.

AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NO.	REVISIONS	DSGN	CHKD	APVD	DATE

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CITY OF MUSCATINE - PHASE 6C
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

STORM SEWER
ROSCO NORTH BRANCH - SHEET 2

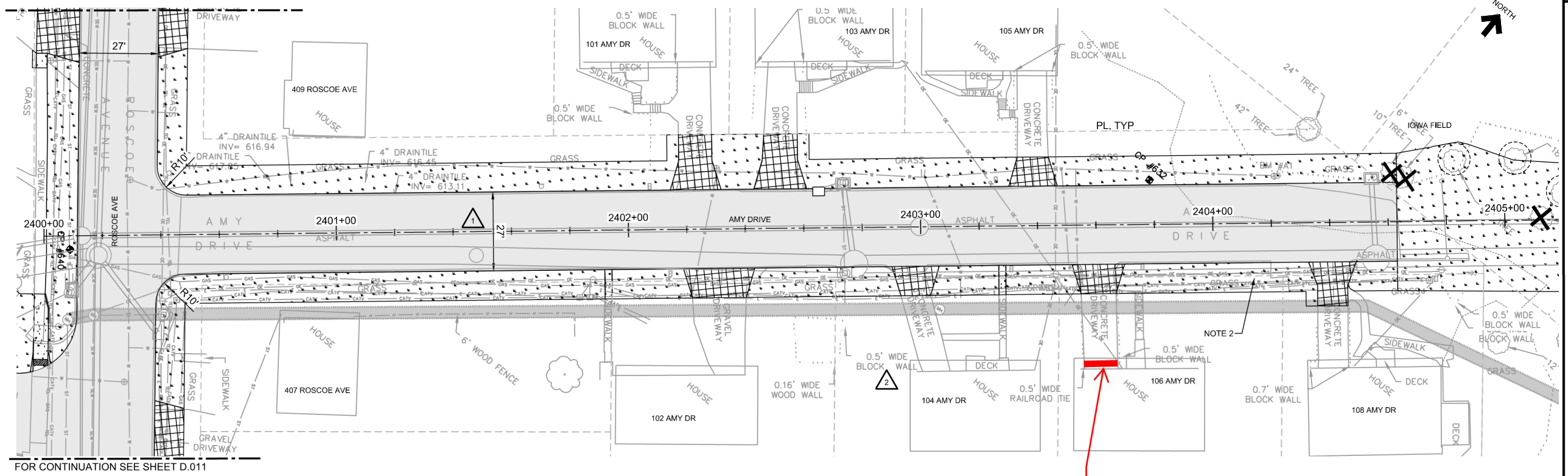
DESIGNED	KK HEIM
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	JM BRADY
APPROVED	KK HEIM
DATE	MARCH 1, 2024

SCALE: 1" = 20'

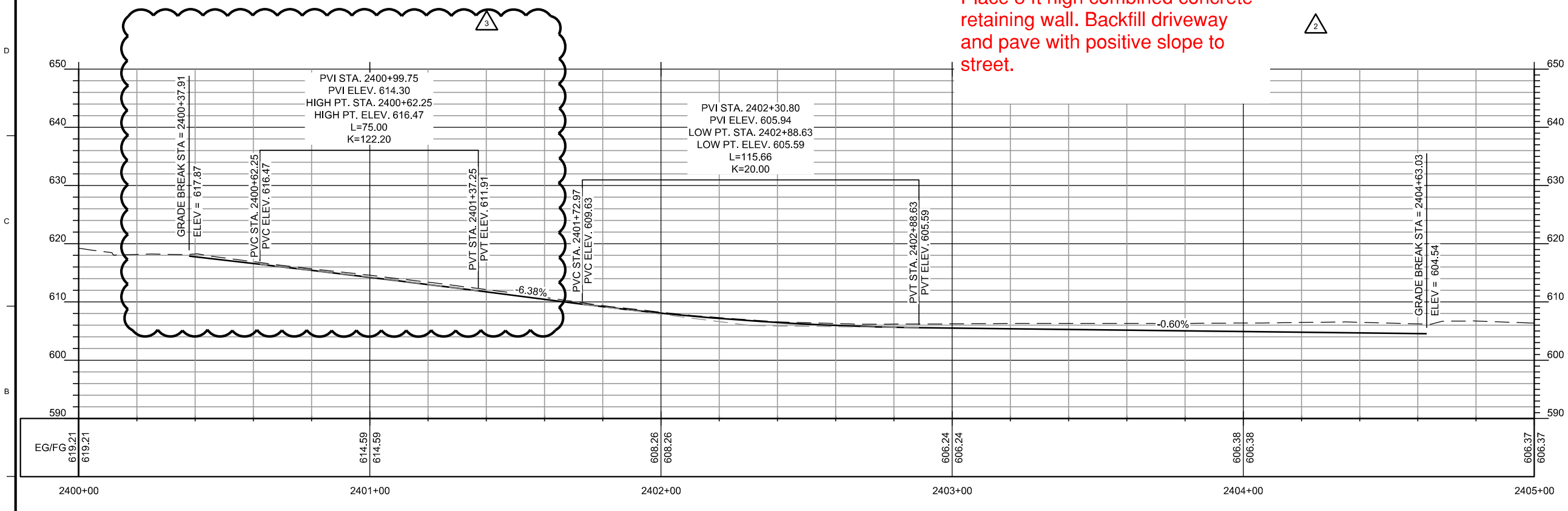
NO. 17660.60.20	REV.
M.05	0

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CADD D3-R5



Place 3 ft high combined concrete retaining wall. Backfill driveway and pave with positive slope to street.



AT FULL SIZE

0 1 2 3 IN

0 1 2 3 4 5 6 7 8 cm

NOTES

1. MAILBOXES SHALL BE SALVAGED AND RETURNED TO OWNER. COORDINATE WITH CITY ON LOCATION OF NEW MAILBOX PLACEMENT ON AMY DRIVE.
2. RESTORE EXISTING GRAVEL PARKING PAD AS PCC DRIVEWAY WITH DRIVEWAY DROP CURB. COORDINATE EXTENTS WITH CITY.

LEGEND

- 7" PCC PAVEMENT REPLACEMENT
- SIDEWALK REPLACEMENT
- DRIVEWAY AND ALLEY REPLACEMENT
- SEEDING
- DETECTABLE WARNING SURFACE

NO.	REVISIONS	DSGN	CHKD	APVD	DATE
3	ITC #8	PMJ	ERS	KKH	07-01-2025
2	ITC 7	PMJ	ERS		
1	REVISION 1 TO ADDENDUM 1	PMJ	ERS	KKH	3-28-2024

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CITY OF MUSCATINE - PHASE 6C
WEST HILL AREA SANITARY AND STORM SEWER SEPARATION
MUSCATINE, IOWA

PAVEMENT RESTORATION PLAN AMY DRIVE

DESIGNED	PM JOHNSON
DRAWN	GM REEVES
CHECKED	ER SCHALLERT
APPROVED	KK HEIM
APPROVED	PM JOHNSON
DATE	MARCH 1, 2024

SCALE: 1" = 20'

NO. 17660.60.20

REV. 3

D.08

CADD D3-R5
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