



AGENDA
REGULAR MEETING OF THE
WINDSOR HEIGHTS CITY COUNCIL
Monday, February 3, 2025 - 6:00 PM
WINDSOR HEIGHTS COUNCIL CHAMBERS - 1133 66th ST
ZOOM: <https://us02web.zoom.us/j/7832856334>
Meeting ID: 783 285 6334

Notice to the Public: If you would like the supporting documents and information, please call City Hall by noon the day of the meeting. Copies of City Council Agendas are free to the public. In consideration of all, if you have a cell phone, please turn it off or put it on silent ring. The use of obscene and vulgar language, hate speech, racial slurs, slanderous comments, and any other disruptive behavior during the Council meeting will not be tolerated and the offender may be barred by the presiding officer from further comment before the Council during the meeting and/or removed from the meeting.

1. **Call to Order/Roll Call/Pledge of Allegiance**
2. **Approval of the Agenda**
3. **Presentation from Greater Des Moines Partnership**
 - A. Presentation Documents
4. **Presentation of Funding Requests from Outside Organizations** Note that no funding decisions will be made at tonight's meeting. Decisions will be made during the budget work session on February 17.
 - A. Des Moines Children's Museum
 - B. IMPACT Community Action Partnership
 - C. Sister City Commission
 - D. Windsor Heights Chamber of Commerce
 - E. Windsor Heights Foundation
5. **Public Hearing:**
 - A. Public Hearing on The Proposed Plans, Specifications, Form Of Contract, And Estimated Total Cost For The 68th Street South Reconstruction Project
 - B. Consideration of Resolution No. 2025-11 - A Resolution Awarding the 68th Street South Reconstruction Project to Shekar Engineering, P.L.C.
6. **Public Forum:** This is time set aside for comments from the public on topics of City business other than those listed on the agenda. No action may be taken. Please come to the podium, state your name and address for the record and keep your comments to no more than 5 minutes.

The agenda was posted on the official bulletin boards, posted to www.windsorheights.org, and city social media platforms in compliance with the requirements of city ordinances and the open meetings law. Scan the QR Code to visit our online Agenda Center. Select the meeting date and view the agenda packet including supporting documents and staff reports.



7. **Consent Agenda:** Any item on the Consent Agenda may be removed for separate consideration.
 - A. Approve Minutes of the Regular Council Meeting on January 23, 2025
 - B. Approve Financial Reports
 - C. Approve Liquor License - Hy-Vee Fast and Fresh - 7220 Hickman Rd.
 - D. Approve Maintenance Agreement with Carol J. Langeness Revocable Trust at 7609 Marilyn Drive
 - E. Approve Resolution No. 2025-12 - A Resolution Approving Mid-Iowa Planning Alliance Primary Board and Alternate Board Appointments
8. **Action Items:**
 - A. Consideration of Equipment Revolving Program (ERP) Ambulance Acquisition
 - B. Discuss FY26 City Budget Including Equipment Replacement Plan
9. **Reports:**
 - A. Mayor, Council Reports and Committee Updates, and Administration Reports
 - i Code Enforcement Report - Q4 2024
10. **Adjourn**

The agenda was posted on the official bulletin boards, posted to www.windsorheights.org, and city social media platforms in compliance with the requirements of city ordinances and the open meetings law. Scan the QR Code to visit our online Agenda Center. Select the meeting date and view the agenda packet including supporting documents and staff reports.





**STAFF REPORT
CITY COUNCIL**
February 3, 2025

TO: CITY COUNCIL
FROM: Adam Strait, City Clerk
SUBJECT: Presentation Documents

GENERAL INFORMATION

Attached is the Partnership's presentation.

Per the Partnership the City of Windsor Heights is at a \$1,500 commitment level per year for the 2024-2027 cycle.

ATTACHMENTS

1. Windsor Heights City Council Presentation 2-3-25

DSMUUSA

GREATER DES MOINES PARTNERSHIP

TIFFANY TAUSCHECK

President & CEO, Greater Des Moines Partnership





ABOUT THE PARTNERSHIP

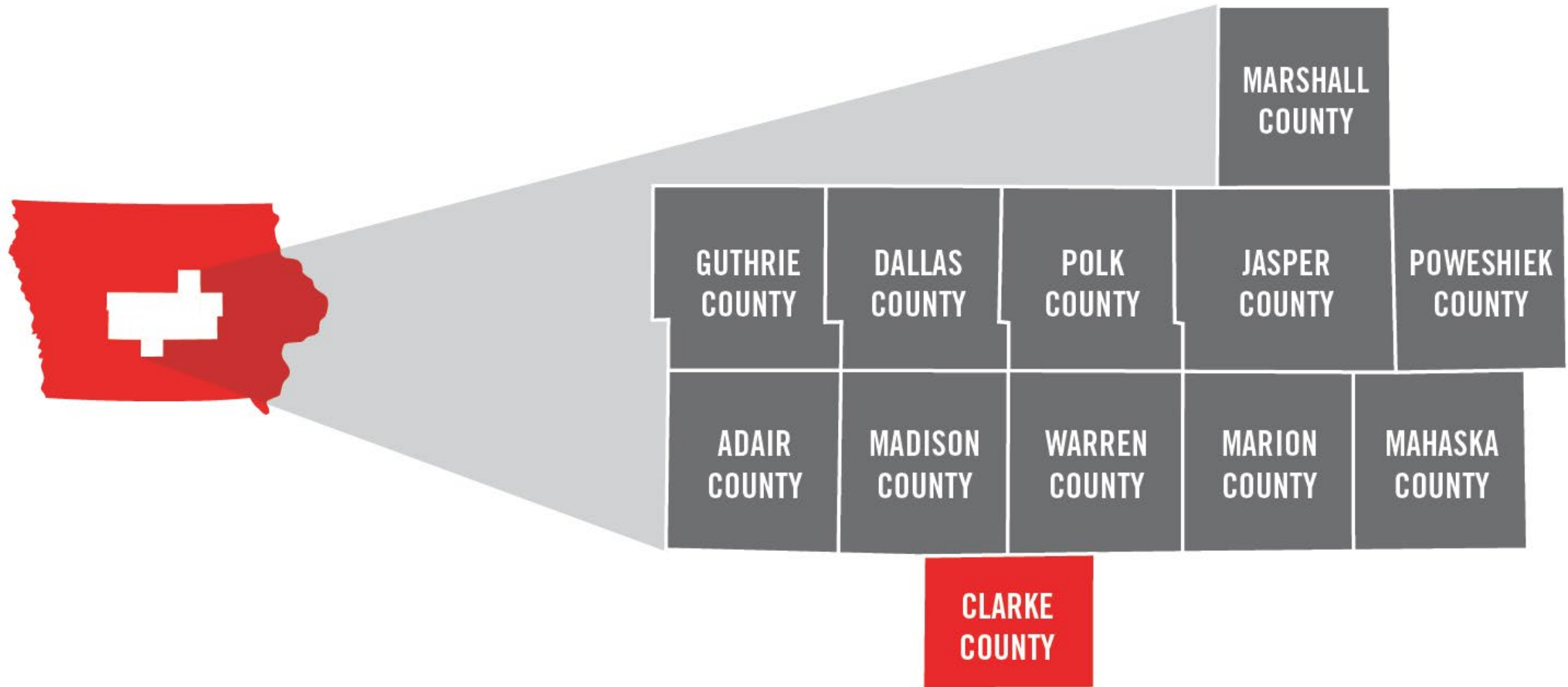


The Greater Des Moines Partnership is the economic and community development organization serving Greater Des Moines (DSM), **united to drive economic growth** with one voice, one mission and as one region.

Together with more than 400 Investors and an Affiliate Chamber of Commerce network of more than 6,700 Regional Business Members, The Partnership **grows opportunity, creates jobs and promotes the best place to build a business**, a career and a future.

#3

LARGEST REGIONAL
CHAMBER IN THE NATION



THE PARTNERSHIP REPRESENTS

3rd

IN THE NATION

Largest regional
Chamber
of Commerce

12

COUNTIES

Adair, Clarke,
Dallas, Guthrie,
Jasper, Madison,
Marion, Mahaska,
Marshall, Polk,
Poweshiek
and Warren

6,700+

REGIONAL MEMBERS

Supporting
#DSMlocal
businesses

400+

INVESTORS

Supporting
the mission

FIVE-YEAR STRATEGIES

- Economic Development
- Talent
- Positioning DSM for the Future
- Inclusion
- Placemaking
- Storytelling



2024 STRATEGIC PRIORITIES

ECONOMIC DEVELOPMENT

TALENT DEVELOPMENT

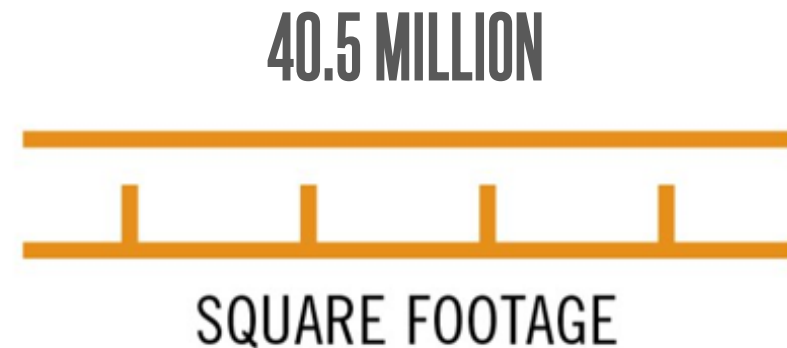
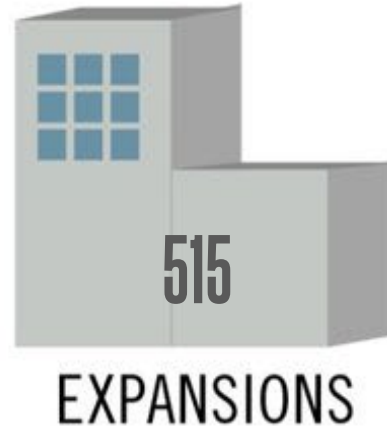
QUALITY OF LIFE PLACEMAKING PROJECTS

GLOBAL DSM TALENT STUDY

ACTIVATING THE CAPITAL CROSSROADS ROADMAP

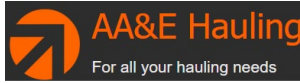
REGIONAL STORYTELLING

ECONOMIC DEVELOPMENT SINCE 1999



2024 Economic Development Projects

The Greater Des Moines Partnership team worked closely with city, county, state, utility and local economic development officials to assist in the expansion and new location of these businesses:



ECONOMIC DEVELOPMENT GOALS



Assist companies already in our 11-county region physically expand their business within DSM.



Identify and bring businesses outside of our 11-county region and state to DSM – either as a relocation or an expansion.

BUSINESS RETENTION & EXPANSION

- Annual strategy to meet with executives in the DSM region
- Goal: Meet with 150+ unique companies
- Compile and analyze data for common trends and direction
- Visits to out-of-state corporate headquarters

80%

OF ECONOMIC DEVELOPMENT
GROWTH IS DUE TO LOCAL
EXISTING BUSINESS EXPANSIONS

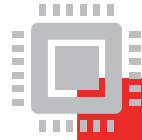
2024 BRE KEY FINDINGS

Business Success



- **58%** of companies reported increasing sales in 2024
- **2/3** of companies' primary products and/or services are growing
- **52%** of companies confirmed plans to expand or modernize in the next three years

Artificial Intelligence



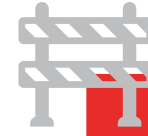
- **52%** of companies are currently using AI
- **38%** of companies are considering AI
- **47%** of companies currently using AI plan to increase their usage

Community Relationships



- DSM companies feel supported by their community partners. **A successful and collaborative business environment** is cited as the top strength of the region.
- Additional strengths include **Location and Access, Amenities, Access to Workforce, and Proximity to Customers.**

Growth Barriers



- Similar to other regions in the U.S., **Macroeconomic Factors** and **Lack of Available Workforce** are cited as the top two growth barriers.
- Additional growth barriers include **Lack of Housing, Logistics, Lack of Real Estate, and Lack of Childcare.**

Business Recruitment

Collaborative Marketing

IOWA ECONOMIC DEVELOPMENT AUTHORITY

Markets Iowa on a national and international level

GREATER DES MOINES PARTNERSHIP

Markets the DSM region on a national and international level

COMMUNITIES, COUNTIES AND UTILITIES

Participate with IEDA and The Partnership



Targeted Industries

ADVANCED MANUFACTURING

Anderson Erickson Dairy
Musco Sports Lighting
The Wittern Group

INSURANCE AND FINANCIAL SERVICES

NCMIC
Principal
Wells Fargo

AG INNOVATION

Corteva Agriscience
Kemin
Landus

LOGISTICS

Amazon
Ruan Companies
Worldwide Logistics

DATA CENTERS

Meta
Microsoft
Apple

TECHNOLOGY

Collins Aerospace
John Deere ISG
OpenLoop Health

Site Selection is Critical

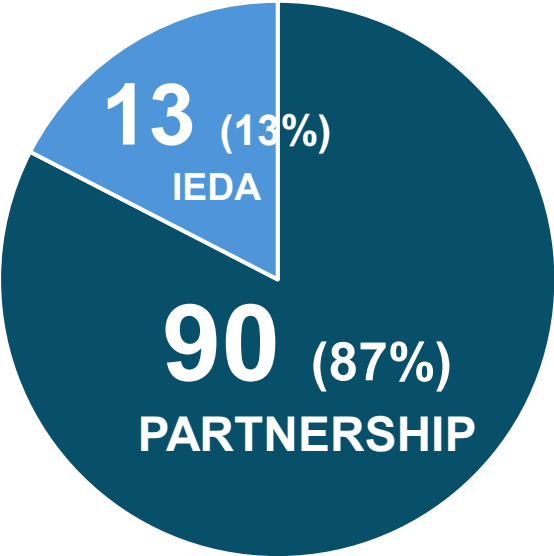
- **Process of Elimination**
- **Risk Aversion**
- **Confidentiality**

MORE THAN **10,000**
ECONOMIC DEVELOPMENT GROUPS
COMPETE NATIONALLY FOR
100-200 MAJOR PROJECTS
EACH YEAR

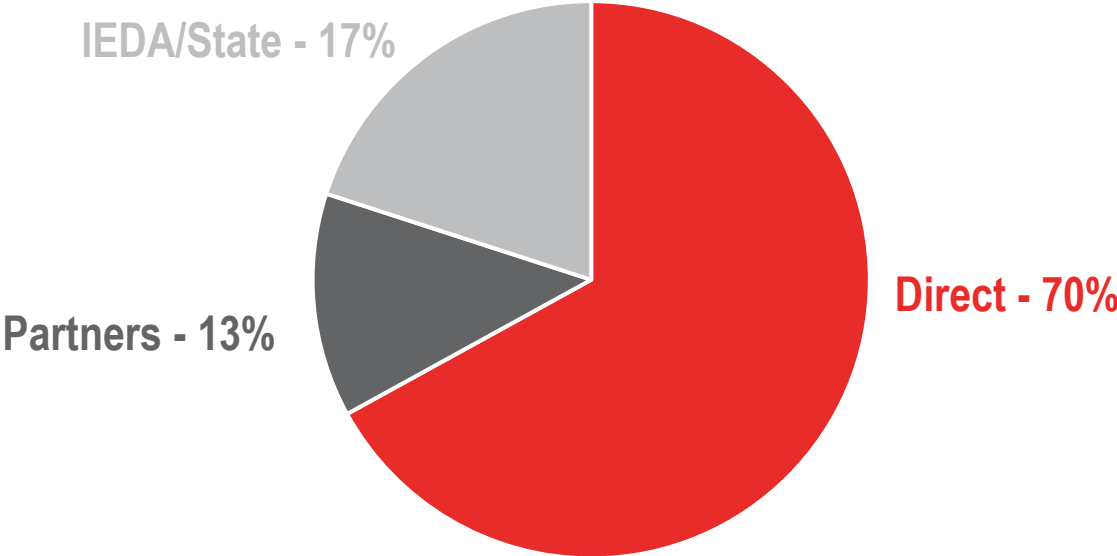
LEAD GENERATION



2024 LEAD SOURCES



2014-2024 LEAD SOURCE HISTORY



RECRUITMENT TRIPS, TRADESHOWS AND CONFERENCES

Tradeshows and Conferences

- ✓ ITC Vegas (November)
- ✓ Economix (December)
- ✓ Area Development Consultants Forum (December)
- ✓ World Agri-Tech Innovation Summit (March)
- ✓ Site Selectors Guild (April)
- ✓ Global Insurance Symposium (April)
- ✓ Pet Food Forum (April/May)
- ✓ SelectUSA (June)
- ✓ Institute of Food Technologists (July)
- ✓ TechHub LIVE (July)
- ✓ Farm Progress Show (August)
- ✓ Site Selectors Guild (September)
- ✓ ICREA Expo (September)
- ✓ ITC Vegas (October)
- ✓ Algae Biomass Summit (October) – Speaking opportunity
- ✓ IPT Credits and Incentives Symposium (October) – Speaking opportunity

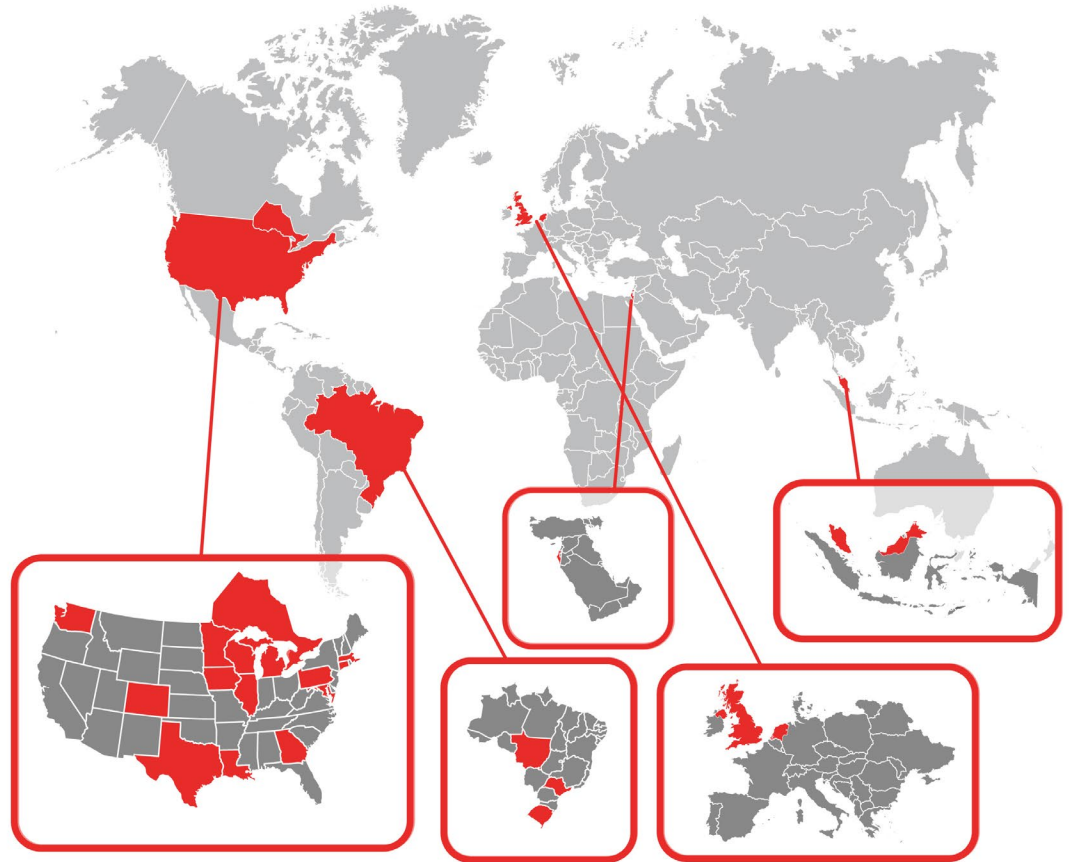
Metro Recruitment Trips

- ✓ Atlanta/Greenville (February)
- ✓ Seattle (March)
- ✓ Dallas (May)
- ✓ Kansas City (August)
- ✓ St. Louis (August)
- ✓ Minneapolis (August)

International Trade Mission

- ✓ Governor's Trade and Investment Mission to India (September)

LEAD GENERATION



2024 leads
originated from
13 states and
6 countries.

KEY ECONOMIC DEVELOPMENT TRENDS



Industrial

Supply chain resilience

Onshoring

E-commerce growth



Office

Moves to Class A space

Return to Work



Data Centers

Rapidly growing industry

Available electric capacity is driving location decisions



Housing

Housing supply constraints

Housing demand will continue to exceed supply



Retail

Growth in experiential retail

Redevelopment of malls and vacant large box retail

Sports facilities

2022 Windsor Heights Commuting Patterns:

- Worker Inflow: 3,201
- Worker Outflow: 2,512
- Net Job Inflow: 689

2.9% of employed Windsor Heights residents work in Windsor Heights.

2.3% of people employed in Windsor Heights live in Windsor Heights.

Source: U.S. Census Bureau



DSM is a Regional Economy

206 Windsor Heights residents

work for a sample of 7 businesses
whose growth was supported by
Partnership economic development initiatives.

Major Employer	Business Location
EMC Insurance	Des Moines
EP2	Des Moines
Sammons Financial	West Des Moines
The Waldinger Corp.	Des Moines
The Wittern Group	Clive
Wellabe	Des Moines
Wells Fargo	West Des Moines

Source: Placer.ai (2024)

"Owl Lab's 2023 State of Work report found 66% of U.S. employees who returned to the office to work five days a week or full time, spend an average of \$51 every workday."

- USA Today

TALENT DEVELOPMENT & INCLUSIVE STRATEGIES



DSM Intern Connection



Inclusion Summit

DO SOMETHING **Greater** *In Greater Des Moines*

- Nearly 393,000 GreaterDSMUSA.com users in 2024.
- Website users from all 50 states and 191 countries.
- 391 Talent prospects
- Launched the DSM MVP program to connect prospects and new residents to the community. The 18 MVPs represent 8 communities in the region.

TALENT CAMPAIGN MARKETING FUNNEL

PROSPECTS

Targeted based on demographics and behaviors.



DISCOVER

WHAT'S HAPPENING:

A prospect learns about DSM.

CAMPAIGN STEP:

Advertising, Relocation Packet, Connections at Career Fairs



EXPLORE

WHAT'S HAPPENING:

A prospect is digging in to learn more about DSM.

CAMPAIGN STEP:

Website Visit



VET

WHAT'S HAPPENING:

The homework/research phase — does DSM measure up to what I'm looking for? Does it align with my needs and goals?

CAMPAIGN STEP:

Email Drip Campaign



INQUIRE

WHAT'S HAPPENING:

The prospect raises their hand to say "I'm interested".

CAMPAIGN STEP:

Form Fill



DECIDE

WHAT'S HAPPENING:

DSM or Don't? Prospects decide if they are ready to make their move.

NEW RESIDENTS

NEW RESIDENTS



Welcome to DSM USA Receptions



DSM MVPs Program

DMDC TRIP

“It feels like the expectation during DMDC is that everybody simply lets their guard down and makes themselves available for meaningful conversations with whomever they happen to be next to.”

— **Lincoln Dix**
Vice President, Storey
Kenworthy, 2024 Partnership
Affiliate Presidents' Council
Chair



AFFILIATE CHAMBER SUPPORT

- Board Training
- Government Policy Council
- Business Programming
- Regional Summit
- Storytelling and Promotion



SMALL BUSINESS SUPPORT



Scale DSM
Business Accelerator



Spark DSM
Business Incubator



Entrepreneur Field
Days



The background image shows a street scene with multi-story buildings and large planters filled with flowers. The entire image is covered with a semi-transparent red overlay. The text 'REGIONAL MOMENTUM' is centered in a large, white, sans-serif font.

REGIONAL MOMENTUM

DSM RANKINGS

#1 PLACE FOR YOUNG
PROFESSIONAL TO LIVE
— *Forbes*, 2023

#12 BEST MIDSIZED CITY
IN THE U.S.
— *Extra Storage Space*, 2023

#3 BEST MARKET FOR RECENT
COLLEGE GRADUATES
— *Zillow*, 2023

TOP 10 TOP METRO FOR NUMBER OF
ECONOMIC DEVELOPMENT PROJECTS
(among metros with a population of 200,000 to 1 million)
— *Site Selection Magazine*, 2023

TOP 10 FASTEST-GROWING
MIDSIZED METRO
— *Site Selection Group*, 2023

#1 BEST MIDSIZED METRO
FOR MILLENNIALS
— *CommercialCafe*, 2023

#7 LOWEST COST OF
LIVING IN THE U.S.
— *RentCafe*, 2023

#4 CLEANEST CITY IN
THE COUNTRY
— *Lawn Starter*, 2023

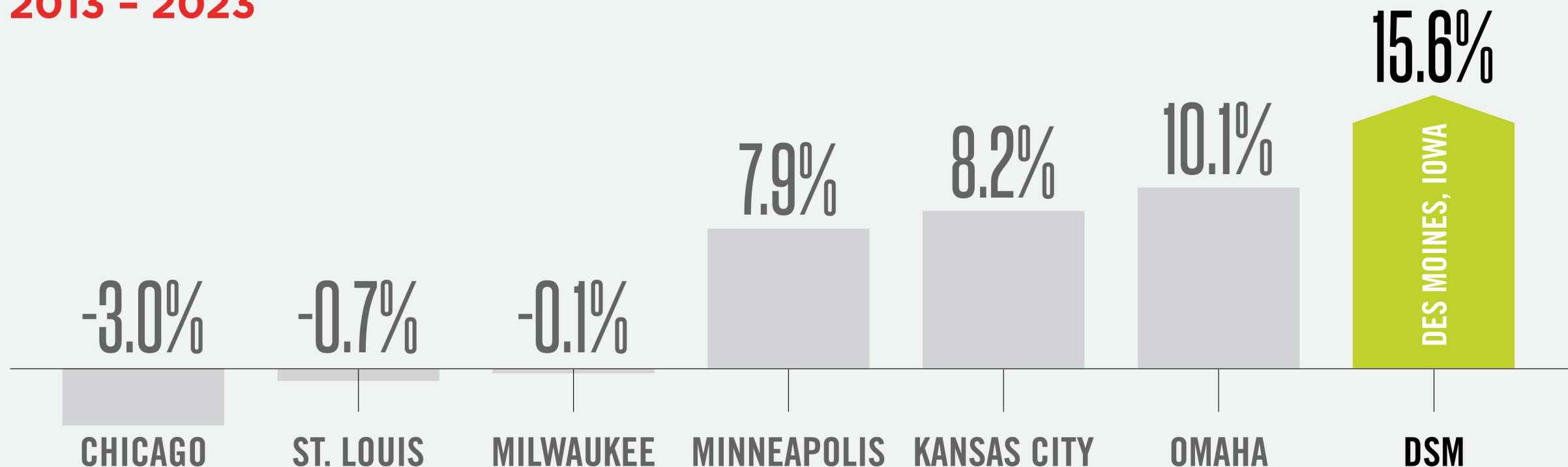
TOP 20 BEST PLACE TO LIVE
IN THE U.S.
— *U.S. News & World Report*, 2023

TOP 5 SMALL CITY FOR
YOUNG GRADUATES
— *Pheabs*, 2023

POPULATION GROWTH

2013 - 2023

Source: U.S. Census Bureau



According to the U.S. Census, an average of 27 people move to Greater Des Moines every day.

EVENTS AND ACTIVATIONS



Downtown Farmers'
Market



Regional
Activations



World Food &
Music Festival

COMMUNICATIONS AND MARKETING

- **Telling the Story**

- Loud, Bold, Broad**

- 5,300+ Media Mentions in 2024
 - 541+ Regional Stories Shared
 - 393,000+ Do Something Greater Campaign Website Users



GREATER DES MOINES' PLAYBOOK



CAPITAL CROSSROADS ROADMAP

CAPITAL CROSSROADS A VISION FORWARD

VISION

Capital Crossroads: Central Iowa's roadmap to opportunity and prosperity for all.

MISSION

Capital Crossroads is a collaboration of regional organizations, leaders, and residents to develop a focused, ambitious, and sustainable roadmap for Central Iowa. It serves as a forum to connect diverse stakeholders and unite their efforts.

CAPITAL CROSSROADS DRIVES ACTION & CREATES IMPACT THROUGH...

-  **Creating** a shared vision
-  **Convening** influencers to evaluate ideas
-  **Coordinating** aligned efforts across communities
-  **Celebrating** and **Communicating** successes and work in progress
-  **Catalyzing** impactful, large-scale initiatives



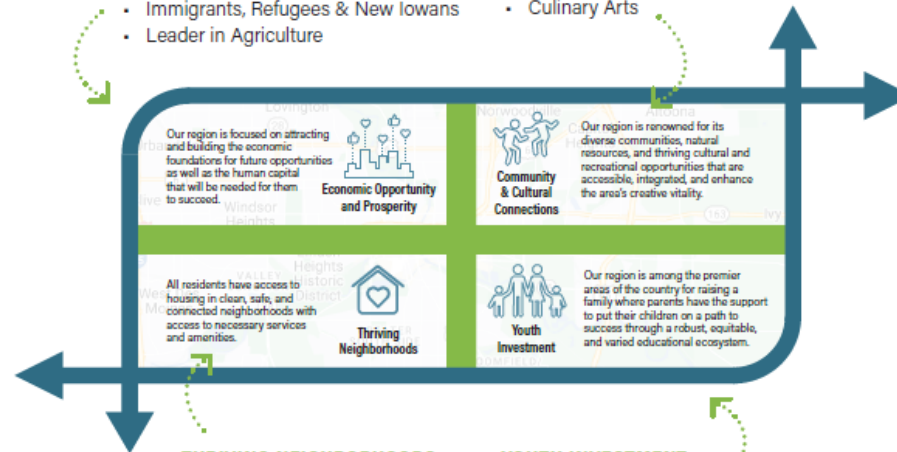
Capital Crossroads Cornerstones were developed to respond to regional trends and deliver the critical outcomes. These Cornerstones are a **focused** grouping of goals and actions that will advance regional collaboration among diverse stakeholder groups.

ECONOMIC OPPORTUNITY AND PROSPERITY

- Job Growth
- Entrepreneurship & Innovation
- Immigrants, Refugees & New Iowans
- Leader in Agriculture

COMMUNITY & CULTURE CONNECTIONS

- Cultural Celebrations
- Parks and Recreation
- Artistic & Creative Expression
- Culinary Arts



THRIVING NEIGHBORHOODS

- Workforce Housing
- Mobility
- Water Quality
- Sustainability

YOUTH INVESTMENT

- Childcare Services
- Early Childhood Education
- Career-Ready Learning

Bringing the Roadmap to Life

Oversight by the Regional Council & Governance Council

Direction from the Cornerstone Coordinating Organizations

Two dedicated staff

Empowered and supported community partners

Simplified and focused priorities

Specific timeframes

Two-year funding cycle

Biennial community convening: CXR DSM

Capital Crossroads Progress Indicators

Capital Crossroads Regional Report

PARTNERSHIP BENEFITS

LOCAL GOVERNMENT INVESTORS

Regional Promotion & Growth	Business & Entrepreneurial Support	Research Support & Tools	Public Policy
Lead generation through national promotion	Expertise to assist growing or contracting businesses	Multiple subscription-based data sources	DMDC (Annual Washington DC Trip)
Economic development response and project management	BRE program identifying regional strengths & challenges	Placer.ai	Government Policy Council participation
Community growth through strong regional economy	Entrepreneurial coaching	JobsEQ workforce and industry analysis reports	Convener and collaboration building
Storytelling locally and nationally.	Talent attraction and development	Online DSM DataHub	Public policy events and information

THANK YOU

Tiffany Tauscheck | ttauscheck@DSMpartnership.com | Connect on Social: @LoveDSM

Greater Des Moines Partnership | DSMpartnership.com | Connect on Social: @DSMpartnership

DSMUSIA





STAFF REPORT
CITY COUNCIL
February 3, 2025

TO: CITY COUNCIL

FROM:

SUBJECT: Des Moines Children's Museum

GENERAL INFORMATION

ATTACHMENTS

1. Childrens Museum 2025



Organizational Information

Name of Organization: Des Moines Children's Museum

Name of Contact Person: Jules Burnette

Address, City, State: 1551 Valley West Drive #108, West Des Moines, IA 50266

Contact Phone #: 630-674-6498

Contact E-mail Address: Julie@dsmchildrensmuseum.com

Organization Website Address (if applicable): www.dsmchildrensmuseum.com

Des Moines Children's Museum is a 501 (C)(3) nonprofit organization FEIN 82-0923204

Specific Funding Request: \$5,000

This money will be used in four specific ways: exhibits, programming, outreach, and future capital campaign.

Exhibits

Our focus on exhibits this year will be focused mostly on improving. Painting and maintaining current exhibits will be huge this year. With the thousands of kids playing each year, we are always inspecting, fixing, and repainting, but there are four areas that will require more than that.

-Improving options for the under one visitors and their parents. We have 2 baby nooks, but with our growth those two nooks that used to allow parents to interact with their infants while watching and interacting with their older kids are now limited to only certain areas of the museum. We would like to create portable baby nooks that will allow our youngest visitors to still enjoy the museum no matter where their older siblings' interest takes them.

-Transitioning our scarf wind play area into an exhibit that explores wind energy, and allows kids and adults to stand in a wind tunnel.

-Transforming our shadow room exhibit into a sensory calm down area to help support the children and families with sensory sensitivities.

Programming

We will continue our weekly programming and our special event programming that the community enjoys. This year we will be adding live music monthly and we want to start to expand community building events for parents/caregivers. Those early years of parenthood can be extremely hard and

feel isolating. We plan on doing a survey to see what parents/caregivers want in January and then using this year to study what people like and attend. Events like getting to know your neighbors, one book, specific events for different subgroups of parents and families.

Outreach

We started as a “museum without walls” and we like to still go out in the community and bring traveling exhibits and activities. We love when we provide a place for kids at events.

Capital Campaign

City funding will help with all of the above, but as we transition from being in Valley West Mall to finding a new home we also know that to receive funding from the state at the end of our campaign we will need to show that we received city and county funding to qualify for the last dollar in state funding. This state funding will either be focussed on community betterment or tourism depending on what the state thinks is the best fit.

About Des Moines Children’s Museum

DSM Children’s Museum is a cultural attraction for young children and their families. The Children’s Museum fills a unique niche because we are an attraction targeted specifically to young children. Many places are family friendly, but activities where even babies and toddlers can fully participate are rare and much desired by families with young children. We are a gateway museum for families, getting them in the habit of visiting museums and other cultural attractions early. Families will continue the habit as their children get older and are able to participate in more and more recreational and cultural activities. Children’s museums are attractions that families with young children search for and want in their community.

There are also all the benefits of play. Our mission is to build the foundation of lifelong learning by promoting the power of play. Walking into the museum what you see may just look like kids playing, but playing is actually extremely important for brain development in young children. Sustained pretend play is how kids learn executive functioning skills like focus, working memory, self-control, and problem solving. When a child takes an order from their grown-up at our play pizza parlor, they use their working memory to remember the order. They use focus and self control to stay on task and complete the pizza. They use their problem solving if the toppings they need aren’t available. These are all skills that children develop with practice, and research shows that extended pretend play is the most effective way to practice them. Strong executive functioning skills are what help kids grow into successful adults, and we want to provide all children who visit the museum an opportunity to develop them.



STAFF REPORT
CITY COUNCIL
February 3, 2025

TO: CITY COUNCIL

FROM:

SUBJECT: IMPACT Community Action Partnership

GENERAL INFORMATION

ATTACHMENTS

1. Windsor Heights - 2025 Letter of Request
2. Windsor Heights - Sample General Services Agreement

December 9, 2024

Adam Strait, City Clerk
City of Windsor Heights
Windsor Heights City Hall
1145 66th St, Suite 1
Windsor Heights, IA 50324
astrait@windsorheights.org



Dear Adam Strait,

Your partnership in serving the people of Windsor Heights is greatly appreciated! Last year the City of Windsor Heights generously supported IMPACT Community Action Partnership's work with a contribution of **\$2,500**. Your investment combined with other income sources allowed us to serve an estimated 251 residents in fiscal year 2024.

IMPACT seeks to collaborate with you again this year to assist families in Windsor Heights who are in need of essential services. Our services are based on family-need and include:

- Energy (heat, weatherization, and air conditioning assistance)
- Health (food and hygiene products assistance)
- Housing (rent and mortgage assistance)
- Other Needs (water, extracurricular fees, one-time car repair or other family needs)

We are proud of the work we have done together, and this fiscal year we hope to be able to do more! According to the US Census Bureau there are approximately 798 Windsor Heights residents with an income below 185% of the Federal Poverty Line. **That means there are *at least* 546 Windsor Heights residents who could benefit from our services that we did not reach last year!**

We respectfully request \$2,500 from the City of Windsor Heights to engage with us in this partnership again this year. This investment will help IMPACT continue to serve Windsor Heights residents facing challenges meeting their essential needs.

Thank you for your consideration. If you have questions, please feel free to reach out to my colleague, Brandon Pollard, our Grant & Donor Management Coordinator, by emailing bpollard@impactcap.org or by calling his direct line at 515-274-1343.

Sincerely,

A handwritten signature in black ink, appearing to read "Anne Bacon".

Anne Bacon, CEO

P.S. In 2021 the State Auditor issued guidance that local governments should require a contract for any contributions to non-profit organizations. As such, we are seeking a contractual agreement, not a donation. This means if Windsor Heights is in the future audited by the State of Iowa, our partnership will be in accordance with the law. We have enclosed a sample contract you may use if you like. However, this is completely up to you and we will gladly use whatever best suits your needs whether that is this contract with modifications, a completely different contract, or no contract at all.

General Services Agreement

THIS AGREEMENT entered into on the _____ day of _____, 2025, between the City of Windsor Heights, 1145 66th Street Suite 1, Windsor Heights, IA 50324 (Funder) and Impact Community Action Partnership, Inc. an Iowa not-for-profit corporation located at 3226 University Avenue, Des Moines, Iowa 50311 ("Contractor").

WHEREAS, Funder supports Contractor's efforts in reducing the barriers and burdens that its residents in poverty experience; and

WHEREAS, Funder is interested in providing financial support to this work to ensure resources are available; and

WHEREAS, Contractor is the designated Community Action Agency for the Funder's area tasked with providing said services.

NOW, THEREFORE, BE IT AGREED:

1. The Contractor shall provide the following services to Funder in Contractor's facilities for a period extending from July 1, 2025, through the end of the month June, 2026:
 - A. Poverty related services including but not limited to, Energy Assistance, Food and/or Personal Pantry services, Housing supports and other localized services based on Contractor's regular Community Needs Assessments.
 - B. Contractor will report on the status of services at least annually with a summary of households receiving assistance.
2. The Contractor shall be paid for the above described services as follows: \$ _____ to be invoiced to the Funder on July 1.
3. This contract may be terminated for the following reasons with only a time-based prorate portion deemed due and payable to Contractor:
 - B. Unsatisfactory performance by the Contractor; or
 - C. Without cause by written notification from one party to the other party with 30-day notice.
4. The Contractor shall indemnify, defend, save and hold the Funder, its officers, employees and agents, harmless from any claim or lawsuit occurring in the course of the Contractor's provision of services under this Agreement. Funder shall indemnify, defend, save and hold the Contractor, its officers, employees and agents, harmless from any claim or lawsuit arising out of or associated with Funder's actions related to this Agreement.
5. This Agreement contains the whole agreement of the parties and any modification thereof shall be in writing signed by the parties hereto. This agreement shall be in full force and effect upon being executed by the parties hereto.
6. The parties shall be and act as independent contractors, and under no circumstances shall this Agreement be construed as one of agency, partnership or joint venture between Funder and

Contractor.

7. Contractor, at its sole expense, shall comply with all local, State and Federal laws and shall at its sole expense, obtain all licenses or permits which may be required for the conduct of its business within the terms of this Agreement. Contractor agrees to comply with all applicable federal, state, and local civil rights laws, specifically free from discrimination on the basis of age, race, religion, creed, color, sex, national origin, ancestry, sexual orientation, disability, familial status, or gender identity.

8. Notices required under this Agreement may be delivered by regular U.S. Mail or by certified mail, return receipt requested, delivered to the addresses below or via email.

In Witness Whereof, the parties hereto have caused this Agreement to be executed.

FUNDER

CONTRACTOR

City of Windsor Heights
1145 66th Street Suite 1
Windsor Heights, IA 50324

Anne Bacon, CEO
IMPACT Community Action Partnership, Inc
3226 University Ave.
Des Moines, IA 50311



**STAFF REPORT
CITY COUNCIL**
February 3, 2025

TO: CITY COUNCIL
FROM: Adam Strait, City Clerk
SUBJECT: Sister City Commission

GENERAL INFORMATION

Funding request from Rick King, Sister City Commissioner:

"Sister Cities budget request for July 1, 2025-June 30, 2026

I do not have an exact amount because the trips are in the very early stages of planning with Des Moines Mayor Boesen. The budget request of 10k includes all flights for three trips and the hotel and train needed in China.

- Pristina, Kosovo (To break up the trip, we are considering including a stop in our sister city, St. Etienne, France. There are two to three layovers before arriving in Pristina.)
- Shijiazhuang, China (It will be the 40th anniversary of our being a sister cities.)

I am submitting a budget request. However, I am not sure I will be selected for either trip. The Sister City Commissioners will select the commissioners traveling with each delegation."

ATTACHMENTS

None



**STAFF REPORT
CITY COUNCIL**
February 3, 2025

TO: CITY COUNCIL

FROM:

SUBJECT: Windsor Heights Chamber of Commerce

GENERAL INFORMATION

ATTACHMENTS

1. Mayor and City Council

**Mayor and City Council
City of Windsor Heights
1145 66th St., Ste. 1
Windsor Heights, IA 50324**



Subject: Request for Approval of \$3,250 in Dues for the Windsor Heights Chamber of Commerce for Fiscal Year 2025/2026

Dear Mayor Jones and Members of the Windsor Heights City Council,

On behalf of the Windsor Heights Chamber of Commerce, I am writing to formally request the City of Windsor Heights' continued support through the approval of \$3,250 in Chamber dues for the 2025/2026 fiscal year.

The Chamber is dedicated to fostering a thriving business community, enhancing economic development, and providing valuable networking and growth opportunities for our local businesses. Your partnership has played a vital role in achieving these goals, ensuring that the City of Windsor Heights remains a vibrant and desirable place to live, work, and visit.

These funds enable the Chamber to offer programs and initiatives that directly benefit the city, such as:

- Supporting local businesses through advocacy and resources.
- Hosting the new Wake up in Windsor Heights event to bring businesses together to promote local commerce.
- Marketing and branding efforts for distribution to new Windsor Heights residents at no additional cost to the City.
- Access and volunteer support selling sponsorships through the Chamber's Total Resource Campaign for City-hosted events. This effort sold \$23,139 in cash and trade sponsorships for Windsor Heights City events in 2024.

We greatly value the longstanding relationship between the City and the Chamber. Your increased investment in our work demonstrates a shared commitment to building a stronger and more prosperous Windsor Heights.

We respectfully ask that this request be considered and approved as part of the city's budget discussions for the 2025/2026 fiscal year. Please let us know if there are additional steps required or if we can provide further information in support of this request.

Thank you for your continued partnership and your dedication to our community's growth and success.

Sincerely,

Tiffany Menke
President, Urbandale Chamber of Commerce,
powering the Windsor Heights Chamber



**STAFF REPORT
CITY COUNCIL**
February 3, 2025

TO: CITY COUNCIL
FROM:
SUBJECT: Windsor Heights Foundation

GENERAL INFORMATION

ATTACHMENTS

1. Foundation Funding Request



January 23, 2025

Adam Plagge
City Administrator
City of Windsor Heights
1145 66th Street, Ste. 1
Windsor Heights, IA 50324

Dear Mr. Plagge and members of the Windsor Heights City Council,

The Windsor Heights Foundation remains committed to its mission: to enhance the lives of the citizens of Windsor Heights and those of its neighboring communities. We do this by hosting local events that celebrate our city and which build community among our citizens and friends.

The largest event held throughout the year is our annual *Nights in the Heights* summer concert series. We are proud that this concert series is recognized as one of our city's signature events, elevating both Windsor Heights' presence and reputation. The event is largely recognized as a family-friendly and positive fixture to our summer activities. These weekly concerts have proven to be deeply popular, drawing an increasing number of residents from our own Windsor Heights community as well as other individuals from other parts of the greater Des Moines metropolitan!

The concert series continue to be an excellent opportunity for neighbors to get to know each other while also enjoying the amenities of Colby Park. These professionally performed shows are available to both residents and nonresidents alike. They also give our community positive visibility via social and other media outlets.

We continue to be extremely grateful to the City for its partnership in our mission. In order to continue this annual series in the manner that our community has become accustomed, we ask the City to consider support for the 2025 *Nights in the Heights Summer Concert Series* in the amount of \$5,000. With this commitment, we will be able to continue to showcase our Windsor Heights community to its residents and our neighbors in Des Moines, Clive, Urbandale, and West Des Moines. Additionally, we request a waiver of the rental fees to utilize the Pavilion for the summer concert series. You can also be a part of a 45 year tradition, as in 2025 we are proud to celebrate 45 years of supporting our community!

Enclosed, please find our 2025 budget for the annual summer concert series. Your investment will help build a stronger Windsor Heights community, while also building upon the many other positive initiatives also underway.

We remain exceptionally grateful for your past support and look forward to working with you in the coming year.

Sincerely,

Mark Arends, President
Windsor Heights Foundation

The mission of the Windsor Heights Foundation is to develop projects and programs that enrich and enhance the lives of its residents and those of neighboring communities.



2025 Nights in the Heights Proposed Budget

Band costs for 6 concerts (average cost \$1500)	\$9,000.00
Printing/Advertising/Signage	\$2,500.00
Security Costs	\$1,300.00
Portapotties	\$1,600.00
Tent/Popcorn/Misc Supplies	\$600.00
Total Budget	\$14,500



**STAFF REPORT
CITY COUNCIL**
February 3, 2025

TO: CITY COUNCIL

FROM:

SUBJECT: Public Hearing on The Proposed Plans, Specifications, Form Of Contract, And
Estimated Total Cost For The 68th Street South Reconstruction Project

GENERAL INFORMATION

ATTACHMENTS

1. Letter of Recommendation
2. Tabulation of Bids
3. 68TH STREET RECONSTRUCTIONS
4. 68th St. Stages
5. PROJECT MANUAL 20241211



Real People. Real Solutions.

430 E Grand Avenue
Suite 101
Des Moines, IA 50309

Ph: (515) 259-9190
Fax: (515) 233-4430
Bolton-Menk.com

2/03/2025

City of Windsor Heights
1145 66th Street Suite 1
Windsor Heights, Iowa 50324

RE: 68th Street Improvement Project
Recommendation of Award
Project No.: 0A1.133739

Dear Adam Plagge:

At 10:00 A.M on January 28, 2025, bids were received for the 68th Street Improvement Project. The Engineer's Estimate for the total base was \$2,207,736.25 and the estimate for the total base bid plus Alternate A was \$2,508,886.75. Five bids were received. All bidders were responsive except for one, and bids are summarized as follows:

Bidder	Total Base Bid	Total Base Bid + Alternate A
Shekar Engineering, P.L.C.	\$1,650,272.82	\$1,878,164.17
Corell Contractor, Inc.	\$2,187,252.00	\$2,525,870.20
Absolute Group	\$2,258,779.50	\$2,571,187.50
TK Concrete, Inc.	\$2,336,686.00	\$2,666,853.00
All Star Concrete LLC	None Responsive	None Responsive

The base bid received from Shekar Engineering, P.L.C. was 25.25% below the engineers' estimate and the total base bid plus alternate A was 25.14% below the engineers' estimate for the project, and was determined to be the lowest responsive, responsible bidder. Bolton & Menk, Inc. has reviewed the bid documents submitted and checked references on this bidder and was satisfied with the responses given.

Therefore, Bolton & Menk, Inc. recommends award of the 68th Street Improvement Project to Shekar Engineering, P.L.C. for the total base bid plus alternate A amount of \$1,878,164.17 (One Million Eight Hundred Seventy-Eight Thousand One Hundred Sixty-Four Dollars and Seventeen Cents).

The bid tabulation is attached for your use.

Feel free to contact me should there be any questions related to this project.

Sincerely,

Justin Ernst
Municipal Assistant Group Leader, Principal
BOLTON & MENK, INC.

cc: File w/attachment

City of Windsor Heights Windsor Heights, Iowa 68th Street Improvement Project					 BOLTON & MENK					430 E Grand Ave Suite 101 Des Moines, IA 50309						
TABULATION OF BIDS Bid Letting Date: Tuesday, January 28, 2025 @ 10:00 A.M. CSDT					Real People. Real Solutions.					Phone: (515) 259-9190 Bolton-Menk.com						
BASE BID																
Item No.	Item Code	Description	Unit	Quantity	Engineer's Estimate Bolton & Menk, Inc.		Shekar Engineering, P.L.C. Des Moines, Iowa		All Star Concrete LLC Johnston, Iowa		Corell Contractor, Inc West Des Moines, Iowa		Absolute Group Granger, Iowa		TK Concrete, Inc. Pella, Iowa	
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount
1	2010-C	CLEARING AND GRUBBING	LS	1	\$10,000.00	\$10,000.00	\$10,237.50	\$10,237.50			\$9,600.00	\$9,600.00	\$9,600.00	\$9,600.00	\$17,500.00	\$17,500.00
2	2010-D-1	TOPSOIL, ON-SITE	CY	948	\$30.00	\$28,440.00	\$10.20	\$9,669.60	\$10.00	\$9,480.00	\$35.00	\$33,180.00	\$10.00	\$9,480.00	\$12.50	\$11,850.00
3	2010-E	EXCAVATION, CLASS 10	CY	2,606	\$20.00	\$52,120.00	\$15.30	\$39,871.80	\$15.00	\$39,090.00	\$17.50	\$45,605.00	\$15.00	\$39,090.00	\$16.50	\$42,999.00
4	2010-F	BELOW GRADE EXCAVATION (CORE OUT)	CY	795	\$60.00	\$47,700.00	\$20.40	\$16,218.00	\$20.00	\$15,900.00	\$59.00	\$46,905.00	\$20.00	\$15,900.00	\$23.00	\$18,285.00
5	2010-G	SUBGRADE PREPARATION	SY	7950	\$3.50	\$27,825.00	\$1.02	\$8,109.00	\$1.00	\$7,950.00	\$3.50	\$27,825.00	\$1.00	\$7,950.00	\$1.50	\$11,925.00
6	2010-I	SUBGRADE TREATMENT, GEOGRID, TYPE 2	SY	795	\$3.25	\$2,583.75	\$2.04	\$1,621.80	\$2.00	\$1,590.00	\$3.00	\$2,385.00	\$2.00	\$1,590.00	\$3.00	\$2,385.00
7	2010-J	SUBBASE, MODIFIED, 8 INCHES	SY	7950	\$13.00	\$103,350.00	\$16.83	\$133,798.50	\$16.50	\$131,175.00	\$12.50	\$99,375.00	\$16.50	\$131,175.00	\$17.00	\$135,150.00
8	3010-D	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	CY	100	\$50.00	\$5,000.00	\$81.60	\$8,160.00	\$100.00	\$10,000.00	\$35.00	\$3,500.00	\$122.00	\$12,200.00	\$145.00	\$14,500.00
9	4020-A-1	STORM SEWER, TRENCHED, PP, 8 INCH	LF	12	\$60.00	\$720.00	\$44.28	\$531.36	\$43.41	\$520.92	\$185.00	\$2,220.00	\$100.00	\$1,200.00	\$125.00	\$1,500.00
10	4020-A-1	STORM SEWER, TRENCHED, 15 INCH	LF	1550	\$85.00	\$131,750.00	\$46.89	\$72,679.50	\$45.97	\$71,253.50	\$125.00	\$193,750.00	\$81.00	\$125,550.00	\$86.50	\$134,075.00
11	4020-A-1	STORM SEWER, TRENCHED, 18 INCH	LF	27	\$140.00	\$3,780.00	\$83.04	\$2,242.08	\$81.41	\$2,198.07	\$225.00	\$6,075.00	\$97.00	\$2,619.00	\$125.00	\$3,375.00
12	4020-A-1	STORM SEWER, TRENCHED, 36 INCH	LF	47	\$175.00	\$8,225.00	\$151.47	\$7,119.09	\$148.50	\$6,979.50	\$260.00	\$12,220.00	\$213.00	\$10,011.00	\$240.00	\$11,280.00
13	4020-A-1	STORM SEWER, TRENCHED, RCP, 37" X 23" ARCH	LF	50	\$350.00	\$17,500.00	\$232.49	\$11,624.50	\$227.93	\$11,396.50	\$350.00	\$17,500.00	\$288.00	\$14,400.00	\$300.00	\$15,000.00
14	4020-D	REMOVAL OF STORM SEWER, LESS THAN 36 INCH	LF	348	\$15.00	\$5,220.00	\$9.93	\$3,455.64	\$9.75	\$3,393.00	\$35.00	\$12,180.00	\$15.00	\$5,220.00	\$25.00	\$8,700.00
15	4040-A	SUBDRAIN, PERFORATED HDPE, 6 INCH	LF	3330	\$20.00	\$66,600.00	\$14.52	\$48,351.60	\$14.24	\$47,419.20	\$21.50	\$71,595.00	\$23.00	\$76,590.00	\$26.00	\$86,580.00
16	4040-C-1	SUBDRAIN CLEANOUT, TYPE A-1, 6 INCH	EA	16	\$700.00	\$11,200.00	\$501.03	\$8,016.48	\$491.22	\$7,859.52	\$600.00	\$9,600.00	\$750.00	\$12,000.00	\$1,000.00	\$16,000.00
17	4040-D-1	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6 INCH	EA	14	\$500.00	\$7,000.00	\$475.31	\$6,654.34	\$466.00	\$6,524.00	\$275.00	\$3,850.00	\$185.00	\$2,590.00	\$250.00	\$3,500.00
18	4050-H-1	SPOT REPAIRS BY PIPE REPLACEMENT, PVC, 4 INCH	EA	3	\$5,000.00	\$15,000.00	\$5,397.01	\$16,191.03	\$5,291.20	\$15,873.60	\$5,625.00	\$16,875.00	\$3,250.00	\$9,750.00	\$5,000.00	\$15,000.00
19	SPEC. PROV.	WATER MAIN, TRENCHED, PVC C900 (DR 18), 6 INCH WITH TRACER WIRE	LF	10	\$100.00	\$1,000.00	\$790.91	\$7,909.10	\$775.40	\$7,754.00	\$550.00	\$5,500.00	\$100.00	\$1,000.00	\$150.00	\$1,500.00
20	SPEC. PROV.	WATER MAIN, TRENCHED, PVC C900 (DR 18), 8 INCH WITH TRACER WIRE	LF	1880	\$80.00	\$150,400.00	\$50.63	\$95,184.40	\$49.65	\$93,342.00	\$125.00	\$235,000.00	\$44.75	\$84,130.00	\$55.00	\$103,400.00
21	SPEC. PROV.	FITTING BY WEIGHT, DUCTILE IRON	LB	1779	\$10.00	\$17,790.00	\$8.58	\$15,263.82	\$8.42	\$14,979.18	\$16.50	\$29,353.50	\$18.50	\$32,911.50	\$23.00	\$40,917.00
22	SPEC. PROV.	WATER SERVICE TRANSFER, COPPER, 1 INCH , SAME SIDE	EA	23	\$1,500.00	\$34,500.00	\$1,264.19	\$29,076.37	\$1,239.40	\$28,506.20	\$2,650.00	\$60,950.00	\$1,425.00	\$32,775.00	\$1,700.00	\$39,100.00
23	SPEC. PROV.	WATER SERVICE TRANSFER, COPPER, 1 INCH, OPPOSITE SIDE	EA	26	\$2,500.00	\$65,000.00	\$2,022.36	\$52,581.36	\$1,982.72	\$51,550.72	\$4,775.00	\$124,150.00	\$2,350.00	\$61,100.00	\$2,925.00	\$76,050.00
24	SPEC. PROV.	WATER MAIN REMOVAL	LF	410	\$20.00	\$8,200.00	\$8.22	\$3,370.20	\$8.10	\$3,321.00	\$32.50	\$13,325.00	\$15.00	\$6,150.00	\$25.00	\$10,250.00
25	SPEC. PROV.	VALVE, GATE, 6 INCH	EA	1	\$2,500.00	\$2,500.00	\$2,210.62	\$2,210.62	\$2,167.30	\$2,167.30	\$2,100.00	\$2,100.00	\$2,000.00	\$2,000.00	\$3,000.00	\$3,000.00
26	SPEC. PROV.	VALVE, GATE, 8 INCH	EA	4	\$3,100.00	\$12,400.00	\$2,923.70	\$11,694.80	\$2,866.50	\$11,466.00	\$2,480.00	\$9,920.00	\$2,750.00	\$11,000.00	\$3,400.00	\$13,600.00
27	SPEC. PROV.	FIRE HYDRANT ASSEMBLY	EA	5	\$8,000.00	\$40,000.00	\$7,946.35	\$39,731.75	\$7,790.55	\$38,952.75	\$7,100.00	\$35,500.00	\$9,000.00	\$45,000.00	\$10,000.00	\$50,000.00
28	SPEC. PROV.	FLUSHING DEVICE (BLOW OFF), 4 INCH	EA	5	\$2,500.00	\$12,500.00	\$1,439.15	\$7,195.75	\$1,410.94	\$7,054.70	\$1,800.00	\$9,000.00	\$6,500.00	\$32,500.00	\$7,500.00	\$37,500.00
29	SPEC. PROV.	FIRE HYDRANT ASSEMBLY REMOVAL	EA	5	\$750.00	\$3,750.00	\$727.44	\$3,637.20	\$713.20	\$3,566.00	\$900.00	\$4,500.00	\$1,250.00	\$6,250.00	\$1,750.00	\$8,750.00
30	SPEC. PROV.	VALVE BOX REMOVAL	EA	3	\$400.00	\$1,200.00	\$92.13	\$276.39	\$90.35	\$271.05	\$200.00	\$600.00	\$800.00	\$2,400.00	\$1,000.00	\$3,000.00
31	SPEC. PROV.	TAP FEE, 1", REPLACE TAP FOR WATER SERVICE	EA	49	\$500.00	\$24,500.00	\$524.63	\$25,706.87	\$514.35	\$25,203.15	\$1,500.00	\$73,500.00	\$1,800.00	\$88,200.00	\$2,000.00	\$98,000.00
32	SPEC. PROV.	PREPARE EXCAVATION FOR TAPPING SLEEVE AND VALVE	EA	3	\$2,200.00	\$6,600.00	\$2,228.39	\$6,685.17	\$2,184.70	\$6,554.10	\$5,975.00	\$17,925.00	\$4,150.00	\$12,450.00	\$5,250.00	\$15,750.00
33	6010-A	STORM MANHOLE, SW-401, 60 INCH	EA	1	\$8,000.00	\$8,000.00	\$6,546.88	\$6,546.88	\$6,419.00	\$6,419.00	\$7,150.00	\$7,150.00	\$7,150.00	\$7,150.00	\$8,950.00	\$8,950.00
34	6010-A	STORM MANHOLE, SW-401, 72 INCH	EA	1	\$10,000.00	\$10,000.00	\$8,531.00	\$8,531.00	\$8,364.00	\$8,364.00	\$9,000.00	\$9,000.00	\$7,575.00	\$7,575.00	\$9,500.00	\$9,500.00
35	6010-B	INTAKE, SW-501	EA	1	\$5,000.00	\$5,000.00	\$4,066.39	\$4,066.39	\$4,000.00	\$4,000.00	\$4,250.00	\$4,250.00	\$5,250.00	\$5,250.00	\$6,800.00	\$6,800.00
36	6010-B	INTAKE, SW-505	EA	12	\$8,000.00	\$96,000.00	\$5,673.03	\$68,076.36	\$5,562.00	\$66,744.00	\$6,250.00	\$75,000.00	\$6,050.00	\$72,600.00	\$7,500.00	\$90,000.00
37	6010-B	INTAKE, SW-507	EA	2	\$8,000.00	\$16,000.00	\$4,046.56	\$8,093.12	\$3,968.00	\$7,936.00	\$8,005.00	\$16,010.00	\$5,625.00	\$11,250.00	\$6,600.00	\$13,200.00
38	6010-B	INTAKE, SW-512	EA	2	\$3,000.00	\$6,000.00	\$2,042.73	\$4,085.46	\$2,003.00	\$4,006.00	\$2,625.00	\$5,250.00	\$3,150.00	\$6,300.00	\$4,000.00	\$8,000.00
39	6010-B	INTAKE, SW-516, MODIFIED	EA	1	\$15,000.00	\$15,000.00	\$11,693.51	\$11,693.51	\$11,464.25	\$11,464.25	\$13,200.00	\$13,200.00	\$13,000.00	\$13,000.00	\$17,000.00	\$17,000.00
40	6010-E	SANITARY MANHOLE ADJUSTMENT, MINOR	EA													

67	9040-A-1	SWPPP PREPARATION	LS	1	\$3,000.00	\$3,000.00	\$1,530.00	\$1,530.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00		
68	9040-A-2	SWPPP MANAGEMENT	LS	1	\$5,000.00	\$5,000.00	\$3,468.00	\$3,468.00	\$3,400.00	\$3,400.00	\$3,400.00	\$3,400.00	\$3,400.00	\$3,400.00	\$2,500.00	\$2,500.00		
69	9040-D-1	FILTER SOCK, 9 INCH	LF	6000	\$3.50	\$21,000.00	\$1.73	\$10,380.00	\$1.70	\$10,200.00	\$1.70	\$10,200.00	\$1.70	\$10,200.00	\$2.00	\$12,000.00		
70	9040-O-1	STABILIZED CONSTRUCTION ENTRANCE	SY	300	\$15.00	\$4,500.00	\$10.20	\$3,060.00	\$10.00	\$3,000.00	\$25.00	\$7,500.00	\$10.00	\$3,000.00	\$25.00	\$7,500.00		
71	9040-Q-2	EROSION CONTROL MULCHING, HYDRO MULCHING	AC	1	\$3,000.00	\$3,000.00	\$1,489.20	\$1,489.20	\$1,460.00	\$1,460.00	\$1,460.00	\$1,460.00	\$1,460.00	\$1,460.00	\$3,500.00	\$3,500.00		
72	9040-T-1	INLET PROTECTION DEVICE, MAINTENCE, AND REMOVAL	EA	31	\$300.00	\$9,300.00	\$102.00	\$3,162.00	\$100.00	\$3,100.00	\$100.00	\$3,100.00	\$100.00	\$3,100.00	\$200.00	\$6,200.00		
73	9070-A	MODULAR BLOCK RETAINING WALL	SF	160	\$65.00	\$10,400.00	\$49.98	\$7,996.80	\$49.00	\$7,840.00	\$49.00	\$7,840.00	\$49.00	\$7,840.00	\$55.00	\$8,800.00		
74	11020-A	MOBILIZATION	LS	1	\$201,000.00	\$201,000.00	\$109,882.50	\$109,882.50	\$126,000.00	\$126,000.00	\$50,750.00	\$50,750.00	\$355,000.00	\$355,000.00	\$300,000.00	\$300,000.00		
75	9040-D-1	MAINTENANCE OF POSTAL SERVICE	LS	1	\$1,500.00	\$1,500.00	\$4,725.00	\$4,725.00	\$2,500.00	\$2,500.00	\$4,500.00	\$4,500.00	\$7,500.00	\$7,500.00	\$2,500.00	\$2,500.00		
76	9040-O-1	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1	\$7,700.00	\$7,700.00	\$5,250.00	\$5,250.00	\$15,000.00	\$15,000.00	\$10,700.00	\$10,700.00	\$11,000.00	\$11,000.00	\$5,000.00	\$5,000.00		
77	9040-Q-2	TEMPORARY PEDESTRIAN RESIDENTIAL ACCESS	LS	1	\$22,400.00	\$22,400.00	\$3,150.00	\$3,150.00	\$5,000.00	\$5,000.00	\$24,500.00	\$24,500.00	\$65,000.00	\$65,000.00	\$7,500.00	\$7,500.00		
78	11030-A	CONCRETE WASHOUT	LS	1	\$3,000.00	\$3,000.00	\$3,672.00	\$3,672.00	\$3,600.00	\$3,600.00	\$3,600.00	\$3,600.00	\$4,000.00	\$4,000.00	\$5,500.00	\$5,500.00		
					TOTAL BASE BID		\$2,207,736.25		\$1,650,272.82				\$2,187,252.00		\$2,258,779.50		\$2,336,311.00	
ALTERNATE A																		
Item No.	Item Code	Description	Unit	Quantity	Engineer's Estimate Bolton & Menk, Inc.		Shekar Engineering, P.L.C. Des Moines, Iowa		All Star Concrete LLC Johnston, Iowa		Corell Contractor, Inc West Des Moines, Iowa		Absolute Group Granger, Iowa		TK Concrete, Inc. Pella, Iowa			
					Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount		
A1	2010-C	CLEARING AND GRUBBING	LS	1	\$10,000.00	\$10,000.00	\$12,285.00	\$12,285.00	\$14,500.00	\$14,500.00	\$27,800.00	\$27,800.00	\$14,500.00	\$14,500.00	\$10,000.00	\$10,000.00		
A2	2010-D-1	TOPSOIL, ON-SITE	CY	156	\$30.00	\$4,680.00	\$10.20	\$1,591.20	\$10.00	\$1,560.00	\$35.00	\$5,460.00	\$10.00	\$1,560.00	\$25.00	\$3,900.00		
A3	2010-E	EXCAVATION, CLASS 10	CY	309	\$20.00	\$6,180.00	\$15.30	\$4,727.70	\$15.00	\$4,635.00	\$25.00	\$7,725.00	\$15.00	\$4,635.00	\$25.00	\$7,725.00		
A4	2010-F	BELOW GRADE EXCAVATION (CORE OUT)	CY	102	\$60.00	\$6,120.00	\$20.40	\$2,080.80	\$20.00	\$2,040.00	\$65.00	\$6,630.00	\$20.00	\$2,040.00	\$50.00	\$5,100.00		
A5	2010-G	SUBGRADE PREPARATION	SY	1020	\$3.50	\$3,570.00	\$1.02	\$1,040.40	\$1.00	\$1,020.00	\$3.50	\$3,570.00	\$1.00	\$1,020.00	\$5.00	\$5,100.00		
A6	2010-I	SUBGRADE TREATMENT, GEOGRID, TYPE 2	SY	102	\$3.25	\$331.50	\$2.04	\$208.08	\$2.00	\$204.00	\$3.00	\$306.00	\$2.00	\$204.00	\$10.00	\$1,020.00		
A7	2010-J	SUBBASE, MODIFIED, 8 INCHES	SY	1020	\$13.00	\$13,260.00	\$16.83	\$17,166.60	\$16.50	\$16,830.00	\$12.50	\$12,750.00	\$16.50	\$16,830.00	\$20.00	\$20,400.00		
A8	3010-D	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	CY	30	\$50.00	\$1,500.00	\$81.60	\$2,448.00	\$100.00	\$3,000.00	\$35.00	\$1,050.00	\$122.00	\$3,660.00	\$100.00	\$3,000.00		
A9	4020-A-1	STORM SEWER, TRENCHED, 36 INCH	LF	145	\$175.00	\$25,375.00	\$109.72	\$15,909.40	\$107.60	\$15,602.00	\$250.00	\$36,250.00	\$213.00	\$30,885.00	\$225.00	\$32,625.00		
A10	4020-A-1	STORM SEWER, TRENCHED, RCP, 44" X 27" ARCH	LF	132	\$350.00	\$46,200.00	\$237.76	\$31,384.32	\$233.10	\$30,769.20	\$300.00	\$39,600.00	\$335.00	\$44,220.00	\$350.00	\$46,200.00		
A11	4020-D	REMOVAL OF STORM SEWER, LESS THAN 36 INCH	LF	275	\$15.00	\$4,125.00	\$10.06	\$2,766.50	\$9.90	\$2,722.50	\$35.00	\$9,625.00	\$15.00	\$4,125.00	\$30.00	\$8,250.00		
A12	4040-A	SUBDRAIN, PERFORATED HDPE, 6 INCH	LF	524	\$20.00	\$10,480.00	\$13.95	\$7,309.80	\$13.70	\$7,178.80	\$21.50	\$11,266.00	\$23.00	\$12,052.00	\$28.00	\$14,672.00		
A13	4040-C-1	SUBDRAIN CLEANOUT, TYPE A-1, 6 INCH	EA	2	\$700.00	\$1,400.00	\$500.96	\$1,001.92	\$491.15	\$982.30	\$600.00	\$1,200.00	\$770.00	\$1,540.00	\$1,250.00	\$2,500.00		
A14	4040-D-1	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6 INCH	EA	2	\$500.00	\$1,000.00	\$475.21	\$950.42	\$466.00	\$932.00	\$275.00	\$550.00	\$185.00	\$370.00	\$375.00	\$750.00		
A15	SPEC. PROV.	WATER MAIN, TRENCHED, PVC C900 (DR 18), 8 INCH WITH TRACER WIRE	LF	260	\$80.00	\$20,800.00	\$36.26	\$9,427.60	\$35.55	\$9,243.00	\$180.00	\$46,800.00	\$58.25	\$15,145.00	\$70.00	\$18,200.00		
A16	SPEC. PROV.	FITTING BY WEIGHT, DUCTILE IRON	LB	76	\$10.00	\$760.00	\$9.64	\$732.64	\$9.45	\$718.20	\$20.00	\$1,520.00	\$25.00	\$1,900.00	\$40.00	\$3,040.00		
A17	SPEC. PROV.	WATER MAIN REMOVAL	LF	40	\$20.00	\$800.00	\$8.25	\$330.00	\$8.10	\$324.00	\$68.00	\$2,720.00	\$15.00	\$600.00	\$30.00	\$1,200.00		
A18	6010-A	STORM MANHOLE, SW-401, 72 INCH	EA	1	\$10,000.00	\$10,000.00	\$8,088.27	\$8,088.27	\$7,930.00	\$7,930.00	\$9,500.00	\$9,500.00	\$9,000.00	\$9,000.00	\$11,250.00	\$11,250.00		
A19	6010-B	INTAKE, SW-516, MODIFIED	EA	1	\$15,000.00	\$15,000.00	\$12,150.33	\$12,150.33	\$11,913.00	\$11,913.00	\$13,500.00	\$13,500.00	\$13,000.00	\$13,000.00	\$17,500.00	\$17,500.00		
A20	6010-E	INTAKE ADJUSTMENT, MINOR	EA	2	\$1,500.00	\$3,000.00	\$1,261.68	\$2,523.36	\$1,237.00	\$2,474.00	\$550.00	\$1,100.00	\$1,750.00	\$3,500.00	\$2,000.00	\$4,000.00		
A21	6010-H	REMOVE INTAKE	EA	1	\$1,000.00	\$1,000.00	\$917.53	\$917.53	\$900.00	\$900.00	\$1,000.00	\$1,000.00	\$650.00	\$650.00	\$1,000.00	\$1,000.00		
A22	7010-A	PAVEMENT, PCC, 7 INCH	SY	800	\$70.00	\$56,000.00	\$57.26	\$45,808.00	\$65.65	\$52,520.00	\$55.30	\$44,240.00	\$85.00	\$68,000.00	\$67.50	\$54,000.00		
A23	7010-999-A	JOINT PREVENTATIVE SEALANT	LF	1804	\$2.25	\$4,059.00	\$1.02	\$1,840.08	\$1.25	\$2,255.00	\$2.05	\$3,698.20	\$1.00	\$1,804.00	\$1.25	\$2,255.00		
A24	7030-A-1	REMOVAL OF SIDEWALK	SY	10	\$15.00	\$150.00	\$10.20	\$102.00	\$15.00	\$150.00	\$15.00	\$150.00	\$10.00	\$100.00	\$15.00	\$150.00		
A25	7030-A-3	REMOVAL OF DRIVEWAY	SY	110	\$15.00	\$1,650.00	\$10.20	\$1,122.00	\$15.00	\$1,650.00	\$15.00	\$1,650.00	\$10.00	\$1,100.00	\$15.00	\$1,650.00		
A26	7030-E	SIDEWALK, PCC, 4 INCH	SY	150	\$60.00	\$9,000.00	\$45.90	\$6,885.00	\$42.00	\$6,300.00	\$48.50	\$7,275.00	\$45.00	\$6,750.00	\$70.00	\$10,500.00		
A27	7030-E	SIDEWALK, PCC, 6 INCH	SY	10	\$85.00	\$850.00	\$56.10	\$561.00	\$63.00	\$630.00	\$106.00	\$1,060.00	\$60.00	\$600.00	\$100.00	\$1,000.00		
A28	7030-G	DETECTABLE WARNING	SF	20	\$55.00	\$1,100.00	\$51.00	\$1,020.00	\$55.00	\$1,100.00	\$36.00	\$720.00	\$58.00	\$1,160.00	\$50.00	\$1,000.00		
A29	7030-H-1	DRIVEWAY, PAVED, PCC, 6 INCH	SY	110	\$70.00	\$7,700.00	\$61.20	\$6,732.00	\$48.50	\$5,335.00	\$61.50	\$6,765.00	\$58.00	\$6,380.00	\$75.00	\$8,250.00		
A30	7030-H-3	TEMPORARY GRANULAR SURFACING, CLASS A ROAD STONE	TON	50	\$30.00	\$1,500.00	\$45.90	\$2,295.00	\$45.00	\$2,250.00	\$65.00	\$3,250.00	\$45.00	\$2,250.00	\$60.00	\$3,000.00		
A31	7040-H	PAVEMENT REMOVAL	SY	770	\$15.00	\$11,550.00	\$10.20	\$7,854.00	\$15.00	\$11,550.00	\$15.00	\$11,550.00	\$10.00	\$7,700.00	\$10.00	\$7,700.00		
A32	8040-A	TRAFFIC SIGNS, TYPE A	EA	3	\$400.00	\$1,200.00	459.00	\$1,377.00	\$250.00	\$750.00	\$250.00	\$750.00	250.00	\$750.00	\$300.00	\$900.00		
A33	8040-D	PERFORATED SQUARE STEEL TUBE POSTS	EA	2	\$300.00	\$600.00	\$408.00	\$816.00	\$250.00	\$500.00	\$250.00	\$500.00	\$250.00	\$500.00	\$400.00	\$800.00		
A34	9010-D	WATERING	MGAL	14	\$55.00	\$770.00	\$71.40	\$999.60	\$70.00	\$980.00	\$70.00	\$980.00	\$70.00	\$980.00	\$75.00	\$1,050.00		
A35	9020-A	SOD	SQ	50	\$150.00	\$7,500.00	\$66.30	\$3,315.00	\$64.00	\$3,200.00	\$65.00	\$3,250.00	\$65.00	\$3,250.00	\$75.00	\$3,750.00		
A36	9040-D-1	FILTER SOCK, 9 INCH	LF	840	\$3.50	\$2,940.00	\$1.73	\$1,453.20	\$1.70	\$1,428.00	\$1.70	\$1,428.00	\$1.70	\$1,428.00	\$2.00	\$1,680.00		
A37	9040-T-1	INLET PROTECTION DEVICE, MAINTENCE, AND REMOVAL	EA	4	\$300.00	\$1,200.00	\$122.40	\$489.60	\$120.00	\$480.00	\$120.00	\$480.00	\$120.00	\$480.00	\$225.00	\$900.00		
A38	9060-D	REMOVAL AND REINSTALLATION OF EXISTING FENCE, CHAIN LINK FENCE, RESIDENTIAL	LF	80	\$55.00	\$4,400.00	\$57.75	\$4,620.00	30.00	\$2,400.00	20.00	\$1,600.00	28.00	\$2,240.00	80.00	\$6,400.00		
A39	11040-A	TEMPORARY PEDESTRIAN RESIDENTIAL ACCESS	LS	1	\$2,400.00	\$2,400.00	\$1,890.00	\$1,890.00	\$5,000.00	\$5,000.00	\$9,100.00	\$9,100.00</						

CITY OF WINDSOR HEIGHTS, IOWA

CONSTRUCTION PLANS FOR

68TH STREET SOUTH RECONSTRUCTION

WINDSOR HEIGHTS, IA
JANUARY 2025

GOVERNING SPECIFICATIONS

THE 2024 EDITION OF THE "IOWA STATEWIDE URBAN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS".

IOWA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION", VERSION OCTOBER 2015 AND ALL CURRENT GENERAL SUPPLEMENTAL SPECIFICATIONS AND MATERIALS INSTRUCTIONAL MEMORANDUM SHALL GOVERN AS REFERENCED.

MUTCD 2009 AS ADOPTED BY IOWA DEPARTMENT OF TRANSPORTATION.

NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW, NOTIFY IOWA ONE CALL 1-800-292-8989



UTILITY CONTACTS

SANITARY SEWER: CITY OF WINDSOR HEIGHTS
JASON ROBERTS
1145 66TH ST.
WINDSOR HEIGHTS, IOWA 50324
CELL: 515-279-3662

STORM SEWER: CITY OF WINDSOR HEIGHTS
JASON ROBERTS
1145 66TH ST.
WINDSOR HEIGHTS, IOWA 50324
CELL: 515-279-3662

WATER: DES MOINES WATER WORKS
CARLA SCHUMACHER
2201 GEORGE FLAG PARKWAY
DES MOINES, IOWA 50321
CSCHUMACHER@DMWW.COM

NATURAL GAS: MIDAMERICAN ENERGY
SCOT ENGER
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URBANDALE, IA 50322
CELL: 515-252-6742
SCOT.ENGGER@MIDAMERICAN.COM

ELECTRIC: MIDAMERICAN ENERGY
SCOT ENGER
3500 104TH STREET
URBANDALE, IA 50322
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SCOT.ENGGER@MIDAMERICAN.COM

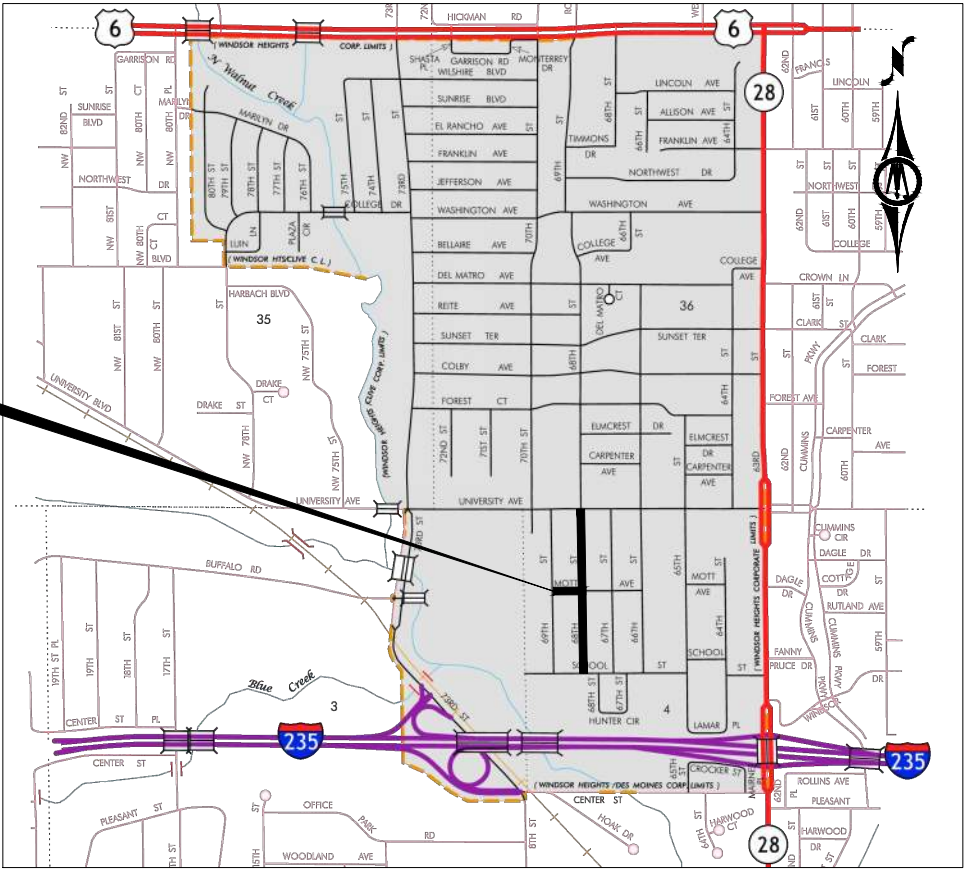
COMMUNICATIONS LUMEN:
ASHLIE CLEMENTS
2103 E. UNIVERSITY
DES MOINES, IA 50317
CELL: 906-284-2821
ASHLIE.CLEMENTS@LUMEN.COM

IOWA COMMUNICATION NETWORK:
TIMOTHY FLICKINGER
400 EAST 14TH STREET
DES MOINES, IA 50319
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TIMOTHY.FLICKINGER@IOWA.GOV

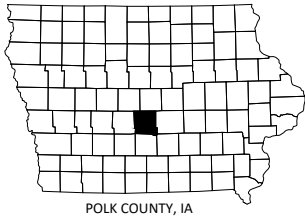
VERIZON
MARK ALEXANDER
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MEDIACOM
KEVIN COLLINS
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KCCOLLINS1@MEDIACOMCC.COM

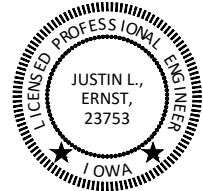
PROJECT LOCATION



MAP OF THE
CITY OF WINDSOR HEIGHTS
POLK COUNTY, IA



SHEET INDEX			
SHEET NUMBER	SHEET TITLE	REVISION	ISSUE DATE
A.01	TITLE		
A.02	LEGEND		
B.01 - B.03	TYPICAL SECTIONS		
C.01 - C.02	GENERAL NOTES		
C.03	QUANTITIES - BASE BID		
C.04 - C.06	ESTIMATE REFERENCE NOTES - BASE BID		
C.07	QUANTITIES - ALTERNATE A		
C.08	ESTIMATE REFERENCE NOTES - ALTERNATE A		
C.09	TABULATIONS		
D.01 - D.03	PLAN & PROFILE - 68TH STREET		
D.04	PLAN & PROFILE - MOTT AVENUE		
D.05	PLAN & PROFILE - SCHOOL ST		
F.01 - F.02	REMOVAL SHEETS - 68TH STREET		
F.03	REMOVAL SHEETS - MOTT AVENUE		
G.01 - G.02	ALIGNMENT AND CONTROL DATA		
H.01 - H.03	RIGHT OF WAY		
J.01	STAGING AND TRAFFIC CONTROL NOTES		
J.02	STAGING AND TRAFFIC CONTROL - 68TH STREET		
J.03 - J.06	TRAFFIC CONTROL - 68TH STREET		
K.01	RETAINING WALL DETAILS		
K.02	PLAN & PROFILE - RETAINING WALL		
L.01 - L.03	JOINTING DETAILS		
L.04 - L.06	INTERSECTION DETAIL - 68TH STREET		
L.07	INTERSECTION DETAILS - MOTT AVE		
M1.01 - M1.02	STORM SEWER TABULATION		
M1.03 - M1.09	STORM SEWER DETAILS		
M1.10 - M1.12	STORM SEWER PLAN - 68TH STREET		
M1.13	STORM SEWER PLAN - MOTT AVENUE		
M1.14 - M1.17	STORM SEWER CROSS-RUNS		
M2.01	SANITARY SEWER DETAILS & TABULATION		
M2.02 - M2.04	SANITARY SEWER PLAN - 68TH STREET		
MWM.01	WATER MAIN GENERAL NOTES		
MWM.02	WATER MAIN SCHEDULE		
MWM.03	DES MOINES WATER WORKS DETAIL		
MWM.04 - MWM.07	WATER MAIN PLAN & PROFILE - 68TH STREET		
MWM.08	WATER MAIN PLAN - MOTT AVENUE		
N.01	SIGNING & STRIPPING DETAILS AND TABULATION		
N.02 - N.04	SIGNING AND STRIPPING PLAN		
R.01 - R.02	SWPPP GENERAL NOTES		
R.03	EROSION CONTROL DETAILS		
R.04 - R.06	EROSION CONTROL PLAN		
S.01 - S.02	SIDEWALK DETAILS		
S.03 - S.06	SIDEWALK SHEETS - 68TH STREET		
S.07	SIDEWALK SHEETS - MOTT AVENUE & SCHOOL STREET		
S.08 - S.09	ADA COMPLIANCE		
W.01 - W.05	CROSS SECTIONS - 68TH ST		
W.06	CROSS SECTIONS - MOTT AVE		



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.

JUSTIN L. ERNST, P.E.

LICENSE NUMBER: 23753 DATE: XX/XX/XXXX

MY LICENSE RENEWAL DATE IS December 31, 2025

PAGES OR SHEETS COVERED BY THIS SEAL:

ALL SHEET

CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

TITLE SHEET

SHEET

A.01



430 E GRAND AVENUE, SUITE 101
DES MOINES, IA 50309
Phone: (515) 259-9190
Email: DesMoines@bolton-menk.com
www.bolton-menk.com

DESIGNED	REV	DESCRIPTION	DATE
FAM			
PL			
JLE			
CLIENT PROJ. NO.			
0A1.133739			

EXISTING TOPOGRAPHIC SYMBOLS

	ACCESS GRATE		SATELLITE DISH
	AIR CONDITION UNIT		SIGN TRAFFIC
	ANTENNA		SIGNAL CONTROL CABINET
	AUTO SPRINKLER CONNECTION		SOIL BORING
	BARRICADE PERMANENT		SIREN
	BASKETBALL POST		TELEPHONE BOOTH
	BENCH		TILE INLET
	BIRD FEEDER		TILE OUTLET
	BOLLARD		TILE RISER
	BUSH		TRANSFORMER-ELECTRIC
	CATCH BASIN RECTANGULAR CASTING		TREE-CONIFEROUS
	CATCH BASIN CIRCULAR CASTING		TREE-DEAD
	CURB STOP		TREE-DECIDUOUS
	CLEAN OUT		TREE STUMP
	CULVERT END		TRAFFIC ARM BARRIER
	DRINKING FOUNTAIN		TRAFFIC SIGNAL
	DOWN SPOUT		TRASH CAN
	FILL PIPE		UTILITY MARKER
	FIRE HYDRANT		VALVE
	FLAG POLE		VALVE POST INDICATOR
	FLARED END / APRON		VALVE VAULT
	FUEL PUMP		VAULT
	GRILL		VENT PIPE
	GUY WIRE ANCHOR		WATER SPIGOT
	HANDHOLE		WELL
	HANDICAP SPACE		WETLAND DELINEATED MARKER
	IRRIGATION SPRINKLER HEAD		WETLAND
	IRRIGATION VALVE BOX		WET WELL
	LIFT STATION CONTROL PANEL		YARD HYDRANT
	LIFT STATION		
	LIGHT POLE		
	MAILBOX		
	MANHOLE-COMMUNICATION		
	MANHOLE-ELECTRIC		
	MANHOLE-GAS		
	MANHOLE-HEAT		
	MANHOLE-SANITARY SEWER		
	MANHOLE-STORM SEWER		
	MANHOLE-UTILITY		
	MANHOLE-WATER		
	METER		
	ORDER MICROPHONE		
	PARKING METER		
	PAVEMENT MARKING		
	PEDESTAL-COMMUNICATION		
	PEDESTAL-ELECTRIC		
	PEDESTRIAN PUSH BUTTON		
	PICNIC TABLE		
	POLE-UTILITY		
	POST		
	RAILROAD SIGNAL POLE		
	REGULATION STATION GAS		

PROPOSED TOPOGRAPHIC SYMBOLS

	CLEANOUT
	MANHOLE
	LIFT STATION
	STORM SEWER CIRCULAR CASTING
	STORM SEWER RECTANGULAR CASTING
	STORM SEWER FLARED END / APRON
	STORM SEWER OUTLET STRUCTURE
	STORM SEWER OVERFLOW STRUCTURE
	CURB BOX
	FIRE HYDRANT
	WATER VALVE
	WATER REDUCER
	WATER BEND
	WATER TEE
	WATER CROSS
	WATER SLEEVE
	WATER CAP / PLUG
	RIP RAP
	DRAINAGE FLOW
	TRAFFIC SIGNS
	LIGHT POLE

SURVEY SYMBOLS

	BENCHMARK LOCATION		CAST IRON MONUMENT
	CONTROL POINT		STONE MONUMENT
	MONUMENT FOUND		

EXISTING TOPOGRAPHIC LINES

	RETAINING WALL
	FENCE
	FENCE-DECORATIVE
	GUARD RAIL
	TREE LINE
	BUSH LINE

SURVEY LINES

	CONTROLLED ACCESS
	BOUNDARY
	CENTERLINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	EXISTING LOT LINE
	PROPOSED LOT LINE
	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	SETBACK LINE
	SECTION LINE
	QUARTER LINE
	SIXTEENTH LINE
	TEMPORARY EASEMENT

EXISTING UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE

PROPOSED UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE
	PIPE CASING
	TRENCHLESS PIPE (PLAN VIEW)
	TRENCHLESS PIPE (PROFILE VIEW)

GRADING INFORMATION

	EXISTING CONTOUR MINOR
	EXISTING CONTOUR MAJOR
	PROPOSED CONTOUR MINOR
	PROPOSED CONTOUR MAJOR
	PROPOSED GRADING LIMITS / SLOPE LIMITS
	PROJECT LIMITS
	PROPOSED SPOT ELEVATION
	RISE:RUN (SLOPE)

EXISTING PRIVATE UTILITY LINES

NOTE:
EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY IOWA ONE CALL - 1-800-292-8989

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"

	UNDERGROUND FIBER OPTIC
	UNDERGROUND ELECTRIC
	UNDERGROUND GAS
	UNDERGROUND COMMUNICATION
	OVERHEAD ELECTRIC
	OVERHEAD COMMUNICATION
	OVERHEAD UTILITY

UTILITIES IDENTIFIED WITH A QUALITY LEVEL OTHER THAN D:

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL
EXAMPLE: G-A G-A UNDERGROUND GAS, QUALITY LEVEL A
UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-02.

UTILITY QUALITY LEVELS:

LEVEL D - INFORMATION COMES SOLELY FROM EXISTING UTILITY RECORDS.

LEVEL C - SURVEYING ABOVE GROUND UTILITY FACILITIES, SUCH AS MANHOLES, VALVE BOXES, ETC; AND CORRELATING THIS INFORMATION WITH EXISTING UTILITY RECORDS.

LEVEL B - THE USE OF SURFACE GEOPHYSICAL TECHNIQUES TO DETERMINE THE EXISTENCE AND HORIZONTAL POSITION OF UNDERGROUND UTILITIES.

LEVEL A - THE USE OF NONDESTRUCTIVE DIGGING EQUIPMENT AT HORIZONTAL AND VERTICAL POSITION OF UNDERGROUND UTILITIES, AS WELL AS THE TYPE, SIZE, CONDITION, MATERIAL, AND OTHER CHARACTERISTICS.

ABBREVIATIONS

A	ALGEBRAIC DIFFERENCE	GV	GATE VALVE	SAN	SANITARY SEWER
ADJ	ADJUST	HDPE	HIGH DENSITY POLYETHYLENE	SCH	SCHEDULE
ALT	ALTERNATE	HH	HANDHOLE	SERV	SERVICE
B-B	BACK TO BACK	HMA	HOT MIX ASPHALT	SHLD	SHOULDER
BLDG	BUILDING	HP	HIGH POINT	STA	STATION
BMP	BEST MANAGEMENT PRACTICE	HWL	HIGH WATER LEVEL	STD	STANDARD
BR	BEGIN RADIUS	HYD	HYDRANT	STM	STORM SEWER
BV	BUTTERFLY VALVE	I	INVERT	TC	TOP OF CURB
CB	CATCH BASIN	K	CURVE COEFFICIENT	TE	TEMPORARY EASEMENT
C&G	CURB AND GUTTER	L	LENGTH	TEMP	TEMPORARY
CIP	CAST IRON PIPE	LO	LOWEST OPENING	TNH	TOP NUT HYDRANT
CIPP	CURED-IN-PLACE PIPE	LP	LOW POINT	TP	TOP OF PIPE
CL	CENTER LINE	LT	LEFT	TYP	TYPICAL
CL	CLASS	MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	VERT	VERTICAL
C.O.	CHANGE ORDER	MR	MID RADIUS	VPC	VERTICAL POINT OF CURVE
COMM	COMMUNICATION	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
CSP	CORRUGATED STEEL PIPE	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TANGENT
CLVT	CULVERT	NTS	NOT TO SCALE	WM	WATERMAIN
DIA	DIAMETER	NWL	NORMAL WATER LEVEL	WS	WATER SERVICE
DIP	DUCTILE IRON PIPE	OHW	ORDINARY HIGH WATER LEVEL		
DWY	DRIVEWAY	PC	POINT OF CURVE		
E	EXTERNAL CURVE DISTANCE	PCC	PORTLAND CEMENT CONCRETE	AC	ACRES
ESMT	EASEMENT	PE	PERMANENT EASEMENT	CF	CUBIC FEET
ELEC	ELECTRIC	PED	PEDESTRIAN, PEDESTAL	CV	COMPACTED VOLUME
ELEV/EL	ELEVATION	PERF	PERFORATED PIPE	CY	CUBIC YARD
EOF	EMERGENCY OVERFLOW	PERM	PERMANENT	EA	EACH
ER	END RADIUS	PI	POINT OF INTERSECTION	EV	EXCAVATED VOLUME
EX	EXISTING	PL	PROPERTY LINE	LB	POUND
FES	FLARED END SECTION	PRC	POINT OF REVERSE CURVE	LF	LINEAR FEET
F-F	FACE TO FACE	PT	POINT OF TANGENT	LS	LUMP SUM
FF	FINISHED FLOOR	PVC	POLYVINYL CHLORIDE PIPE	LV	LOOSE VOLUME
F&I	FURNISH AND INSTALL	PVMT	PAVEMENT	SF	SQUARE FEET
FM	FORCEMAIN	R	RADIUS	SV	STOCKPILE VOLUME
FO	FIBER OPTIC	RCP	REINFORCED CONCRETE PIPE	SY	SQUARE YARD
F.O.	FIELD ORDER	RET	RETAINING		
GRAN	GRANULAR	R/W	RIGHT-OF-WAY		
GRAV	GRAVEL	RSC	RIGID STEEL CONDUIT		
GU	GUTTER	RT	RIGHT		



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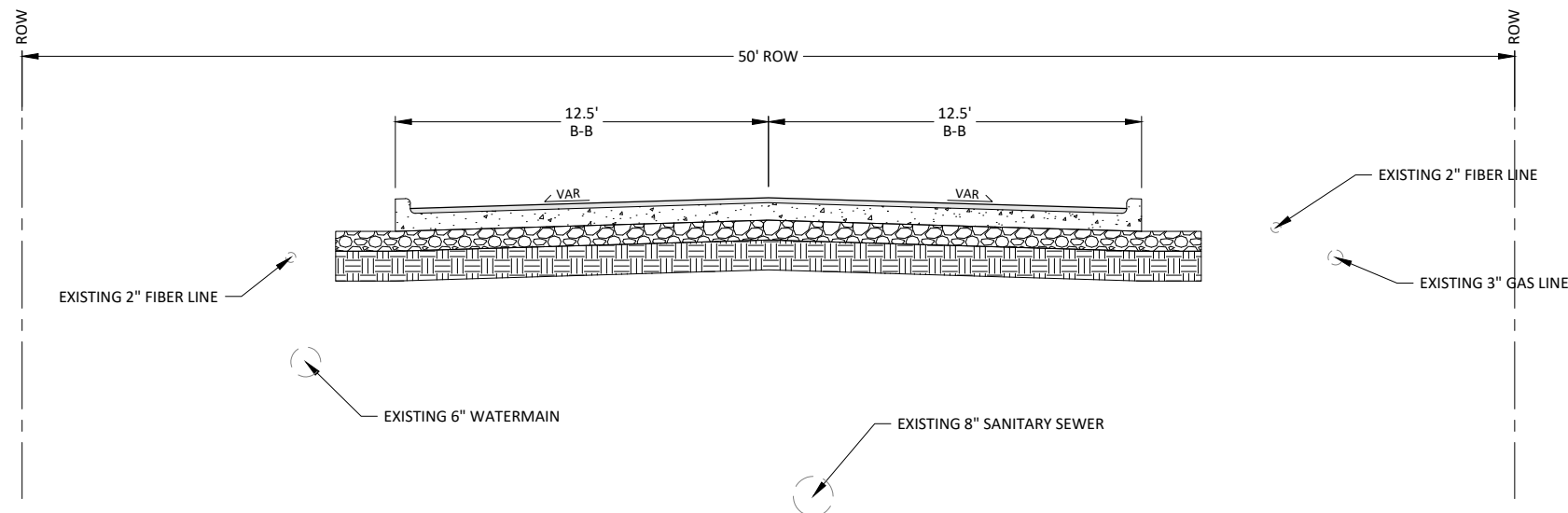
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

LEGEND SHEET

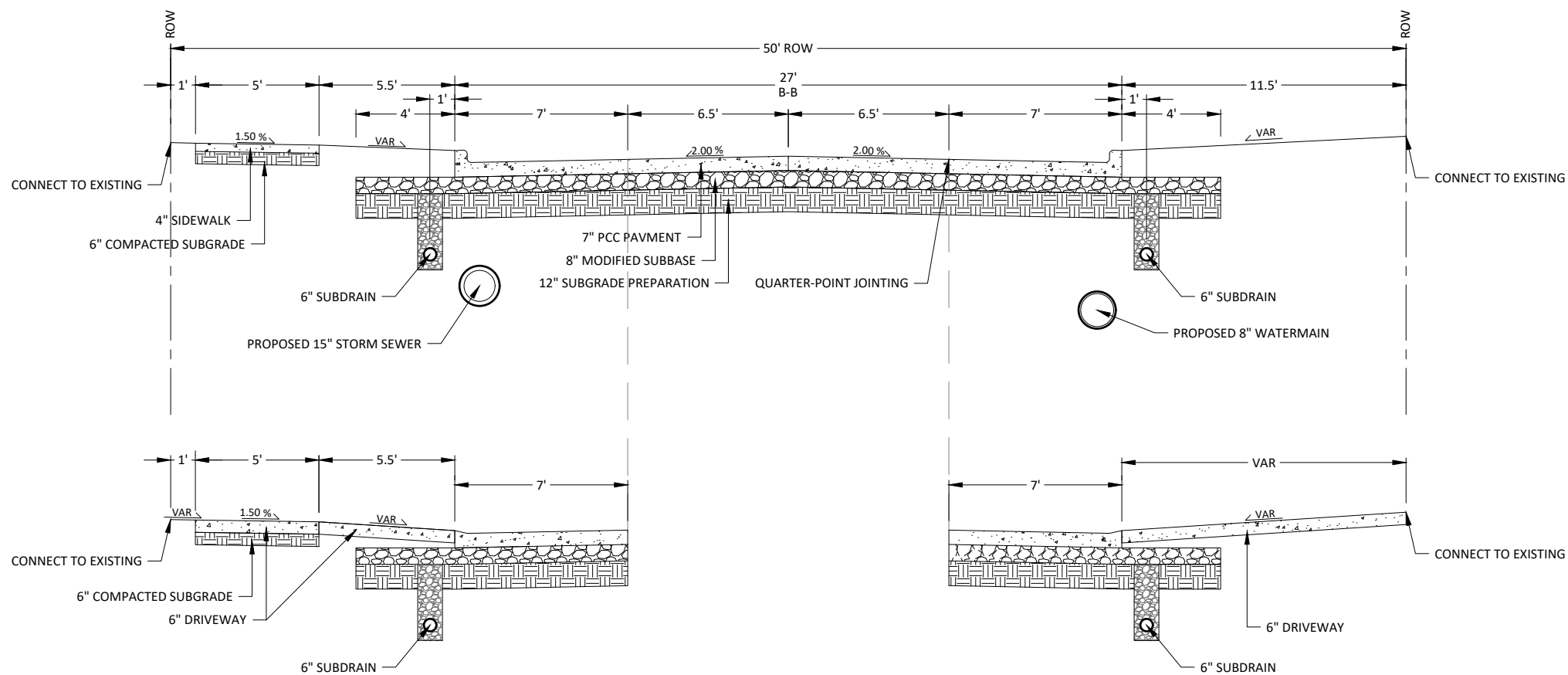
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A.02



TYPICAL EXISTING PAVEMENT SECTION - 68TH ST
NOT TO SCALE

STA: 10+00.00 TO 27+79.81



TYPICAL SECTION - PCC PAVEMENT - 68TH ST
NOT TO SCALE

STA: 10+00.02 TO 18+78.98

STA: 23+85.00 TO 27+71.83

DRIVEWAY SECTION
NOT TO SCALE

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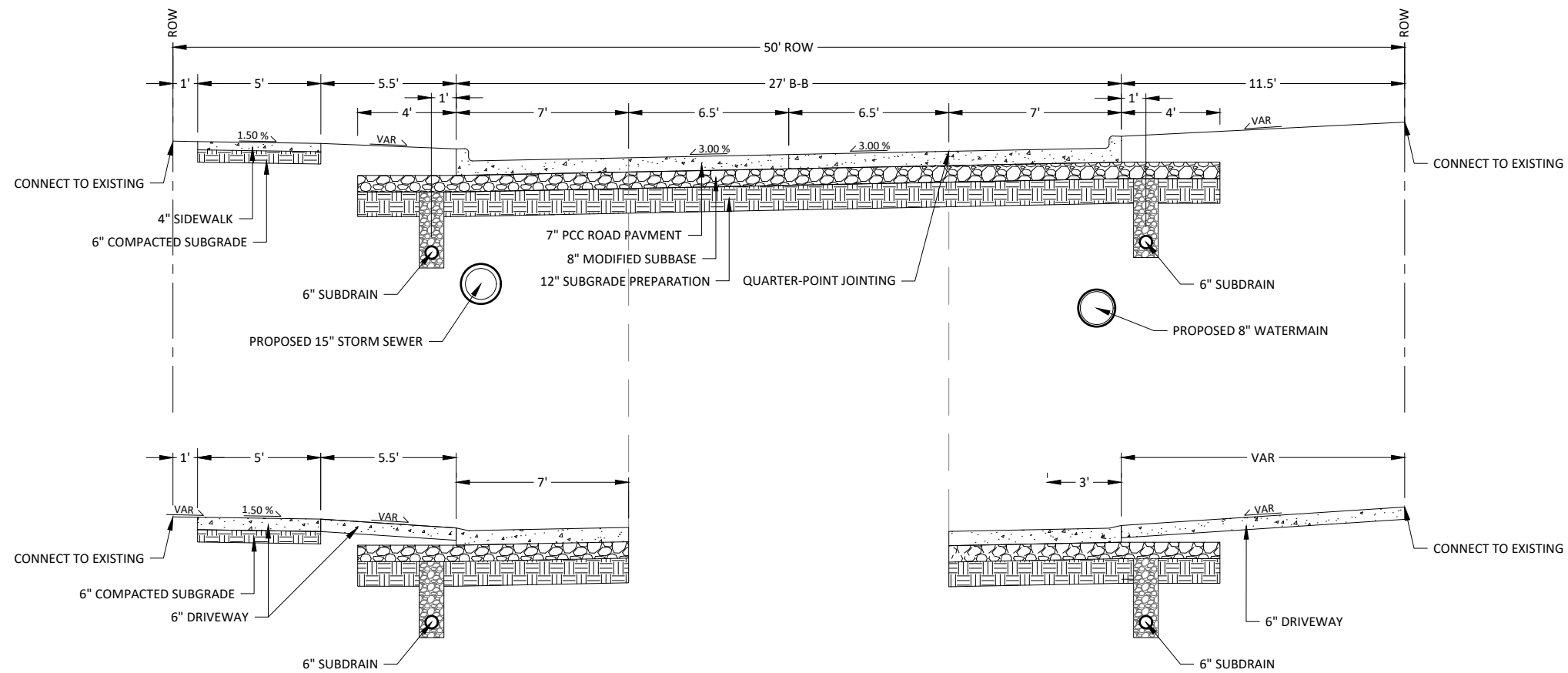
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

TYPICAL SECTIONS

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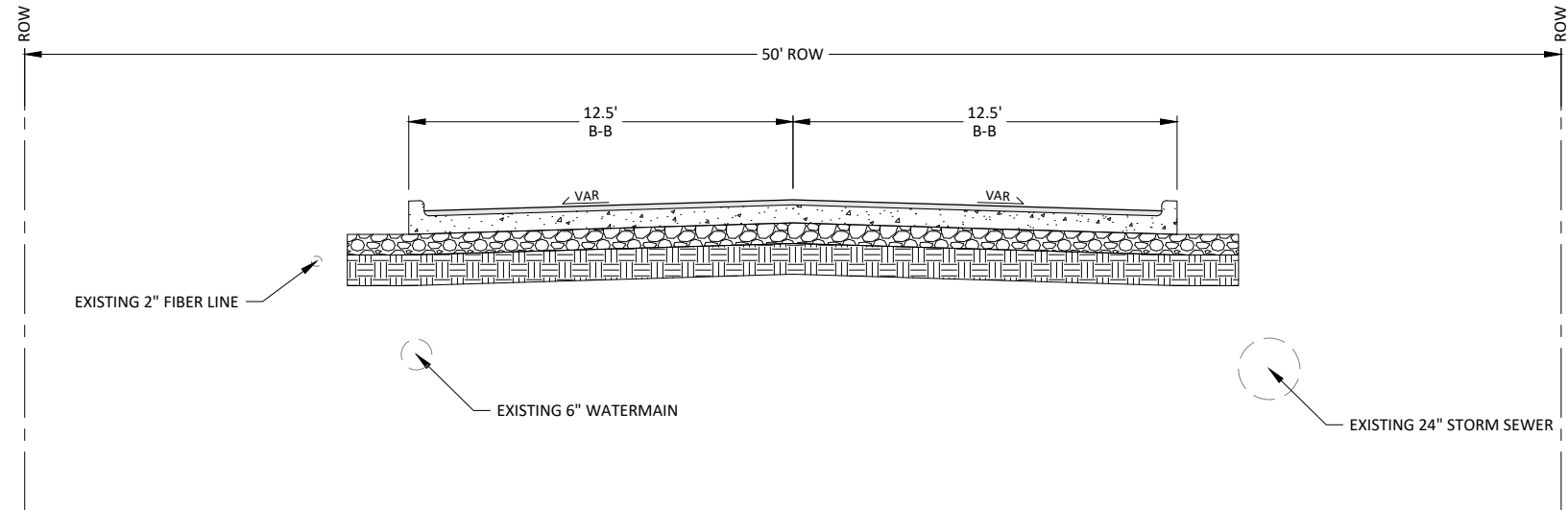
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TYPICAL SECTION - PCC PAVEMENT MONOSLOPE - 68TH ST
NOT TO SCALE

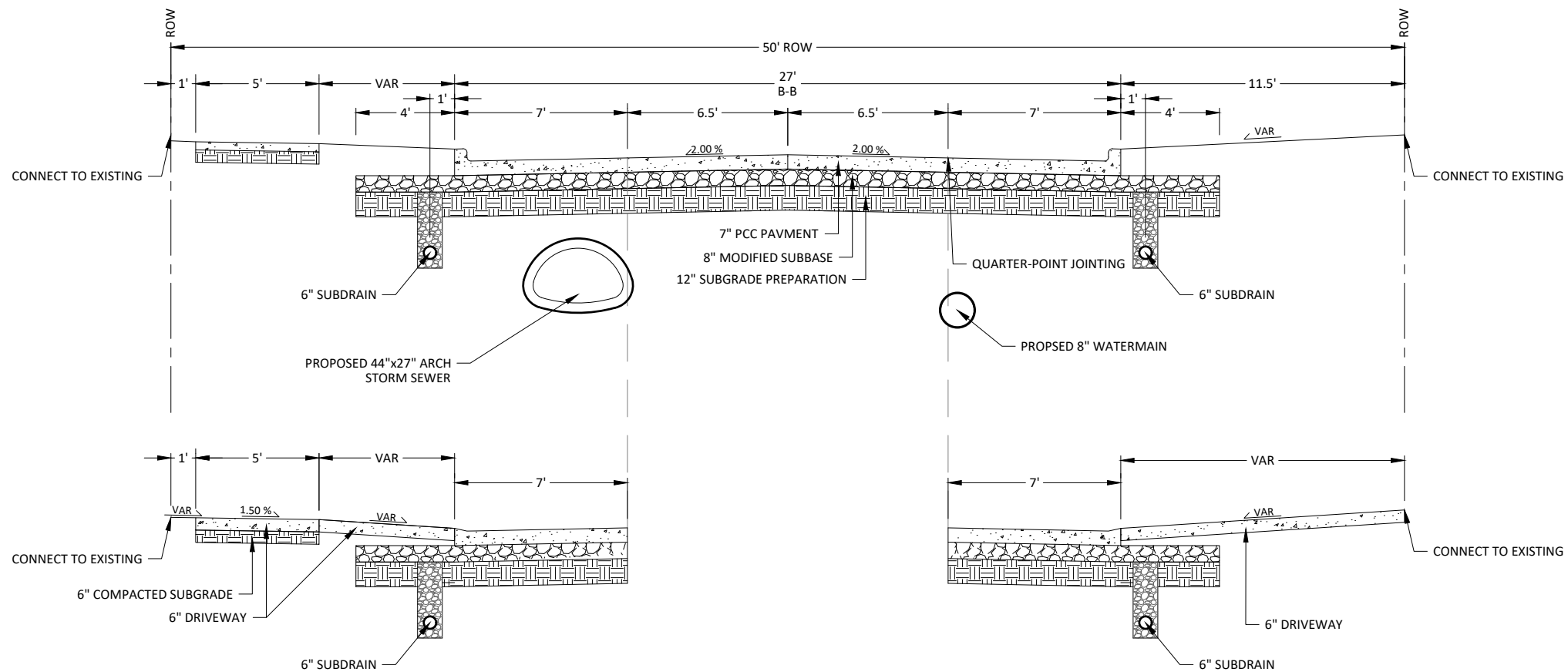
DRIVEWAY SECTION
NOT TO SCALE

STA: 19+35.17 TO 22+62.45



TYPICAL EXISTING PAVEMENT SECTION - MOTT AVE
NOT TO SCALE

STA: 50+00.00 TO 53+50.50



TYPICAL SECTION - ALTERNATE BID
NOT TO SCALE

DRIVEWAY SECTION
NOT TO SCALE

STA: 50+00.00 TO STA 53+50.50

STANDARD CONSTRUCTION NOTE:

1.

ALL IMPROVEMENTS, EXCEPT FOR WATER MAIN RELATED ITEMS, SHALL BE IN ACCORDANCE WITH THE 2024 EDITION OF THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) AND SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. THE CONTRACTOR SHALL HAVE A COMPLETE SET OF THE CURRENT SUDAS STANDARD SPECIFICATIONS ON SITE DURING ALL CONSTRUCTION ACTIVITIES.
2.

WATER MAIN RELATED IMPROVEMENTS AND ITEMS TO FOLLOW PLANS AND DES MOINES WATER WORKS SPECIAL PROVISIONS.
3.

ANY DEFECTIVE WORK CONDEMNED BY THE ENGINEER SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH SUDAS SECTION 1050. FAILURE TO REMOVE DEFECTIVE WORK MAY RESULT IN SUSPENSION OF OPERATIONS AND/OR WITHHOLDING OF PAYMENTS UNTIL DEFECTIVE WORK HAS BEEN REMOVED AND REPLACED.
4.

PRIOR TO MOBILIZING OFF OF THE JOB SITE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO REQUEST A FINAL INSPECTION IN ACCORDANCE WITH SUDAS SECTION 1050.
5.

THE CONTRACTOR SHALL PROCURE ALL NECESSARY PERMITS AND LICENSES IN ACCORDANCE WITH SUDAS SECTION 1070.
6.

THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY AND COMPLYING WITH ALL CURRENT AND FUTURE FEDERAL AND STATE OSHA REQUIREMENTS IN ACCORDANCE WITH SUDAS SECTION 1070.
7.

LIMITS OF CONSTRUCTION ARE WITHIN THE CITY RIGHT OF WAY, UNLESS SHOWN OTHERWISE IN THE CONSTRUCTION DRAWINGS. WORK SHALL BE COMPLETED IN THE LIMITS OF CONSTRUCTION AND IN ACCORDANCE WITH SUDAS SECTION 1070.
8.

THE CONTRACTOR SHALL UPDATE THE TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH SUDAS SECTION 1070, IF CONSTRUCTION ACTIVITIES DEVIATE FROM STAGING PLAN PROVIDED. ANY TRAFFIC CONTROL DEVICES OR SAFETY EQUIPMENT NEEDED TO CONSTRUCT THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION PHASING AND TRAFFIC CONTROL PLAN WITH PLANNED DETOURS TO THE CITY OF WINDSOR HEIGHTS PUBLIC SERVICES FOR APPROVAL BEFORE THE START OF ANY CONSTRUCTION ACTIVITIES.
9.

THE LOCATION OF ALL AERIAL AND UNDERGROUND UTILITIES MAY NOT BE INDICATED ON THESE PLANS. WORK SHALL BE COMPLETED IN ACCORDANCE WITH SUDAS SECTION 1070. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DAMAGE TO EXISTING UTILITIES.
10.

IN ACCORDANCE WITH SUDAS SECTION 1070, 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 PROPERTY. THE CONTRACTOR SHALL PROTECT TREES AND OTHER PROPERTY NOT MARKED FOR REMOVAL . THE CONTRACTOR SHALL SALVAGE ANY LANDSCAPING WITHIN THE RIGHT OF WAY UPON REQUEST BY THE ADJACENT PROPERTY OWNERS.
11.

THE CONTRACTOR SHALL PRESERVE OR REPLACE ALL PROPERTY MONUMENTS ON THE PROJECT SITE IN ACCORDANCE WITH IOWA STATE CODE SECTION 355.6A AND SUDAS SECTION 1070.
12.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SITE CLEANLINESS. UPON REQUEST BY THE ENGINEER, THE CONTRACTOR SHALL, AT ITS EXPENSE, CLEANUP AND REMOVE ALL REFUSE AND UNUSED MATERIALS OF ANY KIND RESULTING FROM THE WORK INCLUDING CLEANING AND SWEEPING OF ADJACENT STREETS. 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 THERE OF CHARGED TO THE CONTRACTOR AND DEDUCTED FROM ITS FINAL PAYMENT IN ACCORDANCE WITH SUDAS SECTION 1070.
13.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL A PROGRESS SCHEDULE THAT WILL ENSURE THE COMPLETION OF THE PROJECT WITHIN THE TIME SPECIFIED. 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 WORK AS SPECIFIED IN THE CONTRACT IN ACCORDANCE WITH SUDAS SECTION 1080.
14.

IF THE PROJECT IS SUBSTANTIALLY COMPLETE AND ONLY CLEANUP AND MINOR WORK ITEMS REMAIN FOR MORE THAN 30 CALENDAR DAYS, THE ENGINEER MAY RESTART CHARGING OF WORKING DAYS OR CHARGE PENALTIES EQUAL TO THE CONTRACT LIQUIDATED DAMAGES UNTIL ALL CORRECTIVE ACTION HAS BEEN COMPLETED IN ACCORDANCE WITH SUDAS SECTION 1080.
15.

CONTRACTOR TO STORE EQUIPMENT WITHIN THE WORK ZONE AND NOT ON THE STREET. EMPLOYEES ARE NOT TO PARK IN AREAS WHERE THEY OCCUPY ON-STREET PARKING FOR RESIDENTS AFFECTED BY CONSTRUCTION.
16.

IN ORDER TO AVOID ANY UNNECESSARY SURFACE BREAKS OR PREMATURE SPALLING, THE CONTRACTOR IS CAUTIONED TO EXERCISE EXTREME CARE WHEN PERFORMING ANY OF THE NECESSARY SAW CUTTING OPERATIONS FOR THE PROPOSED PAVEMENT REMOVAL. ADJACENT PAVEMENT THAT IS CHIPPED OR DAMAGED DUE TO SAW OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S COST IN ACCORDANCE WITH THE PROJECT SPECIFICATION DETAILS FOR STREET EXCAVATION AND PAVEMENT REPLACEMENT. ALL SAW CUTS ADJACENT TO EXISTING PAVEMENT AND CURBS SHALL BE FULL DEPTH.
17.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NOT TO DAMAGE ADJACENT PAVEMENT, SIDEWALKS, DRIVES, MEDIANS, CURBS, STRUCTURES, AND OTHER AREAS NOT DESIGNATED AS PART OF THE PATCHING WORK AREA. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO AREAS NOT DESIGNATED AS PART OF THE PATCHING WORK AT NO COST TO THE OWNER.

UTILITY COORDINATION NOTES:

1.

CONTRACTOR TO POTHOLE EXISTING UTILITIES A MINIMUM OF 3 WEEKS PRIOR TO COMMENCING WORK TO DETERMINE IF ANY CONFLICTS EXIST. THIS IS CONSIDERED INCIDENTAL TO THE PROJECT. IMMEDIATELY REPORT ANY CONFLICTS TO THE ENGINEER.
2.

THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT (800) 292-8989 TO LOCATE EXISTING UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
3.

ANTICIPATED UTILITY CONFLICTS HAVE BEEN IDENTIFIED AND EACH RESPECTIVE UTILITY OWNER HAS BEEN INFORMED OF THE POTENTIAL CONFLICTS. THE CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN THE PROJECT SITE.
4.

IF A CONFLICT IS DISCOVERED BY THE CONTRACTOR, NOTIFY THE ENGINEER IMMEDIATELY AND COORDINATE WITH OWNER OF UTILITY TO RESOLVE CONFLICT.
5.

UTILITY CONTACT NUMBERS:

WINDSOR HEIGHTS PUBLIC SERVICES (SEWERS)
DES MOINES WATER WORKS
MID-AMERICAN ENERGY (ELECTRIC)
MID-AMERICAN ENERGY (GAS)
MID-AMERICAN ENERGY (ELECTRIC) - EMERGENCY
MID-AMERICAN ENERGY (GAS) - EMERGENCY
MEDIACOM
LUMEN

CARLA SCHUMACHER (515-323-6227)
SCOT ENGER (515-252-6742)
SCOT ENGER (515-252-6742)
1-800-799-4443
1-800-595-5325
KEVIN COLLINS (515-554-2648)
ASHLIE CLEMENTS (906-284-2821)

CSCHUMACHER@DMWWW.COM
SEENGER@MIDAMERICAN.COM
SEENGER@MIDAMERICAN.COM

KCCOLLINS1@MEDIACOMCC.COM
ASHLIE.CLEMENTS@LUMEN.COM

PROJECT SCHEDULE

1.

SUBSTANTIAL COMPLETION: XX/XX/XXXX
LIQUIDATED DAMAGES: \$500 / CALENDAR DAY

PROJECT NOTES:

1.

EXISTING SIDEWALKS WITHIN THE PROJECT ARE TO BE PROTECTED AND PEDESTRIAN ACCESS TO ALL ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
2.

CONTRACTOR SHALL STAGE WORK IN A MANNER TO MINIMIZE IMPACT TO RESIDENTS.
3.

WATER MAIN SHALL EXTEND PAST THE PAVING LIMITS AT STAGE LINES TO ENSURE NO NEW PAVEMENT IS REMOVED.
4.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING CONSTRUCTION STAKING IN ACCORDANCE WITH SECTION 11.010 OF THE STANDARD SPECIFICATIONS AND SHALL COMPLY WITH IOWA CODE 355 AND IOWA ADMINISTRATIVE CODE SECTION 193C FOR THE REPLACEMENT OF ALL DISTURBED MONUMENTS WITHIN THE PROJECT AREA.
5.

CONTRACTOR SHALL PROPERLY SECURE PROJECT SITE AT THE END OF EACH DAY.
6.

CONTRACTOR OPERATIONS CREATING OBJECTIONABLE LEVELS OF NOISE SHALL NOT BEGIN PRIOR TO 7:00 AM AND SHALL END PRIOR TO 7:00 PM.
7.

ALL DISTURBED AREAS SHALL BE SEEDED AND/OR MULCHED (DEPENDING ON DATE) UPON COMPLETION OF GRADING.
8.

THE CONTRACTOR SHALL LIMIT THEIR ACCESS TO THE PROJECT SITE TO THE STABILIZED ENTRANCE LOCATIONS SHOWN IN THE SWPPP.
9.

ANY TREES AND LANDSCAPING SHALL BE REMOVED ONLY BY APPROVAL OF THE ENGINEER.

STORM WATER POLLUTION PREVENTION PLAN NOTES:

1.

NPDES PERMIT IS NOT REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING EROSION AND UNACCEPTABLE CONSTRUCTION RUNOFF FROM ENTERING STORM SEWERS. CONTRACTOR SHALL PROVIDE MEASURES AS DIRECTED BY ENGINEER. PREVENTATIVE MEASURES ARE INCIDENTAL TO CONSTRUCTION.
2.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DISTURBED AREAS WITHIN THE PROJECT UNTIL STABILIZED. IF UNDESIRABLE VEGETATION IS ESTABLISHED BEFORE THE AREA IS SEEDED/SODDED OR STABILIZED, IT IS THE CONTRACTORS RESPONSIBILITY TO REMOVE ALL UNWANTED VEGETATION. FAILURE TO PROVIDE MAINTENANCE WITHIN THREE WORKING DAYS AFTER REQUESTED BY THE ENGINEER, THE WORK MAY BE DONE BY THE JURISDICTION AND THE COST THEREOF CHARGED TO THE CONTRACTOR AND DEDUCTED FROM THEIR FINAL PAYMENT.
3.

ALL DISTURBED AREAS SHALL BE SEEDED AND/OR MULCHED (DEPENDING ON DATE) UPON COMPLETION OF GRADING.
4.

THE CONTRACTOR SHALL LIMIT THEIR ACCESS TO THE PROJECT SITE TO THE STABILIZED ENTRANCE LOCATIONS SHOWN IN THE SWPPP.
5.

CONTACTOR SHALL FOLLOW ALL REQUIREMENTS OF IDNR NPDES GENERAL PERMITS #2.
6.

CONTACTOR SHALL MINIMIZE THE AMOUNT OF SOIL EXPOSED DURING CONSTRUCTION ACTIVITY
7.

STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. IN DROUGHT-STRICKEN AREAS AND AREAS THAT HAVE RECENTLY RECEIVED SUCH HIGH AMOUNTS OF RAIN THAT SEEDING WITH FIELD EQUIPMENT IS IMPOSSIBLE AND INITIATING VEGETATIVE STABILIZATION IMMEDIATELY IS INFEASIBLE, ALTERNATIVE STABILIZATION MEASURES MUST BE EMPLOYED AS SPECIFIED BY THE DEPARTMENT. IN LIMITED CIRCUMSTANCES, STABILIZATION MAY NOT BE REQUIRED IF THE INTENDED FUNCTION OF A SPECIFIC AREA OF THE SITE NECESSITATES THAT IT REMAIN DISTURBED.
8.

MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE;
9.

MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE TO PRECIPITATION AND STORM WATER. MINIMIZATION OF EXPOSURE IS NOT REQUIRED IN CASES WHERE THE EXPOSURE TO PRECIPITATION AND TO STORM WATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSES LITTLE RISK OF STORM WATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE)
10.

MINIMIZE THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES.
11.

CONCRETE WASHOUTS SHALL BE PROVIDED ON SITE.
12.

QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN STABILIZED WITH A PERENNIAL, VEGETATIVE COVER OF SUFFICIENT DENSITY TO PRECLUDE EROSION AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. UNLESS EROSION IS EVIDENT OR OTHER CONDITIONS WARRANT THEM, REGULAR INSPECTIONS ARE NOT REQUIRED ON AREAS THAT HAVE BEEN STABILIZED WITH A PERENNIAL, VEGETATIVE COVER OF SUFFICIENT DENSITY TO PRECLUDE EROSION.
13.

DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM.
14.

EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.
15.

BASED ON THE RESULTS OF THE INSPECTION, POLLUTION PREVENTION MEASURES IDENTIFIED IN THE PLANS SHALL BE REVISED AT THE CONSTRUCTION SITE AS APPROPRIATE AS SOON AS PRACTICABLE AFTER THE INSPECTION AND TO THE PLAN AS SOON AS PRACTICABLE AFTER THE INSPECTION BUT IN NO CASE MORE THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. IF THE PERMITTEE DETERMINES THAT MAKING THESE CHANGES AT THE CONSTRUCTION SITE OR TO THE PLAN LESS THAN 72 HOURS AFTER THE INSPECTION IS IMPRACTICABLE, THE PERMITTEE SHALL DOCUMENT IN THE PLAN WHY IT IS IMPRACTICABLE AND INDICATE AN ESTIMATED DATE BY WHICH THE CHANGES WILL BE MADE.
16.

A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS AFTER FINAL STABILIZATION HAS BEEN ACHIEVED AND A NOTICE OF DISCONTINUATION HAS BEEN SUBMITTED TO THE DEPARTMENT.

TRAFFIC CONTROL NOTES:

1.

TRAFFIC CONTROL LAYOUTS SHOWN ON THESE PLANS ARE GENERAL TRAFFIC CONTROL LAYOUTS FOR INFORMATION ONLY.
2.

THE CONTRACTOR SHALL DEVELOP A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH SECTION 1070, 2.06 'TRAFFIC CONTROL' OF THE STANDARD SPECIFICATIONS. ANY TRAFFIC CONTROL DEVICES OR SAFETY EQUIPMENT NEEDED TO CONSTRUCT THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION PHASING AND TRAFFIC CONTROL PLAN WITH PLANNED DETOURS, IF APPLICABLE, TO THE ENGINEER FOR APPROVAL BEFORE THE START OF ANY CONSTRUCTION ACTIVITIES.
3.

IF NECESSARY, STREETS WILL BE CLOSED IN ACCORDANCE WITH SECTION 1070, 2.06 'TRAFFIC CONTROL' OF THE STANDARD SPECIFICATIONS. ALL TRAFFIC CONTROL PLANS MUST BE REVIEWED AND APPROVED BY ENGINEER.
4.

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
5.

PORTABLE MOUNTINGS FOR WARNING SIGNS MAY BE USED FOR TEMPORARY INSTALLATIONS OF 3 DAYS OR LESS ALL OTHER TRAFFIC CONTROL SHALL BE POST MOUNTED.
6.

THE PROPOSED SIGNAGE MAY BE MODIFIED TO MEET FIELD CONDITIONS, PREVENT OBSTRUCTIONS AND TO ACCOMMODATE CONSTRUCTION SCHEDULING UPON APPROVAL OF THE PROJECT ENGINEER
7.

ORANGE SAFETY FENCE SHALL BE PLACED ENTIRELY ACROSS THE TRAVELED PORTION OF THE ROADWAY AT ALL LOCATIONS WHERE TYPE III BARRICADES WITH "ROAD CLOSED" SIGNS ARE USED.
8.

SIGNAGE MAINTENANCE SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND REQUIRED AS DIRECTED BY THE ENGINEER.
9.

ALL CONSTRUCTION SIGNS SHALL BE DIAMOND GRADE FLUORESCENT ORANGE OR WHITE V.I.P. SHEETING OR EQUIVALENT. (IOWA DOT TYPE VII SHEETING).
10.

AT THE TIME OF INITIAL SETUP OR AT THE TIME OF MAJOR STAGE CHANGES, 100 PERCENT OF EACH TYPE OF DEVICE (SIGNS, CONES, TUBULAR MARKERS, DRUMS, BARRICADES, VERTICAL PANELS, CHANGEABLE MESSAGE SIGNS, AND PAVEMENT MARKINGS) SHALL BE CLASSIFIED AS ACCEPTABLE BY THE REQUIREMENT OF THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA), "QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES 1992." THROUGHOUT THE DURATION OF THE PROJECT, UNACCEPTABLE DEVICES OR SITUATIONS THAT ARE FOUND ON THE JOBSITE AS DETERMINED BY BEFORE MENTIONED PUBLICATION SHALL BE REPLACED OR THE SITUATION CORRECTED WITHIN 12 HOURS OF INITIAL NOTIFICATIONS BY THE ENGINEER.
11.

THE LOCATION FOR STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NONWORKING HOURS SHALL BE AS APPROVED BY THE ENGINEER, AND THE CONTRACTOR SHALL PROVIDE A WRITTEN AGREEMENT WITH THE PROPERTY OWNER.
12.

AT EACH SIDEWALK CLOSURE LOCATION PLACE TYPE II BARRICADES WITH "SIDEWALK CLOSED" SIGNS AT EACH CLOSURE END AND PLACE "SIDEWALK CLOSED AHEAD" SIGNS ALONG THE SIDEWALK AT NEAREST STREET INTERSECTIONS ON EACH SIDE OF THE CLOSURE LOCATION IN ACCORDANCE WITH THE MUTCD.



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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

GENERAL NOTES

SHEET

C.01

PAVING NOTES:

- 1. PAVING SHALL BE COMPLETED IN ACCORDANCE WITH DIVISION 7 OF THE SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL SUBMIT INFORMATION TO THE ENGINEER FOR APPROVAL IN ACCORDANCE WITH SECTIONS 1050, 1.05 AND 7010, 1.03 OF THE STANDARD SPECIFICATIONS:
 - a. PCC PAVING MIX DESIGN
 - b. MATURITY CURVES FOR PAVING MIXES AND MATURITY READING RESULTS
- 3. PAVEMENT DESIGN SHALL INCLUDE A MINIMUM STRENGTH OF 4,000 PSI.
- 4. QUALITY CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 7010, 3.08 'QUALITY CONTROL' OF THE STANDARD SPECIFICATIONS.
- 5. IN ACCORDANCE WITH SECTION 7010, 3.02, K OF THE STANDARD SPECIFICATIONS, THE CONTRACTOR SHALL CLEAN AND SEAL ALL JOINTS BEFORE ANY PORTION OF THE NEWLY CONSTRUCTED PAVEMENT IS OPENED TO THE CONTRACTOR'S EQUIPMENT.
- 6. THE CONTRACTOR SHALL OPEN NEWLY CONSTRUCTED PAVEMENT TO TRAFFIC IN ACCORDANCE WITH SECTION 7010, 3.06 OF THE STANDARD SPECIFICATIONS. ALL NEWLY CONSTRUCTED PAVEMENT SHALL BE SCRAPPED AND SWEEPED CLEAN PRIOR TO OPENING TO TRAFFIC.
- 7. THE CONTRACTOR SHALL PROTECT PAVEMENT IN ACCORDANCE WITH SECTION 7010, 3.05 OF THE STANDARD SPECIFICATIONS AND SHALL NOT USE NEWLY CONSTRUCTED PAVEMENT AS AN AREA OF STOCKPILING MATERIALS.
- 8. DROP CURBS SHALL BE CONSTRUCTED AT INTERSECTIONS FOR PEDESTRIAN RAMPS AND SHALL BE CONSIDERED INCIDENTAL TO PAVING.
- 9. PEDESTRIAN RAMPS SHALL INCLUDE "DETECTABLE WARNING" PLATE.
- 10. ALL UTILITY FIXTURES (WATER VALVE BOXES, MANHOLES, AND STORM SEWER INTAKES) SHALL BE SET TO THEIR CORRESPONDING PAVEMENT ELEVATIONS.

GRADING NOTES

- 1. ALL GRADING OPERATIONS SHALL BE COMPLETED IN ACCORDANCE WITH DIVISION 2 OF THE SPECIFICATIONS.
- 2. THE PROPOSED CONTOURS ARE SHOWN ARE TO FINISH GROUND/TOP OF PAVEMENT.
- 3. THE CONTRACTOR SHALL SHAPE GRADE AREAS TO MAINTAIN SURFACE DRAINAGE AT ALL TIMES.
- 4. THE CONTRACTOR SHALL BACKFILL CURBS AS SOON AS POSSIBLE UPON COMPLETION OF CURB INSTALLATION.
- 5. DEWATERING (IF NECESSARY) IS CONTRACTOR'S RESPONSIBILITY AND SHALL BE CONSIDERED INCIDENTAL.
- 6. CONTRACTOR SHALL MINIMIZE COMPACTION OF TOPSOIL TO THE EXTENT PRACTICABLE.

SANITARY SEWER NOTES

- 1. SANITARY SEWER INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH DIVISIONS 3, 4, AND 6 OF THE SPECIFICATIONS
- 2. PRIOR TO INSTALLING PIPE, THE CONTRACTOR SHALL PLUG THE DOWNSTREAM CONNECTION POINTS AND LEAVE PLUGGED UNTIL NEW SEWER PIPE AND MANHOLE CASTINGS ARE IN PLACE. ALL WATER SHALL BE PUMPED OUT AND THE SEWER SHALL BE CLEAN BEFORE REMOVING PLUG.
- 3. SANITARY SEWER BEDDING SHALL BE CLASS F-3 BEDDING UNLESS OTHERWISE SPECIFIED.
- 4. SANITARY SEWER SERVICE STUBS SHALL BE STUBBED TO 10 FEET BEYOND THE ROW OF WAY.
- 5. MANHOLE CASTINGS IN SHALL BE [2 PIECE FIXED CASTINGS/ 3 PIECE FLOATING CASTING]. ALL MANHOLE CASTINGS SHALL BE BOLTED TO THE STRUCTURE AT ALL ATTACHMENT HOLE LOCATIONS IN THE CASTING. ALL CASTINGS SHALL COMPLY WITH FIGURES SW-601. CONCRETE BOX OUTS FOR MANHOLES IN PCC PAVING SHALL COMPLY WITH FIGURE PV-103. CONCRETE BOX OUTS FOR MANHOLES IN HMA PAVING SHALL COMPLY WITH FIGURE PV-201. ALL MANHOLES IN PAVING SHALL BE GASKETED.
- 6. UPON COMPLETION OF THE SANITARY SEWER MAIN INSTALLATION, THE CONTRACTOR SHALL FURNISH THE CITY A FLASH DRIVE OF THE TELEVISED PIPE INSPECTION, TO BE USED AS A BASIS OF ACCEPTANCE OF THE WORK. TELEVISED PIPE INSPECTION SHALL BE COMPLETED WITHIN 30 DAYS OF THE PIPE INSTALLATION AND PRIOR TO THE PLACEMENT OF ANY PAVING.

STORM SEWER NOTES

- 1. STORM SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH DIVISIONS 3, 4, AND 6 OF THE SPECIFICATIONS.
- 2. STORM SEWER BEDDING SHALL BE CLASS R-2.
- 3. MANHOLE CASTINGS IN PAVEMENT SHALL BE 3 PIECE FLOATING CASTING.ALL CASTINGS SHALL COMPLY WITH FIGURES SW-602. CONCRETE BOX OUTS FOR MANHOLES IN PCC PAVING SHALL COMPLY WITH FIGURE PV-103. CONCRETE BOX OUTS FOR MANHOLES IN HMA PAVING SHALL COMPLY WITH FIGURE PV-201. ALL MANHOLES IN PAVING SHALL BE GASKETED.
- 4. STANDARD 48-INCH MANHOLES SHALL BE TYPE SW-301 (SANITARY SEWER), 60 INCH OR LARGER SHALL BE TYPE SW-401 (STORM SEWER).
- 5. INTAKE CASTINGS SHALL BE SW-603 TYPE R OR Q.
- 6. FOOTINGS SHALL BE INSTALLED UNDER ALL FLARED END SECTIONS IN ACCORDANCE WITH SECTION 4030 OF THE SPECIFICATIONS AND WILL BE CONSIDERED INCIDENTAL TO FLARED END SECTIONS.
- 7. UPON COMPLETION OF THE STORM SEWER INSTALLATION, THE CONTRACTOR SHALL FURNISH THE CITY A FLASH DRIVE OF THE TELEVISED PIPE INSPECTION, TO BE USED AS A BASIS OF ACCEPTANCE OF THE WORK. TELEVISED PIPE INSPECTION SHALL BE COMPLETED WITHIN 30 DAYS OF PIPE INSTALLATION AND PRIOR TO THE PLACEMENT OF ANY PAVING.
- 8. RCP PLUGS SHALL BE CONSIDERED INCIDENTAL TO STORM SEWER CONSTRUCTION.
- 9. THE CONTRACTOR SHALL REPAIR ANY FIELD TILE ENCOUNTERED DURING CONSTRUCTION OF THIS PROJECT (WHETHER SHOWN ON THE PLAN OR NOT) BY SPLICING OR CONNECTING THE TILE TO THE NEW STORM SEWER SYSTEM.

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CLIENT PROJ. NO.	0A1.133739			

CITY OF WINDSOR HEIGHTS, IOWA

68TH STREET SOUTH RECONSTRUCTION

GENERAL NOTES

SHEET

C.02

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ESTIMATED PROJECT QUANTITIES - BASE BID									
ITEM NO.	ITEM CODE	ITEM	UNIT	CITY	AS-BUILT QTY.	DMWW	AS-BUILT QTY.	TOTAL EST. QUANTITY	AS-BUILT QTY.
1	2010-C	CLEARING AND GRUBBING	LS	1		0		1	
2	2010-D-1	TOPSOIL, ON-SITE	CY	620		0		620	
3	2010-E	EXCAVATION, CLASS 10	CY	700		0		700	
4	2010-F	BELOW GRADE EXCAVATION (CORE OUT)	CY	0		0		0	
5	2010-G	SUBGRADE PREPARATION	SY	7900		0		7900	
6	2010-I	SUBGRADE TREATMENT, POLYMER GRID	SY	0		0		0	
7	2010-J	SUBBASE, MODIFIED, 8 INCHES	SY	7900		0		7900	
8	3010-D	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	CY	0		0		0	
9	4020-A-1	STORM SEWER, TRENCHED, PP, 8 INCH	LF	12		0		12	
10	4020-A-1	STORM SEWER, TRENCHED, 12 INCH	LF	123		0		123	
11	4020-A-1	STORM SEWER, TRENCHED, 15 INCH	LF	1458		0		1458	
12	4020-A-1	STORM SEWER, TRENCHED, 18 INCH	LF	16		0		16	
13	4020-A-1	STORM SEWER, TRENCHED, 36 INCH	LF	60		0		60	
14	4020-A-1	STORM SEWER, TRENCHED, RCP, 37" X 23" ARCH	LF	50		0		50	
15	4020-D	REMOVAL OF STORM SEWER, LESS THAN 36 INCH	LF	348		0		348	
16	4040-A	SUBDRAIN, PERFORATED HDPE, 6 INCH	LF	3330		0		3330	
17	4040-C-1	SUBDRAIN CLEANOUT, TYPE A-1, 6 INCH	EA	16		0		16	
18	4040-D-1	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6 INCH	EA	14		0		14	
19	4050-H-1	SPOT REPAIRS BY PIPE REPLACEMENT, PVC, 4 INCH	EA	2		0		2	
20	SPEC. PROV.	WATER MAIN, TRENCHED, PVC C900 (DR 18), 6 INCH WITH TRACER WIRE	LF	0		10		10	
21	SPEC. PROV.	WATER MAIN, TRENCHED, PVC C900 (DR 18), 8 INCH WITH TRACER WIRE	LF	0		1840		1840	
22	SPEC. PROV.	FITTING BY WEIGHT, DUCTILE IRON	LB	0		6420		6420	
23	SPEC. PROV.	WATER SERVICE TRANSFER, COPPER, 1 INCH , SAME SIDE	EA	0		23		23	
24	SPEC. PROV.	WATER SERVICE TRANSFER, COPPER, 1 INCH , OPPOSITE SIDE	EA	0		26		26	
25	SPEC. PROV.	WATER MAIN REMOVAL	LF	0		260		260	
26	SPEC. PROV.	VALVE, GATE, 6 INCH	EA	0		1		1	
27	SPEC. PROV.	VALVE, GATE, 8 INCH	EA	0		4		4	
28	SPEC. PROV.	FIRE HYDRANT ASSEMBLY	EA	0		5		5	
29	SPEC. PROV.	FLUSHING DEVICE (BLOW OFF), 2 INCH	EA	0		2		2	
30	SPEC. PROV.	FIRE HYDRANT ASSEMBLY REMOVAL	EA	0		5		5	
31	SPEC. PROV.	VALVE BOX REMOVAL	EA	0		3		3	
32	SPEC. PROV.	TAP FEE, 1", REPLACE TAP FOR WATER SERVICE	EA	0		49		49	
33	SPEC. PROV.	PREPARE EXCAVATION FOR TAPPING SLEEVE AND VALVE	EA	0		2		2	
34	6010-A	STORM MANHOLE, SW-401, 72 INCH	EA	2		0		2	
35	6010-B	INTAKE, SW-501	EA	2		0		2	
36	6010-B	INTAKE, SW-503	EA	1		0		1	
37	6010-B	INTAKE, SW-505	EA	10		0		10	
38	6010-B	INTAKE, SW-506	EA	1		0		1	
39	6010-B	INTAKE, SW-507	EA	2		0		2	
40	6010-B	CATCH BASIN, 18 INCH	EA	2		0		2	
41	6010-B	INTAKE, SW-516	EA	1		0		1	
42	6010-E	SANITARY MANHOLE ADJUSTMENT, MINOR	EA	6		0		6	
43	6010-E	STORM MANHOLE ADJUSTMENT, MINOR	EA	1		0		1	
44	6010-F	SANITARY MANHOLE ADJUSTMENT, MAJOR	EA	2		0		2	
45	6010-G	CONNECTION TO EXISTING MANHOLE	EA	1		0		1	
46	6010-H	REMOVE INTAKE	EA	9		0		9	
47	7010-A	PAVEMENT, PCC, 7 INCH	SY	6200		0		6200	
48	7010-999-A	JOINT PREVENTATIVE SEALANT	LF	0		0		0	
49	7010-N	COLD WEATHER PROTECTION	SY	1800		0		1800	
50	7030-A-1	REMOVAL OF SIDEWALK	SY	100		0		100	
51	7030-A-3	REMOVAL OF DRIVEWAY	SY	1190		0		1190	
52	7030-E	SIDEWALK, PCC, 4 INCH	SY	820		0		820	
53	7030-E	SIDEWALK, PCC, 4 INCH, REINFORCED	SY	10		0		10	
54	7030-E	SIDEWALK, PCC, 6 INCH	SY	130		0		130	
55	7030-G	DETECTABLE WARNING	SF	96		0		96	
56	7030-H-1	DRIVEWAY, PAVED, PCC, 6 INCH	SY	970		0		970	
57	7040-H	PAVEMENT REMOVAL	SY	5630		0		5630	
58	8020-B	PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE	STA	2		0		2	
59	8030-A	TEMPORARY TRAFFIC CONTROL	LS	1		0		1	

60	8040-A	TRAFFIC SIGNS, TYPE A	EA	13		0		13	
61	8040-D	PERFORATED SQUARE STEEL TUBE POSTS	EA	13		0		13	
62	8040-J	REMOVE AND SALVAGE TRAFFIC SIGN ASSEMBLY	EA	0		0		0	
63	9010-D	WATERING	MGAL	91		0		91	
64	9020-A	SOD	SQ	342		0		342	
65	9030-B	PLANTS WITH WARRANTY, ORNAMENTAL TREE	EA	2		0		2	
66	9030-B	PLANTS WITH WARRANTY, DECIDUOUS TREE	EA	2		0		2	
67	9040-A-1	SWPPP PREPARATION	LS	1		0		1	
68	9040-A-2	SWPPP MANAGEMENT	LS	1		0		1	
69	9040-D-1	FILTER SOCK, 9 INCH	LF	6000		0		6000	
70	9040-O-1	STABILIZED CONSTRUCTION ENTRANCE	SY	300		0		300	
71	9040-Q-2	EROSION CONTROL MULCHING, HYDRO MULCHING	AC	1		0		1	
72	9040-T-1	INLET PROTECTION DEVICE, MAINTENCE, AND REMOVAL	EA	31		0		31	
73	9070-A	MODULAR BLOCK RETAINING WALL	SF	160		0		160	
74	11020-A	MOBILIZATION	LS	1		0		1	
75	11030-A	MAINTENANCE OF POSTAL SERVICE	LS	1		0		1	
76	11030-B	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1		0		1	
77	11040-A	TEMPORARY PEDESTRIAN RESIDENTIAL ACCESS	LS	1		0		1	
78	11050-A	CONCRETE WASHOUT	LS	1		0		1	

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ESTIMATE REFERENCE INFORMATION		
ITEM NO.	ITEM CODE	DESCRIPTION
1	2010-C	<u>CLEARING AND GRUBBING</u> THIS ITEM SHALL INCLUDE ALL NECESSARY TRIMMING AND CLEARING AND GRUBBING TO COMPLETE CONSTRUCTION. PROTECT ALL TREES NOT MARKED FOR REMOVAL. CONTRACTOR TO DETERMINE ANY AND ALL TRIMMING NEEDS REQUIRED FOR CONSTRUCTION OPERATIONS, INCLUDING ANY ROOTS ENCOUNTERED.
2	2010-D-1	<u>TOPSOIL, ON-SITE</u> TOPSOIL WITHIN THE GRADING LIMITS OF THE PROJECT SHALL BE STRIPPED, SALVAGED, AND RESPREAD AS PER PLAN TO FACILITATE ALL PROPOSED SECTIONS. ALL BORROW SHALL BE PROVIDED BY THE CONTRACTOR. EXCESS OR UNSUITABLE EXCAVATED MATERIAL WILL BECOME PROPERTY OF THE CONTRACTOR AND WILL BE HAULED OFF-SITE INCIDENTAL TO THE ITEM. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR OVERHAUL OF WASTE. RAW CUT = X CY, RAW FILL = X CY, ADJUSTED FILL (1.30 FACTOR) = X CY RAW EARTHWORK QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY ARE A COMPARISON OF EXISTING CONDITIONS AND PROPOSED CONDITIONS AND MAY INCLUDE MATERIALS AND OPERATIONS PAID FOR UNDER OTHER BID ITEMS E.G. PAVEMENT REMOVAL, STORM SEWER TRENCHED, PCC PAVEMENT, SUBBASE, TOPSOIL, COMPOST AMENDMENT, ETC. MEASUREMENT WILL NOT BE MADE AND QUANTITY PAID WILL BE ON A PERCENT OF ITEM COMPLETE.
3	2010-E	<u>EXCAVATION, CLASS 10</u> THIS ITEM SHALL INCLUDE THE REMOVAL OF EXISTING SOIL, HAULING, DISPOSAL/EXPORT AND RE-GRADING AS PER PLAN TO FACILITATE ALL PROPOSED SECTIONS. ALL BORROW SHALL BE PROVIDED BY THE CONTRACTOR. EXCESS OR UNSUITABLE EXCAVATED MATERIAL WILL BECOME PROPERTY OF THE CONTRACTOR AND WILL BE HAULED OFF-SITE INCIDENTAL TO THE ITEM. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR OVERHAUL OF WASTE. RAW CUT = X CY, RAW FILL = X CY, ADJUSTED FILL (1.30 FACTOR) = X CY RAW EARTHWORK QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY ARE A COMPARISON OF EXISTING CONDITIONS AND PROPOSED CONDITIONS AND MAY INCLUDE MATERIALS AND OPERATIONS PAID FOR UNDER OTHER BID ITEMS E.G. PAVEMENT REMOVAL, STORM SEWER TRENCHED, PCC PAVEMENT, SUBBASE, TOPSOIL, COMPOST AMENDMENT, ETC. MEASUREMENT WILL NOT BE MADE AND QUANTITY PAID WILL BE ON A PERCENT OF ITEM COMPLETE.
4	2010-F	<u>BELOW GRADE EXCAVATION (CORE OUT)</u> BID ITEM IS TO ESTABLISH A UNIT PRICE IF UNSUITABLE OR UNSTABLE MATERIAL IS ENCOUNTERED. PAYMENT INCLUDES, BUT IS NOT LIMITED TO, EQUIPMENT, TOOLS, LABOR, DISPOSAL OF UNSUITABLE MATERIALS, DEWATERING, DRYING, FURNISHING, AND PLACEMENT OF RECYCLED CONCRETE OR MODIFIED OR APPROVED EQUAL AS REQUIRED BY THE ENGINEER, COMPACTION AND FINISHING OF THE EXCAVATED AREA, AND ALL INCIDENTAL WORK AS MAY BE REQUIRED. TO BE USED AS DETERMINED BY ENGINEER.
5	2010-G	<u>SUBGRADE PREPARATION</u> TO BE USED AS APPROVED BY ENGINEER. CONTRACTOR SHALL COMPACT SUBGRADE AND PROOF ROLL. IF SUBGRADE PASSES PROOF ROLL, NO SUBGRADE PREPARATION WILL BE REQUIRED. IF REQUIRED, SUBGRADE PREPARATION MUST BE COMPLETED IN 2 - 6" LIFTS. UNDER PROPOSED PAVEMENT, PLUS 4 FEET ON EACH SIDE. MOISTURE AND DENSITY TESTING WILL BE PROVIDED BY THE OWNER. CHECKING OF SUBGRADE WILL BE PERFORMED WITH ROUGH GRADING STAKES SET 25' APART.
6	2010-I	<u>SUBGRADE TREATMENT, POLYMER GRID</u> THIS ITEM WILL BE USED ONLY WHEN THE ENGINEER DETERMINES IT IS REQUIRED TO PROVIDE SUITABLE SUBGRADE. LOCATION(S) OF TREATMENT, IF ANY, WILL BE SPECIFIED BY THE ENGINEER. MATERIAL TO HAVE NO CHUNKS LARGER THAN 2 INCHES. HAULING OFF ANY EXCESS MATERIAL GENERATED DURING THE PROCESS SHALL BE CONSIDERED INCIDENTAL. QUANTITY IS ESTIMATED TO ESTABLISH A UNIT PRICE, ONLY QUANTITY APPROVED BY ENGINEER WILL BE PAID.
7	2010-J	<u>SUBBASE, MODIFIED, 8 INCHES</u> THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, COMPACTION OF SUBGRADE, FURNISHING, PLACING, COMPACTING, AND TRIMMING TO THE PROPER GRADE.
8	3010-D	<u>REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL</u> UNSUITABLE BACKFILL MATERIAL SHALL BE REPLACED WITH GRANULAR BACKFILL OR OTHER APPROVED MATERIAL AS APPROVED BY THE ENGINEER. GRANULAR BACKFILL IS INCIDENTAL TO THIS ITEM. THIS ITEM WILL BE PAID BY THE CUBIC YARD - LOOSE VOLUME. NO RECYCLED CONCRETE OR RIP RAP ALLOWED. QUANTITY IS ESTIMATED TO ESTABLISH A UNIT PRICE, ONLY QUANTITY APPROVED BY ENGINEER WILL BE PAID.
9	4020-A-1	<u>STORM SEWER, TRENCHED, PP, 8 INCH</u>
10	4020-A-1	<u>STORM SEWER, TRENCHED, 12 INCH</u> STORM PIPE SHALL BE REINFORCED CONCRETE PIPE OR POLYPROPYLENE. INCLUDES FLEXIBLE GASKET JOINTS AT WATERMAIN CROSSINGS. VIDEO INSPECTION TO OCCUR PRIOR TO PAVING PER SUDAS 4060. POLYPROPYLENE STORM SEWER PIPE SHALL MEET SUDAS STANDARD SPECIFICATIONS, SECTION 4020, 2.01 - L AND SHALL BE INSALLED IN ACCORDANCE WITH SUDAS FOLLOWING FIGURE 3010.103 (SW-103).
11	4020-A-1	<u>STORM SEWER, TRENCHED, 15 INCH</u> SEE BID ITEM #10
12	4020-A-1	<u>STORM SEWER, TRENCHED, 18 INCH</u> SEE BID ITEM #10
13	4020-A-1	<u>STORM SEWER, TRENCHED, 36 INCH</u> SEE BID ITEM #10
14	4020-A-1	<u>STORM SEWER, TRENCHED, RCP, 37" X 23" ARCH</u>

15	4020-D	<u>REMOVAL OF STORM SEWER, LESS THAN 36 INCH</u> UNIT PRICE INCLUDEDES, REMOVAL, DISPOSAL, AND FURNISHING, PLACING, AND COMPACTING BACKFILL MATERIAL.
16	4040-A	<u>SUBDRAIN, PERFORATED HDPE, 6 INCH</u> THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, TRENCH EXCAVATION, FURNISHING AND PLACEMENT OF BEDDING AND BACKFILL MATERIAL, ENGINEERING FABRIC, CONNECTORS, AND ELBOWS AND TEES. THE LENGTH OF ELBOWS AND TEES OF THE PIPES INSTALLED WILL BE INCLUDED IN THE LENGTH OF PIPE MEASURED. POTHOLE FOR ALL EXISTING UTILITIES PRIOR TO SUBDRAIN INSTALLATION TO DETERMINE WHERE SUBDRAIN CAN BE PLACED. POTHOLING SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.
17	4040-C-1	<u>SUBDRAIN CLEANOUT, TYPE A-1, 6 INCH</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, TRENCH EXCAVATION; FURNISHING CLEANOUT AND LID; AND FURNISHING, PLACING, AND COMPACTING BEDDING AND BACKFILL MATERIAL.
18	4040-D-1	<u>SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6 INCH</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, PIPE, NON-SHRINK GROUT, COUPLING BANDS, AND RODENT GUARDS FOR PIPES 6 INCHES OR SMALLER.
19	4050-H-1	<u>SPOT REPAIRS BY PIPE REPLACEMENT, PVC, 4 INCH</u> THIS ITEM INCLUDES, BUT NOT LIMITED TO, REMOVAL OF EXISTING SANITARY SERVICE PIPE, TRENCH EXCAVATION, FURNISHING NEW PIPE, BENDS, FITTINGS AND BEDDING MATERIAL, INSTALLATION OF NEW WYE AT THE MAIN IF NEEDED, PLACING AND COMPACTING BACKFILL MATERIAL, CONNECTION TO EXISTING SERVICE AND MAIN, COMPACTION, TESTING AND INSPECTION. REPAIR LENGTH IS FROM SANITARY SEWER MAIN TO THE RIGHT-OF-WAY. RESIDENTS TO BE INFORMED A MINIMUM OF 48 HOURS PRIOR TO WORK ON THAT SERVICE. VISUAL INSPECTION BY ENGINEER IS REQUIRED. QUANTITY IS ESTIMATED TO ESTABLISH UNIT PRICE, ONLY QUANTITY APPROVED BY ENGINEER WILL BE PAID.
20	SPEC. PROV.	<u>WATER MAIN, TRENCHED, PVC C900 (DR 18), 6 INCH WITH TRACER WIRE</u> PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO INSTALL C900 PVC PIPE OF SPECIFIED SIZE, TYPE, AND RESTRAINT IN AN OPEN TRENCH. CONTRACTOR'S EXCAVATION WILL BE IN ACCORDANCE WITH DES MOINES WATER WORKS (DMWW) RULES AND REGULATIONS LOCATED AT WWW.DMWW.COM AND OSHA REQUIREMENTS. WORK INCLUDES, BUT IS NOT LIMITED TO, TRENCH EXCAVATION AND SHORING, UTILITY LOCATION AND PROTECTION, DEWATERING, FURNISHING AND INSTALLING PIPE, PLACING AND COMPACTING BEDDING AND BACKFILL MATERIAL, FURNISHING AND INSTALLING TRACER SYSTEM, PRESSURE TESTING, AND DISINFECTION ALL IN ACCORDANCE WITH CHAPTER TWO DETAILED SPECIFICATIONS. THE ENGINEER WILL MEASURE THE LENGTH OF PIPE INSTALLED. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE TO THE NEAREST 0.1 FOOT OF PVC PIPE INSTALLED AS MEASURED. DES MOINES WATER WORKS SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY SHUTDOWN. DES MOINES WATER WORKS SHALL OPERATE ALL EXISTING VALVES. THE CONTRACTOR SHALL NOT OPERATE EXISTING VALVES. A MINIMUM OF 24 HOURS NOTICE SHALL BE GIVEN TO THE AFFECTED PROPERTIES INCLUDING DOOR TO DOOR COMMUNICATIONS AND DOOR KNOCKERS LEFT BEHIND. A MAXIMUM OF 2 HOURS OF SHUTDOWN FOR ANY SINGLE BUILDING WILL BE ALLOWED WHEN SWITCHING A SERVICE TO THE NEW WATER MAIN.
21	SPEC. PROV.	<u>WATER MAIN, TRENCHED, PVC C900 (DR 18), 8 INCH WITH TRACER WIRE</u> SEE BID ITEM #20
22	SPEC. PROV.	<u>FITTING BY WEIGHT, DUCTILE IRON</u> PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO INSTALL DI FITTINGS OF SPECIFIED SIZE AND TYPE INCLUDING EXCAVATION, PIPE BEDDING, POLYETHYLENE ENCASEMENT, THRUST RESTRAINT, TRACER WIRE SYSTEM, BACKFILL, COMPACTION, PRESSURE TESTING, AND DISINFECTION, ALL IN ACCORDANCE WITH CHAPTER TWO DETAILED SPECIFICATIONS. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE PER POUND FOR EACH FITTING INSTALLED. DETERMINATION OF THE TOTAL WEIGHT OF FITTINGS, IN POUNDS, SHALL BE BASED ON THE STANDARD FITTING WEIGHTS PUBLISHED IN AWWA C153 FOR DUCTILE IRON COMPACT FITTINGS.
23	SPEC. PROV.	<u>WATER SERVICE TRANSFER, COPPER, 1 INCH , SAME SIDE</u> PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO PREPARE EXCAVATION FOR THE TAP AND TO INSTALL NEW 1-INCH WATER SERVICE USING OPEN CUT METHOD FROM THE NEW WATER MAIN CONNECTING TO THE EXISTING WATER SERVICE ON THE BUILDING SIDE OF THE NEW STOP BOX IN ACCORDANCE WITH DMWW RULES AND REGULATIONS LOCATED AT WWW.DMWW.COM. A.Y MCDONALD CURB STOP RECEPTACLE #5639 SHALL BE USE FOR CURB STIOS WITHIN SIDEWALK OR DRIVEWAYS. WORK INCLUDES, BUT IS NOT LIMITED TO, CORPORATION ELBOW, COPPER PIPE, NEW CURB STOP AND STOP BOX, AND COUPLINGS NEEDED TO CONNECT TO EXISTING SERVICE. WORK ALSO INCLUDES EXCAVATION WITH SHORING IN ACCORDANCE WITH DMWW RULES AND REGULATIONS AND OSHA REQUIREMENTS, BACKFILL, COMPACTION AND SURFACE RESTORATION. CONTRACTOR IS REQUIRED TO COMPACT BACKFILL IN TAP HOLE AND TRENCH USING APPROPRIATELY SIZED EQUIPMENT TO OBTAIN REQUIRED COMPACTION, INCLUDING HANDHELD COMPACTION DEVICES. COST FOR REPLACEMENT OF UNSUITABLE BACKFILL WILL BE PAID BY THE CONTRACTOR. A MAXIMUM OF 2 HOURS OF SHUTDOWN FOR ANY SINGLE BUILDING WILL BE ALLOWED WHEN SWITCHING A SERVICE TO THE NEW WATER MAIN.

24	SPEC. PROV.	<u>WATER SERVICE TRANSFER, COPPER, 1 INCH , OPPOSITE SIDE</u> PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO PREPARE EXCAVATION FOR THE TAP AND TO INSTALL NEW 1-INCH WATER SERVICE USING OPEN CUT METHOD FROM THE NEW WATER MAIN CONNECTING TO THE EXISTING WATER SERVICE ON THE BUILDING SIDE OF THE NEW STOP BOX IN ACCORDANCE WITH DMWW RULES AND REGULATIONS LOCATED AT WWW.DMWW.COM. A.Y MCDONALD CURB STOP RECEPTACLE #5639 SHALL BE USE FOR CURB STIOS WITHIN SIDEWALK OR DRIVEWAYS. WORK INCLUDES, BUT IS NOT LIMITED TO, CORPORATION ELBOW, COPPER PIPE, NEW CURB STOP AND STOP BOX, AND COUPLINGS NEEDED TO CONNECT TO EXISTING SERVICE. WORK ALSO INCLUDES EXCAVATION WITH SHORING IN ACCORDANCE WITH DMWW RULES AND REGULATIONS AND OSHA REQUIREMENTS, BACKFILL, COMPACTION AND SURFACE RESTORATION. CONTRACTOR IS REQUIRED TO COMPACT BACKFILL IN TAP HOLE AND TRENCH USING APPROPRIATELY SIZED EQUIPMENT TO OBTAIN REQUIRED COMPACTION, INCLUDING HANDHELD COMPACTION DEVICES. COST FOR REPLACEMENT OF UNSUITABLE BACKFILL WILL BE PAID BY THE CONTRACTOR. A MAXIMUM OF 2 HOURS OF SHUTDOWN FOR ANY SINGLE BUILDING WILL BE ALLOWED WHEN SWITCHING A SERVICE TO THE NEW WATER MAIN.
25	SPEC. PROV.	<u>WATER MAIN REMOVAL</u> EXISTING PIPE SHALL NOT BE REMOVED UNTIL NEW WATERMAIN INSTALLATION IS TO BE DETEREMINED TO BE COMPLETE BY DMWW.
26	SPEC. PROV.	<u>VALVE, GATE, 6 INCH</u> PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO INSTALL VALVE OF SPECIFIED SIZE AND TYPE WITH VALVE JOINTS, RETAINER GLANDS, VALVE BOXES, VALVE BOX ADAPTER, TRACER WIRE, POLYETHYLENE ENCASEMENT MATERIAL AND THRUST RESTRAINT INCLUDING EXCAVATION, PIPE BEDDING, BACKFILL, COMPACTION, PRESSURE TESTING AND DISINFECTION, ALL IN ACCORDANCE WITH CHAPTER TWO DETAILED SPECIFICATIONS.
27	SPEC. PROV.	<u>VALVE, GATE, 8 INCH</u> SEE BID ITEM #26
28	SPEC. PROV.	<u>FIRE HYDRANT ASSEMBLY</u> PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO INSTALL FIRE HYDRANT, MECHANICAL JOINT BY ANCHOR JOINT (MJ X AJ) TEE OR ANCHOR SPOOL, 6-INCH VALVE, VALVE BOX, VALVE BOX ADAPTER, 6-INCH DUCTILE IRON RESTRAINED JOINT PIPING AS REQUIRED, FITTINGS AS REQUIRED TO COMPLETE CONNECTION, BONDING CABLES, POLYETHYLENE ENCASEMENT, THRUST BLOCK, TRACER WIRE SYSTEM WITH RECEPTACLE POST INCLUDING EXCAVATION, BACKFILL, COMPACTION, PRESSURE TESTING AND DISINFECTION, ALL IN ACCORDANCE WITH CHAPTER TWO DETAILED SPECIFICATIONS. THE ENGINEER WILL COUNT THE NUMBER OF FIRE HYDRANTS INSTALLED. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE FOR EACH FIRE HYDRANT INSTALLED.
29	SPEC. PROV.	<u>FLUSHING DEVICE (BLOW OFF), 2 INCH</u>
30	SPEC. PROV.	<u>FIRE HYDRANT ASSEMBLY REMOVAL</u>
31	SPEC. PROV.	<u>VALVE BOX REMOVAL</u>
32	SPEC. PROV.	<u>TAP FEE, 1", REPLACE TAP FOR WATER SERVICE</u> PLUMBER'S PERFORMING WATER SERVICE INSTALLATION ARE REQUIRED TO SCHEDULE TAP BY CALLING DMWW CUSTOMER SERVICE 24 HOURS PRIOR TO TAP AT 515-283-8700. CONTRACTOR WILL PAY TAP FEE. CONTRACTOR'S PLUMBER MUST NOT HAVE PAST DUE ACCOUNTS WITH DMWW AT TIME OF TAP REQUEST OR THE TAP WILL BE DENIED. PLUMBER WILL BE REQUIRED TO SUPPLY A SURETY BOND WITH A MINIMUM VALUE OF \$20,000 (BOND MUST BE UPDATED YEARLY UNLESS IT IS A CONTINUOUS BOND). PLUMBER WILL PROVIDE PLUMBING PERMIT NUMBER FROM CITY OR COUNTY WHERE PROJECT IS LOCATED AND PROPERTY ADDRESS WHERE REPLACEMENT TAPS ARE REQUIRED. THE ENGINEER WILL COUNT THE NUMBER OF 1-INCH REPLACEMENT TAPS. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE FOR EACH 1-INCH REPLACEMENT TAP.
33	SPEC. PROV.	<u>PREPARE EXCAVATION FOR TAPPING SLEEVE AND VALVE</u> PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO PREPARE EXCAVATION FOR INSTALLATION OF THE TAPPING SLEEVE AND VALVE BY DMWW. WORK INCLUDES, BUT IS NOT LIMITED TO, EXCAVATION, SHORING, CLEANING THE MAIN PRIOR TO TAPPING, POLYETHYLENE ENCASEMENT, THRUST BLOCKING, SETTING OF THE VALVE BOX WITH VALVE BOX ADAPTER, BACKFILL, AND COMPACTION. DMWW ENGINEERING TECHNICIAN WILL SCHEDULE TAP AND WILL REQUEST TAPPING FEE BE CHARGED TO DMWW ENGINEERING PROJECT NUMBER. TAPPING FEE WILL BE PAID BY DMWW. TAPPING SLEEVE AND VALVE WILL BE PROVIDED AND INSTALLED BY DMWW. CONTRACTOR WILL HAVE EXCAVATION PREPARED AND PROPERLY SHORED IN ADVANCE OF SCHEDULED TAP IN ACCORDANCE WITH DMWW RULES AND REGULATIONS LOCATED AT WWW.DMWW.COM AND OSHA REQUIREMENTS. THE ENGINEER WILL COUNT THE NUMBER OF EXCAVATIONS COMPLETED. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE FOR THE NUMBER OF EXCAVATIONS.
34	6010-A	<u>STORM MANHOLE, SW-401, 72 INCH</u> EXCAVATION, FURNISHING BEDDING MATERIAL, PLACING BEDDING AND BACKFILL MATERIAL, COMPACTION, BASE, STRUCTURAL CONCRETE, REINFORCING STEEL, PRECAST UNITS (IF USED), CASTINGS, AND ADJUSTMENT RINGS. ANY SHORING SHALL BE CONSIDERED INCIDENTAL. CASTING TO BE TYPE B THREE-PIECE FLOATING CASTINGS IN PAVEMENT AND TYPE A IN TURF AND SHALL BE STAMPED WITH "STORM". ADJUSTING RINGS TO BE CRETEX PRO-RING OR APPROVED EQUAL.

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35	6010-B	<u>INTAKE, SW-501</u> INTAKES MAY BE CAST IN PLACE, PRECAST OR ADS NYLOPLAST EQUIVALENT STRUCTURE. ADJUSTING RINGS TO BE CRETEX PRO-RINGS OR APPROVED EQUAL. IF NYLOPLAST STURCTURES ARE TO BE USED, THE CONTRACTOR IS TO PROVIDE DOCUMENTATION OF PREVIOUS INSTALLATION OR COORDINATE TO HAVE SOMEONE FROM ADS PRESENT DURING THE FIRST 3 INSTALLATION OF STRUCTURES.
36	6010-B	<u>INTAKE, SW-503</u> INTAKES MAY BE CAST IN PLACE, PRECAST OR ADS NYLOPLAST EQUIVALENT STRUCTURE. ADJUSTING RINGS TO BE CRETEX PRO-RINGS OR APPROVED EQUAL. IF NYLOPLAST STURCTURES ARE TO BE USED, THE CONTRACTOR IS TO PROVIDE DOCUMENTATION OF PREVIOUS INSTALLATION OR COORDINATE TO HAVE SOMEONE FROM ADS PRESENT DURING THE FIRST 3 INSTALLATION OF STRUCTURES. CASTING SHALL BE STAMPED WITH "STORM". ADJUSTING RINGS TO BE CRETEX PRO-RING OR APPROVED EQUAL.
37	6010-B	<u>INTAKE, SW-505</u> SEE BID ITEM #36
38	6010-B	<u>INTAKE, SW-506</u>
39	6010-B	<u>INTAKE, SW-507</u>
40	6010-B	<u>CATCH BASIN, 18 INCH</u> INSTALLATION PER MANUFACTURERS REQUIREMENTS. FLAT GRATED CASTING TO BE USED.
41	6010-B	<u>INTAKE, SW-516</u>
42	6010-E	<u>SANITARY MANHOLE ADJUSTMENT, MINOR</u> SEE M SHEETS FOR LOCATION, ADJUSTMENT NEEDS, AND MODIFICATION NEEDS. CASTING TO BE TYPE B THREE-PIECE FLOATING CASTINGS WITH "SANITARY SEWER" STAMPED ON LID. MANUFACTURE TO BE NEENAH, EAST JORDAN, DETER OR APPROVED EQUAL. ADJUSTING RINGS TO BE CRETEX PRO-RING OR APPROVED EQUAL. NEW INTERNAL CHIMNEY SEALS TO BE INCLUDED.
43	6010-E	<u>STORM MANHOLE ADJUSTMENT, MINOR</u> SEE M SHEETS FOR LOCATION, ADJUSTMENT NEEDS, AND MODIFICATION NEEDS. CASTING TO BE TYPE B THREE-PIECE FLOATING CASTINGS WITH "SANITARY SEWER" STAMPED ON LID. MANUFACTURE TO BE NEENAH, EAST JORDAN, DETER OR APPROVED EQUAL. ADJUSTING RINGS TO BE CRETEX PRO-RING OR APPROVED EQUAL. NEW INTERNAL CHIMNEY SEALS TO BE INCLUDED.
44	6010-F	<u>SANITARY MANHOLE ADJUSTMENT, MAJOR</u> SEE BID ITEM #42
45	6010-G	<u>CONNECTION TO EXISTING MANHOLE</u>
46	6010-H	<u>REMOVE INTAKE</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF CASTING, CONCRETE, AND REINFORCEMENT; PLUGGING PIPES; FILLING REMAINING STRUCTURE WITH FLOWABLE MORTAR; AND PLACING COMPACTED FILL OVER STRUCTURE TO FINISHED GRADE.
47	7010-A	<u>PAVEMENT, PCC, 7 INCH</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, FINAL TRIMMING OF SUBGRADE OR SUBBASE, INTEGRAL CURB, BARS AND REINFORCEMENT, JOINTS AND SEALING, SURFACE CURING AND PAVEMENT PROTECTION, SAFETY FENCING, CONCRETE FOR RIGID HEADERS, BOXOUTS FOR FIXTURES, PAVEMENT SMOOTHNESS TESTING, AND QUALITY CONTROL FOR STRINGLESS PAVING. NO EXTRA PAYMENT FOR COLD WEATHER PAVING. CONCRETE WILL BE C OR M MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SLAG IS NOT ALLOWED.
48	7010-999-A	<u>JOINT PREVENTATIVE SEALANT</u> IF BID ITEM FALLS WITHIN SUDAS SPECIFICATION SECTION, BUT NOT IDENTIFIED IN SUDAS
49	7010-N	<u>COLD WEATHER PROTECTION</u> 1. WHEN COLD WEATHER PROTECTION IS REQUIRED AND AUTHORIZED BY THE ENGINEER, MEASUREMENT WILL BE IN SQUARE YARDS OF THE AREA OF PCC PAVEMENT TO BE PROTECTED. THE AREA OF MANHOLES, INTAKES, OR OTHER FIXTURES IN THE PAVEMENT WILL NOT BE DEDUCTED FROM THE MEASURED PAVEMENT AREA. 2. PAYMENT WILL BE AT THE UNIT PRICE OF \$2.50 PER SQUARE YARD. PAYMENT WILL BE LIMITED TO PROTECTION NECESSARY ONLY WITHIN THE CONTRACT PERIOD AND WITH PRIOR AUTHORIZATION OF THE WORK BY THE ENGINEER. NO PRICE MODIFICATIONS WILL BE MADE FOR QUANTITY UNDERRUNS OR OVERRUNS FOR THIS ITEM. COLD WEATHER PROTECTION NECESSARY AFTER THE COMPLETION DATE, AFTER ALL CALENDAR DAYS HAVE PASSED, OR AFTER ALL WORKING DAYS HAVE BEEN USED IS INCIDENTAL TO THE WORK REGARDLESS IF A QUANTITY WAS INCLUDED IN THE CONTRACT. 3. INCLUDES: UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, ALL LABOR, MATERIALS, AND EQUIPMENT TO INSTALL AND REMOVE ALL REQUIRED PROTECTION.
50	7030-A-1	<u>REMOVAL OF SIDEWALK</u>

		ALL REMOVALS TO BE MARKED AND MEASURED BY THE ENGINEER. FULL DEPTH SAW CUTS ALONG THE REMOVAL LIMITS ARE INCIDENTAL TO THIS ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL REMOVAL, EARTHWORK, SUBGRADE PREPARATION, MODIFIED SUBBASE AND PAVING EXPENSES DUE TO DAMAGED EDGES. ADDITIONAL REMOVAL TO BE DETERMINED BY ENGINEER. PAYMENT SHALL BE MADE FOR THE AREA OF PAVEMENT REMOVED REGARDLESS OF THICKNESS.
51	7030-A-3	<u>REMOVAL OF DRIVEWAY</u> SEE BID ITEM #50
52	7030-E	<u>SIDEWALK, PCC, 4 INCH</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, MINOR GRADE ADJUSTMENTS AT DRIVEWAYS AND OTHER INTERSECTIONS, SUBGRADE PREPARATION, FORMWORK, ADDITIONAL THICKNESS AT THICKENED EDGES, JOINTING, SAMPLING, SLOPE AND SMOOTHNESS TESTING AND CORRECTION, AND TESTING. CONCRETE WILL BE C OR M MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SLAG IS NOT ALLOWED. COMPACTION OF SUBGRADE IS INCIDENTAL TO THIS ITEM. CONCRETE TESTING WILL BE PROVIDED BY THE OWNER.
53	7030-E	<u>SIDEWALK, PCC, 4 INCH, REINFORCED</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, MINOR GRADE ADJUSTMENTS AT DRIVEWAYS AND OTHER INTERSECTIONS, SUBGRADE PREPARATION, FORMWORK, ADDITIONAL THICKNESS AT THICKENED EDGES, JOINTING, SAMPLING, SLOPE AND SMOOTHNESS TESTING AND CORRECTION, AND TESTING. CONCRETE WILL BE C OR M MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SLAG IS NOT ALLOWED. COMPACTION OF SUBGRADE IS INCIDENTAL TO THIS ITEM. CONCRETE TESTING WILL BE PROVIDED BY THE OWNER.
54	7030-E	<u>SIDEWALK, PCC, 6 INCH</u> SEE BID ITEM #52
55	7030-G	<u>DETECTABLE WARNING</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, STEEL BAR SUPPORTS AND MANUFACTURED DETECTABLE WARNING PANELS. DETECTABLE WARNINGS SHALL MEET CURRENT PROWAG STANDARDS. TO BE RED CAST IRON MATERIAL.
56	7030-H-1	<u>DRIVEWAY, PAVED, PCC, 6 INCH</u> CONCRETE WILL BE C OR M MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SLAG IS NOT ALLOWED. COMPACTION OF SUBGRADE IS INCIDENTAL TO THIS ITEM. CONCRETE TESTING WILL BE PROVIDED BY THE OWNER. NO EXTRA PAYMENT FOR COLD WEATHER PAVING.
57	7040-H	<u>PAVEMENT REMOVAL</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, SAWING, BREAKING, REMOVING, AND DISPOSING OF EXISTING PAVEMENT AND REINFORCING STEEL REGARDLESS OF PAVEMENT THICKNESS AND TYPE. ALL REMOVALS TO BE MARKED AND MEASURED BY THE ENGINEER. SEE B SHEETS FOR EXISTING PAVEMENT TYPICAL SECTIONS. EXISTING PAVEMENT DEPTHS AND TYPES MAY VARY.
58	8020-B	<u>PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE</u>
59	8030-A	<u>TEMPORARY TRAFFIC CONTROL</u> LUMP SUM PRICE INCLUDES, BUT IS NOT LIMITED TO, INSTALLATION, MAINTENANCE, AND REMOVAL OF TEMPORARY TRAFFIC CONTROL; TOTAL ROADWAY CLOSURES WITH INSTALLATION AND REMOVAL OF DETOUR SIGNING AS SHOWN IN THE CONTRACT DOCUMENTS; REMOVAL AND REINSTALLATION OR COVERING OF PERMANENT TRAFFIC CONTROL DEVICES THAT CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL PLAN; MONITORING AND DOCUMENTING TRAFFIC CONTROL CONDITIONS; AND FLAGGERS. WHEN REQUIRED IN THE CONTRACT DOCUMENTS, THE FOLLOWING ARE ALSO INCLUDED IN TRAFFIC CONTROL UNLESS A SEPARATE BID ITEM IS PROVIDED: PORTABLE DYNAMIC MESSAGE SIGNS, TEMPORARY BARRIER RAIL, TEMPORARY FLOOD LIGHTING, AND PILOT CARS.
60	8040-A	<u>TRAFFIC SIGNS, TYPE A</u> THE SIGN BLANK, APPLICATION OF REFLECTIVE SHEETING, APPLICATION OF SCREENED MESSAGE, ALL MOUNTING HARDWARE, AND ERECTING THE SIGN. NEW STREET NAME SIGNS SHALL MATCH EXISTING.
61	8040-D	<u>PERFORATED SQUARE STEEL TUBE POSTS</u>

		UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, FABRICATING, FURNISHING, AND ERECTING THE POST AND OTHER DETAILS REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
62	8040-J	<u>REMOVE AND SALVAGE TRAFFIC SIGN ASSEMBLY</u>
63	9010-D	<u>WATERING</u> THIS ITEM IS ADDITIONAL WATERING OF SOD ABOVE AND BEYOND THE WATERING SPECIFIED AND INCLUDED IN THE SOD BID ITEM PER SUDAS. ONLY TO BE USED AFTER THE MAINTENANCE PERIOD (30 DAYS). APPLY WATER UNIFORMLY AND CONSISTENTLY ON ALL SODDED AREAS. ACTUAL WATERING QUANTITIES DEPEND UPON WEATHER CONDITIONS DURING THIS PERIOD, AN ADDITIONAL 30 DAYS OR AS REQUESTED BY ENGINEER. CONTRACTOR TO PROVIDE QUANTITY AFTER EACH WATERING.
64	9020-A	<u>SOD</u> THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, THE PREPARATION OF SOD AND SOD BED, STAKES, FERTILIZING, WATERING, MAINTENANCE, AND CLEAN-UP. MAINTENANCE PERIOD WILL BEGIN FOLLOWING THE INSTALLATION OF SOD FOR AN ENTIRE STAGE AND CONTINUE FOR A PERIOD OF 30 DAYS. AERATING THE SOD BED SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM ALONG WITH ADJUSTMENT OF CURB STOPS TO FINISH GRADE. ALL DAMAGED CURB STOPS SHALL BE REPLACED AT THE COST OF THE CONTRACTOR.
65	9030-B	<u>PLANTS WITH WARRANTY, ORNAMENTAL TREE</u> BID ITEM IS TO ESTABLISH A UNIT PRICE. THE NUMBER AND LOCATION WITHIN THE PROJECT AREA (WILL BE LOCATED IN FRONT YARDS) OF TREE IS NOT KNOWN AT THIS TIME, BUT WILL BE KNOWN BY PROJECT START. TREES TO BE 1.5" CALIPER OR MINIMUM OF SIX FOOT TALL. SPECIES SHALL INCLUDE HORNBEAM, FLOWERING CRAB, REDBUD OR APPROVED EQUAL. THIS ITEM INCLUDES LABOR, MATERIAL, AND EQUIPMENT TO FURNISH AND INSTALL TREES. PLANTINGS SHALL HAVE ONE YEAR WARRANTY FROM DATE OF FINAL ACCEPTANCE OF PLANTING. ACCEPTANCE CONTRUES FULL PAYMENT (MINUS RETAINAGE). INCLUDES ALL, BUT NOT LIMITED TO, WATERING BAG, STAKING OR GUYING, WRAPPING, AMENDED SOIL, EXCAVATION, BACKFILLING, INSTALLATION, MULCHING, HERBICIDE, MAINTENANCE DURING ESTABLISHMENT PERIOD, AND WARRANTY AND REJECTION REPLACEMENTS.
66	9030-B	<u>PLANTS WITH WARRANTY, DECIDUOUS TREE</u> BID ITEM IS TO ESTABLISH A UNIT PRICE. THE NUMBER AND LOCATION WITHIN THE PROJECT AREA (WILL BE LOCATED IN FRONT YARDS) OF TREE IS NOT KNOWN AT THIS TIME, BUT WILL BE KNOWN BY PROJECT START. TREES TO BE 1.5" CALIPER OR MINIMUM OF SIX FOOT TALL. SPECIES SHALL INCLUDE TULIP TREE, GINKGO-MALE AND AMERICAN SYCAMORE OR APPROVED EQUAL. THIS ITEM INCLUDES LABOR, MATERIAL, AND EQUIPMENT TO FURNISH AND INSTALL TREES. PLANTINGS SHALL HAVE ONE YEAR WARRANTY FROM DATE OF FINAL ACCEPTANCE OF PLANTING. ACCEPTANCE CONTRUES FULL PAYMENT (MINUS RETAINAGE). INCLUDES ALL, BUT NOT LIMITED TO, WATERING BAG, STAKING OR GUYING, WRAPPING, AMENDED SOIL, EXCAVATION, BACKFILLING, INSTALLATION, MULCHING, HERBICIDE, MAINTENANCE DURING ESTABLISHMENT PERIOD, AND WARRANTY AND REJECTION REPLACEMENTS.
67	9040-A-1	<u>SWPPP PREPARATION</u> DEVELOPMENT OF A SWPPP BY THE CONTRACTOR MEETING LOCAL AND STATE AGENCY REQUIREMENTS, FILING THE REQUIRED PUBLIC NOTICES, FILING A NOTICE OF INTENT FOR COVERAGE OF THE PROJECT UNDER THE IOWA DNR NPDES GENERAL PERMIT NO. 2, AND PAYMENT OF ASSOCIATED NPDES PERMIT FEES.
68	9040-A-2	<u>SWPPP MANAGEMENT</u> THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, ALL WORK REQUIRED TO COMPLY WITH THE ADMINISTRATIVE PROVISIONS OF THE IOWA DNR NPDES GENERAL PERMIT NO.2; INCLUDING RECORD KEEPING, DOCUMENTATION, UPDATING THE SWPPP, FILING THE NOTICE OF DISCONTINUATION, ETC. ITEM ALSO INCLUDES WEEKLY INSPECTION REQUIRED TO SATISFY THE PROVISIONS OF GENERAL PERMIT NO. 2.
69	9040-D-1	<u>FILTER SOCK, 9 INCH</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, ANCHORING STAKES, RESTORATION OF THE AREA TO FINISHED GRADE AND OFF-SITE DISPOSAL OF FILTER SOCKS AND ACCUMULATED SEDIMENT.
70	9040-O-1	<u>STABILIZED CONSTRUCTION ENTRANCE</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, SUBGRADE STABILIZATION FABRIC, MAINTAINCE, AND REMOVAL.
71	9040-Q-2	<u>EROSION CONTROL MULCHING, HYDRO MULCHING</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, FURNISHING MULCH AND TACKIFIER (IF APPLICABLE), PROVIDING EQUIPMENT SPECIFIC TO HYDROMULCHING, AND APPLYING THE MULCH TO THE SPECIFIED AREA. THIS ITEM SHALL ONLY BE USED FOR TEMPORARY EROSION CONTROL OR AS DIRECTED BY ENGINEER.
72	9040-T-1	<u>INLET PROTECTION DEVICE, MAINTENCE, AND REMOVAL</u>



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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

ESTIMATE REFERENCE NOTES - BASE BID

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		UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF THE DEVICE UPON COMPLETION OF THE PROJECT. THIS ITEM SHALL BE USED ON STORM SEWER CURB INLET STRUCTURES. INSPECTION SHALL MEET THE REQUIREMENTS AS SET FORTH IN THE NPDES GENERAL PERMIT NO. 2 AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR ALONG WITH INSTALLATION, MAINTENANCE, AND REMOVAL OF DEVICE.
73	9070-A	<u>MODULAR BLOCK RETAINING WALL</u> UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, EXCAVATION, FOUNDATION PREPARATION, FURNISHING AND PLACING WALL UNITS, GEOGRID (IF NECESSARY), LEVELING PAD, SUBDRAIN, POROUS BACKFILL MATERIAL FOR SUBDRAIN, ENGINEERING FABRIC FOR SUBDRAIN, GRANULAR BACKFILL MATERIAL, SUITABLE BACKFILL MATERIAL, AND SHORING AS NECESSARY. CONTRACTOR TO PROVIDE COLOR OPTIONS PRIOR TO ORDERING MATERIAL FOR ENGINEERS APPROVAL
74	11020-A	<u>MOBILIZATION</u>
75	11030-A	THIS ITEM IS FOR ALL PREPARATORY WORK AND COSTS INCURRED BEFORE BEGINNING THE WORK ON THE PROJECT AND DURING THE PROJECT. THIS ITEM SHALL ALSO INCLUDE THE COSTS FOR ANY STAGED CONSTRUCTION AND EQUIPMENT SET UP TO COMPLETE THE WORK. NO CHANGE IN THE CONTRACT PRICE WILL BE MADE FOR ANY CHANGE IN STAGING OR COMBINATION THEREOF. TO INCLUDE ANY MOBILICATION AFTER UTILITY POLE RELOCATION TO INSTALL SIDEWALK. <u>MAINTENANCE OF POSTAL SERVICE</u>
		COORDINATE WITH USPS AND PROPERTY OWNERS FOR TEMPORARY MAILBOX LOCATION WHEN NECESSARY. ENSURING MAIL SERVICE IS MAINTAINED THROUGHOUT THE PROJECT.
76	11030-B	<u>MAINTENANCE OF SOLID WASTE COLLECTION</u> CONTRACTOR SHALL COORDINATE WITH WASTE COLLECTION SERVICE TO ENSURE SERVICE IS MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT INCLUDING RECYCLE, YARD WASTE, CURB PICKUP ITEMS (WITH APPROPRIATE STICKERS), DUMPSTERS. LABEL ALL BINS WITH ADDRESS BY REMOVABLE MEANS. COORDINATE DUMPSTER PICKUP WITH OWNER AND HAULER AND MOVE DUMPSTER AS REQUIRED TO KEEP SCHEDULED PICK UP TIMES OR ARRANGE FOR OTHER PICK METHODS. AN ONSITE BUMPSTERS MAY BE UTILIZED FOR GARBAGE AND RECYLING.
77	11040-A	<u>TEMPORARY PEDESTRIAN RESIDENTIAL ACCESS</u> RECLAIMED ASPHALT PAVEMENT MAY BE USED. INCLUDES THE INSTALLATION AND MAINTENANCE OF CITY SUPPLIED RUBBER MATTING AT THE LOCATION SHOWN. THE MATTING WILL BE PLACED OVER THE GRANULAR SURFACING. METHOD OF PAYMENT: STAGE 1 - 60% OF UNIT PRICE, STAGE 2 - 40% OR REMAINING UNIT PRICE.

78 11050-A CONCRETE WASHOUT
LUMP SUM PRICE INCLUDES, BUT IS NOT LIMITED TO, PROVIDING CONCRETE WASHWATER CONTAINMENT, COLLECTION, AND DISPOSAL.



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ESTIMATED PROJECT QUANTITIES (ALTERNATE A)									
ITEM NO.	ITEM CODE	ITEM	UNIT	CITY	AS-BUILT QTY.	DMWW	AS-BUILT QTY.	TOTAL EST. QUANTITY	AS-BUILT QTY.
A1	2010-C	CLEARING AND GRUBBING	LS	1		0		1	
A2	2010-D-1	TOPSOIL, ON-SITE	CY	620		0		620	
A3	2010-E	EXCAVATION, CLASS 10	CY	700		0		700	
A4	2010-F	BELOW GRADE EXCAVATION (CORE OUT)	CY	0		0		0	
A5	2010-G	SUBGRADE PREPARATION	SY	1070		0		1070	
A6	2010-I	SUBGRADE TREATMENT, POLYMER GRID	SY	0		0		0	
A7	2010-J	SUBBASE, MODIFIED, 8 INCHES	SY	1070		0		1070	
A8	3010-D	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	CY	0		0		0	
A9	4020-A-1	STORM SEWER, TRENCHED, 36 INCH	LF	145		0		145	
A10	4020-A-1	STORM SEWER, TRENCHED, RCP, 44" X 27" ARCH	LF	132		0		132	
A11	4020-D	REMOVAL OF STORM SEWER, LESS THAN 36 INCH	LF	275		0		275	
A12	4040-A	SUBDRAIN, PERFORATED HDPE, 6 INCH	LF	524		0		524	
A13	4040-C-1	SUBDRAIN CLEANOUT, TYPE A-1, 6 INCH	EA	2		0		2	
A14	4040-D-1	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6 INCH	EA	2		0		2	
A15	SPEC. PROV.	WATER MAIN, TRENCHED, PVC C900 (DR 18), 8 INCH WITH TRACER WIRE	LF	0		300		300	
A16	SPEC. PROV.	FITTING BY WEIGHT, DUCTILE IRON	LB	0		230		230	
A17	SPEC. PROV.	WATER MAIN REMOVAL	LF	0		40		40	
A18	6010-A	STORM MANHOLE, SW-401, 72 INCH	EA	1		0		1	
A19	6010-B	INTAKE, SW-516	EA	1		0		1	
A20	6010-E	INTAKE ADJUSTMENT, MINOR	EA	2		0		2	
A21	6010-H	REMOVE INTAKE	EA	1		0		1	
A22	7010-A	PAVEMENT, PCC, 7 INCH	SY	900		0		900	
A23	7010-999-A	JOINT PREVENTATIVE SEALANT	LF	0		0		0	
A24	7030-A-1	REMOVAL OF SIDEWALK	SY	10		0		10	
A25	7030-A-3	REMOVAL OF DRIVEWAY	SY	110		0		110	
A26	7030-E	SIDEWALK, PCC, 4 INCH	SY	150		0		150	
A27	7030-E	SIDEWALK, PCC, 6 INCH	SY	10		0		10	
A28	7030-G	DETECTABLE WARNING	SF	20		0		20	
A29	7030-H-1	DRIVEWAY, PAVED, PCC, 6 INCH	SY	110		0		110	
A30	7040-H	PAVEMENT REMOVAL	SY	770		0		770	
A31	8040-A	TRAFFIC SIGNS, TYPE A	EA	3		0		3	
A32	8040-D	PERFORATED SQUARE STEEL TUBE POSTS	EA	2		0		2	
A33	9010-D	WATERING	MGAL	13		0		13	
A34	9020-A	SOD	SQ	49		0		49	
A35	9040-D-1	FILTER SOCK, 9 INCH	LF	840		0		840	
A36	9040-T-1	INLET PROTECTION DEVICE, MAINTENCE, AND REMOVAL	EA	4		0		4	
A37	9060-D	REMOVAL AND REINSTALLATION OF EXISTING FENCE, CHAIN LINK FENCE, RESIDENTIAL	LF	80		0		80	
A38	11040-A	TEMPORARY PEDESTRIAN RESIDENTIAL ACCESS	LS	1		0		1	



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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
QUANTITIES - ALTERNATE A

SHEET

C.07

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ESTIMATE REFERENCE INFORMATION (ALTERNATE A)		
ITEM NO.	ITEM CODE	DESCRIPTION
A1	2010-C	CLEARING AND GRUBBING THIS ITEM SHALL INCLUDE ALL NECESSARY TRIMMING AND CLEARING AND GRUBBING TO COMPLETE CONSTRUCTION. PROTECT ALL TREES NOT MARKED FOR REMOVAL. CONTRACTOR TO DETERMINE ANY AND ALL TRIMMING NEEDS REQUIRED FOR CONSTRUCTION OPERATIONS, INCLUDING ANY ROOTS ENCOUNTERED.
A2	2010-D-1	TOPSOIL, ON-SITE TOPSOIL WITHIN THE GRADING LIMITS OF THE PROJECT SHALL BE STRIPPED, SALVAGED, AND RESPREAD AT A MINIMUM DEPTH OF 6". ITEM INCLUDES HAULING OFF-SITE TO STORE AND HAULING BACK IN IF NEEDED. SALVAGED TOPSOIL SHALL REMAIN WITHIN THE RIGHT-OF-WAY UNLESS AGREEMENTS MADE WITH THE PROPERTY OWNER. CONTRACTOR TO PAY FOR RESTORATION COST IF LOCATED OUTSIDE OF THE RIGHT OF WAY. MEASUREMENT WILL NOT BE MADE AND QUANTITY PAID WILL BE ON A PERCENT OF ITEM COMPLETE.
A3	2010-E	EXCAVATION, CLASS 10 THIS ITEM SHALL INCLUDE THE REMOVAL OF EXISTING SOIL, HAULING, DISPOSAL/EXPORT AND RE-GRADING AS PER PLAN TO FACILITATE ALL PROPOSED SECTIONS. ALL BORROW SHALL BE PROVIDED BY THE CONTRACTOR. EXCESS OR UNSUITABLE EXCAVATED MATERIAL WILL BECOME PROPERTY OF THE CONTRACTOR AND WILL BE HAULED OFF-SITE INCIDENTAL TO THE ITEM. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR OVERHAUL OF WASTE. RAW CUT = X CY, RAW FILL = X CY, ADJUSTED FILL (1.30 FACTOR) = X CY RAW EARTHWORK QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY ARE A COMPARISON OF EXISTING CONDITIONS AND PROPOSED CONDITIONS AND MAY INCLUDE MATERIALS AND OPERATIONS PAID FOR UNDER OTHER BID ITEMS E.G. PAVEMENT REMOVAL, STORM SEWER TRENCHED, PCC PAVEMENT, SUBBASE, TOPSOIL, COMPOST AMENDMENT, ETC. MEASUREMENT WILL NOT BE MADE AND QUANTITY PAID WILL BE ON A PERCENT OF ITEM COMPLETE.
A4	2010-F	BELOW GRADE EXCAVATION (CORE OUT) BID ITEM IS TO ESTABLISH A UNIT PRICE IF UNSUITABLE OR UNSTABLE MATERIAL IS ENCOUNTERED. PAYMENT INCLUDES, BUT IS NOT LIMITED TO, EQUIPMENT, TOOLS, LABOR, DISPOSAL OF UNSUITABLE MATERIALS, DEWATERING, DRYING, FURNISHING, AND PLACEMENT OF RECYCLED CONCRETE OR MODIFIED OR APPROVED EQUAL AS REQUIRED BY THE ENGINEER, COMPACTION AND FINISHING OF THE EXCAVATED AREA, AND ALL INCIDENTAL WORK AS MAY BE REQUIRED. TO BE USED AS DETERMINED BY ENGINEER.
A5	2010-G	SUBGRADE PREPARATION TO BE USED AS APPROVED BY ENGINEER. CONTRACTOR SHALL COMPACT SUBGRADE AND PROOF ROLL. IF SUBGRADE PASSES PROOF ROLL, NO SUBGRADE PREPARATION WILL BE REQUIRED. IF REQUIRED, SUBGRADE PREPARATION MUST BE COMPLETED IN 2 - 6" LIFTS. UNDER PROPOSED PAVEMENT, PLUS 4 FEET ON EACH SIDE. MOISTURE AND DENSITY TESTING WILL BE PROVIDED BY THE OWNER. CHECKING OF SUBGRADE WILL BE PREFORMED WITH ROUGH GRADING STAKES SET 25' APART.
A6	2010-I	SUBGRADE TREATMENT, POLYMER GRID THIS ITEM WILL BE USED ONLY WHEN THE ENGINEER DETERMINES IT IS REQUIRED TO PROVIDE SUITABLE SUBGRADE. LOCATION(S) OF TREATMENT, IF ANY, WILL BE SPECIFIED BY THE ENGINEER. MATERIAL TO HAVE NO CHUNKS LARGER THAN 2 INCHES. HAULING OFF ANY EXCESS MATERIAL GENERATED DURING THE PROCESS SHALL BE CONSIDERED INCIDENTAL. QUANTITY IS ESTIMATED TO ESTABLISH A UNIT PRICE, ONLY QUANTITY APPROVED BY ENGINEER WILL BE PAID.
A7	2010-J	SUBBASE, MODIFIED, 8 INCHES THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, COMPACTION OF SUBGRADE, FURNISHING, PLACING, COMPACTING, AND TRIMMING TO THE PROPER GRADE.
A8	3010-D	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL UNSUITABLE BACKFILL MATERIAL SHALL BE REPLACED WITH GRANULAR BACKFILL OR OTHER APPROVED MATERIAL AS APPROVED BY THE ENGINEER. GRANULAR BACKFILL IS INCIDENTAL TO THIS ITEM. THIS ITEM WILL BE PAID BY THE CUBIC YARD - LOOSE VOLUME. NO RECYCLED CONCRETE OR RIP RAP ALLOWED. QUANTITY IS ESTIMATED TO ESTABLISH A UNIT PRICE, ONLY QUANTITY APPROVED BY ENGINEER WILL BE PAID.
A9	4020-A-1	STORM SEWER, TRENCHED, 36 INCH SEE BID ITEM #11
A10	4020-A-1	STORM SEWER, TRENCHED, RCP, 44" X 27" ARCH
A11	4020-D	REMOVAL OF STORM SEWER, LESS THAN 36 INCH UNIT PRICE INCLUDES, REMOVAL, DISPOSAL, AND FURNISHING, PLACING, AND COMPACTING BACKFILL MATERIAL.
A12	4040-A	SUBDRAIN, PERFORATED HDPE, 6 INCH THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, TRENCH EXCAVATION, FURNISHING AND PLACEMENT OF BEDDING AND BACKFILL MATERIAL, ENGINEERING FABRIC, CONNECTORS, AND ELBOWS AND TEES. THE LENGTH OF ELBOWS AND TEES OF THE PIPES INSTALLED WILL BE INCLUDED IN THE LENGTH OF PIPE MEASURED. POTHOLE FOR ALL EXISTING UTILITIES PRIOR TO SUBDRAIN INSTALLATION TO DETERMINE WHERE SUBDRAIN CAN BE PLACED. POTHOLING SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM.
A13	4040-C-1	SUBDRAIN CLEANOUT, TYPE A-1, 6 INCH UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, TRENCH EXCAVATION; FURNISHING CLEANOUT AND LID; AND FURNISHING, PLACING, AND COMPACTING BEDDING AND BACKFILL MATERIAL.

A14	4040-D-1	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6 INCH UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, PIPE, NON-SHRINK GROUT, COUPLING BANDS, AND RODENT GUARDS FOR PIPES 6 INCHES OR SMALLER.
A15	SPEC. PROV.	WATER MAIN, TRENCHED, PVC C900 (DR 18), 8 INCH WITH TRACER WIRE
A16	SPEC. PROV.	FITTING BY WEIGHT, DUCTILE IRON PROVIDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO INSTALL DI FITTINGS OF SPECIFIED SIZE AND TYPE INCLUDING EXCAVATION, PIPE BEDDING, POLYETHYLENE ENCASEMENT, THRUST RESTRAINT, TRACER WIRE SYSTEM, BACKFILL, COMPACTION, PRESSURE TESTING, AND DISINFECTION, ALL IN ACCORDANCE WITH CHAPTER TWO DETAILED SPECIFICATIONS. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE PER POUND FOR EACH FITTING INSTALLED. DETERMINATION OF THE TOTAL WEIGHT OF FITTINGS, IN POUNDS, SHALL BE BASED ON THE STANDARD FITTING WEIGHTS PUBLISHED IN AWWA C153 FOR DUCTILE IRON COMPACT FITTINGS.
A17	SPEC. PROV.	WATER MAIN REMOVAL EXISTING PIPE SHALL NOT BE REMOVED UNTIL NEW WATERMAIN INSTALLATION IS TO BE DETEREMINED TO BE COMPLETE BY DMWW.
A18	6010-A	STORM MANHOLE, SW-401, 72 INCH EXCAVATION, FURNISHING BEDDING MATERIAL, PLACING BEDDING AND BACKFILL MATERIAL, COMPACTION, BASE, STRUCTURAL CONCRETE, REINFORCING STEEL, PRECAST UNITS (IF USED), CASTINGS, AND ADJUSTMENT RINGS. ANY SHORING SHALL BE CONSIDERED INCIDENTAL. CASTING TO BE TYPE B THREE-PIECE FLOATING CASTINGS IN PAVEMENT AND TYPE A IN TURF AND SHALL BE STAMPED WITH "STORM". ADJUSTING RINGS TO BE CRETEX PRO-RING OR APPROVED EQUAL.
A19	6010-B	INTAKE, SW-516
A20	6010-E	INTAKE ADJUSTMENT, MINOR
A21	6010-H	REMOVE INTAKE UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF CASTING, CONCRETE, AND REINFORCEMENT; PLUGGING PIPES; FILLING REMAINING STRUCTURE WITH FLOWABLE MORTAR; AND PLACING COMPACTED FILL OVER STRUCTURE TO FINISHED GRADE.
A22	7010-A	PAVEMENT, PCC, 7 INCH UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, FINAL TRIMMING OF SUBGRADE OR SUBBASE, INTEGRAL CURB, BARS AND REINFORCEMENT, JOINTS AND SEALING, SURFACE CURING AND PAVEMENT PROTECTION, SAFETY FENCING, CONCRETE FOR RIGID HEADERS, BOXOUTS FOR FIXTURES, PAVEMENT SMOOTHNESS TESTING, AND QUALITY CONTROL FOR STRINGLESS PAVING. NO EXTRA PAYMENT FOR COLD WEATHER PAVING. CONCRETE WILL BE C OR M MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SLAG IS NOT ALLOWED.
A23	7010-999-A	JOINT PREVENTATIVE SEALANT IF BID ITEM FALLS WITHIN SUDAS SPECIFICATION SECTION, BUT NOT IDENTIFIED IN SUDAS
A24	7030-A-1	REMOVAL OF SIDEWALK ALL REMOVALS TO BE MARKED AND MEASURED BY THE ENGINEER. FULL DEPTH SAW CUTS ALONG THE REMOVAL LIMITS ARE INCIDENTAL TO THIS ITEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL REMOVAL, EARTHWORK, SUBGRADE PREPARATION, MODIFIED SUBBASE AND PAVING EXPENSES DUE TO DAMAGED EDGES. ADDITIONAL REMOVAL TO BE DETERMINED BY ENGINEER. PAYMENT SHALL BE MADE FOR THE AREA OF PAVEMENT REMOVED REGARDLESS OF THICKNESS.
A25	7030-A-3	REMOVAL OF DRIVEWAY SEE BID ITEM #A24
A26	7030-E	SIDEWALK, PCC, 4 INCH UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, MINOR GRADE ADJUSTMENTS AT DRIVEWAYS AND OTHER INTERSECTIONS, SUBGRADE PREPARATION, FORMWORK, ADDITIONAL THICKNESS AT THICKENED EDGES, JOINTING, SAMPLING, SLOPE AND SMOOTHNESS TESTING AND CORRECTION, AND TESTING. CONCRETE WILL BE C OR M MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SLAG IS NOT ALLOWED. COMPACTION OF SUBGRADE IS INCIDENTAL TO THIS ITEM. CONCRETE TESTING WILL BE PROVIDED BY THE OWNER.
A27	7030-E	SIDEWALK, PCC, 6 INCH SEE BID ITEM #A26
A28	7030-G	DETECTABLE WARNING UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, STEEL BAR SUPPORTS AND MANUFACTURED DETECTABLE WARNING PANELS. DETECTABLE WARNINGS SHALL MEET CURRENT PROWAG STANDARDS. TO BE RED CAST IRON MATERIAL.
A29	7030-H-1	DRIVEWAY, PAVED, PCC, 6 INCH CONCRETE WILL BE C OR M MIX WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SLAG IS NOT ALLOWED. COMPACTION OF SUBGRADE IS INCIDENTAL TO THIS ITEM. CONCRETE TESTING WILL BE PROVIDED BY THE OWNER. NO EXTRA PAYMENT FOR COLD WEATHER PAVING.
A30	7040-H	PAVEMENT REMOVAL UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, SAWING, BREAKING, REMOVING, AND DISPOSING OF EXISTING PAVEMENT AND REINFORCING STEEL REGARDLESS OF PAVEMENT THICKNESS AND TYPE. ALL REMOVALS TO BE MARKED AND MEASURED BY THE ENGINEER. SEE B SHEETS FOR EXISTING PAVEMENT TYPICAL SECTIONS. EXISTING PAVEMENT DEPTHS AND TYPES MAY VARY.

A31	8040-A	TRAFFIC SIGNS, TYPE A THE SIGN BLANK, APPLICATION OF REFLECTIVE SHEETING, APPLICATION OF SCREENED MESSAGE, ALL MOUNTING HARDWARE, AND ERECTING THE SIGN. NEW STREET NAME SIGNS SHALL MATCH EXISTING.
A32	8040-D	PERFORATED SQUARE STEEL TUBE POSTS UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, FABRICATING, FURNISHING, AND ERECTING THE POST AND OTHER DETAILS REQUIRED TO PROVIDE A COMPLETE INSTALLATION.
A33	9010-D	WATERING THIS ITEM IS ADDITIONAL WATERING OF SOD ABOVE AND BEYOND THE WATERING SPECIFIED AND INCLUDED IN THE SOD BID ITEM PER SUDAS. ONLY TO BE USED AFTER THE MAINTENANCE PERIOD (30 DAYS). APPLY WATER UNIFORMLY AND CONSISTENTLY ON ALL SODDED AREAS. ACTUAL WATERING QUANTITIES DEPEND UPON WEATHER CONDITIONS DURING THIS PERIOD, AN ADDITIONAL 30 DAYS OR AS REQUESTED BY ENGINEER. CONTRACTOR TO PROVIDE QUANTITY AFTER EACH WATERING.
A34	9020-A	SOD THIS ITEM INCLUDES, BUT IS NOT LIMITED TO, THE PREPARATION OF SOD AND SOD BED, STAKES, FERTILIZING, WATERING, MAINTENANCE, AND CLEAN-UP. MAINTENANCE PERIOD WILL BEGIN FOLLOWING THE INSTALLATION OF SOD FOR AN ENTIRE STAGE AND CONTINUE FOR A PERIOD OF 30 DAYS. AERATING THE SOD BED SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM ALONG WITH ADJUSTMENT OF CURB STOPS TO FINISH GRADE. ALL DAMAGED CURB STOPS SHALL BE REPLACED AT THE COST OF THE CONTRACTOR.
A35	9040-D-1	FILTER SOCK, 9 INCH UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, ANCHORING STAKES, RESTORATION OF THE AREA TO FINISHED GRADE AND OFF-SITE DISPOSAL OF FILTER SOCKS AND ACCUMULATED SEDIMENT.
A36	9040-T-1	INLET PROTECTION DEVICE, MAINTENCE, AND REMOVAL UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF THE DEVICE UPON COMPLETION OF THE PROJECT. THIS ITEM SHALL BE USED ON STORM SEWER CURB INLET STRUCTURES. INSPECTION SHALL MEET THE REQUIREMENTS AS SET FORTH IN THE NPDES GENERAL PERMIT NO. 2 AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR ALONG WITH INSTALLATION, MAINTENANCE, AND REMOVAL OF DEVICE.
A37	9060-D	REMOVAL AND REINSTALLATION OF EXISTING FENCE, CHAIN LINK FENCE, RESIDENTIAL
A38	11040-A	TEMPORARY PEDESTRIAN RESIDENTIAL ACCESS RECLAIMED ASPHALT PAVEMENT MAY BE USED. INCLUDES THE INSTALLATION AND MAINTENANCE OF CITY SUPPLIED RUBBER MATTING AT THE LOCATION SHOWN. THE MATTING WILL BE PLACED OVER THE GRANULAR SURFACING. METHOD OF PAYMENT: STAGE 1 - 60% OF UNIT PRICE, STAGE 2 - 40% OR REMAINING UNIT PRICE.

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CITY OF WINDSOR HEIGHTS, IOWA

68TH STREET SOUTH RECONSTRUCTION

C - QUANTITIES NOTES SWPPP

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EXCAVATION QUANTITY	DEPTH, FT	QUANTITY, SY	QUANTITY, SF	VOLUME, CF	VOLUME, CY	CUT, CY	FILL, CY	FILL FACTOR	ADJ, FILL	NET FILL, CY
EXCAVATION RAW DATA (EG-FG)						466.81	532.03	1.3	691.639	65.22
EXISTING PAVEMENT REMOVAL	0.5	5302.55	47722.96	23861.48	883.76					
EXISTING DRIVEWAY REMOVAL	0.5	1055.88	9502.93	4751.47	175.98					
EXISTING ASPHALT DRIVEWAY REMOVAL										
PROPOSED 7" PAVING	0.58	5705.58	51350.26	29783.15	1103.08					
MODIFIED SUBBASE 6"		6561.42	59052.80	29526.40	1093.57					
PROPOSED SIDEWALK 4"	0.33	787.74	7089.63	2339.58	86.65					
PROPOSED SIDEWALK 6"	0.5	242.11	2178.99	1089.50	40.35					
MODIFIED SUBBASE 4"	-	-	-	-	-					
PROPOSED DRIVEWAY	0.5	793.22	7139	3569.5	132.20					
PROPOSED TOPSOIL	0.5	2857.42	25716.8	12858.4	476.24					
PAVING DIFFERENCE						1312.89				
SIDEWALK DIFFERENCE						127.00				
DRIVEWAY DIFFERENCE						-43.78				
TOPSOIL						-476.24				
						1386.69	532.03	1.3	691.639	695.05

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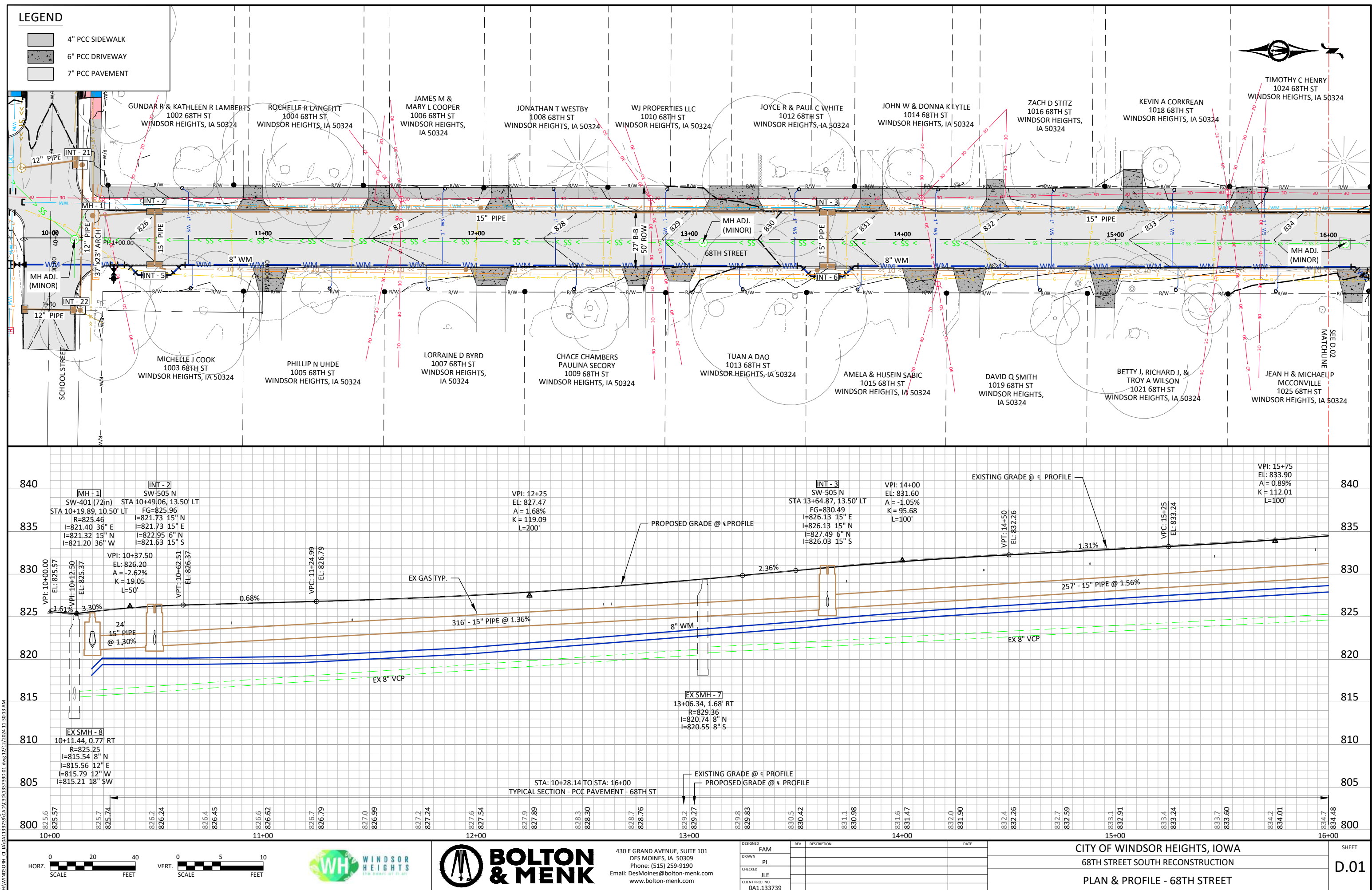
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68TH STREET SOUTH RECONSTRUCTION

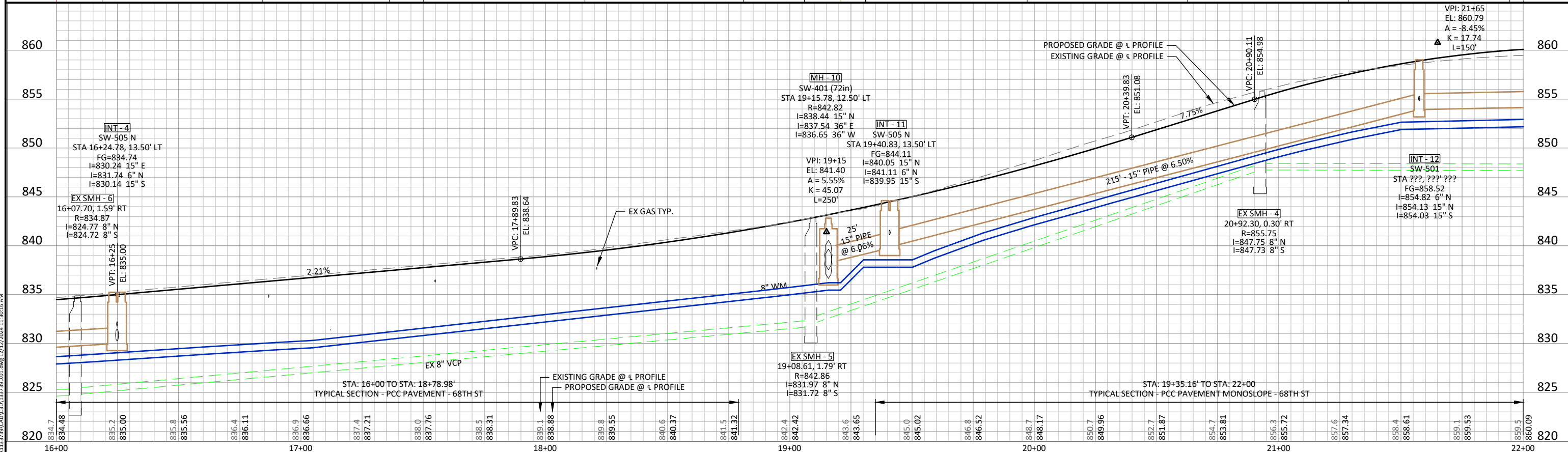
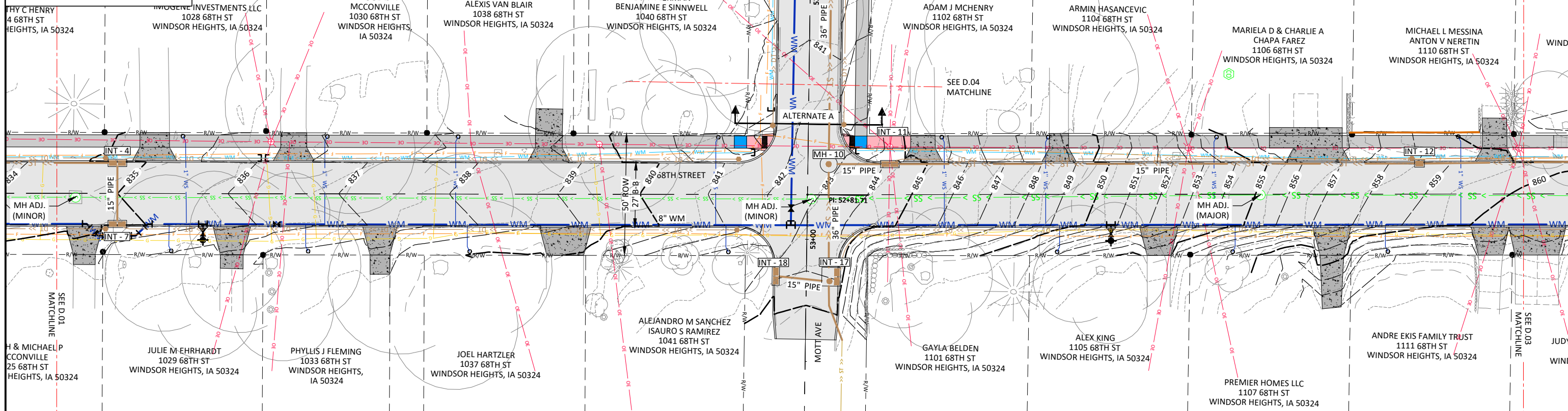
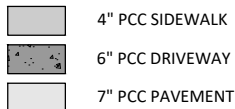
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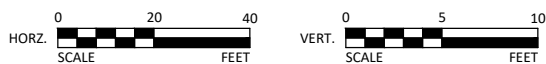
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LEGEND



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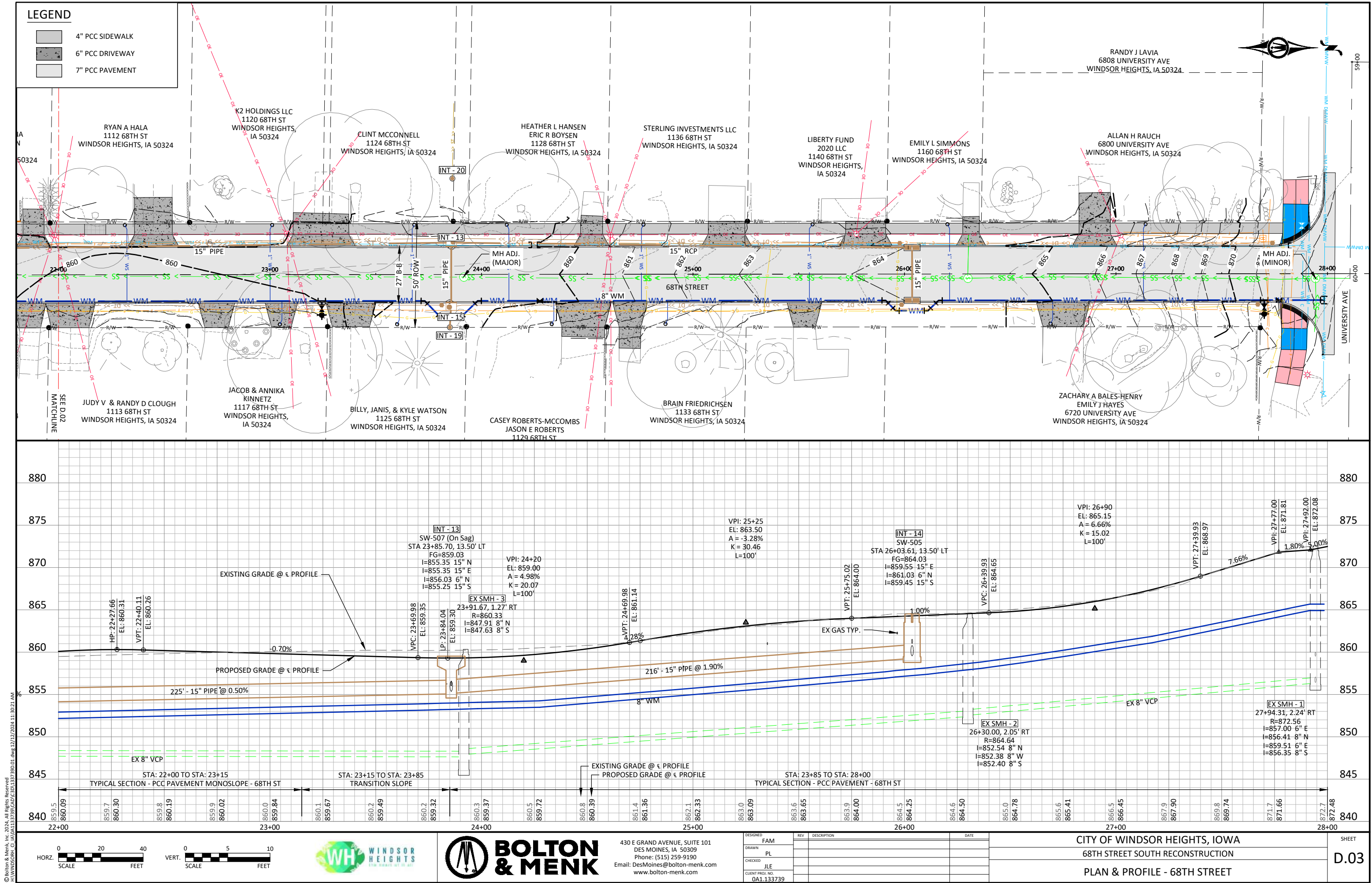


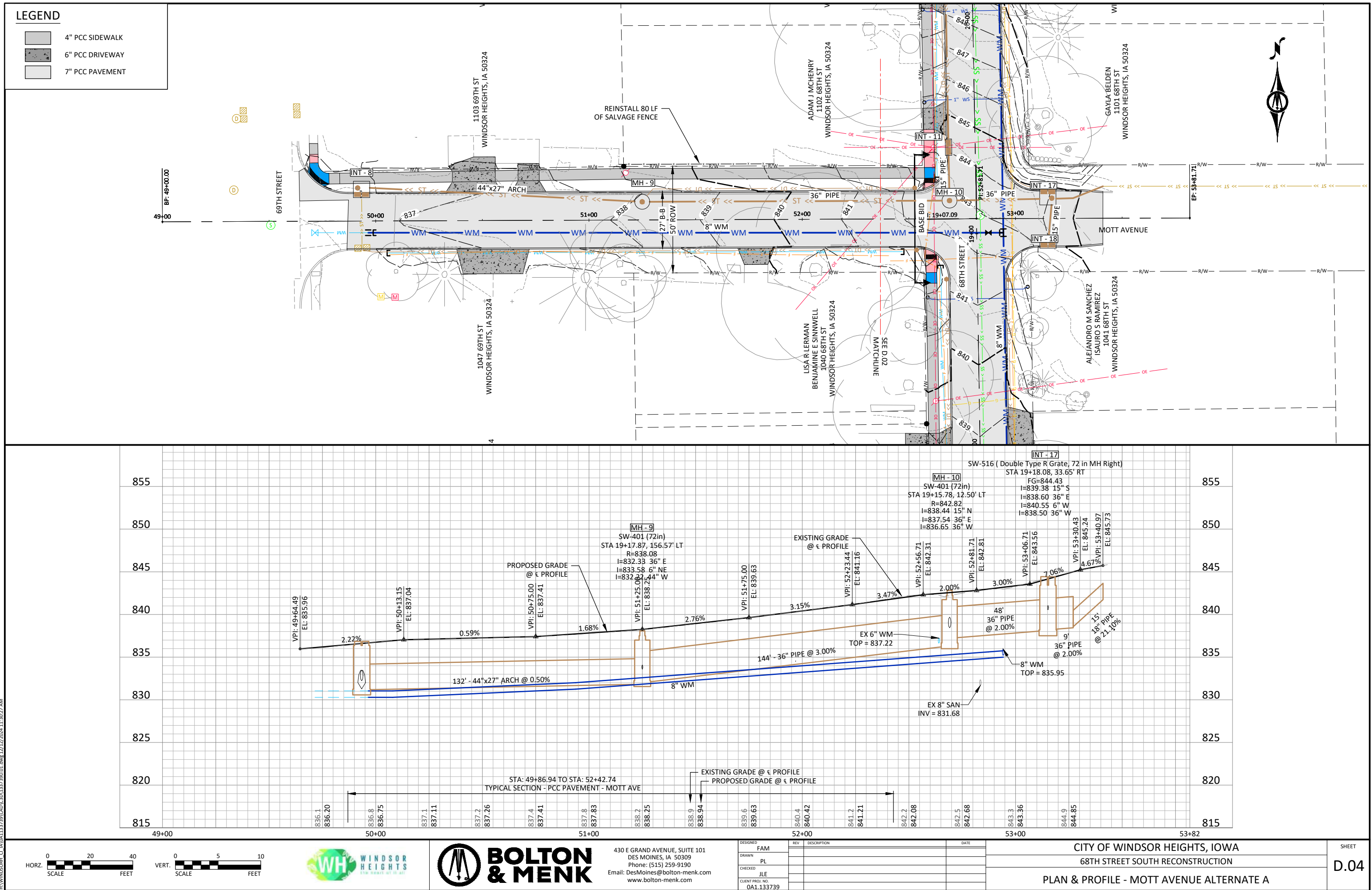
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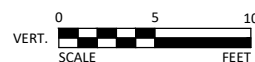
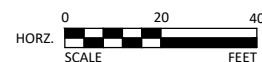
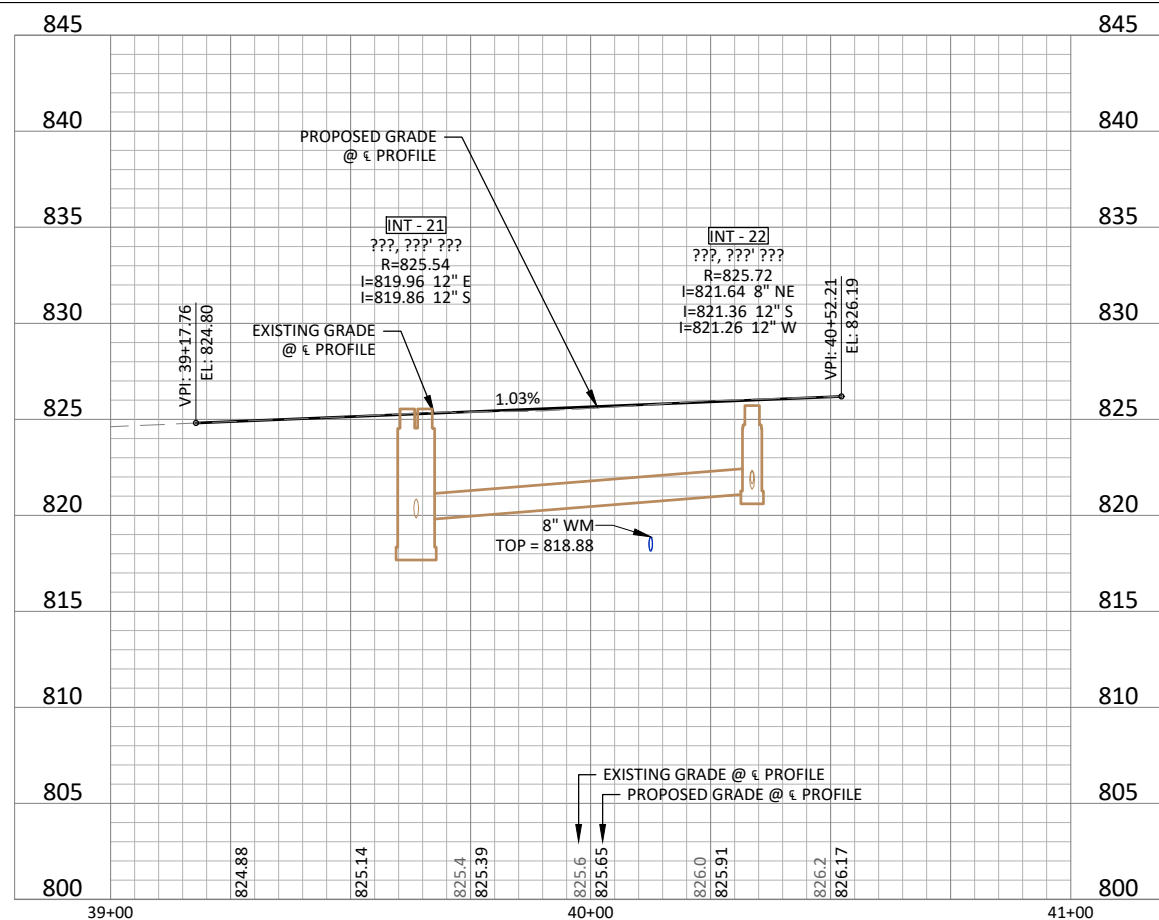
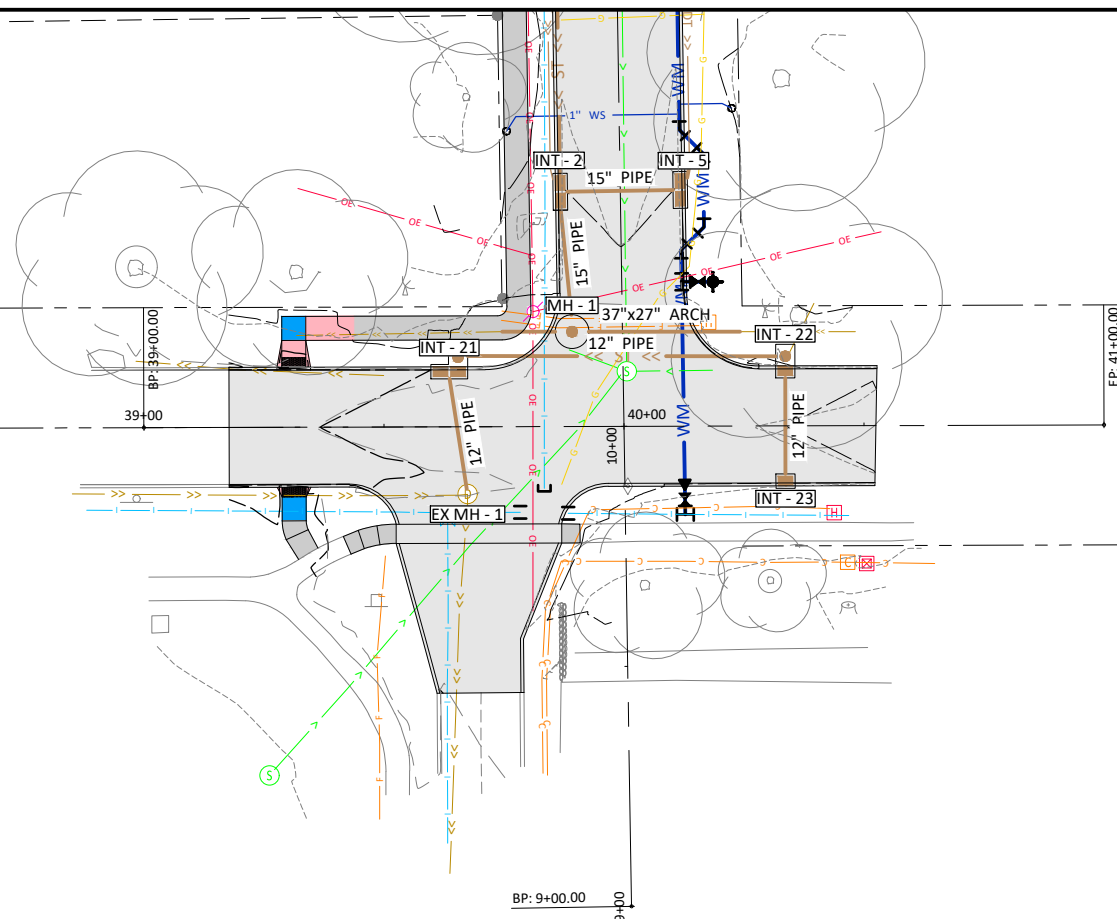
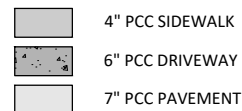
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68TH STREET SOUTH RECONSTRUCTION
PLAN & PROFILE - 68TH STREET

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PLAN & PROFILE - SCHOOL STREET

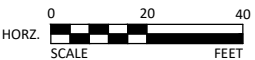
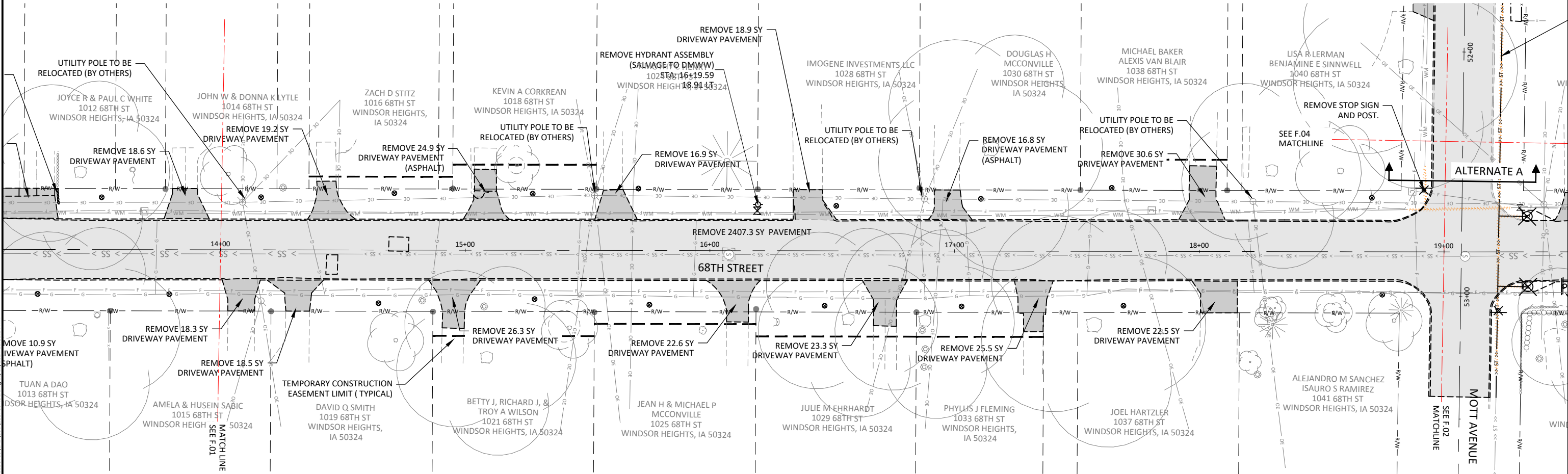
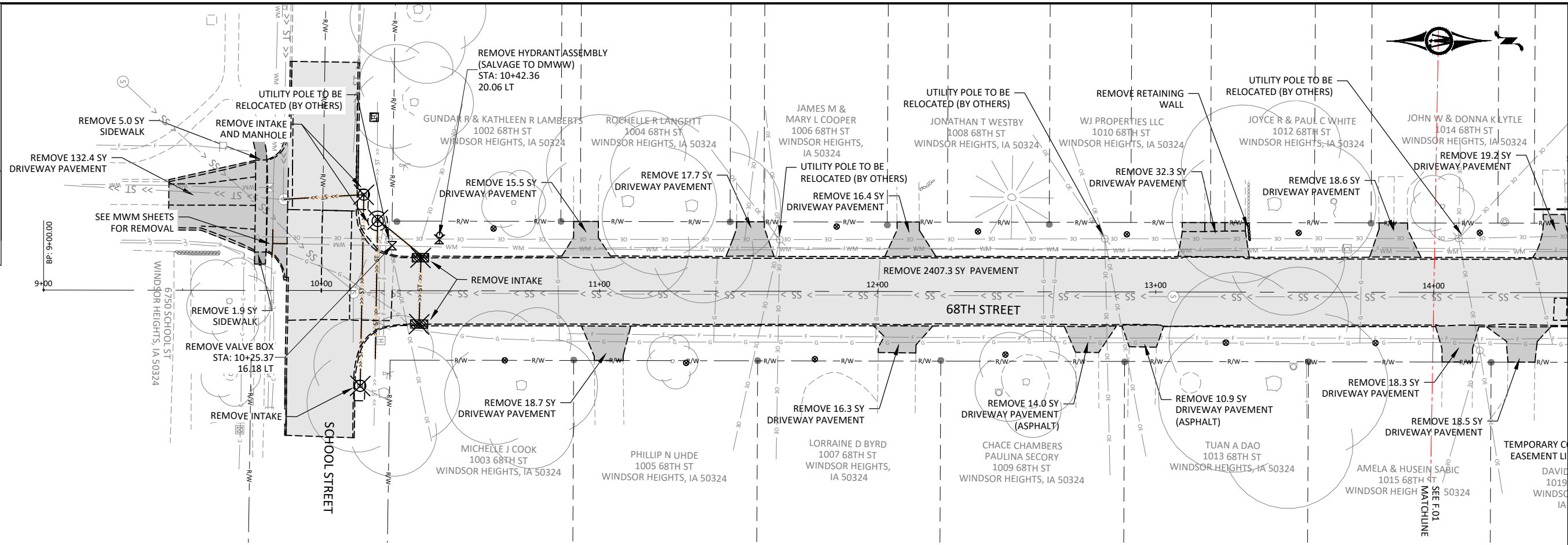
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REMOVAL LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY REMOVAL
- SIDEWALK REMOVAL
- PIPE REMOVAL
- ITEM REMOVAL

NOTE:
1. EXISTING WATER MAIN TO BE CAPPED AND ABANDONED IN PLACE. SPOT REMOVALS MAY BE NECESSARY TO INSTALL NEW WATER MAIN OR OTHER UNDERGROUND UTILITIES.
2. EXISTING SIGNS ON UTILITIES POLE TO BE REMOVE AND SALVAGE.

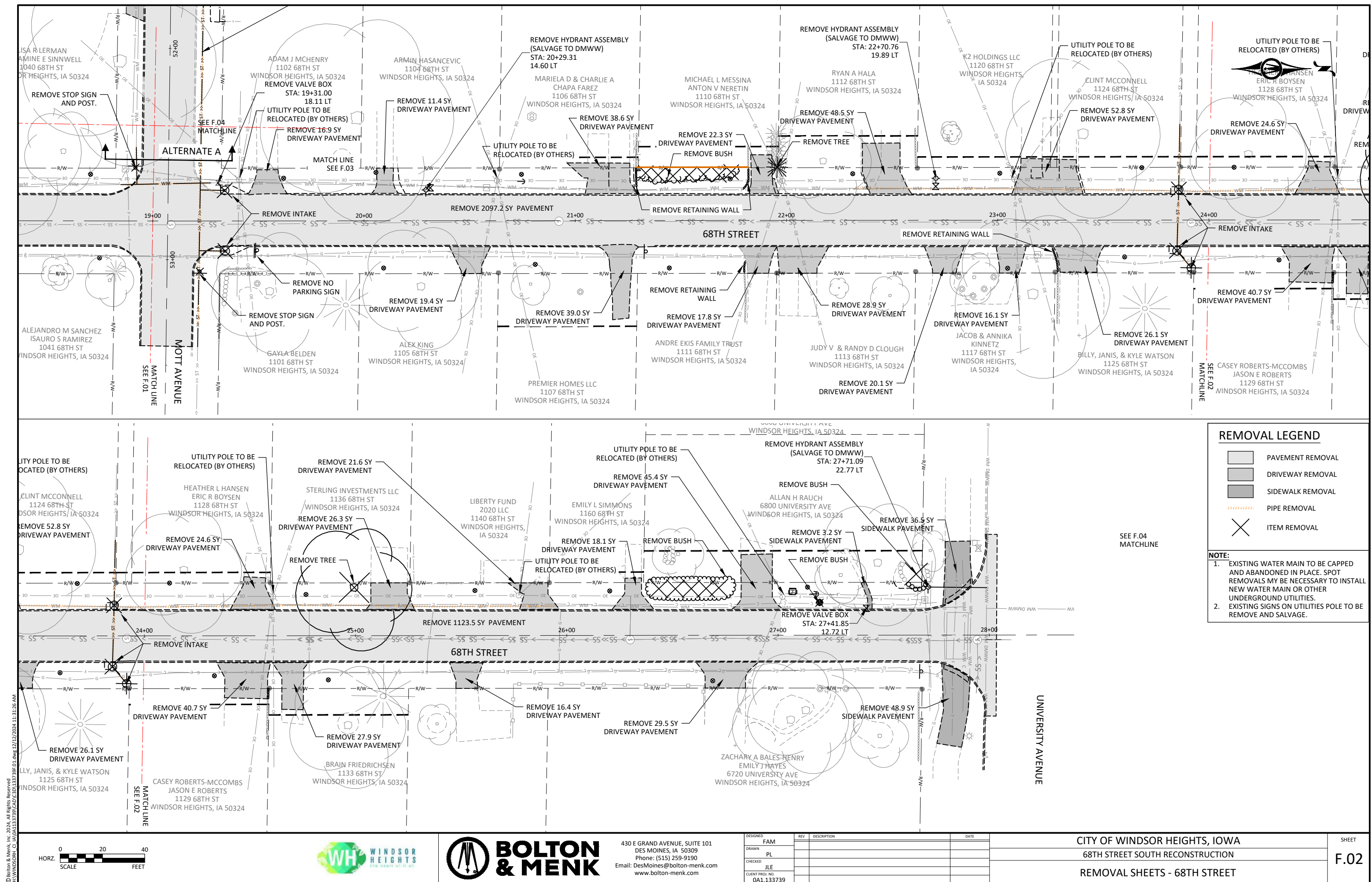


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REMOVAL SHEETS - 68TH STREET

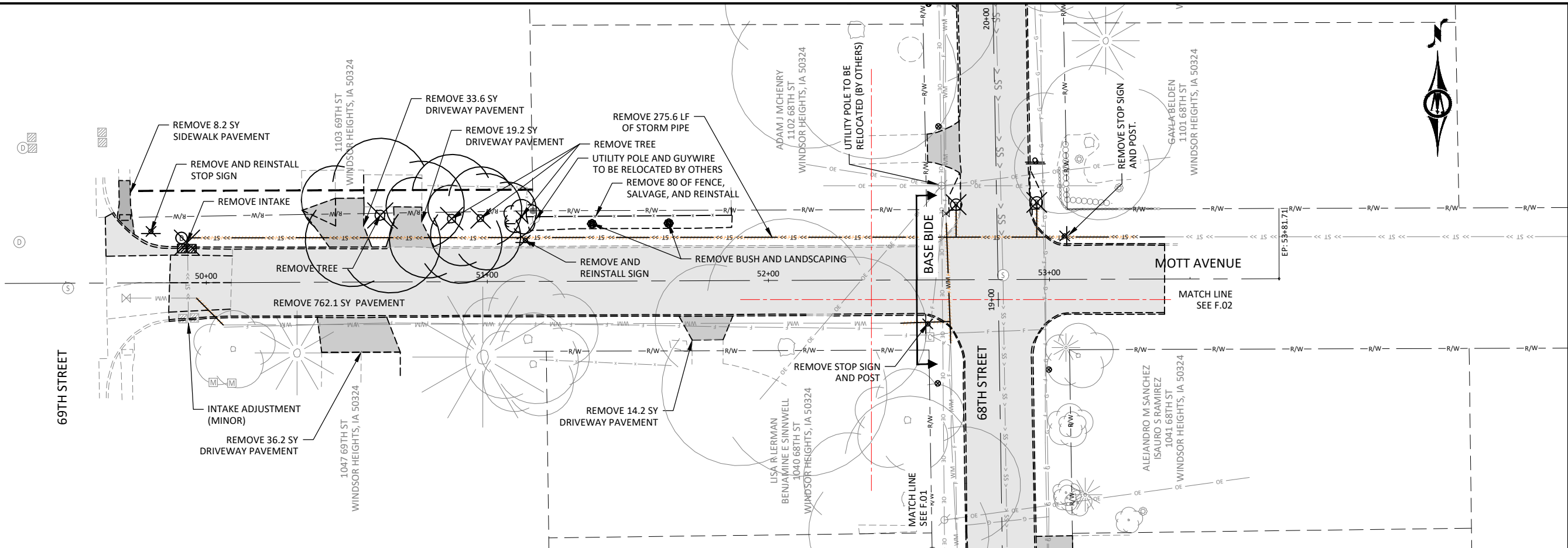
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REMOVAL LEGEND

- PAVEMENT REMOVAL
- DRIVEWAY REMOVAL
- SIDEWALK REMOVAL
- PIPE REMOVAL
- ITEM REMOVAL

NOTE:
1. EXISTING WATER MAIN TO BE CAPPED AND ABANDONED IN PLACE. SPOT REMOVALS MY BE NECESSARY TO INSTALL NEW WATER MAIN OR OTHER UNDERGROUND UTILITIES.
2. EXISTING SIGNS ON UTILITIES POLE TO BE REMOVE AND SALVAGE.



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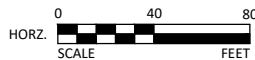
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
REMOVAL SHEET - MOTT AVENUE

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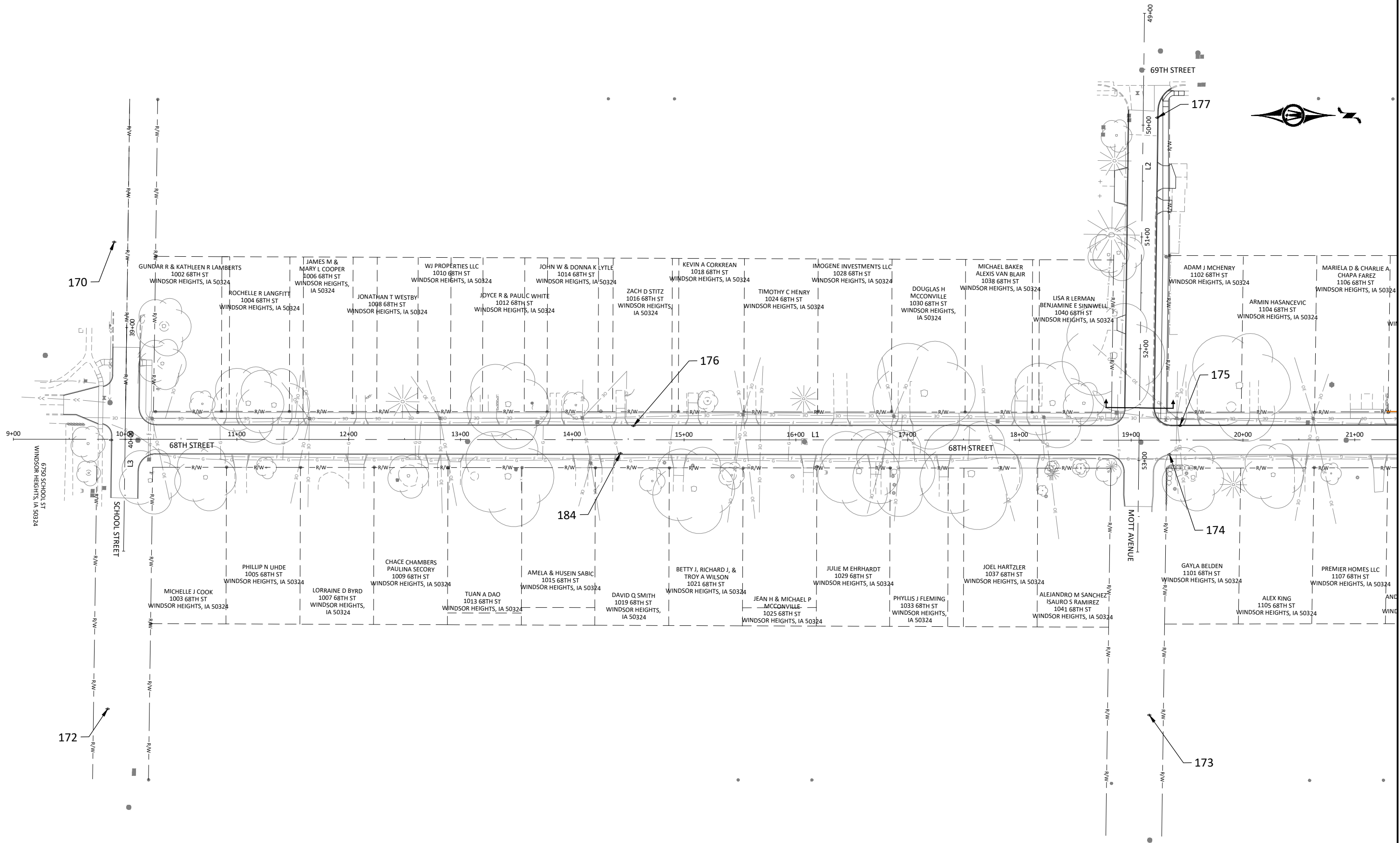


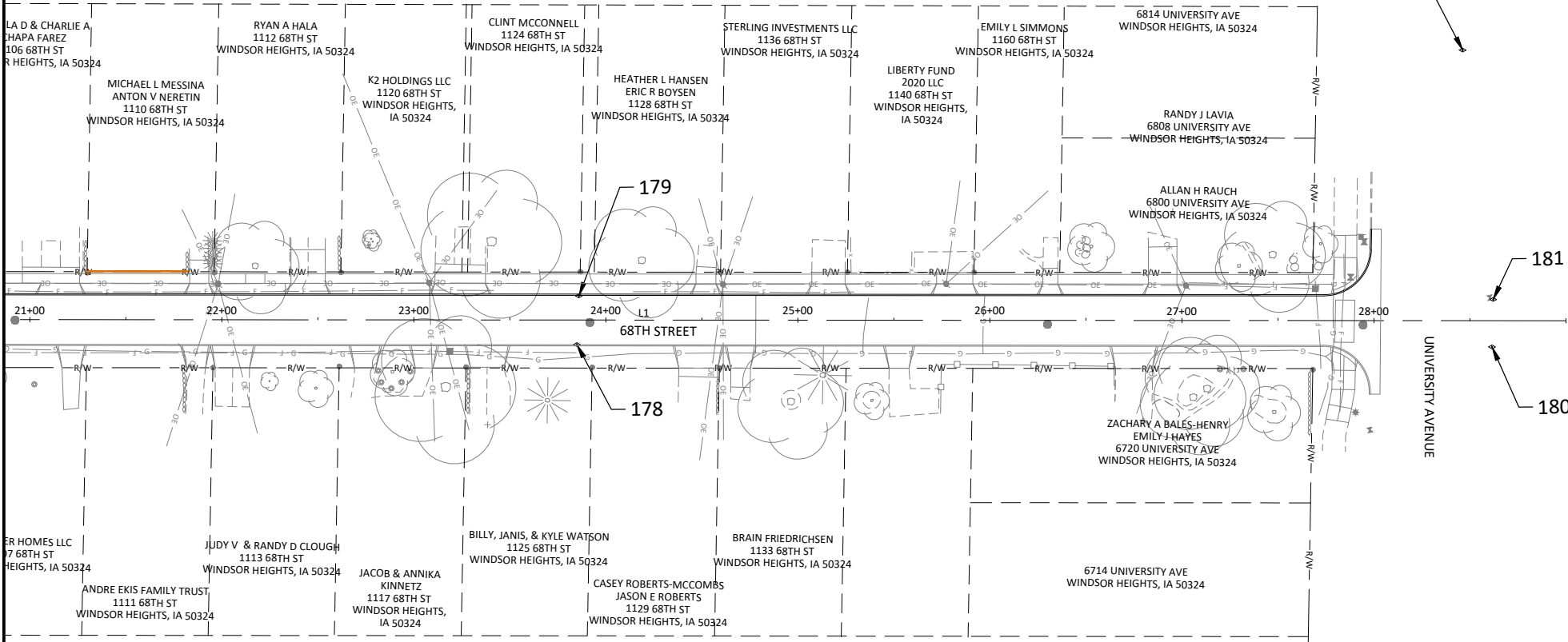
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68TH STREET SOUTH RECONSTRUCTION
ALIGNMENT AND CONTROL DATA

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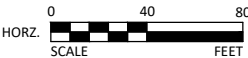
68TH ST - ALIGNMENT DATA						
LINE #	LENGTH	BEARING	START POINT	END POINT	STATION START	STATION END
L1	992.8945	N1° 03' 19.89"W	N: 582252.0487, E: 1582706.9343	N: 583244.7747, E: 1582688.6438	9+00	28+99.99

MOTT AVE - ALIGNMENT DATA						
LINE #	LENGTH	BEARING	START POINT	END POINT	STATION START	STATION END
L2	381.7114	N89° 46' 37.03"E	N: 582250.5627, E: 1582325.2258	N: 582252.0487, E: 1582706.9343	49+00	53+81.71

MOTT AVE - ALIGNMENT DATA						
LINE #	LENGTH	BEARING	START POINT	END POINT	STATION START	STATION END
L3	200.0000	N89° 50' 32.87"E	N: 581344.7921, E: 1582621.1895	N: 581345.3420, E: 1582821.1887	39+00	41+00

POINT LAT/LONG DATA				
POINT NUMBER	RAW DESCRIPTION	ELEVATION	NORTH	EAST
170	VFCP /CUT X BOC	823.930	581332.36	1582545.00
171	VFCP /CUT X BOC	825.774	581332.60	1582722.00
172	VFCP /CUT X BOC	828.067	581333.46	1582962.43
173	VFCP /CUT X BOC	852.561	582265.30	1582952.50
174	VFCP /CUT X INTAKE	844.500	582279.40	1582719.25
175	VFCP /CUT X INTAKE	844.409	582288.43	1582693.28
176	VFCP /CUT X BOC	832.517	581799.54	1582701.57
177	VFCP /CUT X BOC BETWEEN INTAKES	836.900	582263.53	1582418.34
178	VFCP /CUT X INTAKE	860.652	582730.04	1582710.93
179	VFCP /CUT X INTAKE	860.075	582730.55	1582685.54
180	VFCP /CUT X BOC	873.757	583206.56	1582703.01
181	VFCP /CUT X BOC	873.327	583206.71	1582678.24
182	VFCP /CUT X EOWK	870.279	583188.26	1582548.65
183	VFCP /CUT X LP BASE	880.324	583186.20	1583024.02
184	VFCP /CUT X BOC	832.161	581788.32	1582726.42

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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
ALIGNMENT AND CONTROL DATA

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CITY OF WINDSOR HEIGHTS, IOWA
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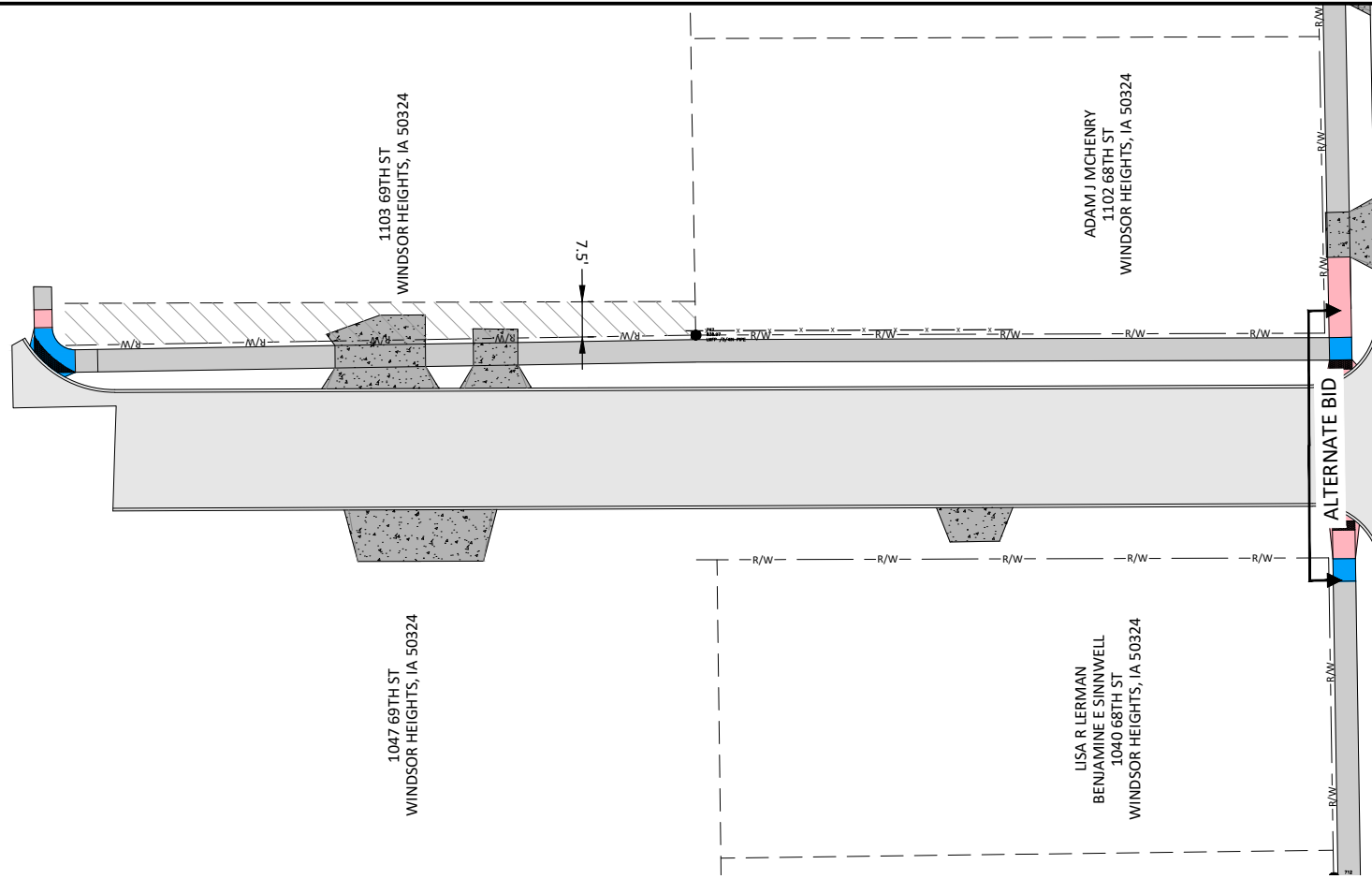
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LEGEND	
	TEMPORARY CONSTRUCTION EASEMENT

69TH STREET



68TH STREET

MOTT AVENUE



STAGING NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING PROPERTY OWNERS ALONG 68TH STREET A MINIMUM OF 7 CALENDAR DAYS PRIOR TO CHANGES IN ACCESS.
- 2. HAUL ROUTES SHALL BE APPROVED BY THE CITY PRIOR TO INITIATING HAULING.
- 3. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL ON THE PROJECT SITE. WATER SHALL BE USED AT THE REQUEST OF THE ENGINEER AND SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- 4. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF HAUL ROUTES AND TEMPORARY ACCESS SIDEWALKS OR DRIVES.

STAGING GENERAL NOTES

- 1. CONTRACTOR SHALL BEGIN WORK IN STAGE 1. SEE STAGING GENERAL NOTE 2 FOR PROGRESSION OF WORK AFTER STAGE 1.
- 2. IT IS RECOGNIZED THAT AS THE VARIOUS ACTIVITIES RELATED TO CONSTRUCTION PROGRESS, CERTAIN SITUATIONS MAY ARISE WHICH WILL PRECLUDE ADHERING TO THE ORIGINAL CONSTRUCTION SEQUENCE OR WHICH WOULD READILY LEND THEMSELVES TO MORE EFFICIENT STAGING OPERATIONS. SHOULD THE CONTRACTOR DESIRE TO DEVIATE FROM THE ORIGINAL PLAN, A WRITTEN ALTERNATIVE PLAN SHALL BE SUBMITTED TO THE CITY FOR APPROVAL A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PROPOSED CHANGES.
- 3. WORK EXECUTED BETWEEN OCTOBER 1 AND APRIL 1, THAT IMPACTS TRAFFIC, SHALL BE APPROVED BY THE CITY. ROADWAYS SHALL BE REPAVED AND REOPENED BEFORE THE FIRST SNOWFALL.
- 4. IT IS THE PROJECT INTENT TO COMPLETE THE DRIVEWAYS, SIDEWALK AND SURFACE RESTORATION IMMEDIATELY FOLLOWING THE COMPLETION OF THE ROADWAY PAVEMENT.
- 5. ALL SEGMENTS OF ROADWAY SHALL BE SWEEPED AND CLEANED FROM ALL DEBRIS. FLUSH THE SURFACE WITH WATER IF DUST IS AN ISSUE PRIOR TO OPENING.
- 6. REFER TO IOWA DOT TRAFFIC CONTROL STANDARD DRAWINGS TO HANDLE CERTAIN SITUATIONS DURING CONSTRUCTION. COORDINATE WITH THE ENGINEER.

STAGE 1 - TRAFFIC

- 1. SET UP TRAFFIC CONTROL FOR STAGE 1 AS SHOWN IN THE J SHEETS OR AS DEEMED NECESSARY.
- 2. CONTRACTOR TO DETERMINE NEEDED LANE CLOSURES ON UNIVERSITY AVENUE. PROVIDE LAYOUTS AND NOTICE TO CITY 48 HOURS PRIOR TO LANE CLOSURES.
- 3. SCHOOL STREET AND PUBLIC WORKS DRIVEWAY CLOSURE TO BE MINIMIZED. WHEN NO WORK IS ANTICIPATED WITHIN 2 DAYS, BOTH SHALL BE OPENED UP TO TRAFFICE.

STAGE 1 - CONSTRUCTION

- 1. CLOSE ROADWAY AFTER PROVIDING RESIDENT NOTICES.
- 2. TOPSOIL SALVAGE AND STOCKPILE OR HAUL OFF SITE.
- 3. INSTALL TEMPORARY SIDEWALK ON BOTH SIDES OF THE STREET FOR THE ENTIRE STAGE.
- 4. REMOVE EXISTING 68TH STREET ROADWAY.
- 5. PAVEMENT REMOVAL ON SCHOOL STREET AND PUBLIC WORKS DRIVEWAY TO OCCUR JUST PRIOR TO STREET GRADING OR AS REQUIRED TO INSTALL WATER MAIN AND STORM SEWER. SCHOOL STREET AND PUBLIC WORKS DRIVEWAY TO BE ROCKED TO ALLOW USE DURING CONSTRUCTION
- 6. GRADE, INSTALL WATER MAIN AND STORM SEWER, INSTALL SANITARY SEWER SERVICES
- 7. STAGE 2 MAY BEGIN ONCE ALL UNDERGROUND PIPE WORK IS COMPLETE AND AS APPROVED BY THE ENGINEER.
- 8. INSTALL SUBDRAIN, PAVE ROADWAY, PAVE DRIVEWAYS, BACKFILL, INSTALL SIDEWALK, AND SURFACE RESTORATION.
- 9. SCHOOL STREET AND PUBLIC WORKS DRIVEWAY TO BE GRADED AND POURED BACK IMMEDIATELY AFTER ALL UNDERGROUND WORK IS COMPLETED.
- 10. COORDINATE PUBLIC WORKS DRIVEWAY CLOSURE 7 CALENDAR DAYS PRIOR TO PAVEMENT REMOVAL.

STAGE 2 - TRAFFIC

- 1. SET UP TRAFFIC CONTROL FOR STAGE 2 AS SHOWN IN THE J SHEETS OR AS DEEMED NECESSARY.
- 2. CONTRACTOR TO DETERMINE NEEDED LANE CLOSURES ON UNIVERSITY AVENUE. PROVIDE LAYOUTS AND NOTICE TO CITY 72 HOURS PRIOR TO LANE CLOSURES.

STAGE 2 - CONSTRUCTION

- 1. CLOSE ROADWAY AFTER PROVIDING RESIDENT NOTICES.
- 2. TOPSOIL SALVAGE AND STOCKPILE OR HAUL OFF SITE.
- 3. INSTALL TEMPORARY SIDEWALK ON BOTH SIDES OF THE STREET FOR THE ENTIRE STAGE.
- 6. REMOVE EXISTING ROADWAY, GRADE, INSTALL WATER MAIN AND STORM SEWER, INSTALL SANITARY SEWER SERVICES, INSTALL SUBDRAIN, PAVE ROADWAY, PAVE DRIVEWAYS, BACKFILL, INSTALL SIDEWALK, AND SURFACE RESTORATION.
- 7. PAVEMENT REMOVALS ON UNIVERSITY AVENUE TO OCCUR JUST BEFORE WATER MAIN INSTALLATION.
- 8. UNIVERSITY AVENUE TO BE GRADED AND POURED BACK IMMEDIATELY AFTER ALL UNDERGROUND WORK IS COMPLETED TO MINIMIZE LANE CLOSURES.

STAGE 3 - TRAFFIC

- 1. SET UP TRAFFIC CONTROL FOR STAGE 2 AS SHOWN IN THE J SHEETS.

STAGE 3 - CONSTRUCTION

- 1. CLOSE ROADWAY AFTER PROVIDING RESIDENT NOTICES.
- 2. TOPSOIL SALVAGE AND STOCKPILE OR HAUL OFF SITE.
- 3. INSTALL TEMPORARY SIDEWALK ON BOTH SIDES OF THE STREET FOR THE ENTIRE STAGE.
- 4. INSTALL TEMPORARY DRIVEWAY OFF 69TH STREET.
- 5. REMOVE EXISTING ROADWAY, GRADE, INSTALL WATER MAIN AND STORM SEWER, INSTALL SUBDRAIN, PAVE ROADWAY, PAVE DRIVEWAYS, BACKFILL, INSTALL SIDEWALK, AND SURFACE RESTORATION.

TRAFFIC CONTROL PLAN

- 1. CONTRACTOR TO VERIFY TRAFFIC CONTROL DEVICES AT A MINIMUM OF ONCE A DAY OR IMMEDIATELY AFTER A WEATHER EVENT. CORRECT AS NECESSARY.
- 2. THE CONTRACTOR SHALL PROVIDE 48 HOURS STREET/LANE CLOSURE NOTICE TO THE CITY.
- 3. TRAFFIC CONTROL SIGNS INSTALLED FOR MORE THAN THREE DAYS SHALL BE POST MOUNTED.

THE CONTRACTOR SHALL EMPLOY SOUND PRACTICES OF SAFETY AND TRAFFIC CONTROL. THESE METHODS AND PRACTICES SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

- 1. THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL WITH OTHER PROJECTS.
- 2. TRAFFIC CONTROL ON THIS PROJECT SHALL BE IN ACCORDANCE WITH SPECIFIC LAYOUTS ON THESE PLANS. TRAFFIC CONTROL DEVICES, PROCEDURES, AND LAYOUTS SHALL BE PER CURRENT PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC), CHAPTER 130.
- 3. AT FULL CLOSURE LOCATIONS, CONTRACTOR SHALL PROVIDE ENOUGH TYPE III BARRICADES TO COMPLETELY CROSS THE ROADWAY.
- 4. SIGN WASHING SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND REQUIRED AS DIRECTED BY THE PROJECT ENGINEER.

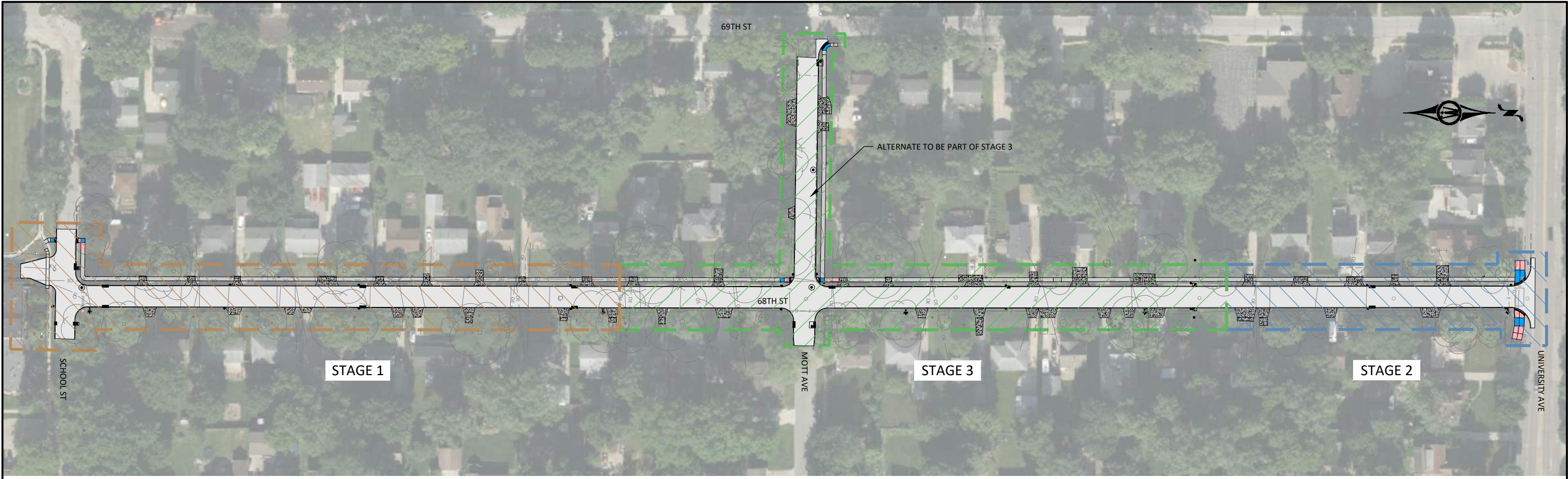
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CITY OF WINDSOR HEIGHTS, IOWA	J.01
68TH STREET SOUTH RECONSTRUCTION	
STAGING AND TRAFFIC CONTROL NOTES	



STAGING NOTES:

- 1. THE CONTRACTOR IS TO CONSTRUCT THE PROJECT IN 3 STAGES. THE CONTRACTOR SHALL PROVIDE A STAGING PLAN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 2. ANY ADJUSTMENT TO THE STAGING/TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF WINDSOR HEIGHTS AND ENGINEER ON RECORD A MINIMUM OF TWO WEEKS IN ADVANCE.
- 3. THE CONTRACTOR SHALL REQUEST, IN WRITING, PERMISSION TO START EACH STAGE OF THE PROJECT AND SUBMIT AN UPDATED SCHEDULE FOR EACH STAGE UNDER CONSTRUCTION
- 4. THE ROAD SHALL BE SCRAPPED AND BROOMED PRIOR TO OPENING THE STREET TO TRAFFIC.
- 5. SITE RESTORATION SHALL BE COMPLETED PRIOR TO NEXT STAGE STARTING OR APPROVED BY ENGINEER.
- 6. REFER TO WATER MAIN PLANS FOR WATER MAIN PHASING.
- 7. WATER MAIN DESIGN ASSUMES WATER MAIN WILL BE INSTALLED STARTING AT SCHOOL STREET AND ENDING AT UNIVERSITY AVENUE.
- 8. PROPOSED CHANGES TO STAGING MUST BE REVIEW BY DMWW.

MAINTAINING MOBILITY FOR HANDICAPPED RESIDENTS:

- 1. DUE TO THE MOBILITY ISSUES OF SEVERAL RESIDENTS ALONG THE CORRIDOR, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN RUBBER MATTING PROVIDED BY THE CITY AND INSTALLED AS DIRECTED BY ENGINEER.
- 2. CONTRACTOR TO MAINTAIN TEMPORARY SIDEWALK AND DRIVEWAY GRADING.

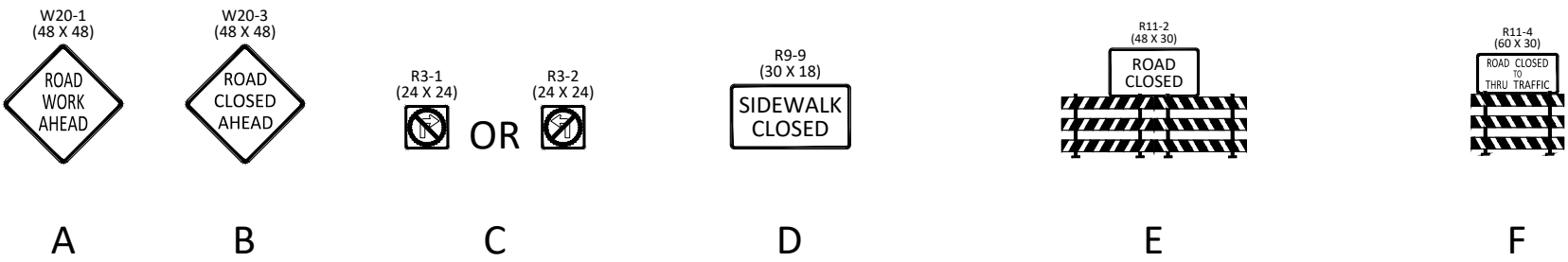
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68TH STREET SOUTH RECONSTRUCTION	
STAGING AND TRAFFIC CONTROL - 68TH STREET	



- TRAFFIC CONTROL NOTES:
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 - SUBMIT DETAILED TRAFFIC CONTROL PLANS FOR ALL WORK LOCATIONS FOR APPROVAL PRIOR TO PRECONSTRUCTION MEETING. ALL TRAFFIC CONTROL PLANS, DEVICES, AND PROCEDURES SHALL CONFORM TO THE CURRENT VERSION OF THE MUTCD.
 - ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR.
 - PORTABLE MOUNTINGS FOR WARNING SIGNS MAY BE USED FOR TEMPORARY INSTALLATIONS OF 3 DAYS OR LESS. ALL OTHER TRAFFIC CONTROL SHALL BE POST MOUNTED.
 - THE PROPOSED SIGNAGE MAY BE MODIFIED TO MEET FIELD CONDITIONS, PREVENT OBSTRUCTIONS AND TO ACCOMMODATE CONSTRUCTION SCHEDULING UPON APPROVAL OF THE PROJECT ENGINEER.
 - ORANGE SAFETY FENCE SHALL BE PLACED ENTIRELY ACROSS THE TRAVELED PORTION OF THE ROADWAY AT ALL LOCATIONS WHERE TYPE III BARRICADES WITH "ROAD CLOSED" SIGNS ARE USED.
 - SIGNAGE MAINTENANCE SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND REQUIRED AS DIRECTED BY THE ENGINEER.
 - ALL CONSTRUCTION SIGNS SHALL BE DIAMOND GRADE FLUORESCENT ORANGE OR WHITE V.I.P. SHEETING OR EQUIVALENT. (IOWA DOT TYPE VII SHEETING).
 - THE CONTRACTOR SHALL REMOVE AND REINSTALL ALL CITY SIGNS THAT WILL BE IN THE WAY.
 - AT THE TIME OF INITIAL SETUP OR AT THE TIME OF MAJOR STAGE CHANGES, 100 PERCENT OF EACH TYPE OF DEVICE (SIGNS, CONES, TUBULAR MARKERS, DRUMS, BARRICADES, VERTICAL PANELS, CHANGEABLE MESSAGE SIGNS, AND PAVEMENT MARKINGS) SHALL BE CLASSIFIED AS ACCEPTABLE BY THE REQUIREMENT OF THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA), "QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES 1992." THROUGHOUT THE DURATION OF THE PROJECT, UNACCEPTABLE DEVICES OR SITUATIONS THAT ARE FOUND ON THE JOBSITE AS DETERMINED BY BEFORE MENTIONED PUBLICATION SHALL BE REPLACED OR THE SITUATION CORRECTED WITHIN 12 HOURS OF INITIAL NOTIFICATIONS BY THE ENGINEER.
 - THE LOCATION FOR STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NONWORKING HOURS SHALL BE AS APPROVED BY THE ENGINEER, AND THE CONTRACTOR SHALL PROVIDE A WRITTEN AGREEMENT WITH THE PROPERTY OWNER.



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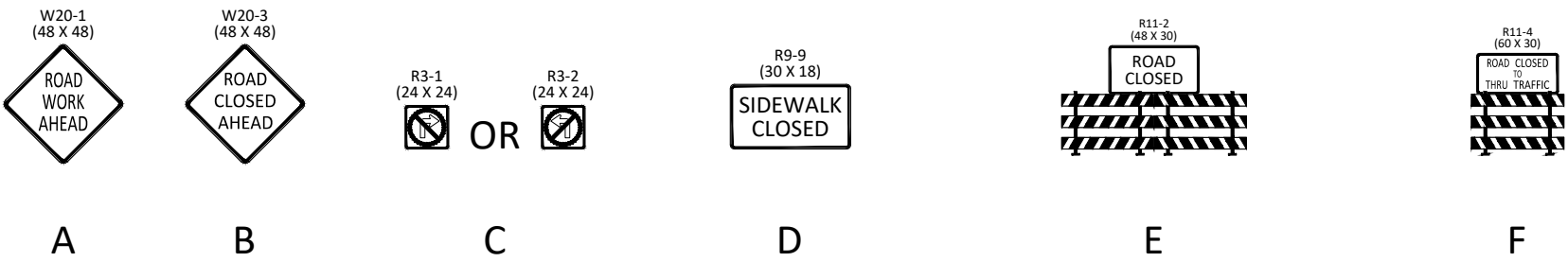


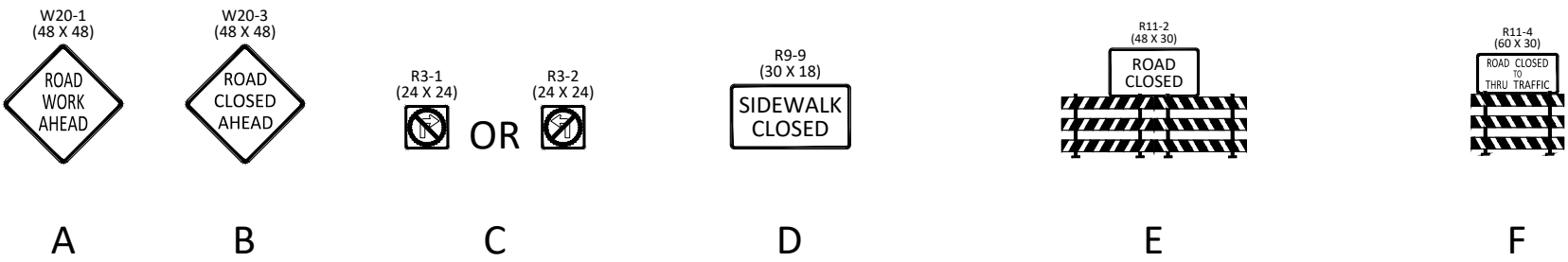
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68TH STREET SOUTH RECONSTRUCTION
TRAFFIC CONTROL - 68TH STREET

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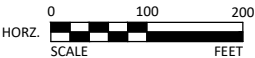




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 - PORTABLE MOUNTINGS FOR WARNING SIGNS MAY BE USED FOR TEMPORARY INSTALLATIONS OF 3 DAYS OR LESS. ALL OTHER TRAFFIC CONTROL SHALL BE POST MOUNTED.
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 - THE LOCATION FOR STORAGE OF EQUIPMENT BY THE CONTRACTOR DURING NONWORKING HOURS SHALL BE AS APPROVED BY THE ENGINEER, AND THE CONTRACTOR SHALL PROVIDE A WRITTEN AGREEMENT WITH THE PROPERTY OWNER.



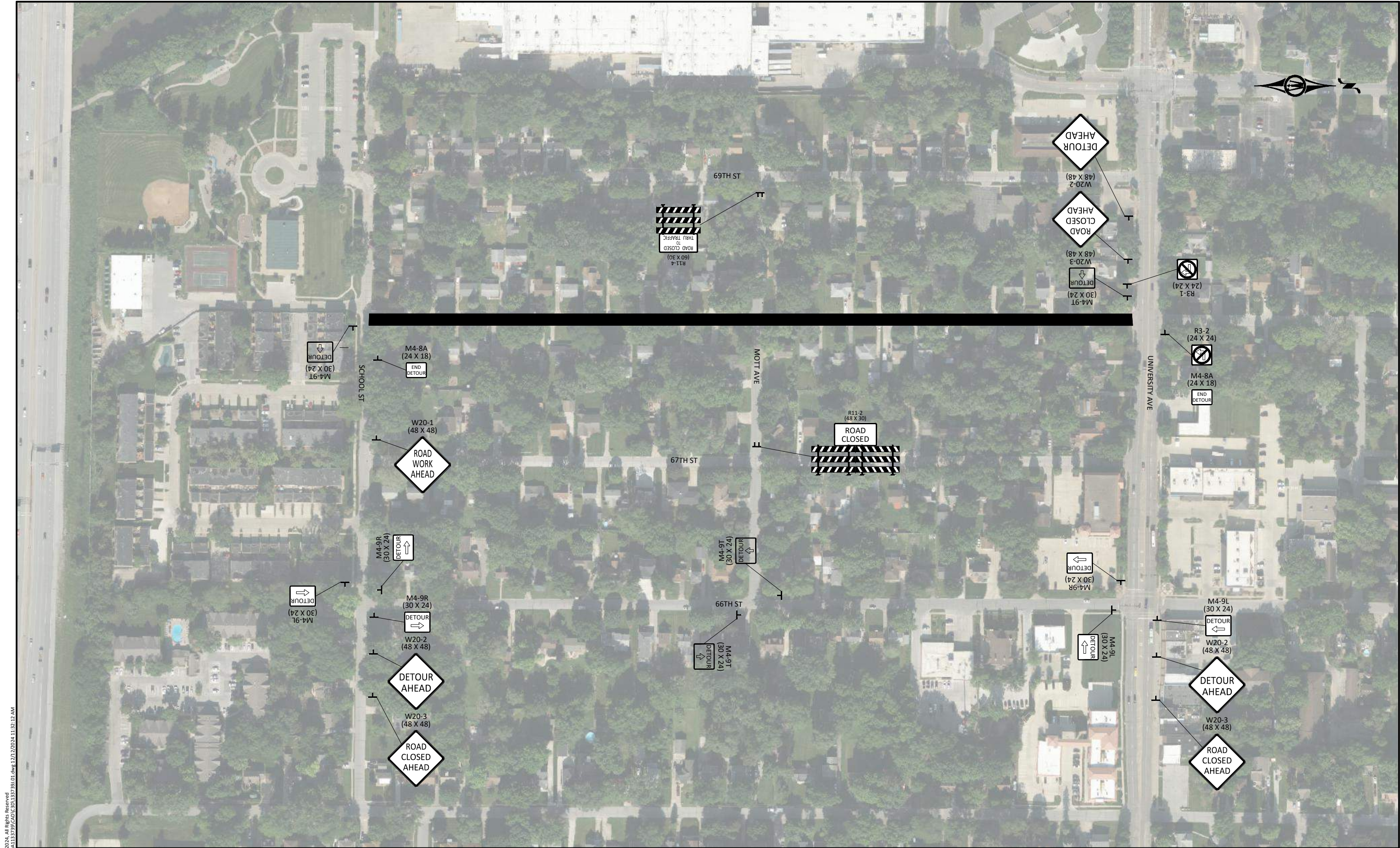
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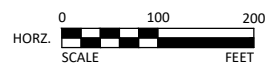
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68TH STREET SOUTH RECONSTRUCTION	J.05
TRAFFIC CONTROL - 68TH STREET	



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68TH STREET SOUTH RECONSTRUCTION

TRAFFIC CONTROL - 68TH STREET - DETOUR

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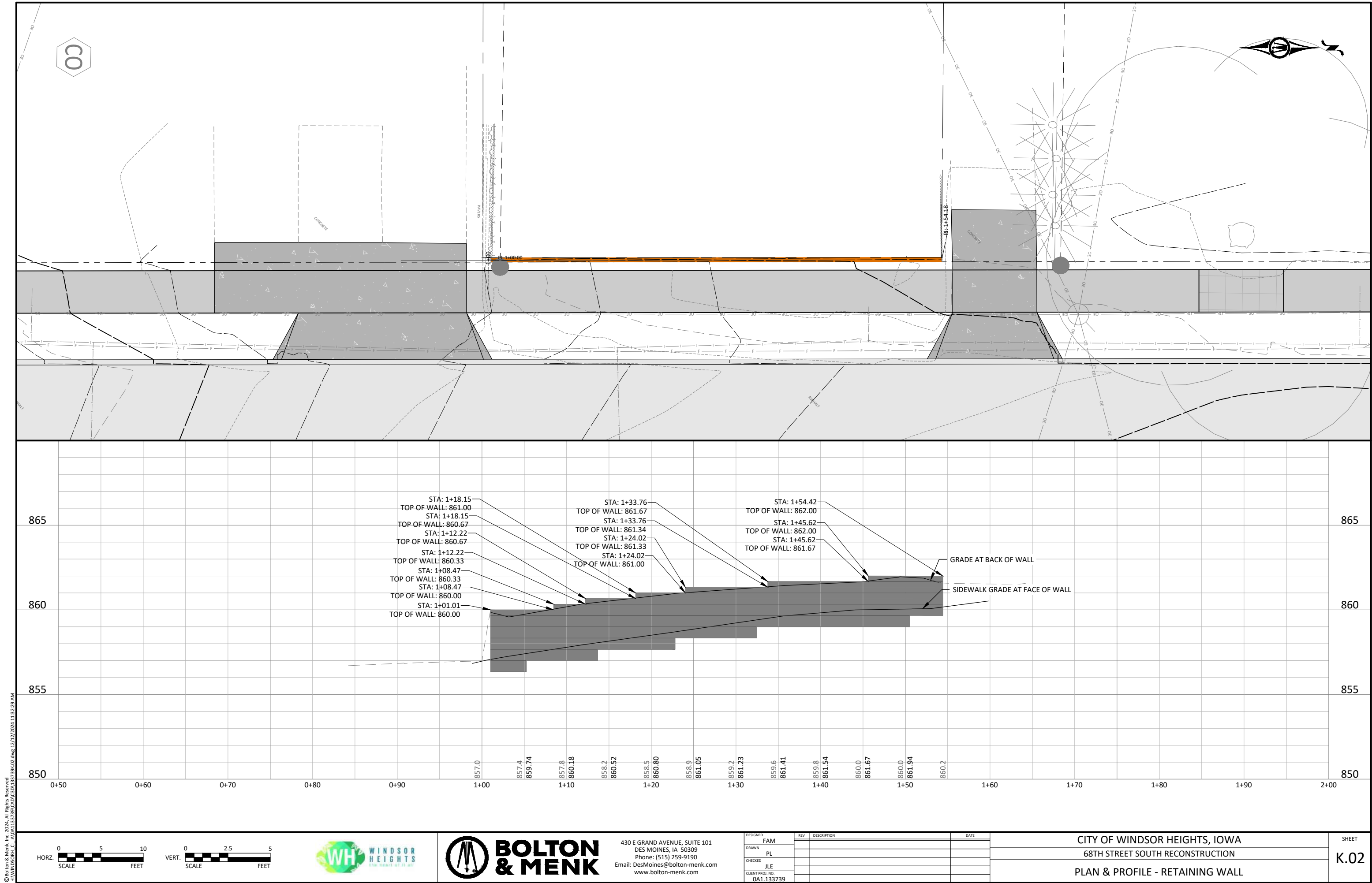


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RETAINING WALL DETAILS	



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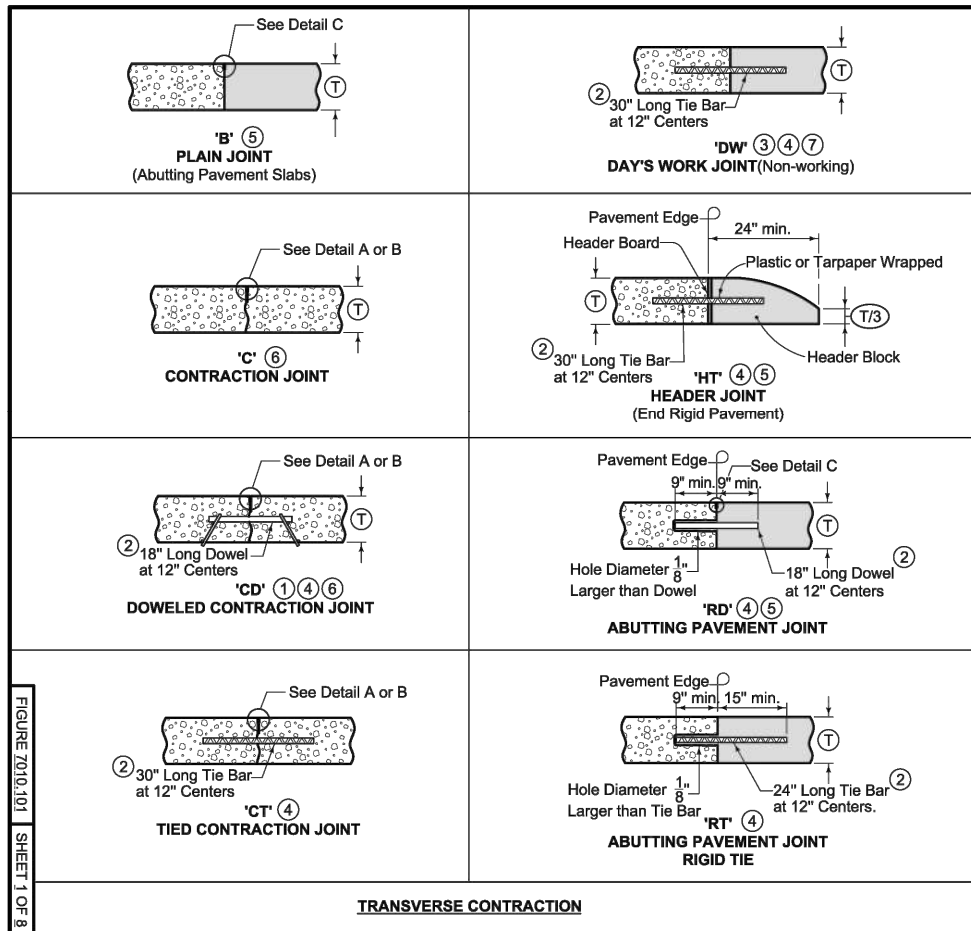
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
PLAN & PROFILE - RETAINING WALL

SHEET
K.02

FIGURE 7010.101 SHEET 1 OF 8



- See dowel assemblies for fabrication details.
- See Bar Size Table for Contraction Joints on Sheet 2.
- Locate 'DW' joint at a mid-panel location between future 'C' or 'CD' joints. Place no closer than 5 feet to a 'C' or 'CD' joint.
- Place bars within the limits shown under dowel assemblies.
- Edge with 1/8 inch tool for length of joint. For HT joint, remove header block and board when second slab is placed.
- Unless specified otherwise, use 'CD' transverse contraction joints in mainline pavement when T is greater or equal to 8 inches. Use 'C' joints when T is less than 8 inches.
- 'RT' joint may be used in lieu of 'DW' joint at the end of the days work. Remove any pavement damaged due to the drilling at no additional cost to the Contracting Authority.

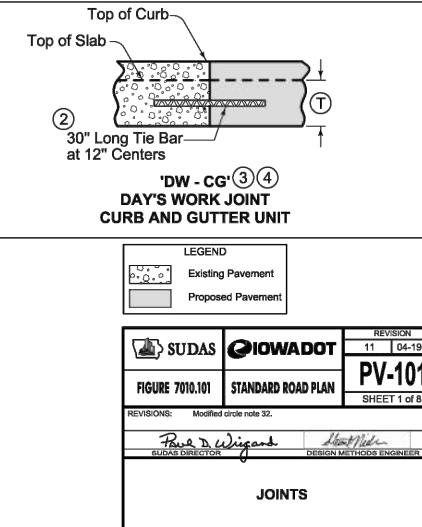
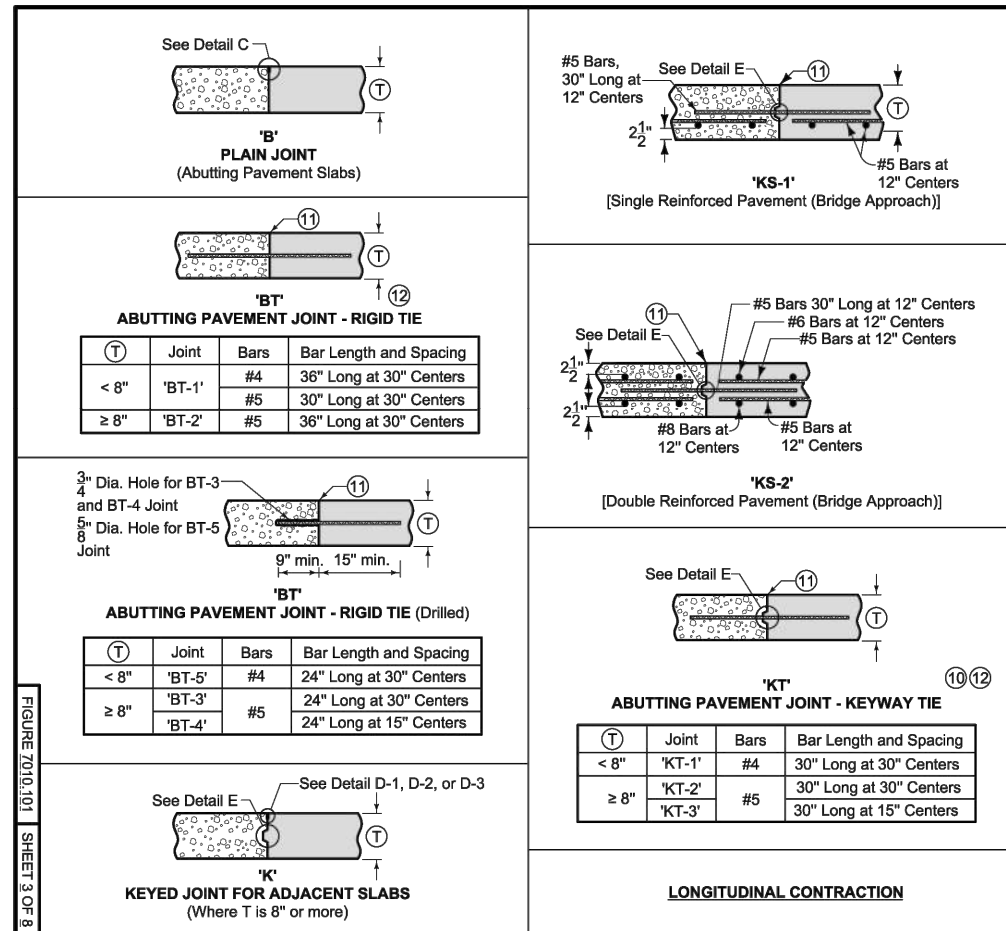


FIGURE 7010.101 SHEET 3 OF 8



- Bar supports may be necessary for fixed form paving to ensure the bar remains in a horizontal position in the plastic concrete.
- The following joints are interchangeable, subject to the pouring sequence:
'BT-1', 'L-1', and 'KT-1'
'KT-2' and 'L-2'
'KT-3' and 'L-3'

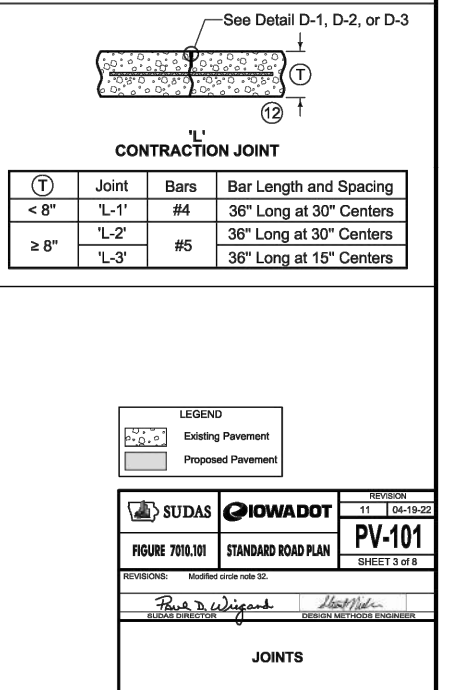
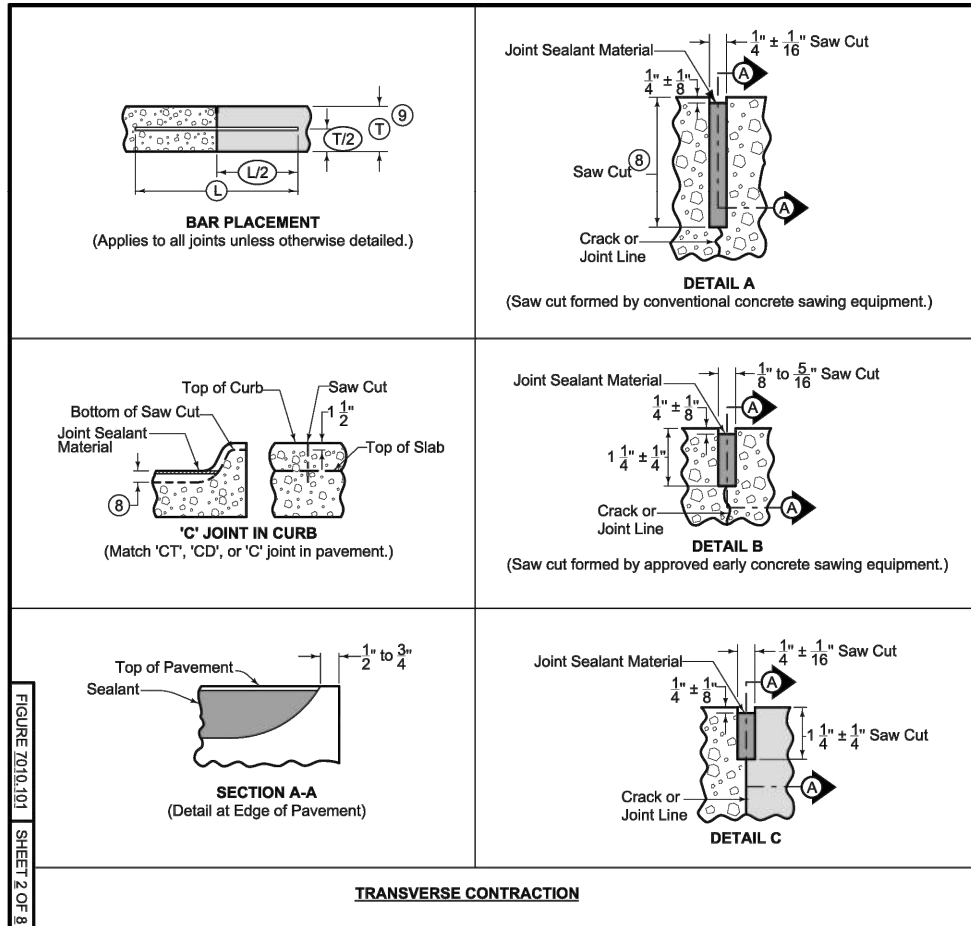


FIGURE 7010.101 SHEET 2 OF 8



- Saw 'CD' joint to a depth of $T/3 \pm 1/4"$; saw 'C' joint to a depth of $T/4 \pm 1/4"$.
- When tying into old pavement, T represents the depth of sound PCC.

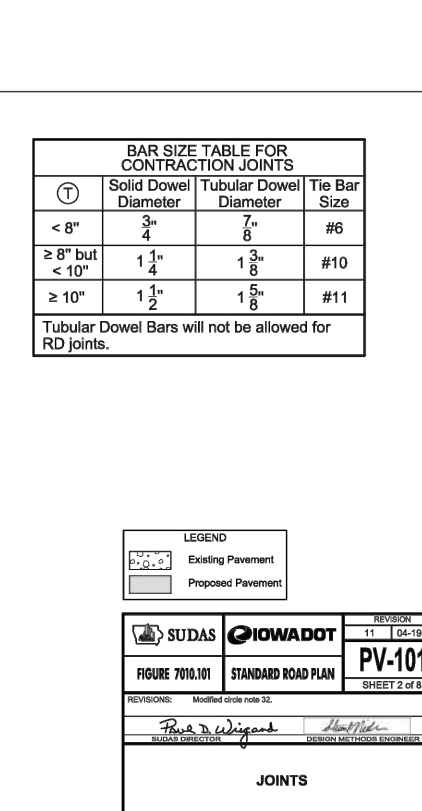
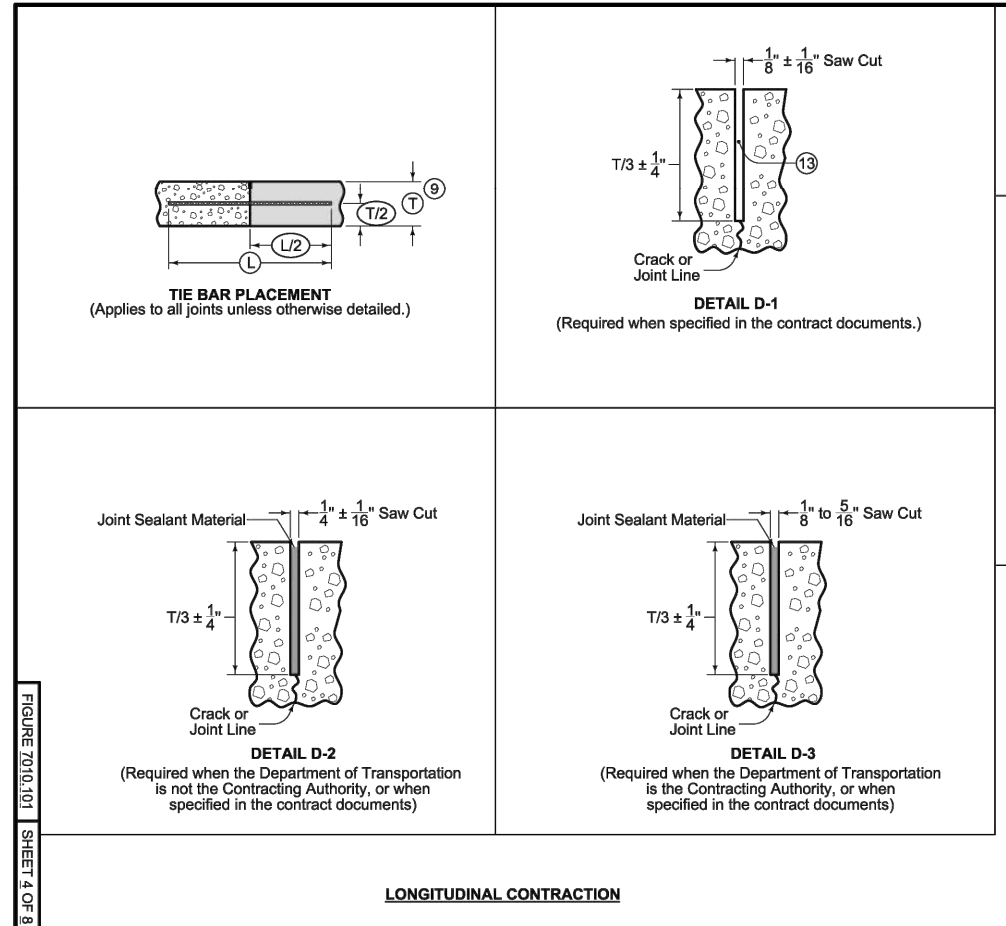
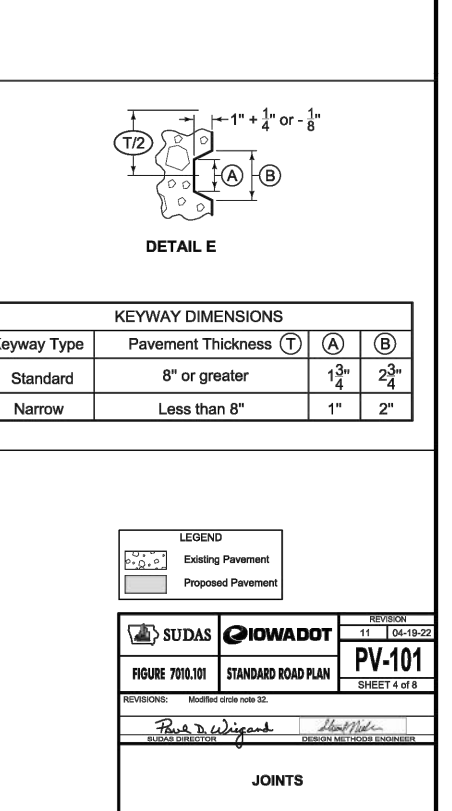
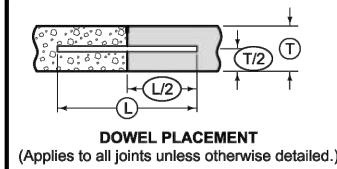


FIGURE 7010.101 SHEET 4 OF 8

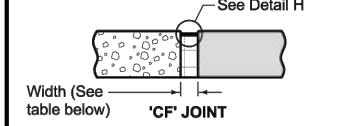


- When tying into old pavement, T represents the depth of sound PCC.
- Sealant or cleaning not required.





DOWEL PLACEMENT
(Applies to all joints unless otherwise detailed.)



TYPE	WIDTH
CF-1	2"
CF-2	2 1/2"
CF-3	3"
CF-4	3 1/2"

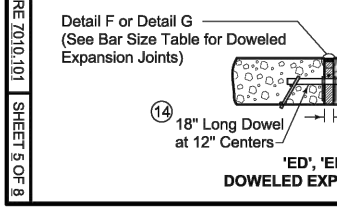
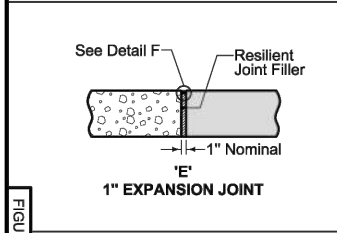
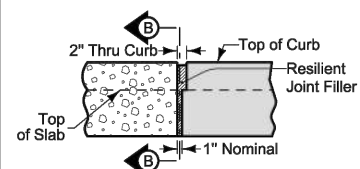
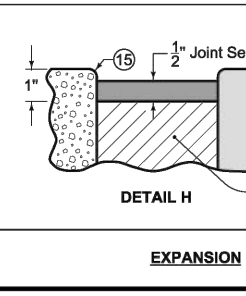
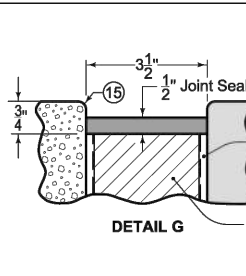
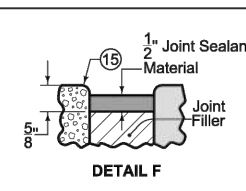
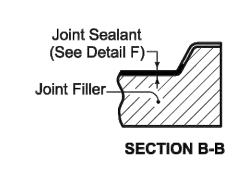
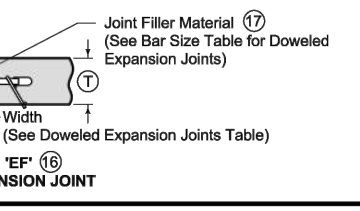
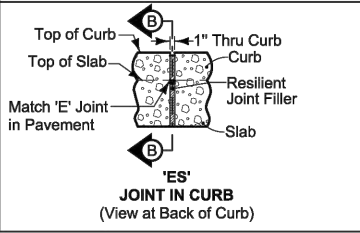
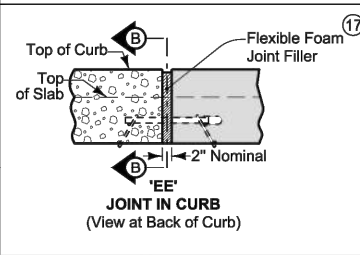


FIGURE 7010.101 SHEET 5 OF 8



JOINT IN CURB
(View at Back of Curb)



- 14 See Bar Size Table for Doweled Expansion Joints.
- 15 Edge with 1/4 inch tool for length of joint indicated if formed; edging not required when cut with diamond blade saw.
- 16 See Dowel Assemblies for fabrication details and placement limits. Coat the free end of dowel bar to prevent bond with pavement. At intake locations, dowel bars may be cast-in-place.
- 17 Predrill or preform holes in joint material for appropriate dowel size.
- 18 Compact tire buffings by spading with a square-nose shovel.

DOWELED EXPANSION JOINTS		
TYPE	WIDTH	FILLER MATERIAL (17)
ED	1"	Resilient (Detail F)
EE	2"	Flexible Foam (Detail F)
EF	3 1/2"	Flexible Foam (Detail G)

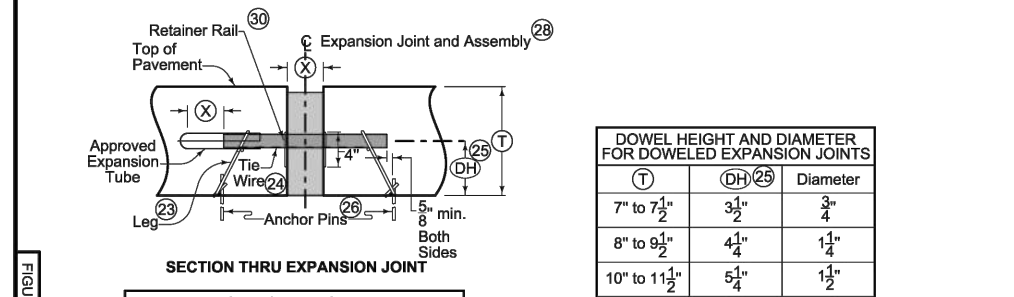
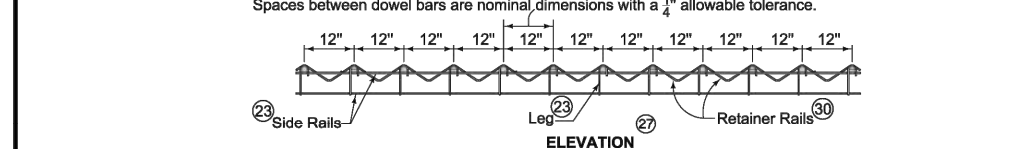
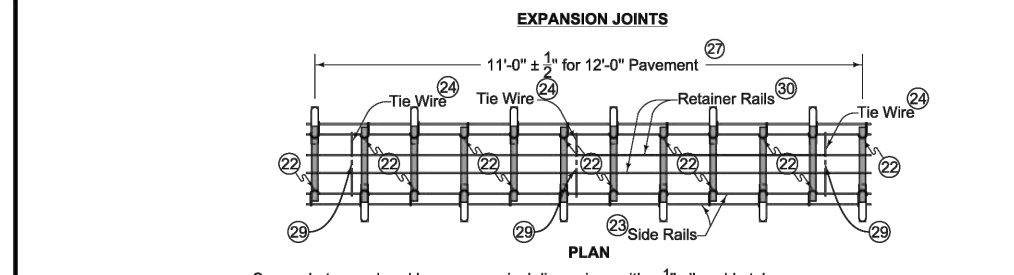
BAR SIZE TABLE FOR DOWELED EXPANSION JOINTS			
Dowel Diameter	< 8"	≥ 8" but < 10"	≥ 10"
	3/4"	1 1/4"	1 1/2"

Tubular Dowel Bars will not be allowed for expansion joints.

LEGEND	
	Existing Pavement
	Proposed Pavement

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FIGURE 7010.101	STANDARD ROAD PLAN	PV-101
SHEET 5 OF 8		

JOINTS



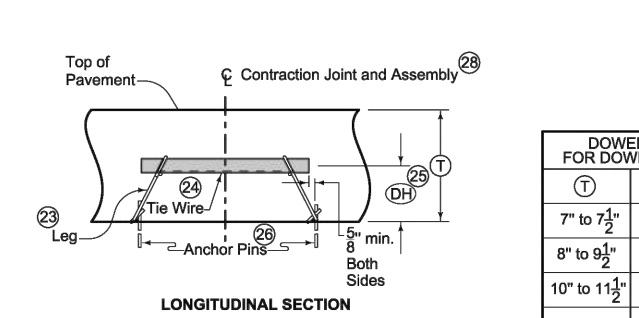
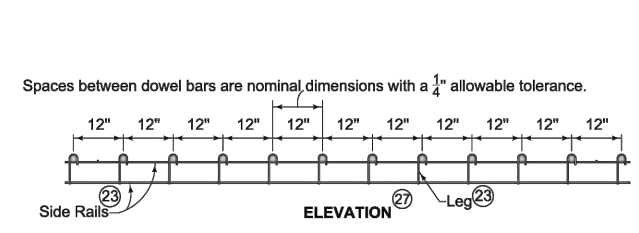
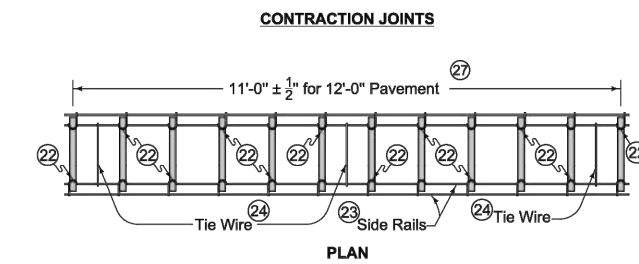
JOINT OPENING AND EXPANSION TUBE EXTENSION		
Joint Type	X	Minimum Tube Length
"ED"	1"	6"
"EE"	2"	7"
"EF"	3 1/2"	9"

DOWEL ASSEMBLIES (19)(20)(21)

- 19 Use 18 inch long dowel bars with a tolerance of ± 1/8 inch. Ensure the centerlines of individual dowels are parallel to the other dowels in the assembly within ± 1/8 inch.
- 20 Use wires with a minimum tensile strength of 50 ksi.
- 21 Details apply to both transverse contraction and expansion joints.
- 22 Weld alternately throughout.
- 23 0.306 inch diameter wire. Wire sizes shown are the minimum required.
- 24 Maximum 0.177 inch diameter wire, welded or friction fit to upper side rail, both sides.
- 25 Measured from the centerline of dowel bar to bottom of lower side rail + 1/4 inch.
- 26 Per lane width, install a minimum of 8 anchor pins evenly spaced (4 per side), to prevent movement of assembly during construction. Anchor assemblies placed on pavement or PCC base with devices approved by the Engineer.
- 27 If dowel basket assemblies are required for curbed pavements, the assembly length is based on the jointing layout. See PV-101, sheet 8.
- 28 Ensure dowel basket assembly centerline is within 2 inches of the intended joint location longitudinally and has no more than 1/4 inch horizontal skew from end of basket to end of basket.
- 29 Clip and remove center portion of tie during field assembly.
- 30 1/4 inch diameter wire.

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FIGURE 7010.101	STANDARD ROAD PLAN	PV-101
SHEET 7 OF 8		

JOINTS



DOWEL ASSEMBLIES (19)(20)(21)

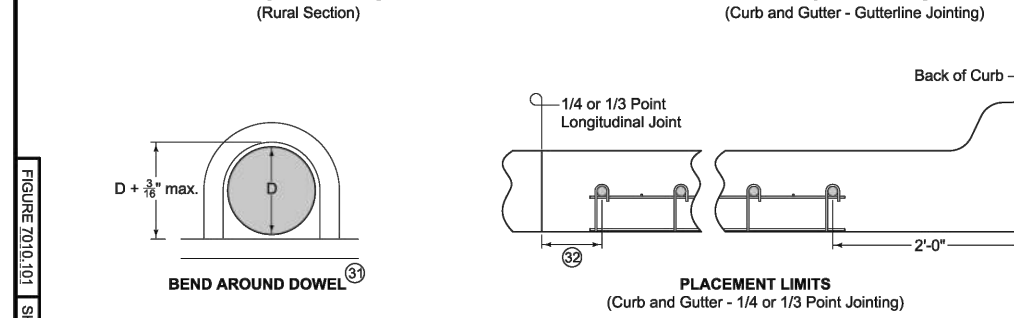
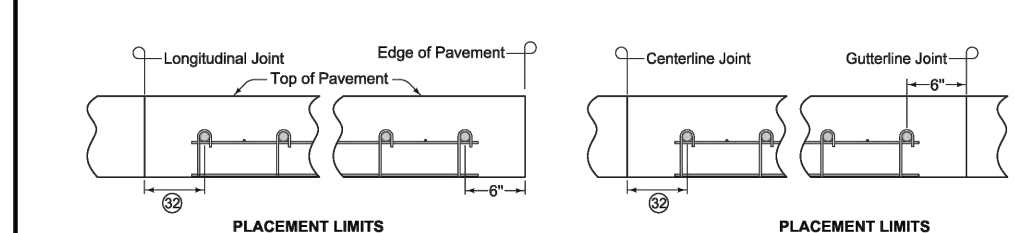
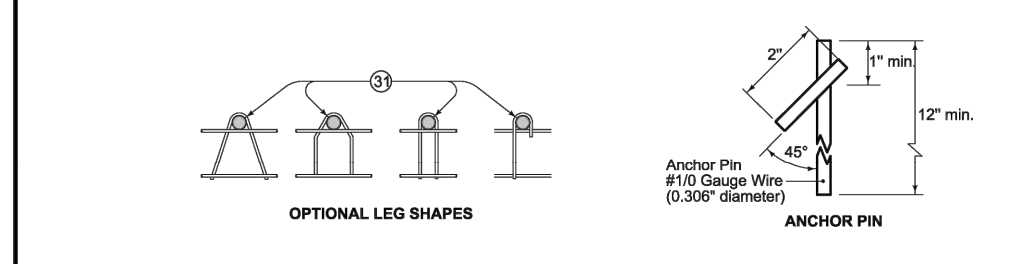
- 19 Use 18 inch long dowel bars with a tolerance of ± 1/8 inch. Ensure the centerlines of individual dowels are parallel to the other dowels in the assembly within ± 1/8 inch.
- 20 Use wires with a minimum tensile strength of 50 ksi.
- 21 Details apply to both transverse contraction and expansion joints.
- 22 Weld alternately throughout.
- 23 0.306 inch diameter wire. Wire sizes shown are the minimum required.
- 24 Maximum 0.177 inch diameter wire, welded or friction fit to upper side rail, both sides.
- 25 Measured from the centerline of dowel bar to bottom of lower side rail + 1/4 inch.
- 26 Per lane width, install a minimum of 8 anchor pins evenly spaced (4 per side), to prevent movement of assembly during construction. Anchor assemblies placed on pavement or PCC base with devices approved by the Engineer.
- 27 If dowel basket assemblies are required for curbed pavements, the assembly length is based on the jointing layout. See PV-101, sheet 8.
- 28 Ensure dowel basket assembly centerline is within 2 inches of the intended joint location longitudinally and has no more than 1/4 inch horizontal skew from end of basket to end of basket.

DOWEL HEIGHT AND DIAMETER FOR DOWELED CONTRACTION JOINTS			
T	DH (25)	Diameter (Solid)	Diameter (Tubular)
7" to 7 1/2"	3 1/2"	3/4"	7/8"
8" to 9 1/2"	4 1/4"	1 1/4"	1 3/8"
10" to 11 1/2"	5 1/4"	1 1/2"	1 5/8"
12" to 13"	6 1/4"	1 1/2"	1 5/8"

Tubular Dowel Bars will not be allowed for RD joints.

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FIGURE 7010.101	STANDARD ROAD PLAN	PV-101
SHEET 6 OF 8		

JOINTS



DOWEL ASSEMBLIES (19)(20)(21)

- 19 Use 18 inch long dowel bars with a tolerance of ± 1/8 inch. Ensure the centerlines of individual dowels are parallel to the other dowels in the assembly within ± 1/8 inch.
- 20 Use wires with a minimum tensile strength of 50 ksi.
- 21 Details apply to both transverse contraction and expansion joints.
- 22 Diameter of bend around dowel is dowel diameter + 1/8 to 3/16 inches.
- 23 For uniform lane widths: 3 to 6 inches. For taper and variable width pavements: 3 to 12 inches.

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FIGURE 7010.101	STANDARD ROAD PLAN	PV-101
SHEET 8 OF 8		

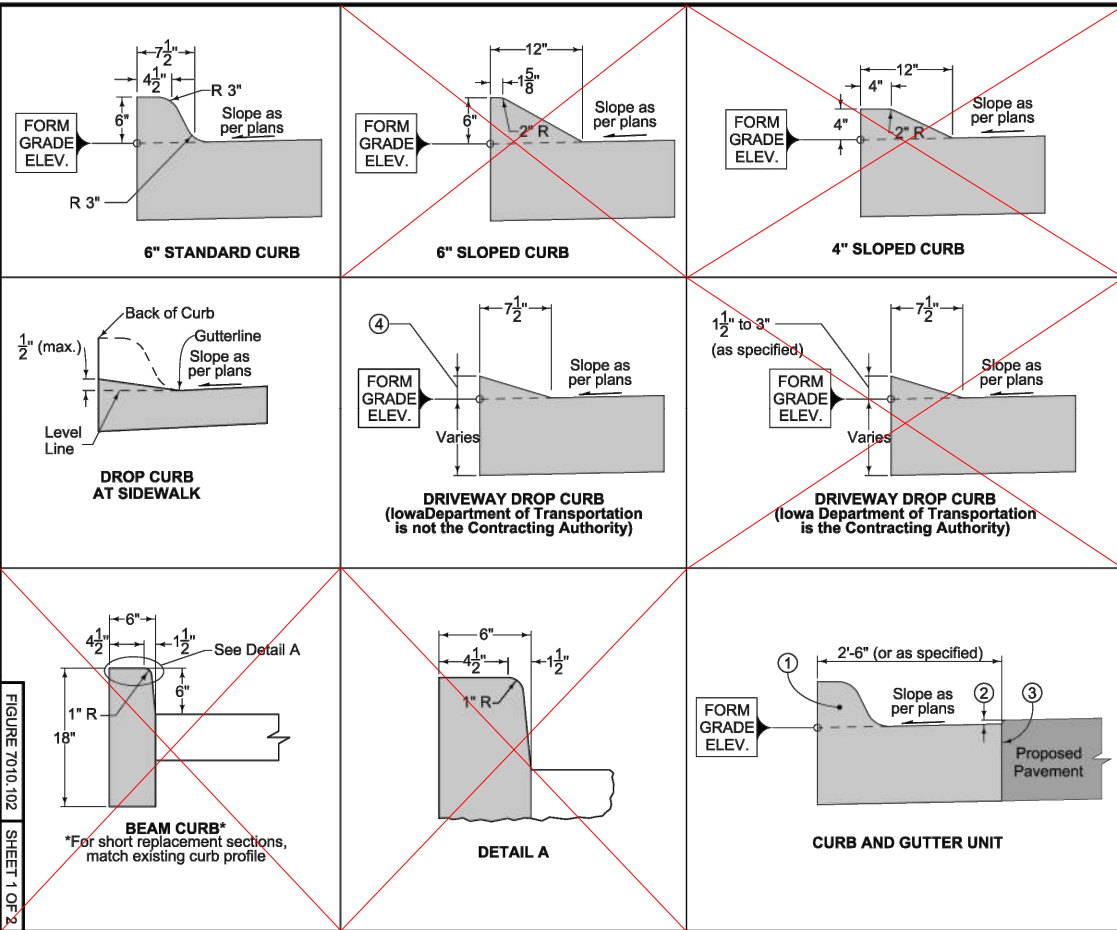
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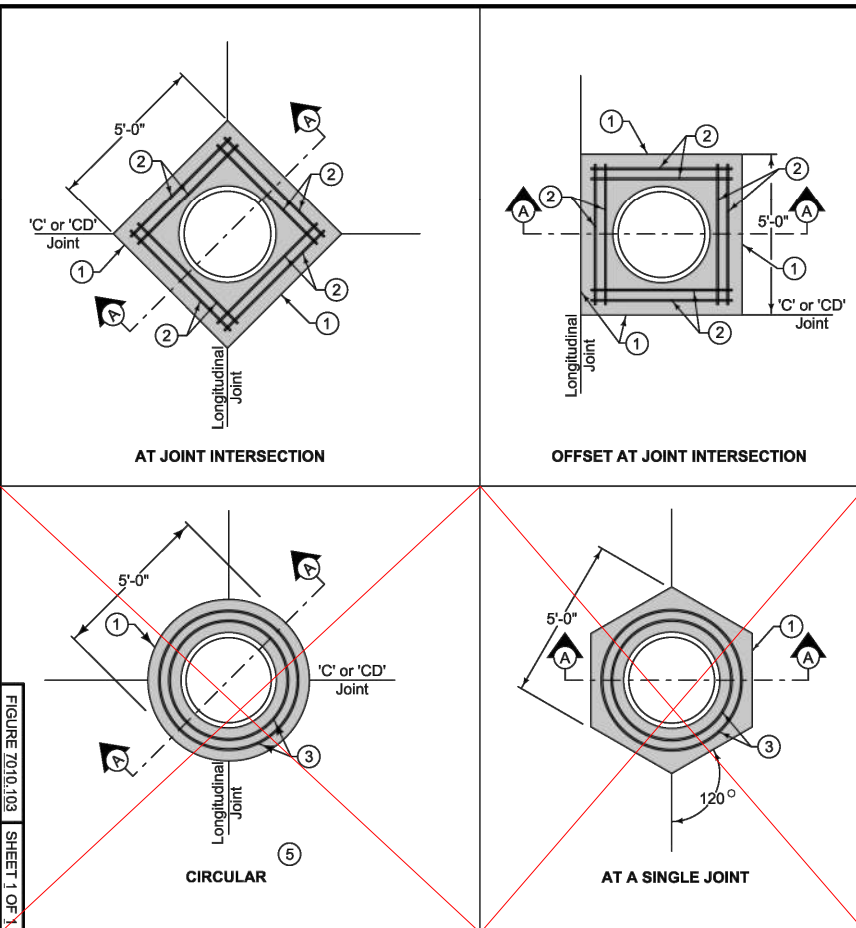
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JOINTING DETAILS



For joint details, see PV-101.

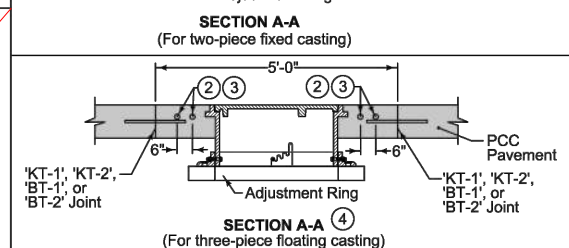
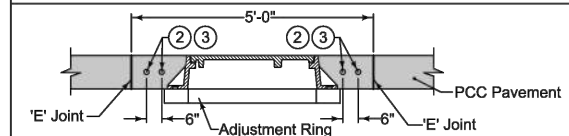
- 6 inch Standard Curb, 6 inch Sloped Curb, or 4 inch Sloped Curb as specified.
- $\frac{1}{8}$ inch if Proposed Pavement is HMA. No elevation difference if Proposed Pavement is PCC.
- 'BT', 'KT', or 'L' joint if Proposed Pavement is PCC. 'B' joint if Proposed Pavement is HMA.
- 0 to 2 inches for residential entrances.
 $1\frac{1}{2}$ to 3 inches for industrial or commercial entrances.

REVISION	DATE
5	04-21-20
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FIGURE 7010.102 STANDARD ROAD PLAN	
PV-102	
SHEET 1 of 2	
REVISIONS: Split DRIVEWAY DROP CURB detail into two details. Added new circle note 4 on Sheet 1. Re-numbered other notes on Sheet 5.	
Paul D. Weigand SUDAS DIRECTOR	
Steve Miller DESIGN METHOD ENGINEER	
PCC CURB DETAILS	

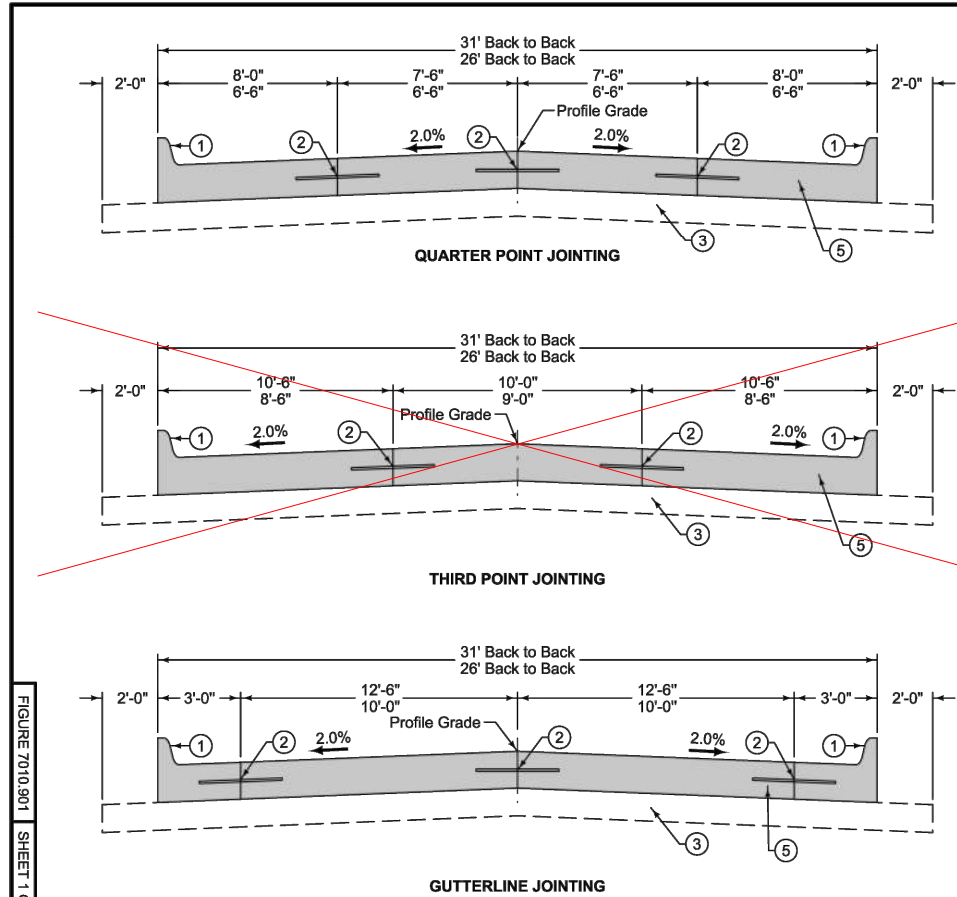


Construct boxout with Class C concrete or match pavement class. Minimum 2 inches clear on reinforcement. Minimum 12 inches of concrete between outside of casting and nearest joint. Center casting within boxout area if possible.

- 'KT-1', 'KT-2', 'BT-1', or 'BT-2' joint if three-piece floating casting (SW 601 Type B and D or SW-602 Type F) is used. 'E' joint if two-piece fixed casting (SW 601 Type A and C or SW-602 Type E) is used.
- 4 foot 8 inch (typ.) #4 bar. Place at mid-slab.
- #4 hoops (variable length). Place at mid-slab.
- No boxout is required for three-piece floating castings (SW 601 Type B and D or SW-602 Type F). If a boxout is used with a three-piece casting, construct as detailed in Section A-A for three-piece floating casting.
- If a circular boxout is cut and extracted after PCC construction, a 'B' joint may be substituted for the 'E' joint if approved by the Engineer.



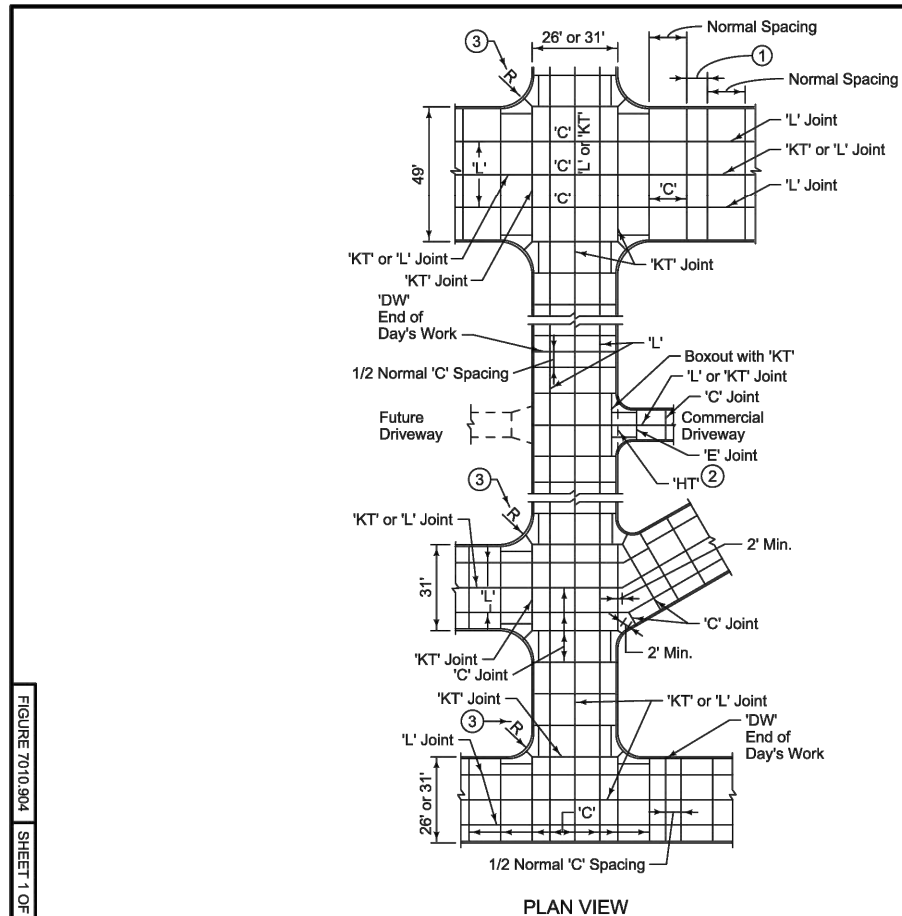
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FIGURE 7010.103 STANDARD ROAD PLAN	
PV-103	
SHEET 1 of 1	
REVISIONS: Added note 5.	
Paul D. Weigand SUDAS DIRECTOR	
Steve Miller DESIGN METHOD ENGINEER	
MANHOLE BOXOUTS IN PCC PAVEMENT	



- 6 inch standard curb.
- BT, KT, or L joint depending on pavement thickness and construction staging.
- Subbase or subgrade as specified.
- Unless otherwise specified in the contract documents.
- No dowels within 24" of the back of curb. With gutterline joint, place first dowel 6 inches from the joint. See Figure 7010.101, Sheet 8.

TRANSVERSE JOINT REQUIREMENTS (4)		
Pavement Thickness	Transverse Joint Type	Transverse Joint Spacing
6"	C	12'
7"	C	15'
8"	CD (5)	15'
9"	CD (5)	15'
≥10"	CD (5)	17'

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7010.901	
SHEET 1 of 1	
SUDAS Standard Specifications	
PCC PAVEMENT JOINTING	



Refer to Figure 7010.901 for maximum transverse joint spacing.

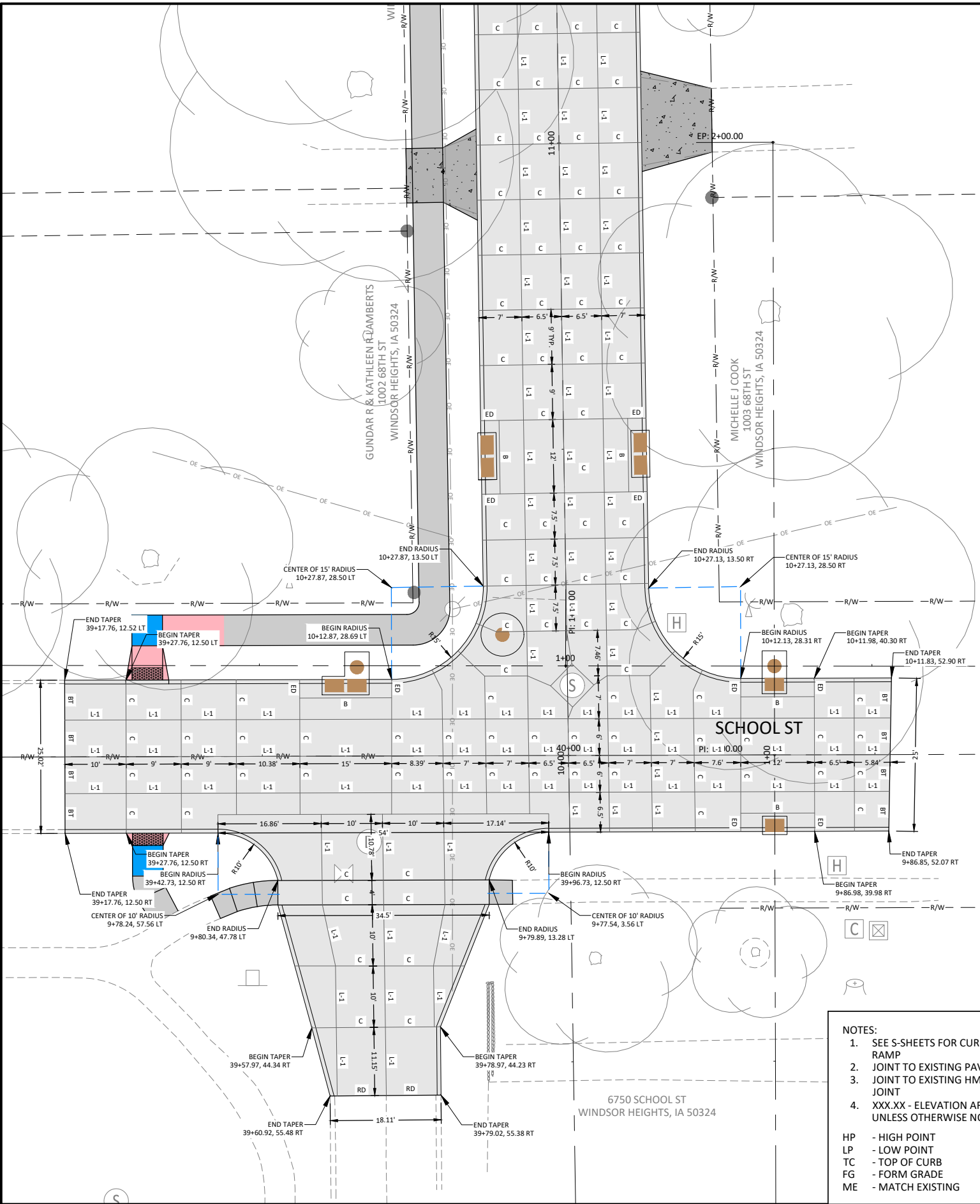
Where new and existing pavements meet, and no existing dowels, tie bars, or keyed joints are present, provide a 'BT', 'RT', or 'RD' joint.

- Shorten jointing pattern on either side of openings to allow joints to intersect round castings and fall at the edges of intake boxouts.
- Where pavement abuts an unimproved street, terminate with a type 'HT' joint.
- When radius exceed 20 feet, add one additional 'C' joint at radius intersections.

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7010.904	
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SUDAS Standard Specifications	
TYPICAL JOINTING LAYOUT	

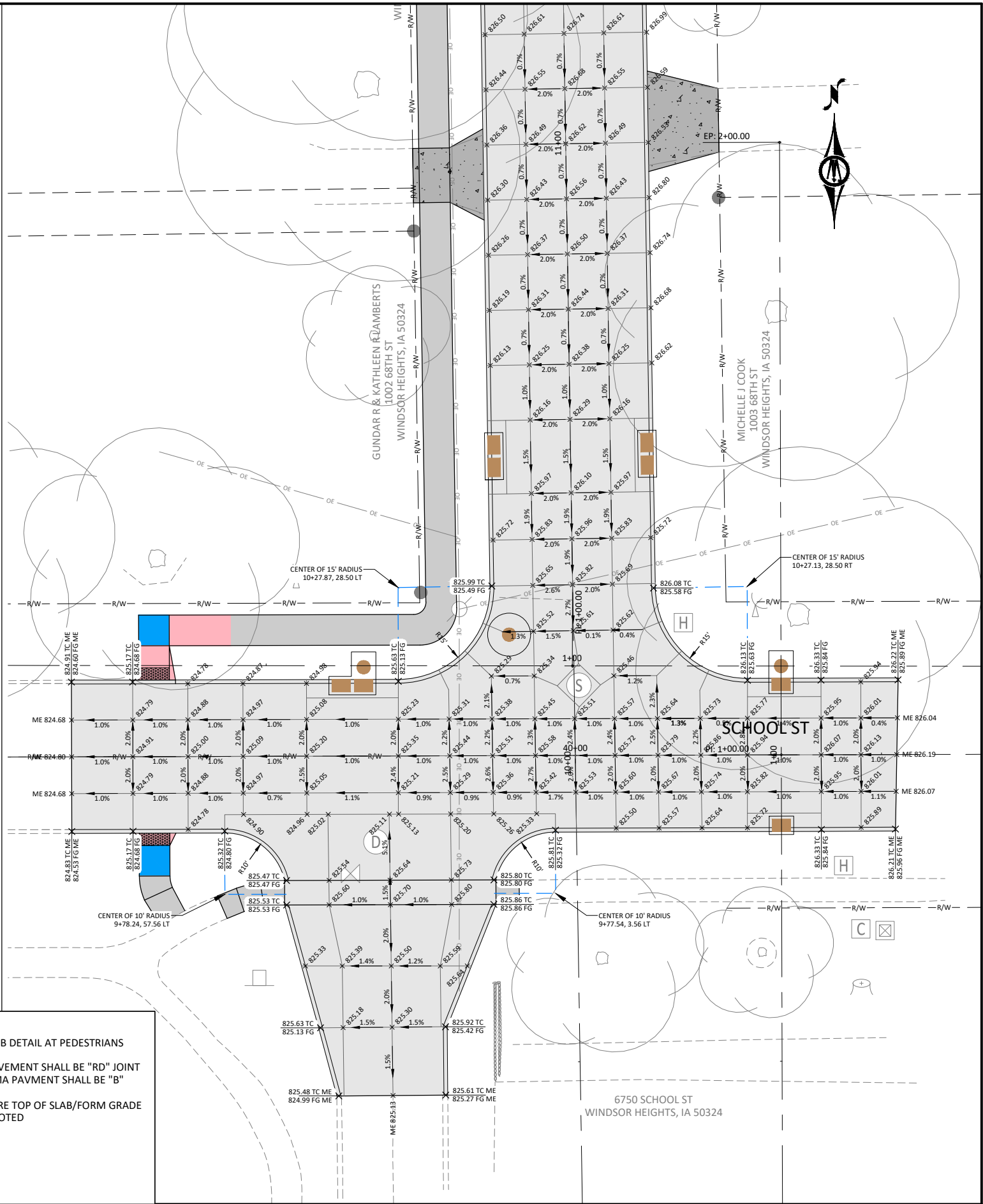
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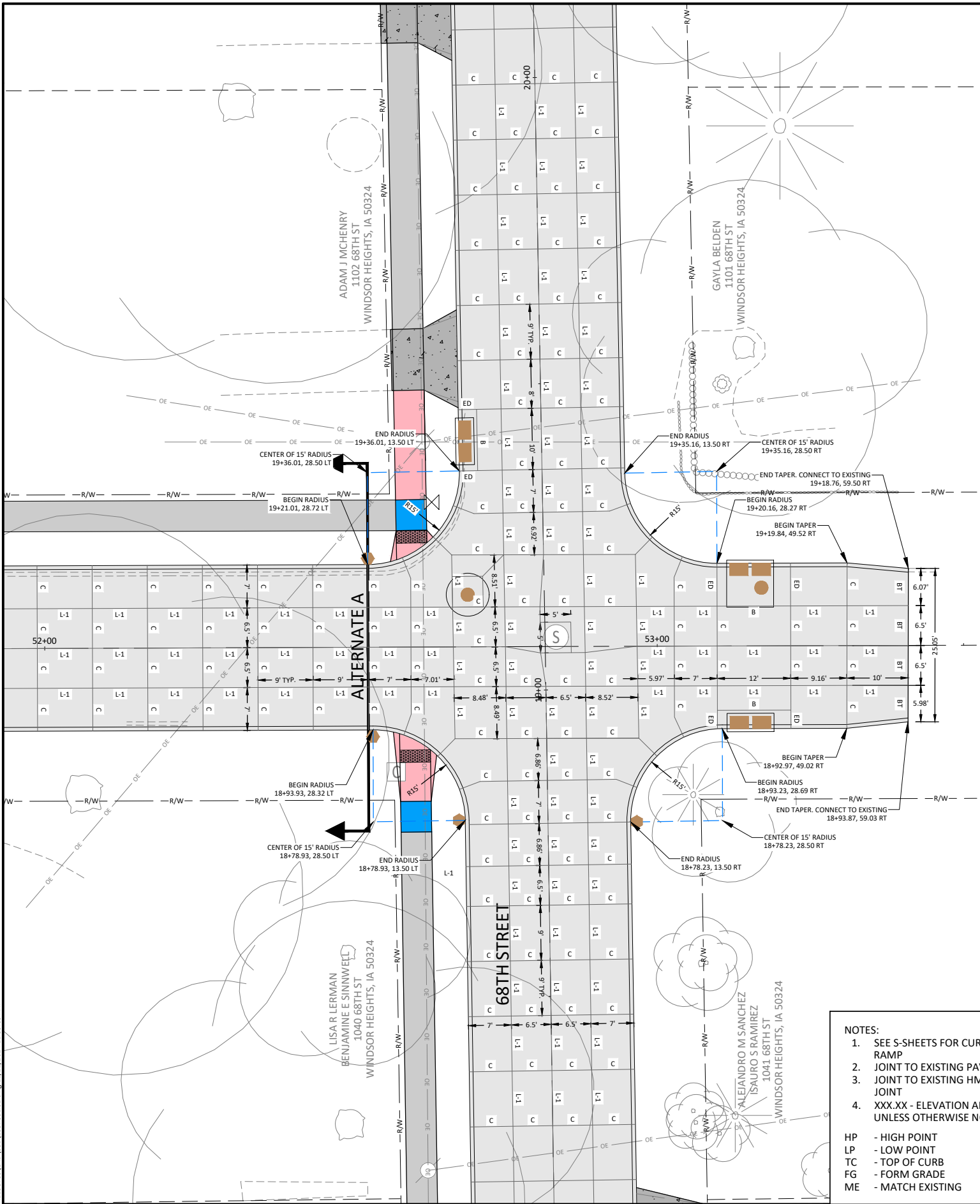
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 2. JOINT TO EXISTING PAVEMENT SHALL BE "RD" JOINT
 3. JOINT TO EXISTING HMA PAVMENT SHALL BE "B" JOINT
 4. XXX.XX - ELEVATION ARE TOP OF SLAB/FORM GRADE UNLESS OTHERWISE NOTED
- HP - HIGH POINT
LP - LOW POINT
TC - TOP OF CURB
FG - FORM GRADE
ME - MATCH EXISTING



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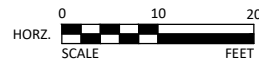
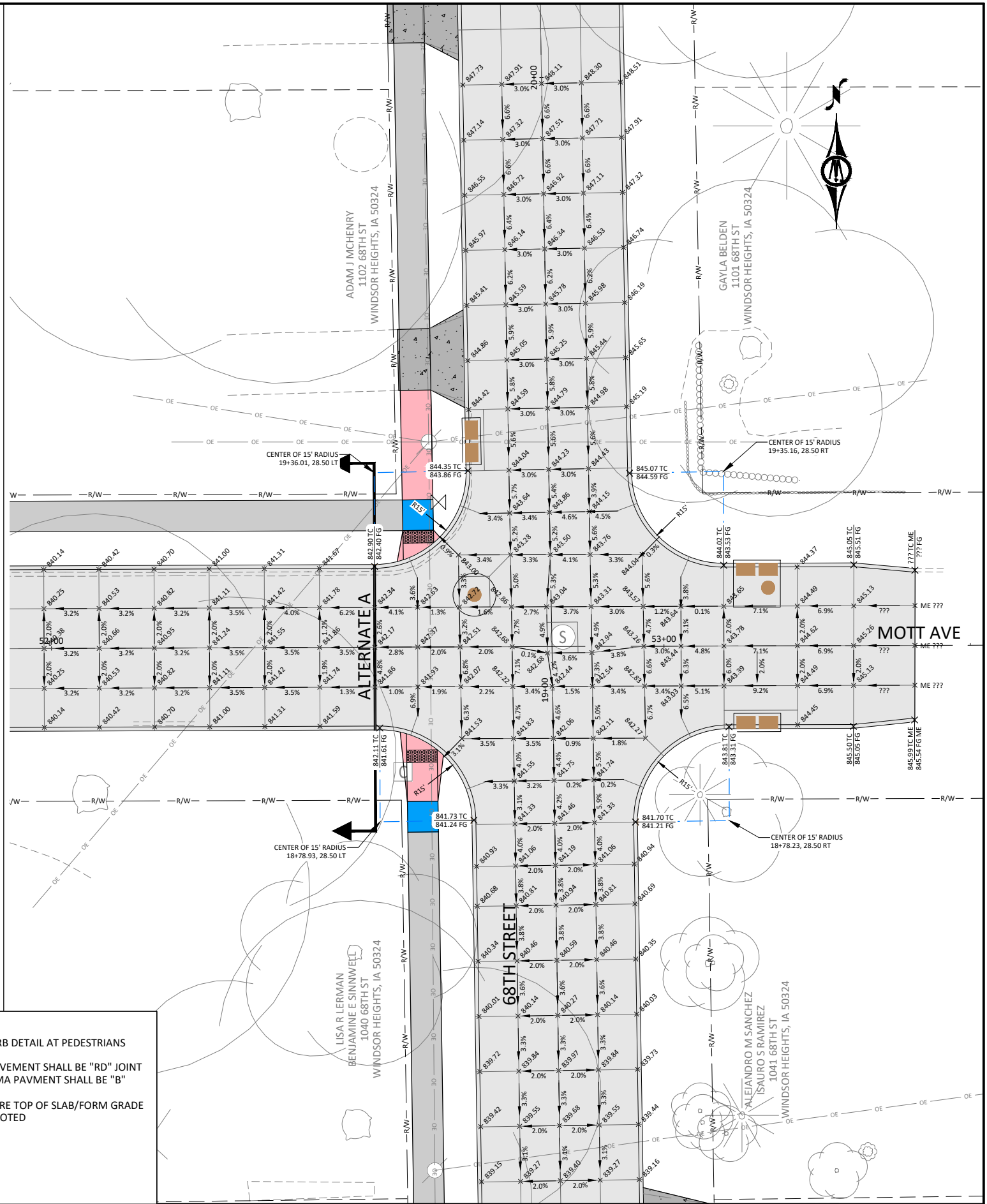
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- NOTES:
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 2. JOINT TO EXISTING PAVEMENT SHALL BE "RD" JOINT
 3. JOINT TO EXISTING HMA PAVMENT SHALL BE "B" JOINT
 4. XXX.XX - ELEVATION ARE TOP OF SLAB/FORM GRADE UNLESS OTHERWISE NOTED

HP - HIGH POINT
LP - LOW POINT
TC - TOP OF CURB
FG - FORM GRADE
ME - MATCH EXISTING



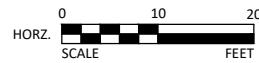
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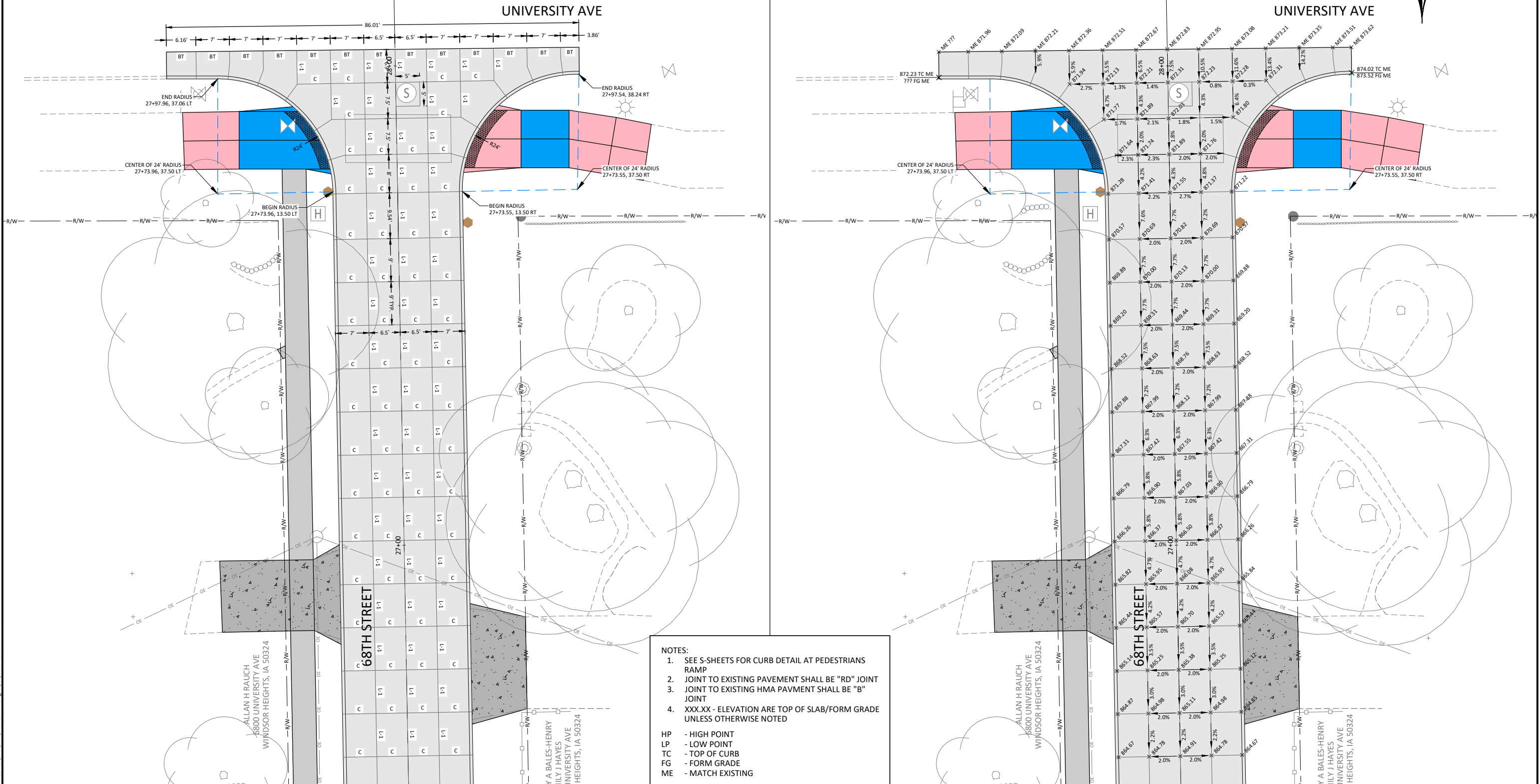


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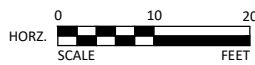
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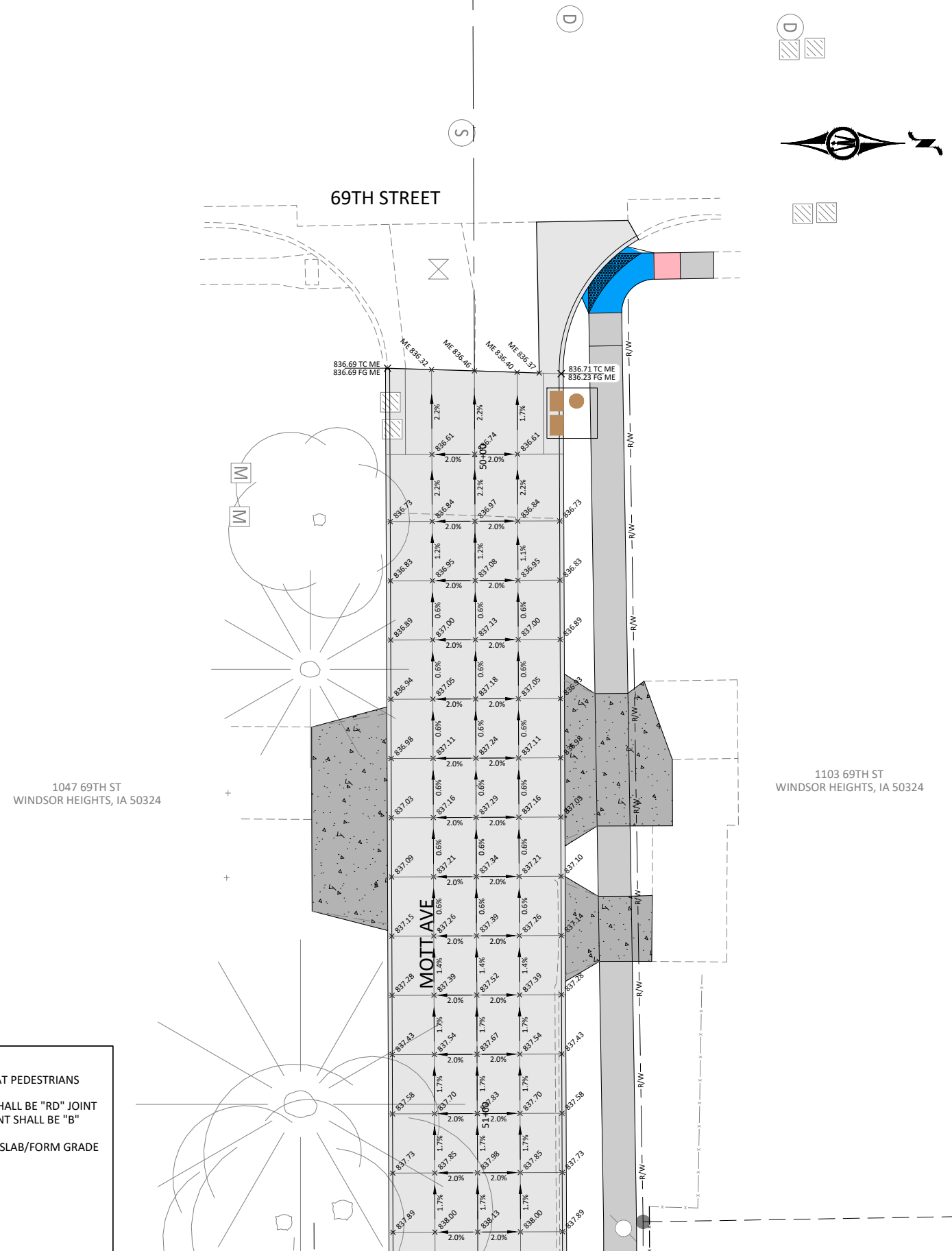
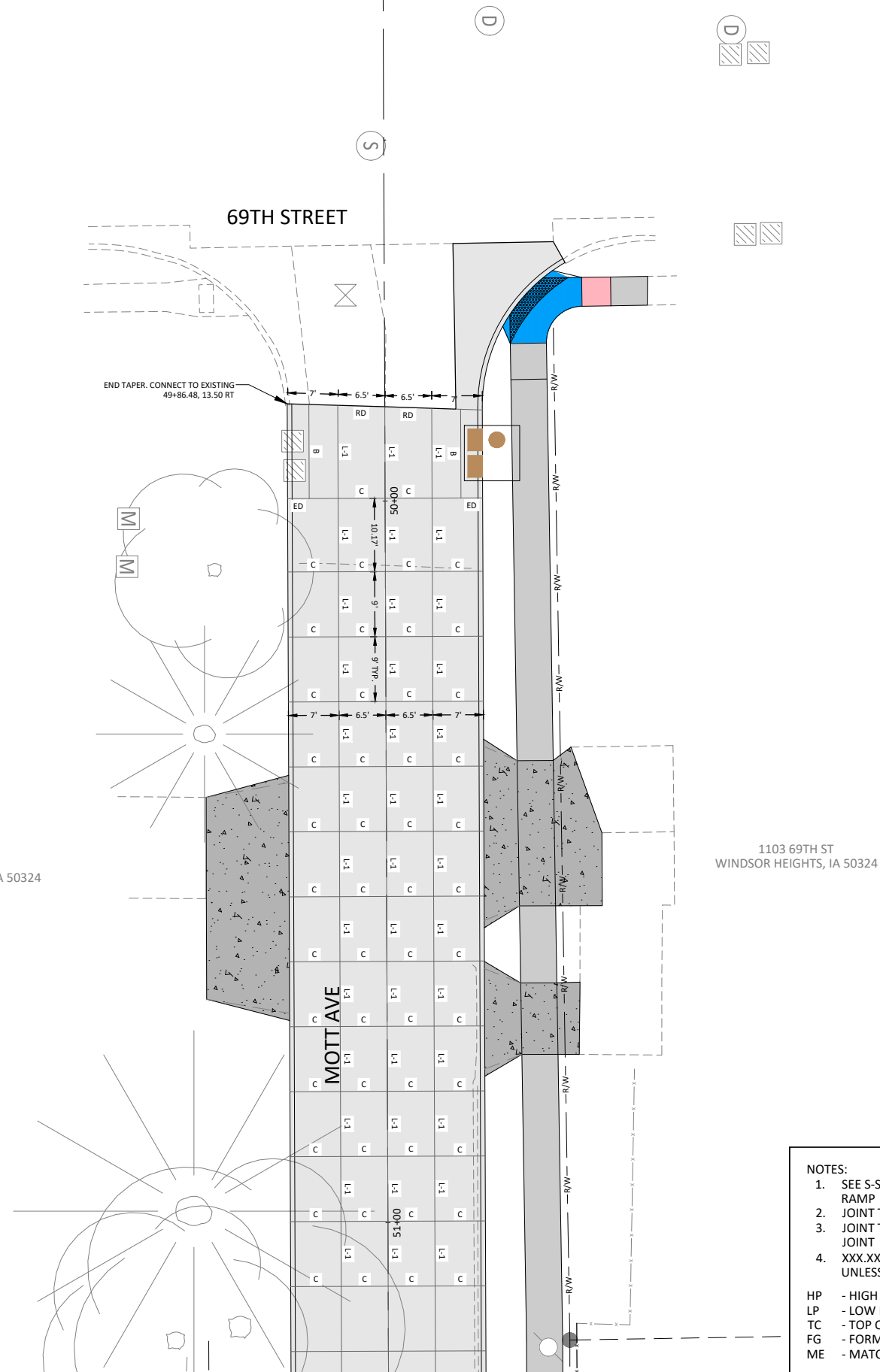
CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
INTERSECTION DETAILS - MOTT AVENUE

SHEET
L.07

NOTES:

1. SEE S-SHEETS FOR CURB DETAIL AT PEDESTRIANS RAMP
2. JOINT TO EXISTING PAVEMENT SHALL BE "RD" JOINT
3. JOINT TO EXISTING HMA PAVMENT SHALL BE "B" JOINT
4. XXX.XX - ELEVATION ARE TOP OF SLAB/FORM GRADE UNLESS OTHERWISE NOTED

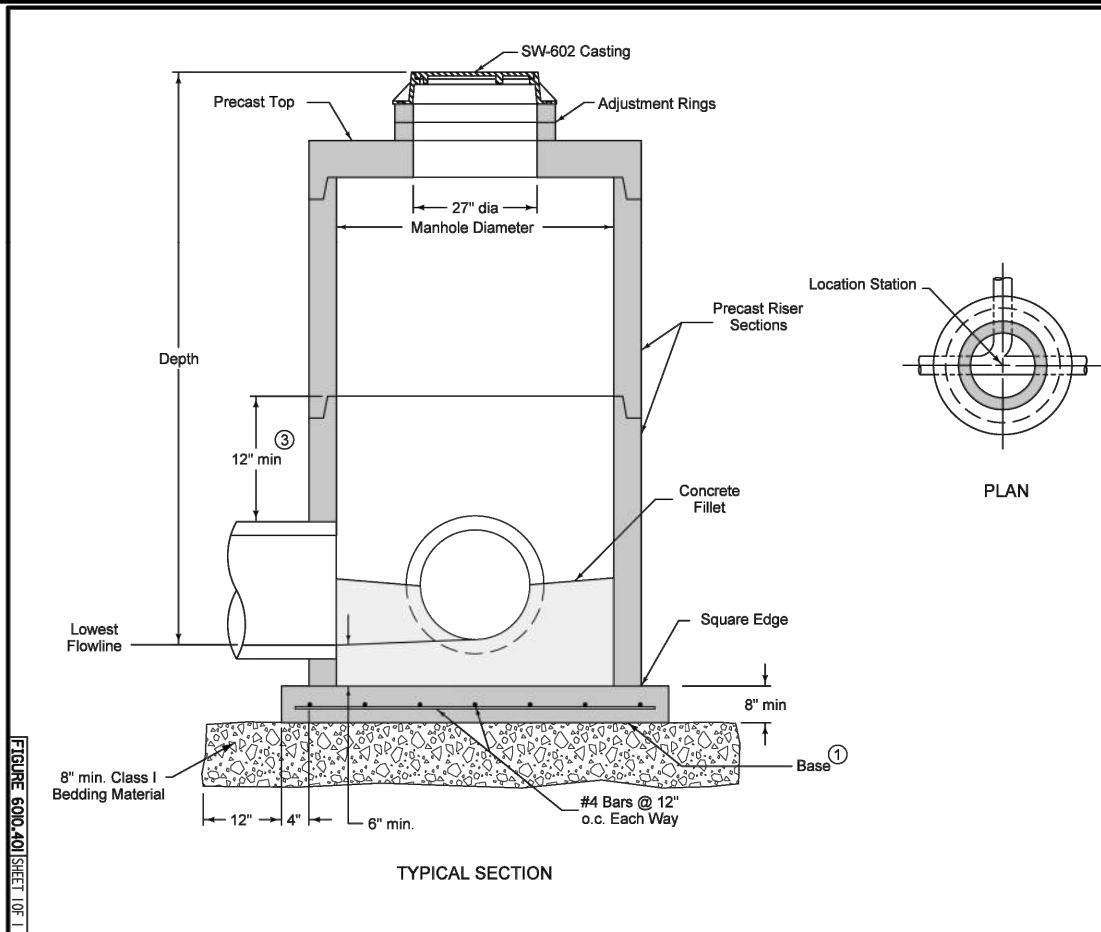
HP - HIGH POINT
LP - LOW POINT
TC - TOP OF CURB
FG - FORM GRADE
ME - MATCH EXISTING



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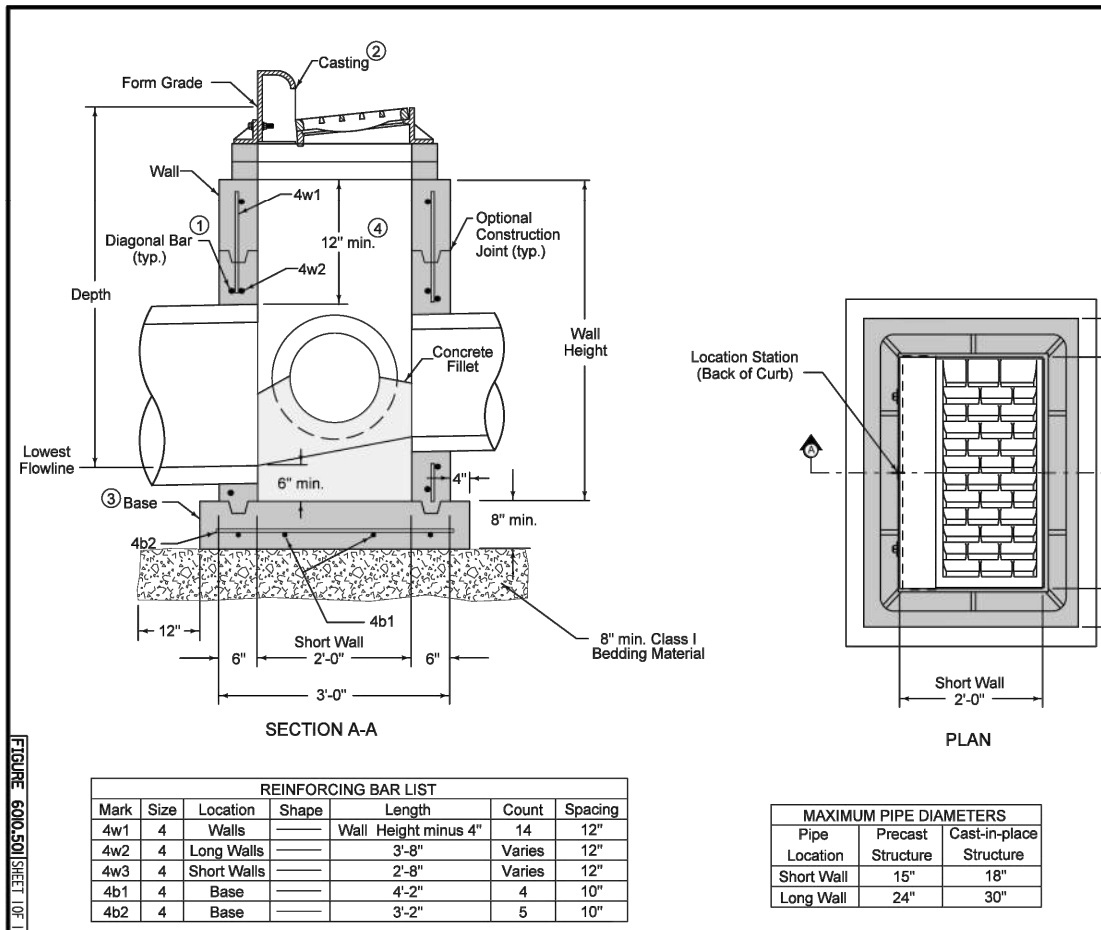
CLEANOUT STRUCTURES						
STRUCTURE	STATION	OFFSET	TYPE	FG/RIM ELEV	INLET ELEV	OUTLET ELEV
CO - 2	13+60.05	-14.50' LT	6 Cleanout	830.97		827.59, 6" HDPE S (TILE - 3)
CO - 1	12+01.95	-2.00' LT	6 Cleanout	827.85	825.22, 6" HDPE N (TILE - 3)	825.22, 6" HDPE S (TILE - 2)
CO - 3	16+19.95	-14.50' LT	6 Cleanout	835.09		831.96, 6" HDPE S (TILE - 5)
CO - 4	18+78.93	-14.50' LT	6 Cleanout	841.82		838.10, 6" HDPE S (TILE - 7)
CO - 5	11+94.98	27.00' RT	6 Cleanout	827.79	824.77, 6" HDPE N (TILE - 10)	824.77, 6" HDPE S (TILE - 9)
CO - 6	13+60.03	14.50' RT	6 Cleanout	830.92		826.83, 6" HDPE S (TILE - 10)
CO - 7	16+19.94	14.50' RT	6 Cleanout	835.25		831.96, 6" HDPE S (TILE - 12)
CO - 8	18+78.23	14.50' RT	6 Cleanout	841.86		838.08, 6" HDPE S (TILE - 14)
CO - 9	21+54.43	-14.50' LT	6 Cleanout	858.88		856.39, 6" HDPE S (TILE - 16)
CO - 10	23+81.20	-16.97' LT	6 Cleanout	859.14		857.06, 6" HDPE S (TILE - 18)
CO - 11	25+97.78	-14.57' LT	6 Cleanout	864.39		861.33, 6" HDPE S (TILE - 20)
CO - 12	27+73.98	-14.50' LT	6 Cleanout	871.76		865.29, 6" HDPE S (TILE - 22)
CO - 13	21+54.43	14.50' RT	6 Cleanout	859.98	856.54, 6" HDPE N (TILE - 26)	856.54, 6" HDPE S (TILE - 25)
CO - 14	23+81.16	14.50' RT	6 Cleanout	859.69		857.67, 6" HDPE S (TILE - 26)
CO - 15	25+98.61	14.50' RT	6 Cleanout	864.48		860.86, 6" HDPE S (TILE - 28)

SUBDRAIN PIPES							
FROM STRUCTURE	TO STRUCTURE	PIPE ID	PIPE DIA	LENGTH	PIPE GRADE	START INV	END INV
TILE - 1	INT - 2	TILE - 1	6" HDPE	5 LF	1.00%	823.00	822.95
CO - 1	TILE - 1	TILE - 2	6" HDPE	148 LF	1.50%	825.22	823.00
CO - 2	CO - 1	TILE - 3	6" HDPE	158 LF	1.50%	827.59	825.22
TILE - 5	INT - 3	TILE - 4	6" HDPE	5 LF	1.75%	827.58	827.49
CO - 3	TILE - 5	TILE - 5	6" HDPE	250 LF	1.75%	831.96	827.58
TILE - 7	INT - 4	TILE - 6	6" HDPE	5 LF	2.50%	831.87	831.74
CO - 4	TILE - 7	TILE - 7	6" HDPE	249 LF	2.50%	838.10	831.87
TILE - 9	INT - 5	TILE - 8	6" HDPE	5 LF	1.25%	823.01	822.95
CO - 5	TILE - 9	TILE - 9	6" HDPE	141 LF	1.25%	824.77	823.01
CO - 6	CO - 5	TILE - 10	6" HDPE	165 LF	1.25%	826.83	824.77
TILE - 12	INT - 6	TILE - 11	6" HDPE	5 LF	1.75%	827.58	827.49
CO - 7	TILE - 12	TILE - 12	6" HDPE	250 LF	1.75%	831.96	827.58
TILE - 14	INT - 7	TILE - 13	6" HDPE	5 LF	2.50%	831.87	831.74
CO - 8	TILE - 14	TILE - 14	6" HDPE	248 LF	2.50%	838.08	831.87
TILE - 16	INT - 11	TILE - 15	6" HDPE	5 LF	7.15%	841.47	841.11
CO - 9	TILE - 16	TILE - 16	6" HDPE	209 LF	7.15%	856.39	841.47
CO - 10	TILE - 18	TILE - 18	6" HDPE	221 LF	1.00%	857.06	854.85
TILE -20	INT - 13	TILE - 19	6" HDPE	7 LF	2.50%	856.17	856.03
CO - 11	TILE -20	TILE - 20	6" HDPE	207 LF	2.50%	861.33	856.17
TILE - 22	INT - 14	TILE - 21	6" HDPE	5 LF	2.50%	861.15	861.03
CO - 12	TILE - 22	TILE - 22	6" HDPE	166 LF	2.50%	865.29	861.15
TILE - 24	INT - 17	TILE - 23	6" HDPE	6 LF	2.00%	840.66	840.55
TILE - 25	TILE - 24	TILE - 24	6" HDPE	22 LF	2.00%	841.10	840.66
CO - 14	CO - 13	TILE - 26	6" HDPE	227 LF	0.50%	857.67	856.54
TILE - 28	INT - 15	TILE - 27	6" HDPE	5 LF	2.00%	856.70	856.64
CO - 15	TILE - 28	TILE - 28	6" HDPE	208 LF	2.00%	860.86	856.70
TILE - 30	INT - 16	TILE - 29	6" HDPE	5 LF	2.50%	861.15	861.03
CO - 16	TILE - 30	TILE - 30	6" HDPE	159 LF	2.50%	865.09	861.13



Manhole Diameter (inches)	Maximum Pipe Diameter (inches) for 2 Pipes	
	At 180° Separation	At 90° Separation
48	24	18
60	36	24
72	42	30
84	48	36
96	60	42

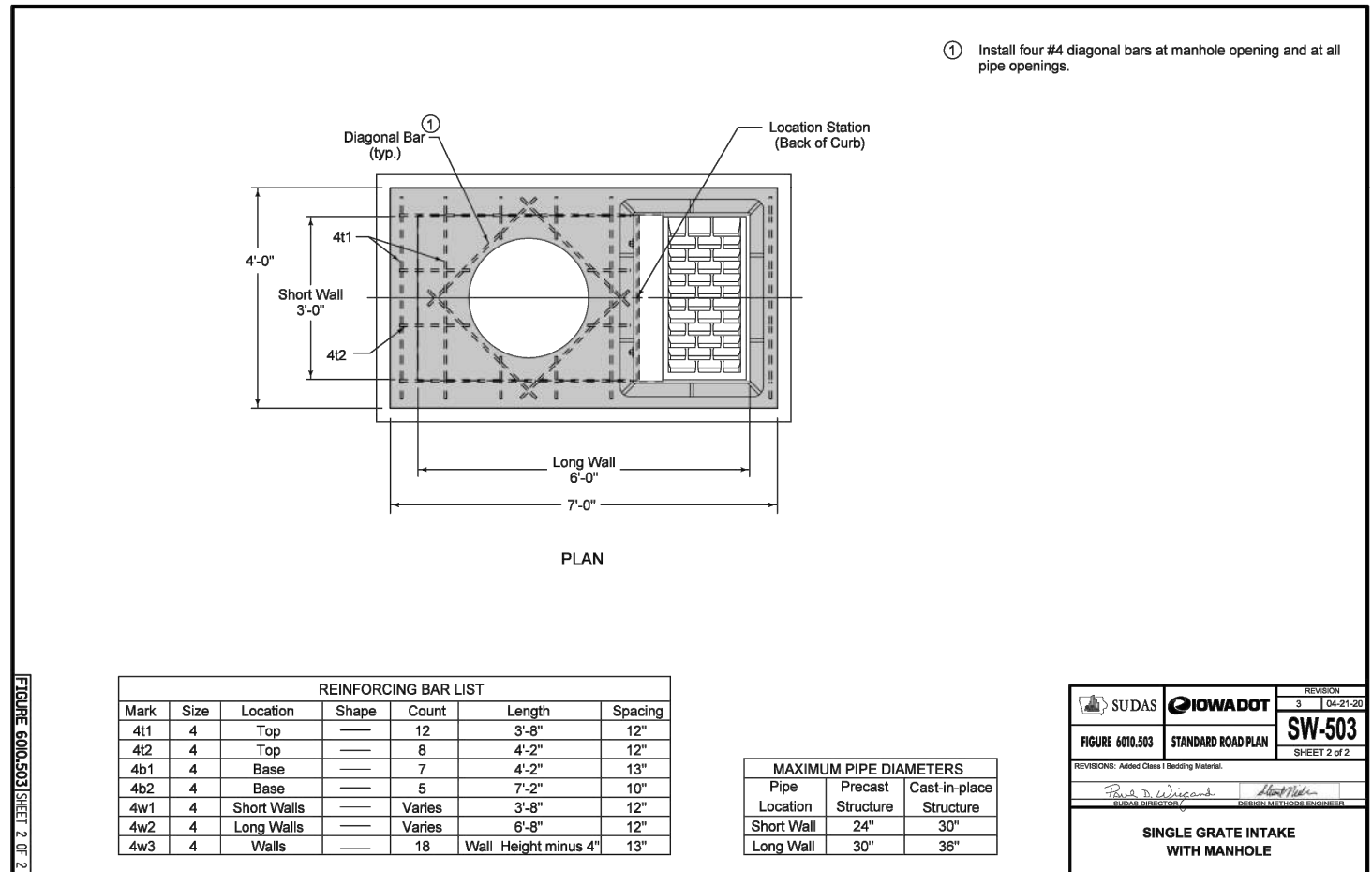
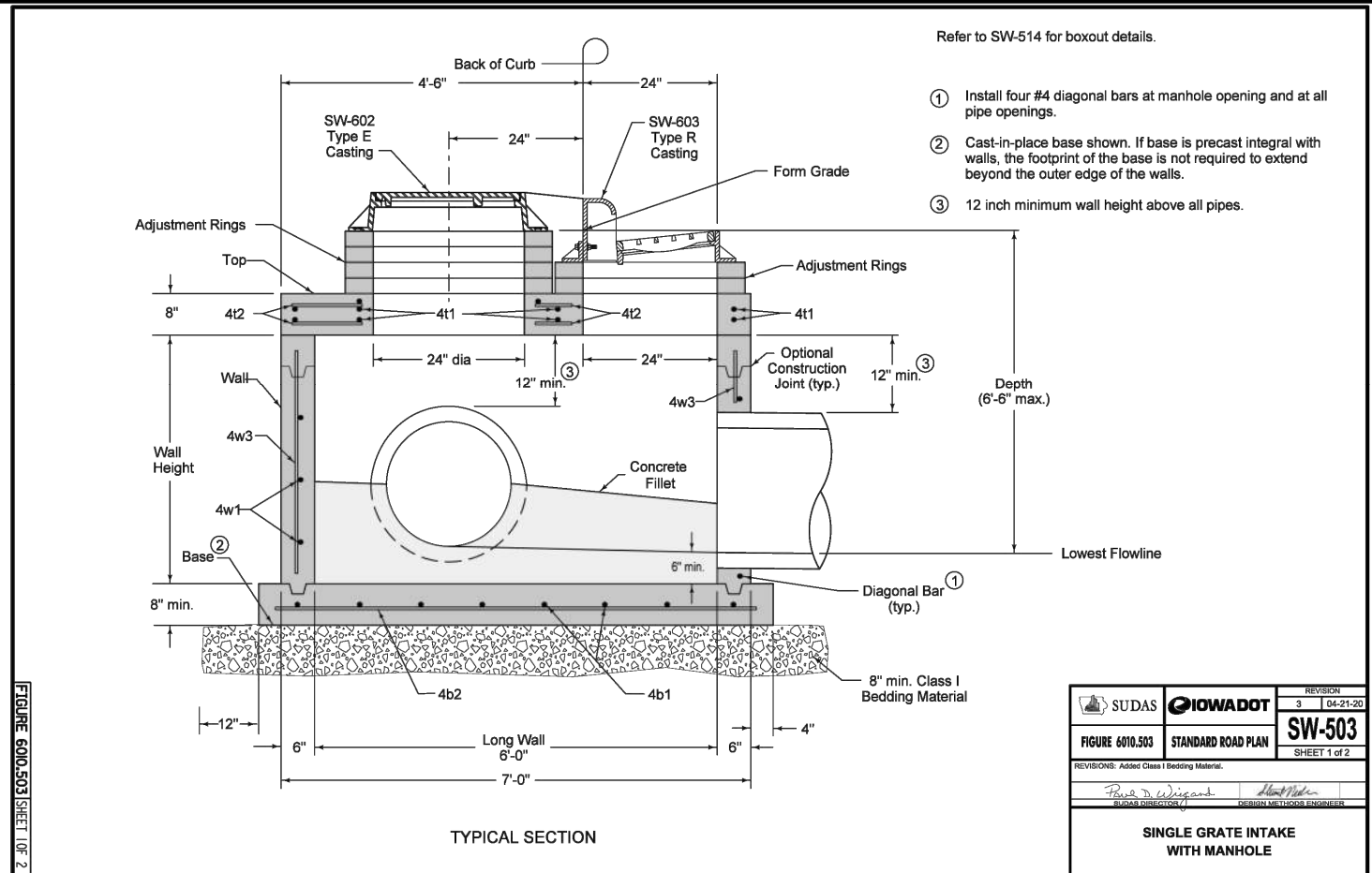
SUDAS	IOWADOT	REVISION
FIGURE 600.401	STANDARD ROAD PLAN	3 04-20-21
		SW-401
		SHEET 1 of 1
REVISIONS: Added manhole depth note.		
Paul D. Weigand DESIGN METHODS ENGINEER		
CIRCULAR STORM SEWER MANHOLE		



Mark	Size	Location	Shape	Count	Length	Spacing
4t1	4	Top	—	12	3'-8"	12"
4t2	4	Top	—	8	4'-2"	12"
4b1	4	Base	—	7	4'-2"	13"
4b2	4	Base	—	5	7'-2"	10"
4w1	4	Short Walls	—	Varies	3'-8"	12"
4w2	4	Long Walls	—	Varies	6'-8"	12"
4w3	4	Walls	—	18	Wall Height minus 4"	13"

Pipe Location	Precast Structure	Cast-in-place Structure
Short Wall	15"	18"
Long Wall	24"	30"

SUDAS	IOWADOT	REVISION
FIGURE 600.501	STANDARD ROAD PLAN	3 04-21-20
		SW-501
		SHEET 1 of 1
REVISIONS: Added Class I Bedding Material.		
Paul D. Weigand DESIGN METHODS ENGINEER		
SINGLE GRATE INTAKE		



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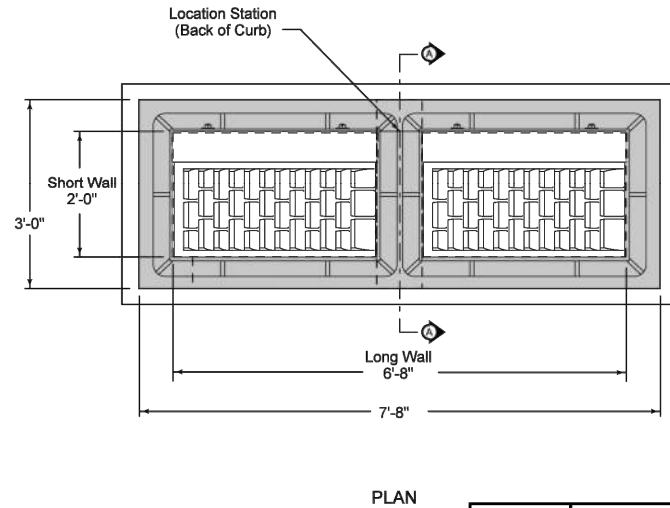
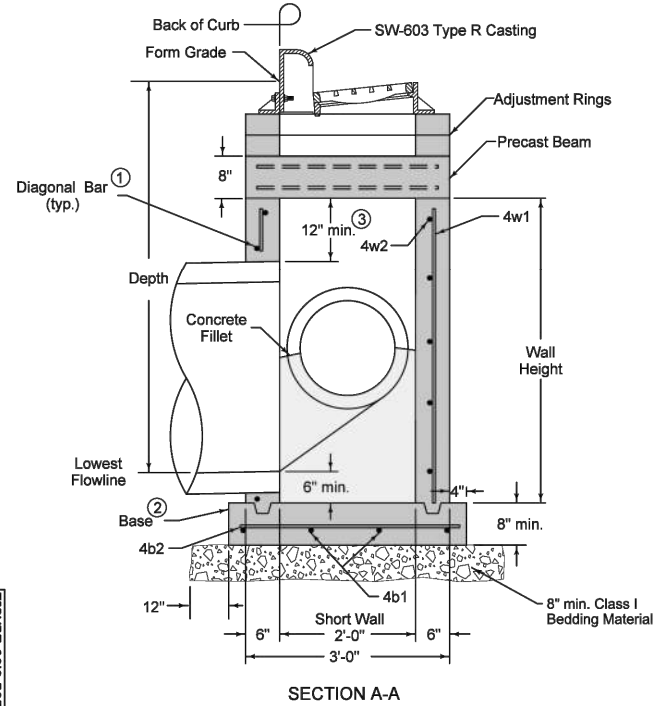
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
STORM SEWER DETAILS

SHEET
M1.03

Refer to SW-514 for boxout details.

- 1 Install four #4 diagonal bars at all pipe openings.
- 2 Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.
- 3 12 inch minimum wall height above all pipes.



PLAN

SUDAS	IOWADOT	REVISION 3 04-21-20
FIGURE 600.505	STANDARD ROAD PLAN	SW-505
REVISIONS: Added Class I Bedding Material.		
Paul D. Wiegand SUDAS DIRECTOR / DESIGN METHOD ENGINEER		
DOUBLE GRATE INTAKE		

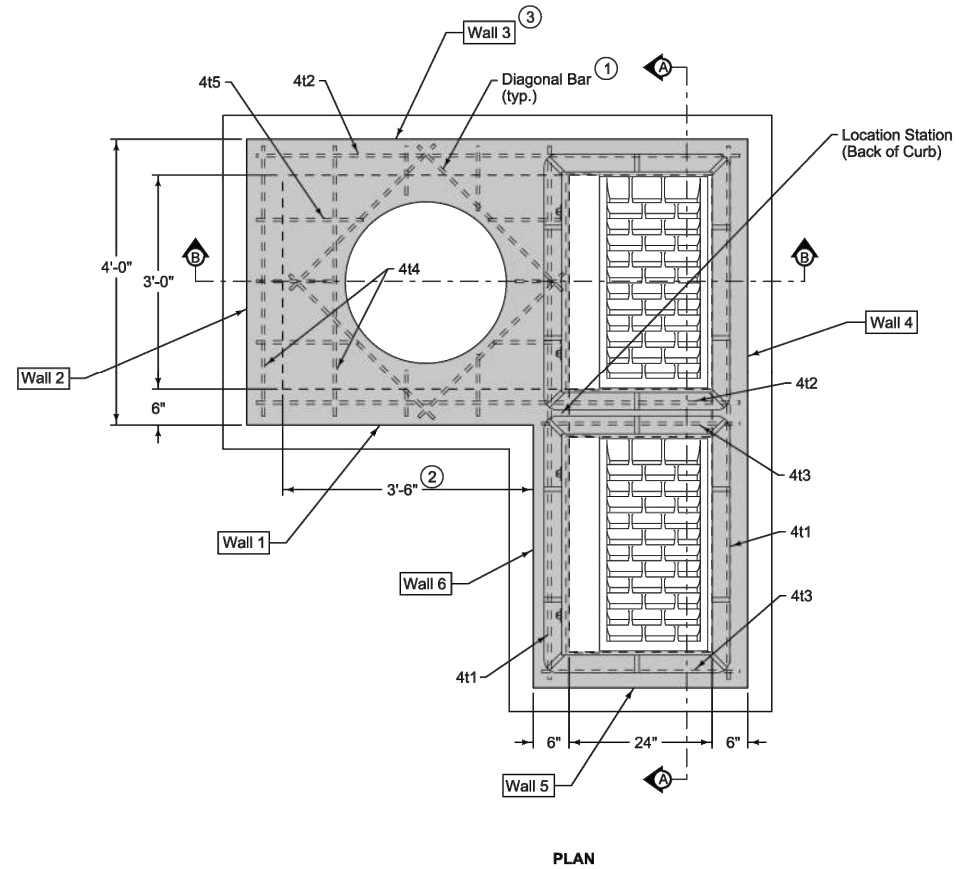
FIGURE 600.505 SHEET 1 OF 2

Maximum pipe diameters are set based on maximum structure depth of 6 feet-6 inches and the objective of placement of the centerline of the pipe on the centerline of the manhole opening for maintenance purposes.

Refer to SW-514 for boxout details.

- 1 Install four #4 diagonal bars at manhole opening and at all pipe openings.
- 2 If Wall 1 is widened to 4 feet, the maximum pipe diameter can be increased to 36 inches.
- 3 If Wall 1 is widened to 4 feet, the maximum pipe diameter in Wall 3 can be increased to 42 inches.

Wall	Max. Dia.
1	30" 2
2	24"
3	36" 3
4	42"

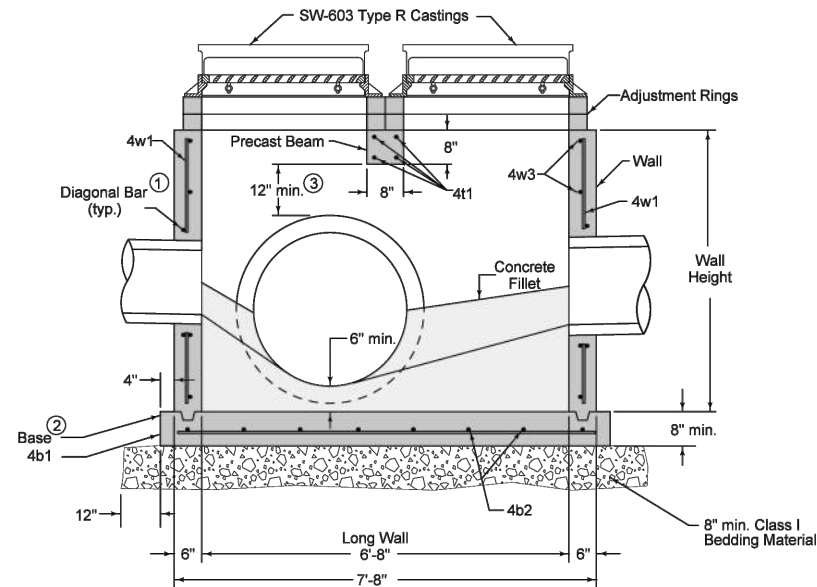


PLAN

SUDAS	IOWADOT	REVISION 4 04-21-20
FIGURE 6010.506	STANDARD ROAD PLAN	SW-506
REVISIONS: Added Class I Bedding Material.		
Paul D. Wiegand SUDAS DIRECTOR / DESIGN METHOD ENGINEER		
DOUBLE GRATE INTAKE WITH MANHOLE		

FIGURE 6010.506 SHEET 1 OF 2

- 1 Install four #4 diagonal bars at all pipe openings.
- 2 Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.
- 3 12 inch minimum wall height above all pipes.



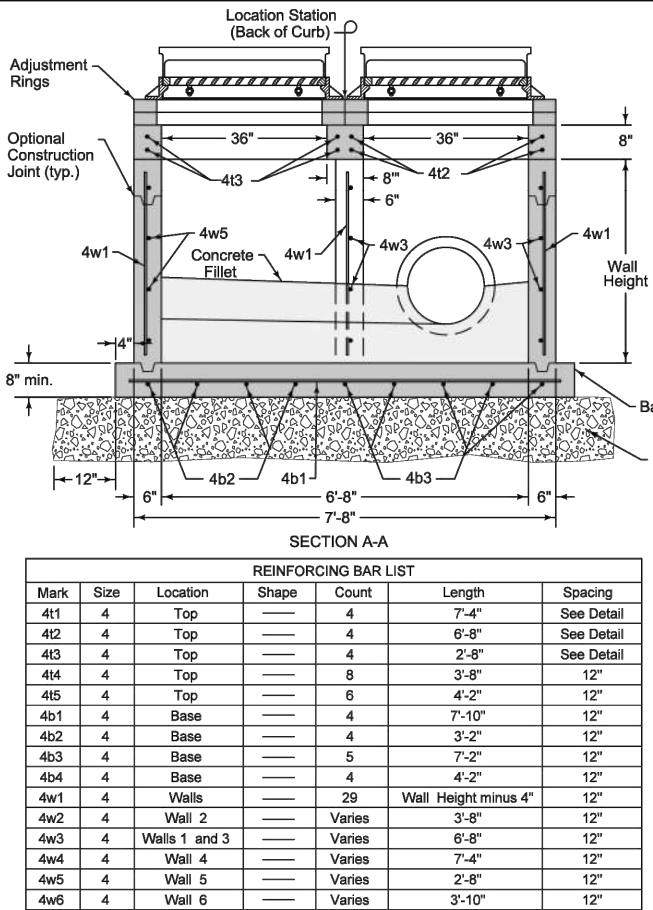
TYPICAL SECTION

Mark	Size	Location	Shape	Count	Length	Spacing
4t1	4	Beam	---	4	2'-8"	4"
4b1	4	Base	---	4	7'-10"	10"
4b2	4	Base	---	8	3'-2"	12"
4w1	4	Walls	---	20	Wall Height minus 4"	12"
4w2	4	Long Walls	---	Varies	7'-4"	12"
4w3	4	Short Walls	---	Varies	2'-8"	12"

Pipe Location	Precast Structure	Cast-in-place Structure
Short Wall	15"	18"
Long Wall	60"	66"

SUDAS	IOWADOT	REVISION 3 04-21-20
FIGURE 600.505	STANDARD ROAD PLAN	SW-505
REVISIONS: Added Class I Bedding Material.		
Paul D. Wiegand SUDAS DIRECTOR / DESIGN METHOD ENGINEER		
DOUBLE GRATE INTAKE		

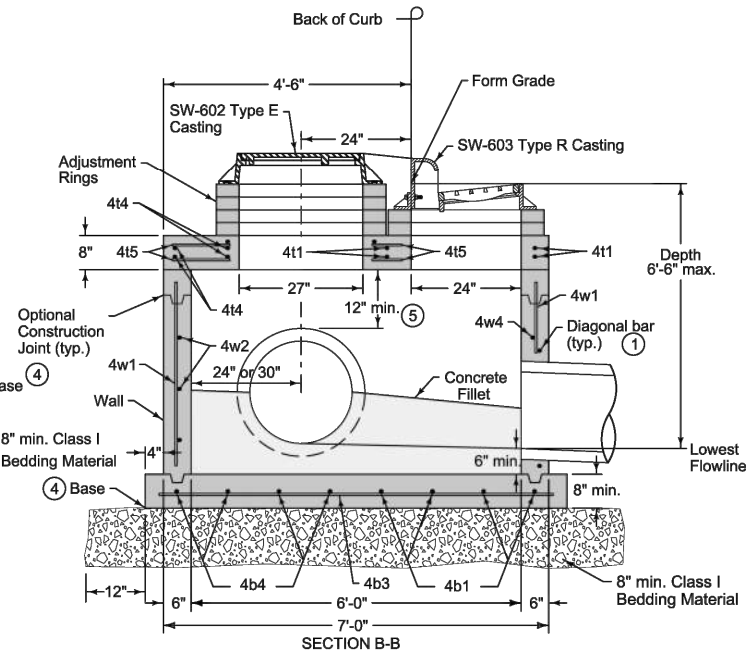
FIGURE 600.505 SHEET 2 OF 2



SECTION A-A

Mark	Size	Location	Shape	Count	Length	Spacing
4t1	4	Top	---	4	7'-4"	See Detail
4t2	4	Top	---	4	6'-8"	See Detail
4t3	4	Top	---	4	2'-8"	See Detail
4t4	4	Top	---	8	3'-8"	12"
4t5	4	Top	---	6	4'-2"	12"
4b1	4	Base	---	4	7'-10"	12"
4b2	4	Base	---	4	3'-2"	12"
4b3	4	Base	---	5	7'-2"	12"
4b4	4	Base	---	4	4'-2"	12"
4w1	4	Walls	---	29	Wall Height minus 4"	12"
4w2	4	Wall 2	---	Varies	3'-8"	12"
4w3	4	Walls 1 and 3	---	Varies	6'-8"	12"
4w4	4	Wall 4	---	Varies	7'-4"	12"
4w5	4	Wall 5	---	Varies	2'-8"	12"
4w6	4	Wall 6	---	Varies	3'-10"	12"

FIGURE 6010.506 SHEET 2 OF 2



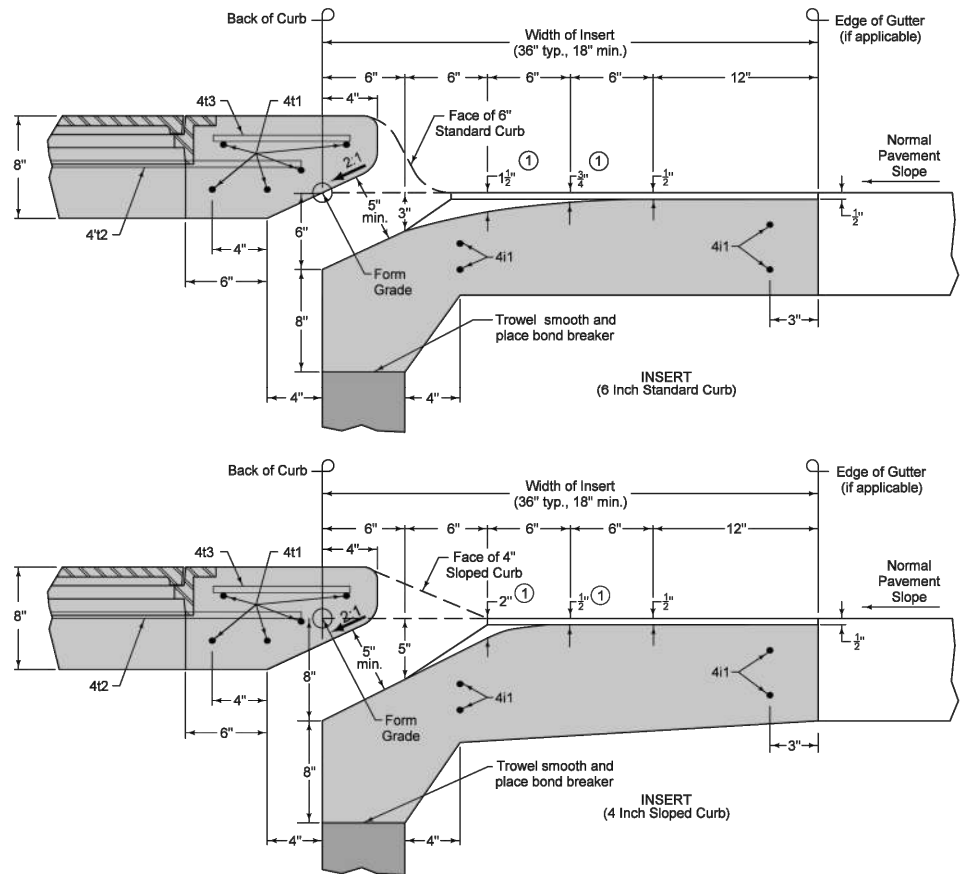
SECTION B-B

- 1 Install four #4 diagonal bars at manhole opening and at all pipe openings.
- 4 Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.
- 5 12 inch minimum wall height above all pipes.

SUDAS	IOWADOT	REVISION 4 04-21-20
FIGURE 6010.506	STANDARD ROAD PLAN	SW-506
REVISIONS: Added Class I Bedding Material.		
Paul D. Wiegand SUDAS DIRECTOR / DESIGN METHOD ENGINEER		
DOUBLE GRATE INTAKE WITH MANHOLE		

DESIGNED	REV	DESCRIPTION	DATE
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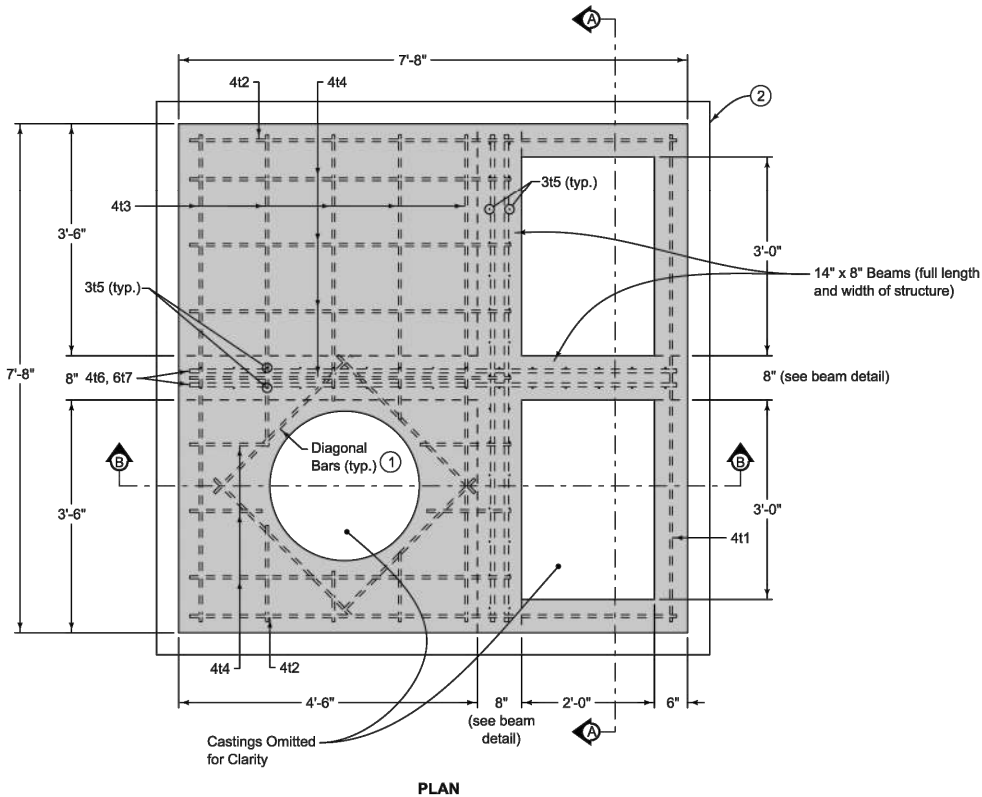
FIGURE 600.507 SHEET 1 OF 2



① Insert shaping may be modified for insert widths less than 36 inches. For an 18 inch insert, reduce dimensions indicated by 1/2 inch.

SUDAS	IOWADOT	REVISION
FIGURE 600.507	STANDARD ROAD PLAN	SW-507
REVISIONS: Added Class I Bedding Material and changed maximum box out length to 17'		4 04-21-20
Paul D. Wiegand		DESIGN METHOD ENGINEER
SHEET 1 of 2		
SINGLE OPEN-THROAT CURB INTAKE, SMALL BOX		

FIGURE 600.516 SHEET 1 OF 3



Maximum pipe diameters are set based on maximum structure depth of 6 feet-6 inches.

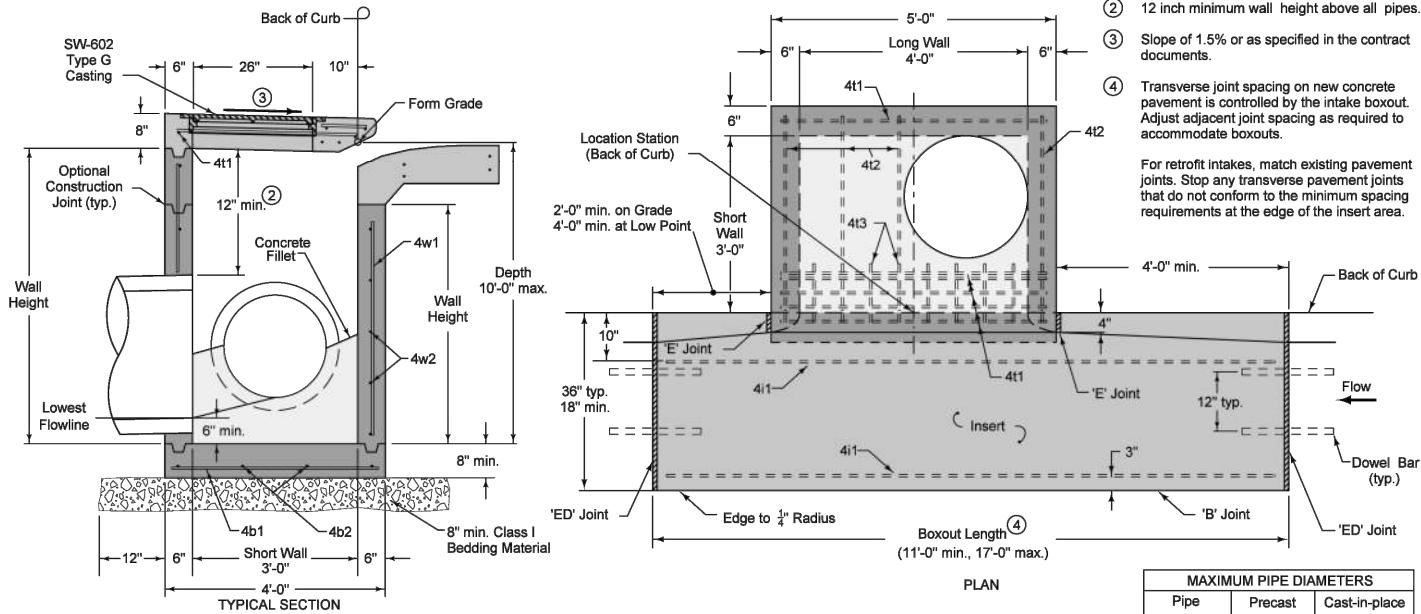
Refer to SW-514 for boxout details.

- ① Install four #4 diagonal bars at manhole opening and at all pipe openings.
- ② Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.

MAXIMUM PIPE DIAMETERS	
Wall	Max. Dia.
Front/Back	36"
Sides	42"

SUDAS	IOWADOT	REVISION
FIGURE 600.516	STANDARD ROAD PLAN	SW-516
REVISIONS: New		4-18-24
SHEET 1 of 3		
LARGE WELL DOUBLE GRATE INTAKE WITH MANHOLE		

FIGURE 600.507 SHEET 2 OF 2

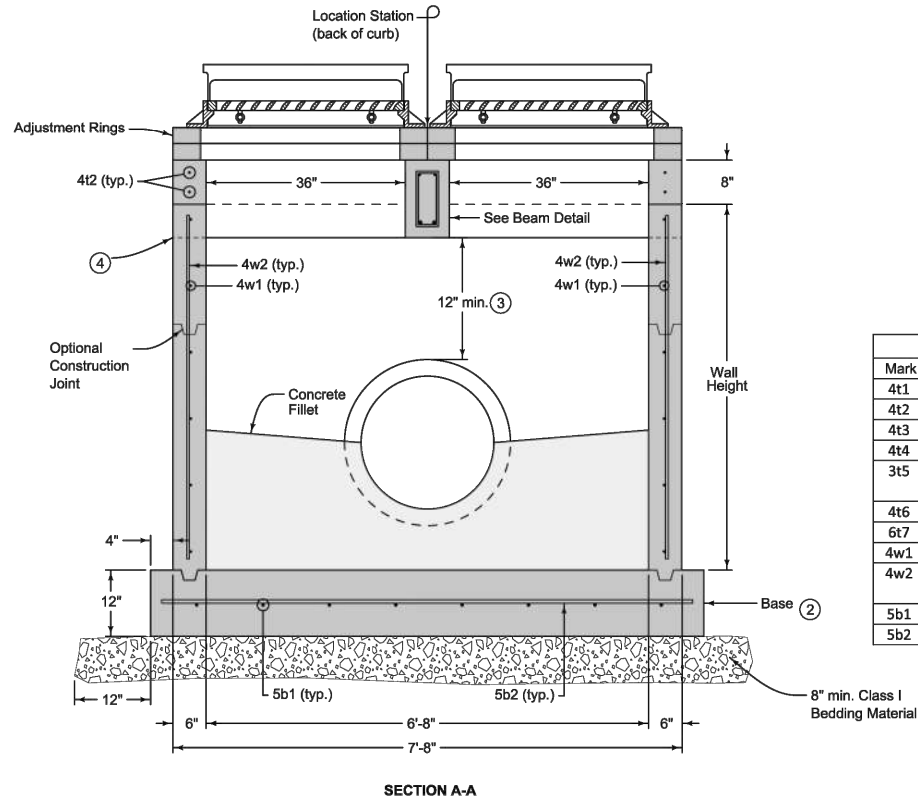


REINFORCING BAR LIST						
Mark	Size	Location	Shape	Count	Length	Spacing
4t1	4	Top	—	6	4'-8"	See Insert
4t2	4	Top	—	4	3'-6"	12"
4t3	4	Top	—	10	10"	6"
4b1	4	Base	—	6	3'-6"	1' 1"
4b2	4	Base	—	5	4'-6"	10"
4i1	4	Insert	—	4	Boxout Length minus 8"	See Plan
4w1	4	Walls	—	14	Wall Height minus 4"	14"
4w2	4	Long Walls	—	Varies	4'-8"	12"
4w3	4	Short Walls	—	Varies	3'-8"	12"

MAXIMUM PIPE DIAMETERS		
Pipe Location	Precast Structure	Cast-in-place Structure
Short Wall	24"	30"
Long Wall	30"	36"

SUDAS	IOWADOT	REVISION
FIGURE 600.507	STANDARD ROAD PLAN	SW-507
REVISIONS: Added Class I Bedding Material and changed maximum box out length to 17'		4 04-21-20
Paul D. Wiegand		DESIGN METHOD ENGINEER
SHEET 2 of 2		
SINGLE OPEN-THROAT CURB INTAKE, SMALL BOX		

FIGURE 600.516 SHEET 2 OF 3

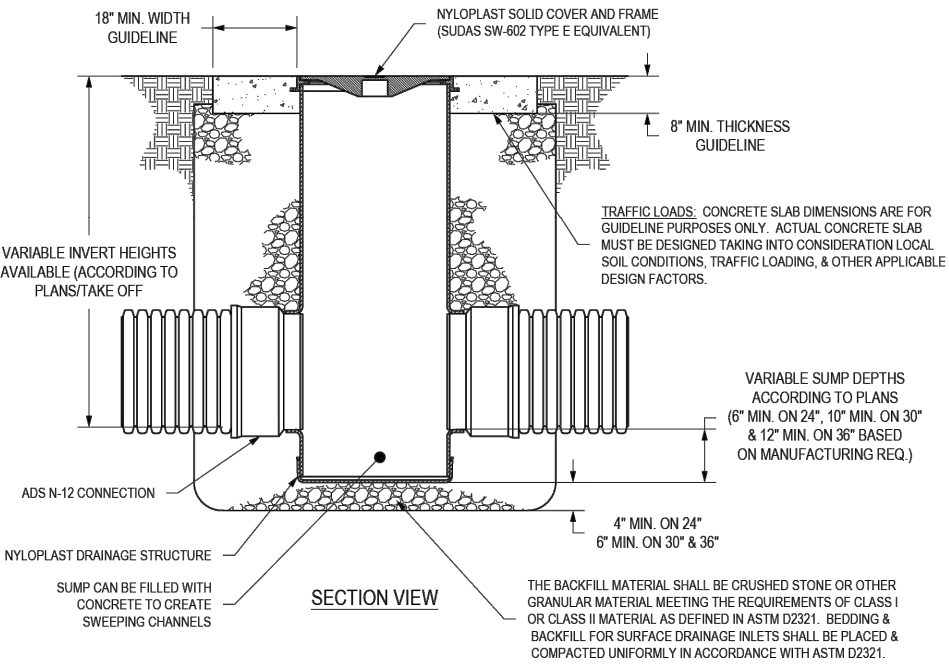


- ① Install four #4 diagonal bars at manhole opening and at all pipe openings.
- ② Cast-in-place base shown. If base is precast integral with walls, the footprint of the base is not required to extend beyond the outer edge of the walls.
- ③ 12 inch minimum wall height above all pipes.
- ④ Form pockets in the wall to receive integral beams in the top.

REINFORCING BAR LIST						
Mark	Size	Location	Shape	Count	Length	Spacing
4t1	4	Top	—	2	7'-4"	See Detail
4t2	4	Top	—	4	7'-4"	See Detail
4t3	4	Top	—	10	7'-4"	12"
4t4	4	Top	—	14	4'-2"	12"
3t5	3	Top	—	30	3'-1"	6"
4t6	4	Top	—	4	7'-4"	See Detail
6t7	6	Top	—	4	7'-4"	See Detail
4w1	4	Walls	—	Varies	7'-4"	12"
4w2	4	Walls	—	32	Wall Height minus 4"	12"
5b1	5	Base	—	9	7'-10"	12"
5b2	5	Base	—	9	7'-10"	12"

SUDAS	IOWADOT	REVISION
FIGURE 600.516	STANDARD ROAD PLAN	SW-516
REVISIONS: New		4-18-24
SHEET 2 of 3		
LARGE WELL DOUBLE GRATE INTAKE WITH MANHOLE		

NYLOPLAST STRUCTURES EQUIVALENT TO SUDAS SW-401 & SW-402



TOP VIEW
NYLOPLAST SOLID COVER AND FRAME

NYLOPLAST STRUCTURE SIZE (INCHES)	MAXIMUM PIPE DIAMETER (INCHES) FOR 2 PIPES	
	AT 180° SEPERATION	AT 90° SEPERATION
24	24	18
30	30	24
36	36	24

SEE NYLOPLAST DRAWING NO. 7001-110-012 FOR MORE INFORMATION

- NOTES:
- 1 - 24" & 30" SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 - 2 - 24" & 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 - 3 - 36" X 30" REDUCING TO SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
 - 4 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
 - 5 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
 - 6 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
 - 7 - 24" & 30" SOLID COVERS SHALL MEET H-20 LOAD RATING.
 - 8 - SUMP CAN BE FILLED WITH CONCRETE AND MOLDED TO CREATE SWEEPING CHANNELS IF DESIRED.

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DATE	08-13-24	
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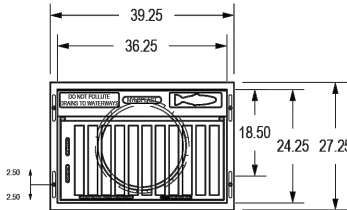
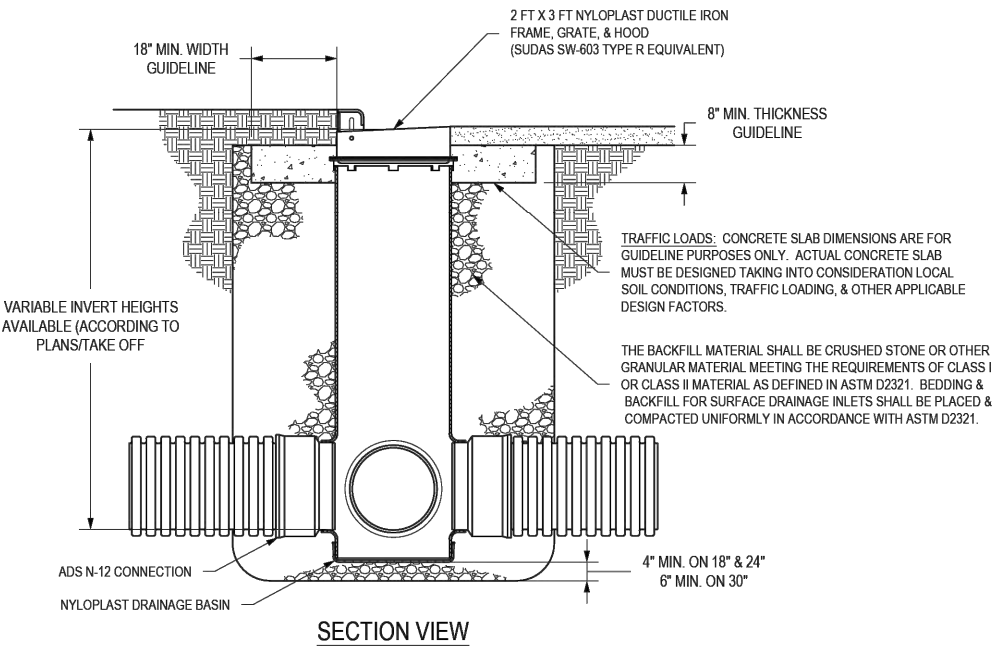


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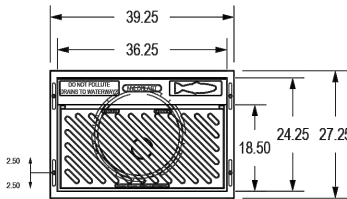
TITLE
NYLOPLAST 24"-36" DRAIN BASIN WITH SOLID COVER
EQUIVALENT TO SUDAS SW-401 & SW-402

DWG NO. SW-401 & SW-402 REV A

NYLOPLAST 2 FT X 3 FT ROLL CURB INLET STRUCTURE EQUIVALENT TO SUDAS SW-501 & SW-502



TOP VIEW
CURB INLET HOOD, HIGH FLOW
GRATE, AND FRAME



TOP VIEW
CURB INLET HOOD, DIAGONAL
GRATE, AND FRAME

NYLOPLAST DRAIN BASIN SIZE (INCHES)	MAXIMUM PIPE DIAMETER (INCHES) FOR 2 PIPES	
	AT 180° SEPERATION	AT 90° SEPERATION
18	18	15
24	24	18
30	30	24
36	36	24

SEE NYLOPLAST DRAWING NO. 7001-110-012 FOR MORE INFORMATION

- 1 - 18" - 30" FRAMES, GRATES, HOODS, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - 36" X 30" REDUCING PLATE SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
- 4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
- 5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- 6 - ALL ROLL CURB INLET GRATE OPTIONS SHALL MEET H-20 LOAD RATING

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DATE	08-13-24	
APPD BY	NMH	PROJECT NO./NAME
DATE	08-13-24	
DWG SIZE	A	SCALE 1:30 SHEET 1 OF 1

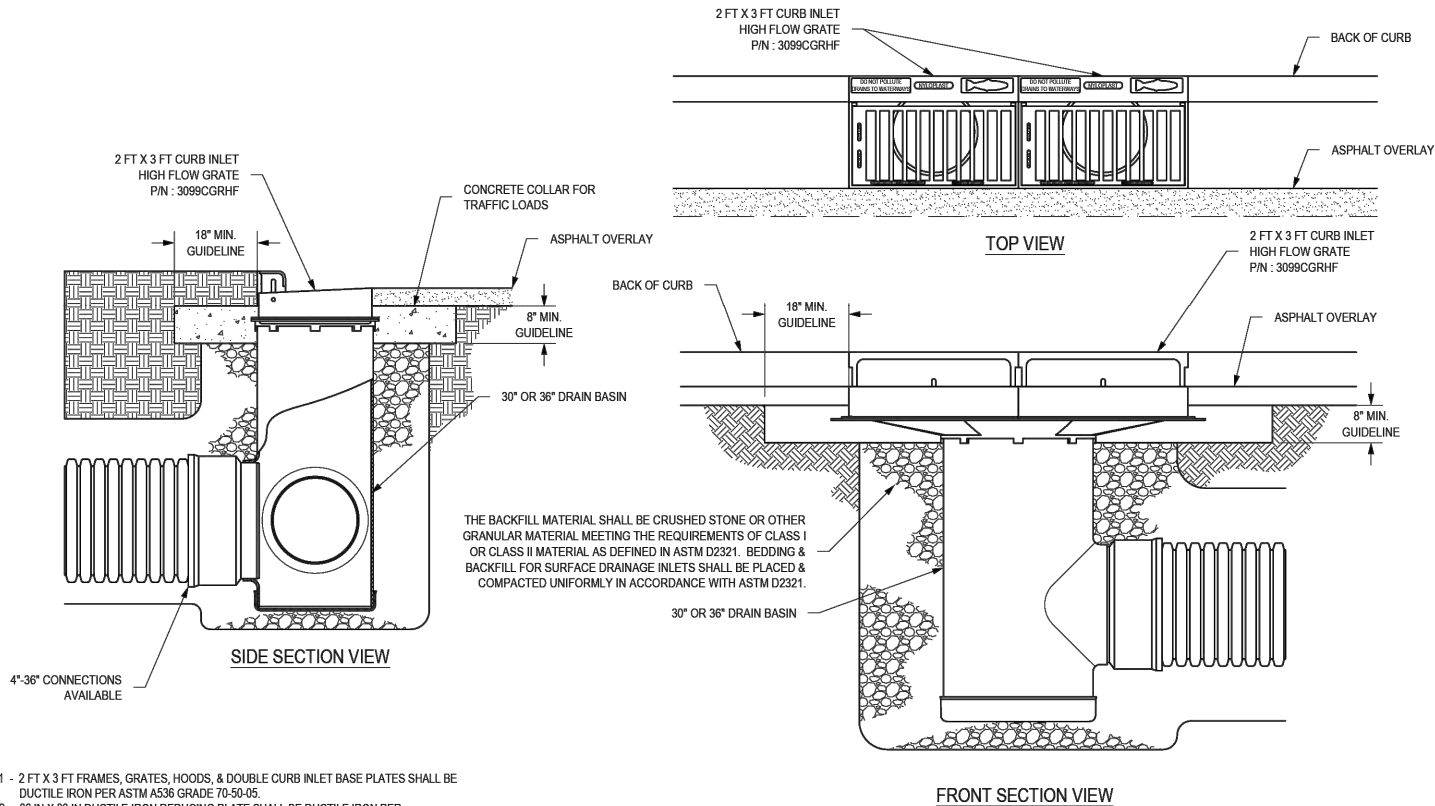


3130 VERONA AVE
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PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE
NYLOPLAST 2 FT X 3 FT ROLL CURB INLET STRUCTURE
EQUIVALENT TO SUDAS SW-501 & SW-502

DWG NO. SW-501 & SW-502 REV A

NYLOPLAST DOUBLE 2 FT X 3 FT CURB INLET STRUCTURE EQUIVALENT TO SUDAS SW-505



- 2 FT X 3 FT FRAMES, GRATES, HOODS, & DOUBLE CURB INLET BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 36 IN X 30 IN DUCTILE IRON REDUCING PLATE SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4\"/>

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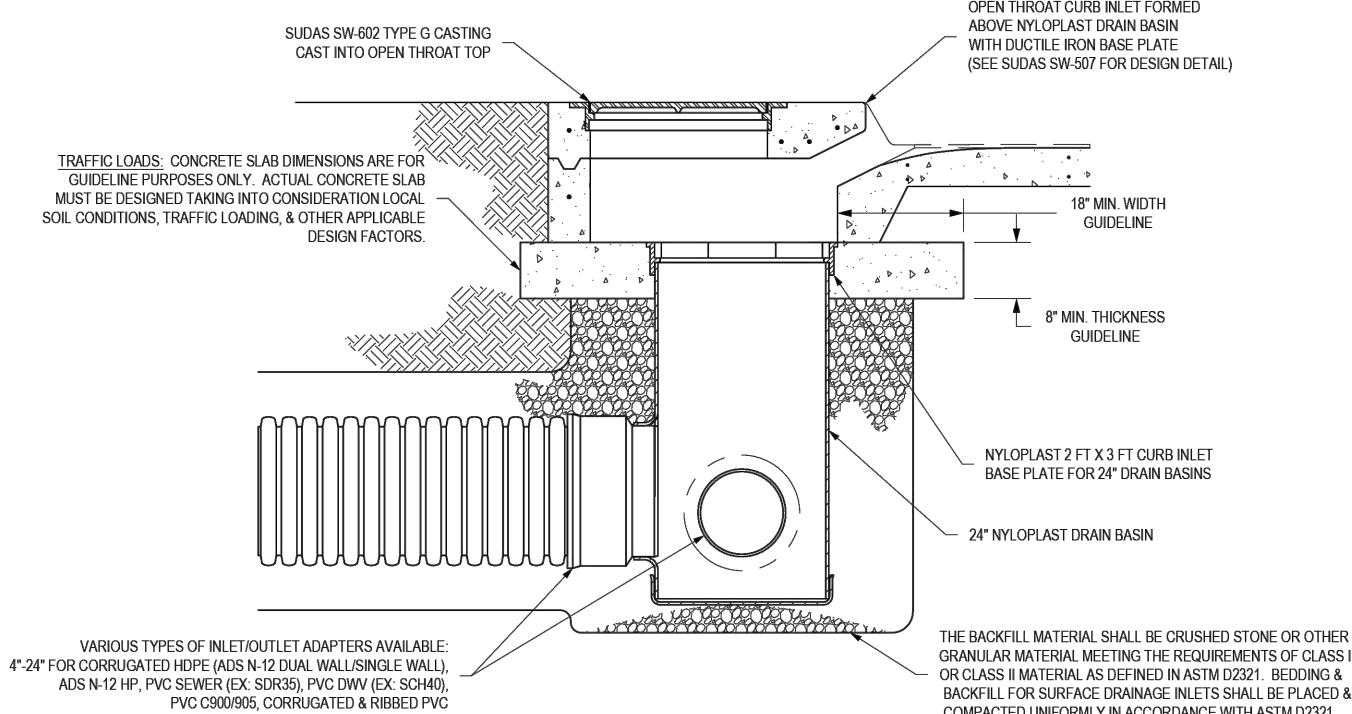
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APPD BY	NMH	DATE	08-13-24
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SHEET	1 OF 1	TITLE	DOUBLE 2 FT X 3 FT CURB INLET STRUCTURE EQUIVALENT TO SUDAS SW-505

DWG NO.	SW-505	REV	A
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NYLOPLAST 24" DRAIN BASIN WITH BASE PLATE EQUIVALENT TO SUDAS SW-507



- 24\"/>
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4\"/>
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0\"/>
- SEE SUDAS SW-507 STANDARD SPECIFICATION FOR CONCRETE CURB CURB OPEN THROAT DETAILS.

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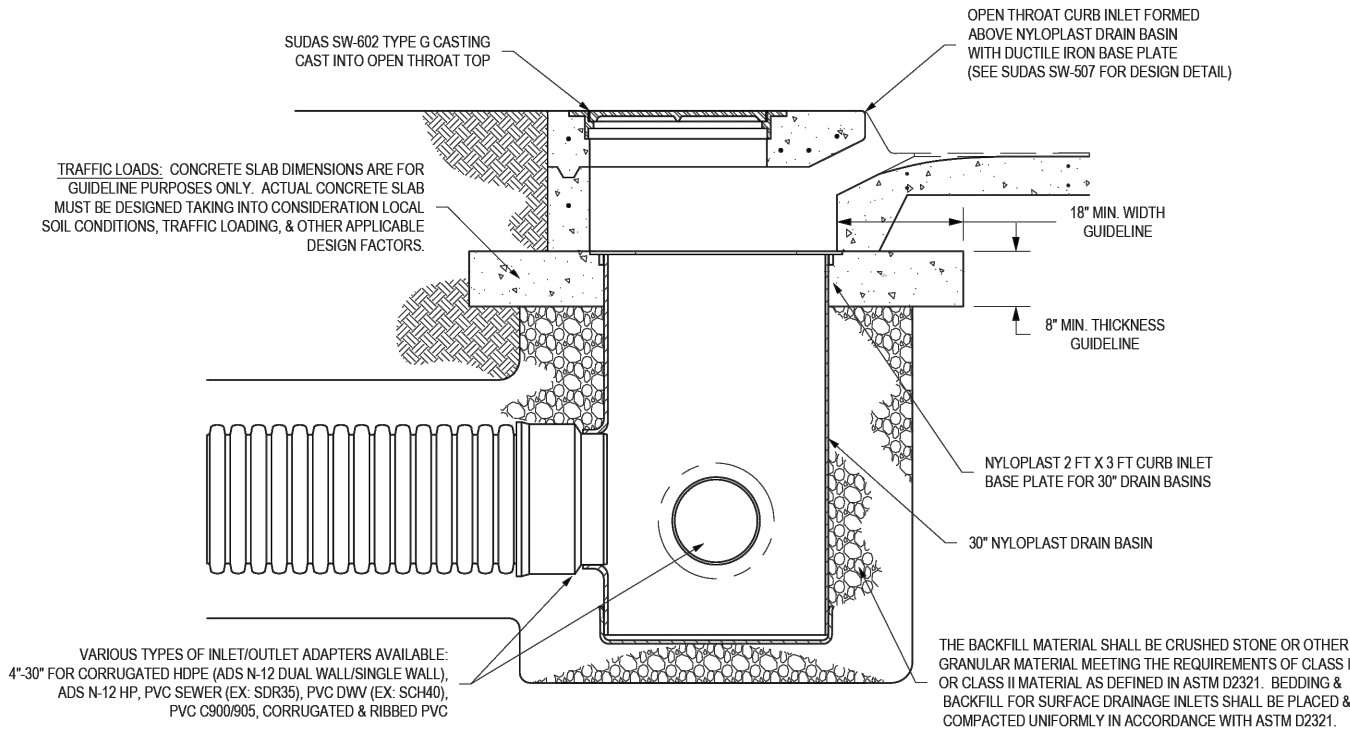
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DATE	08-13-24	PROJECT NO./NAME	
APPD BY	NMH	DATE	08-13-24
DWG SIZE	A	SCALE	1:20
SHEET	1 OF 1	TITLE	24 IN DRAIN BASIN WITH 2 FT X 3 FT CURB INLET BASE PLATE EQUIVALENT TO SUDAS SW-507

DWG NO.	SW-507 / 24 IN BASIN	REV	A
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NYLOPLAST 30" DRAIN BASIN WITH BASE PLATE EQUIVALENT TO SUDAS SW-507



- 1 - 30" BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS.
- 3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 30").
- 4 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- 5 - SEE SUDAS SW-507 STANDARD SPECIFICATION FOR CONCRETE CURB CURB OPEN THROAT DETAILS.

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APPD BY	NMH	PROJECT NO./NAME
DATE	08-13-24	
DWG SIZE	A	SCALE 1:20 SHEET 1 OF 1

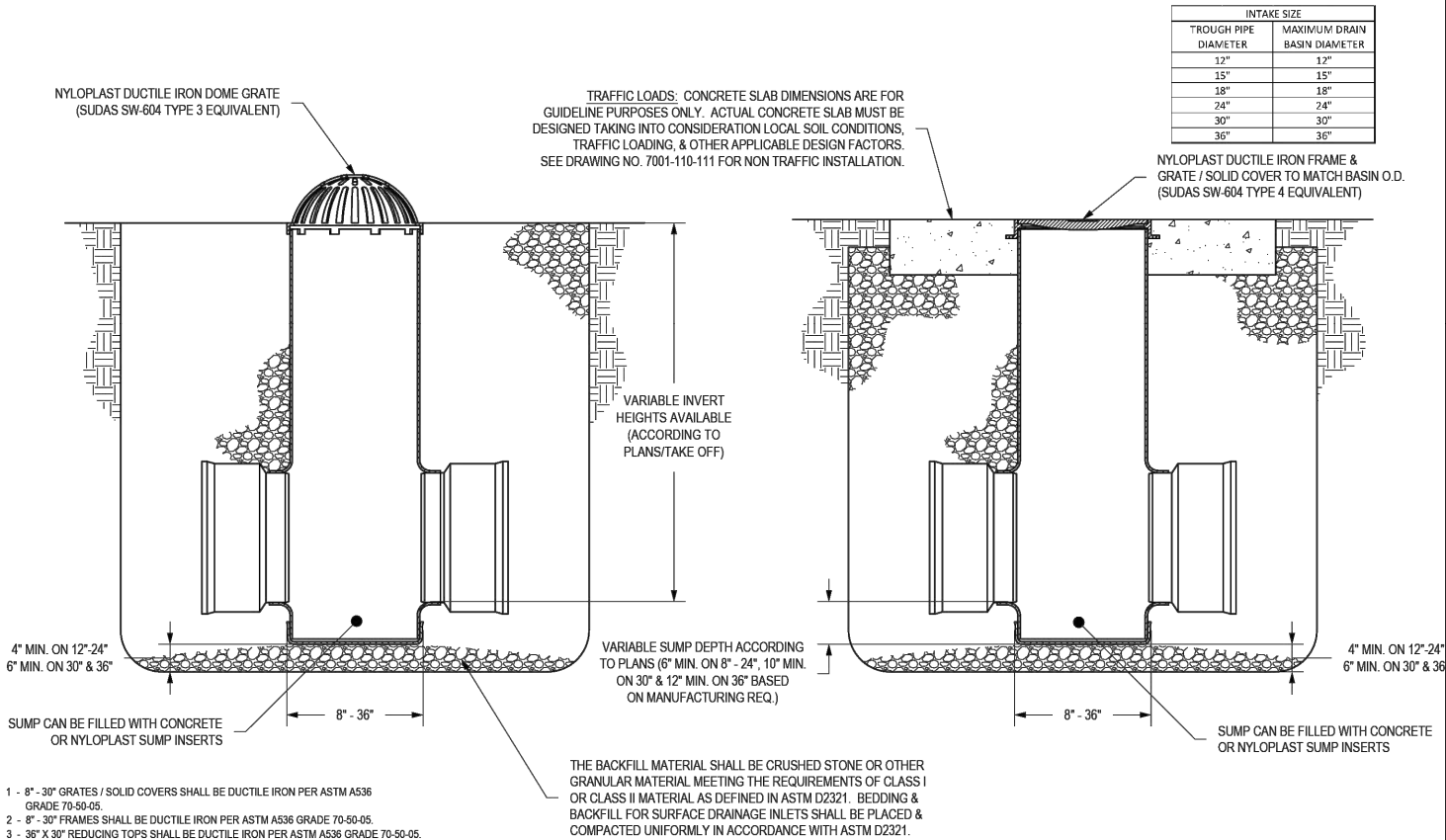


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TITLE
30 IN DRAIN BASIN WITH 2 FT X 3 FT CURB INLET BASE
PLATE EQUIVALENT TO SUDAS SW-507

DWG NO. SW-507 / 30 IN BASIN REV A

NYLOPLAST DRAINAGE STRUCTURES EQUIVALENT TO SUDAS SW-512



- 1 - 8" - 30" GRATES / SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - 8" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 3 - 36" X 30" REDUCING TOPS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 4 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
- 5 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
- 6 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- 7 - 12" - 30" SOLID COVERS SHALL MEET H-20 LOAD RATING.
- 8 - 8" & 10" SOLID COVERS / GRATES ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

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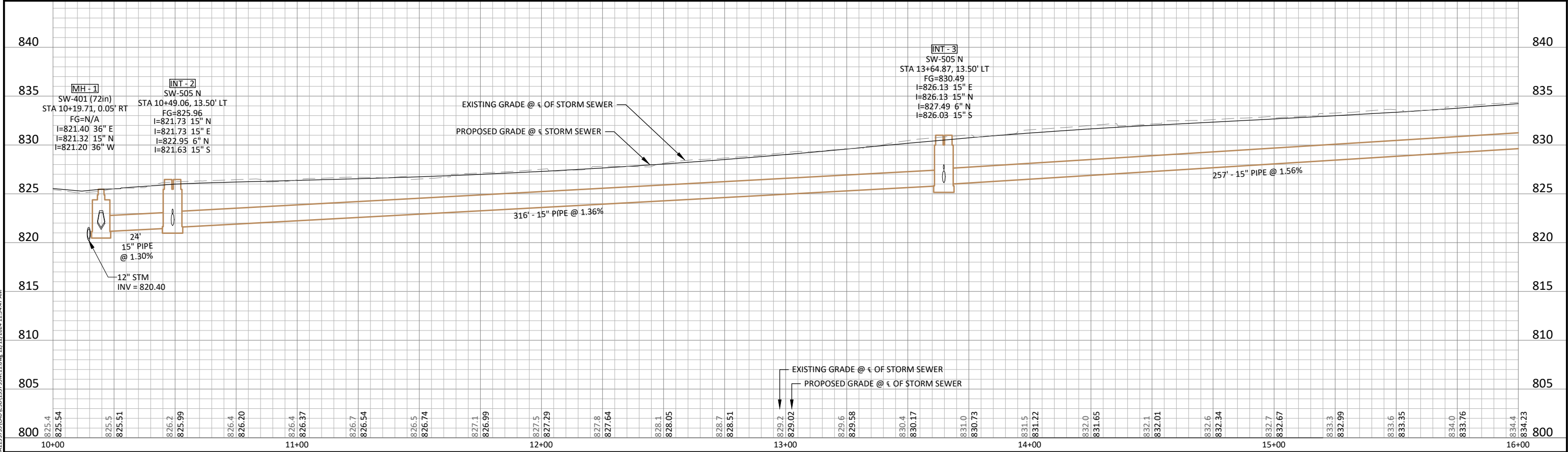
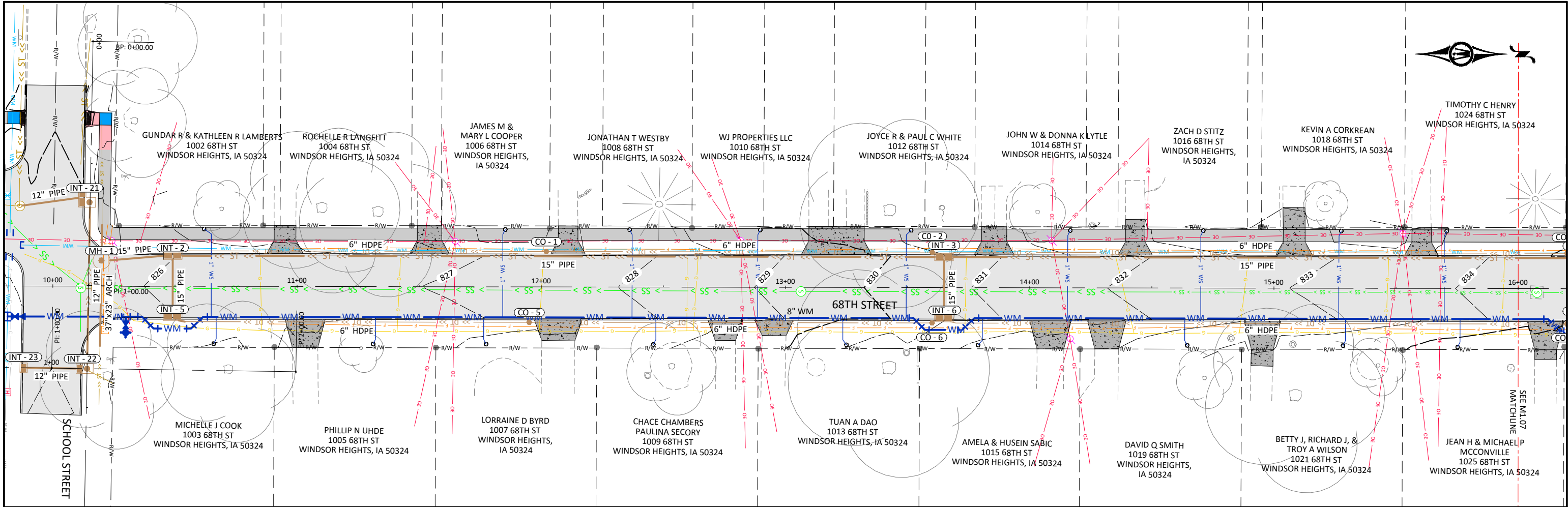
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DWG SIZE	A	SCALE 1:20 SHEET 1 OF 1



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TITLE
NYLOPLAST DRAINAGE STRUCTURE
EQUIVALENT TO SW-512

DWG NO. SW-512 REV A



0 20 40

HORIZ. SCALE FEET

0 5 10

VERT. SCALE FEET

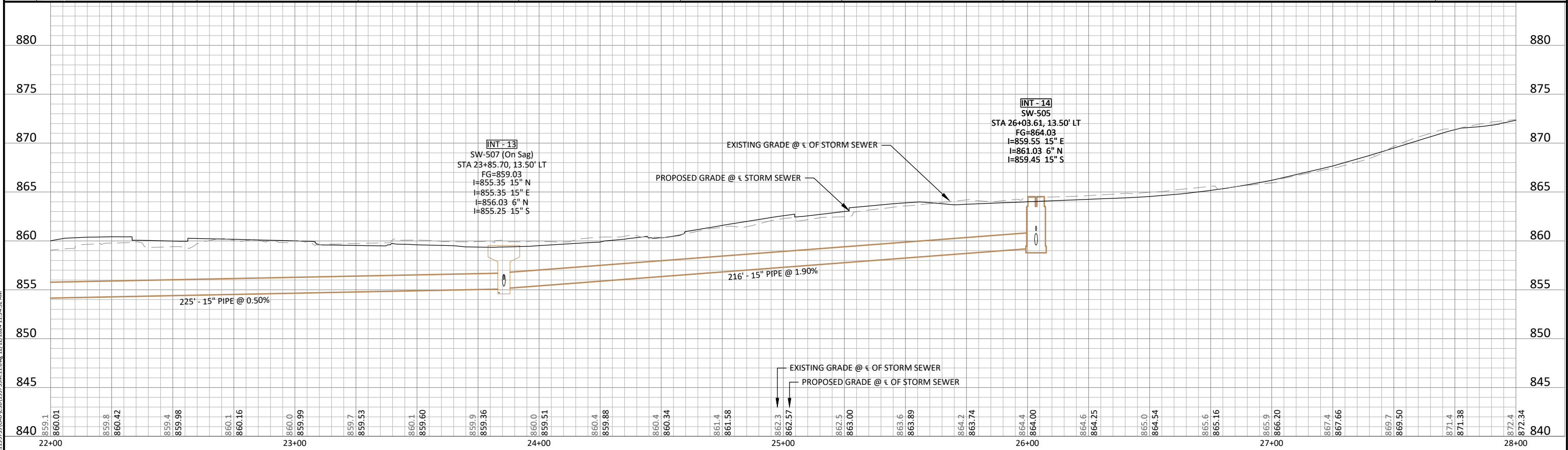
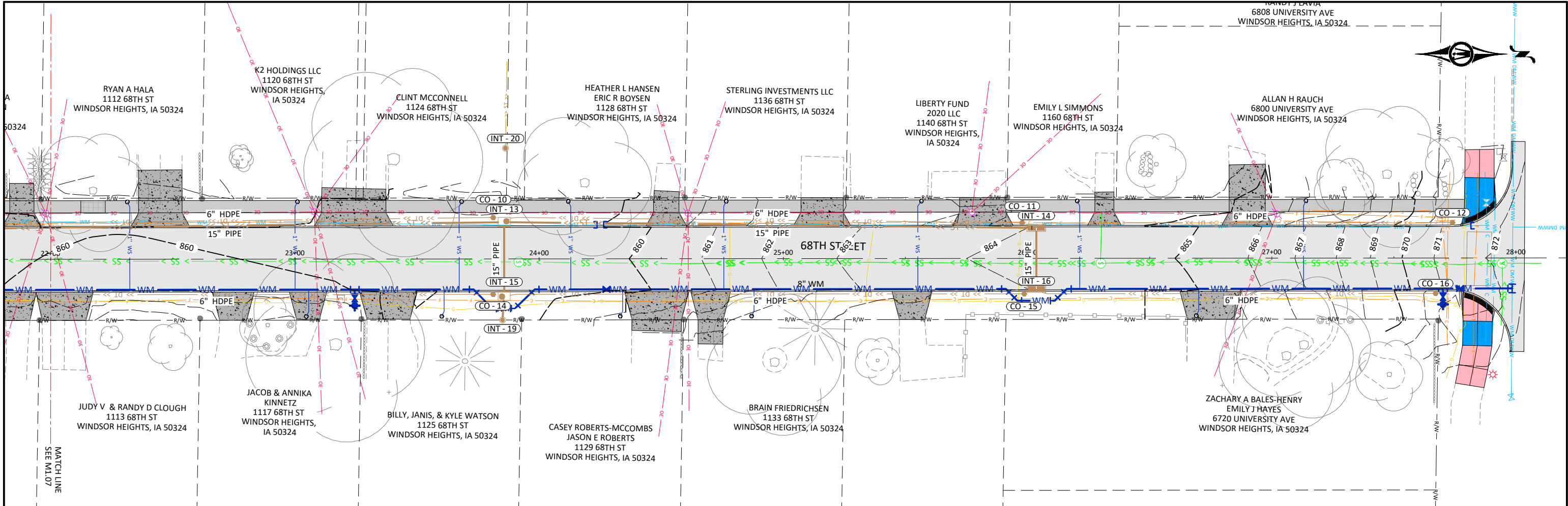
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68TH STREET SOUTH RECONSTRUCTION
STORM SEWER PLAN - 68TH STREET

SHEET

M1.10



0

20

40

HORZ. SCALE

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VERT. SCALE

WH

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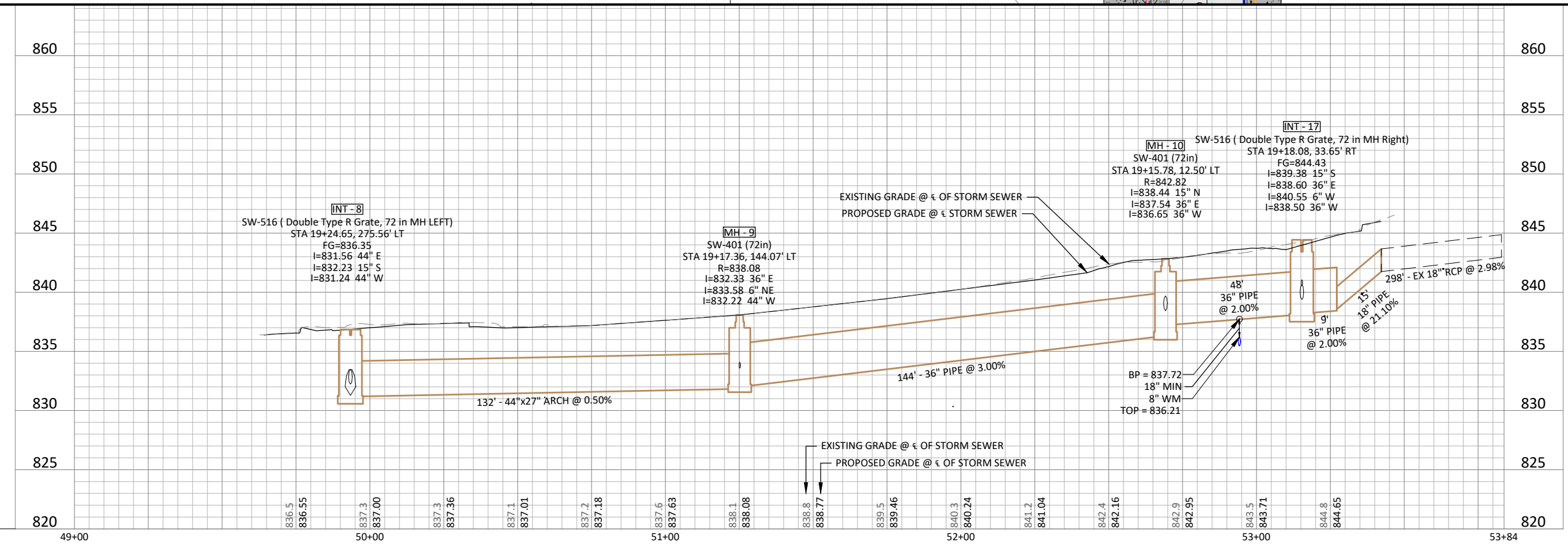
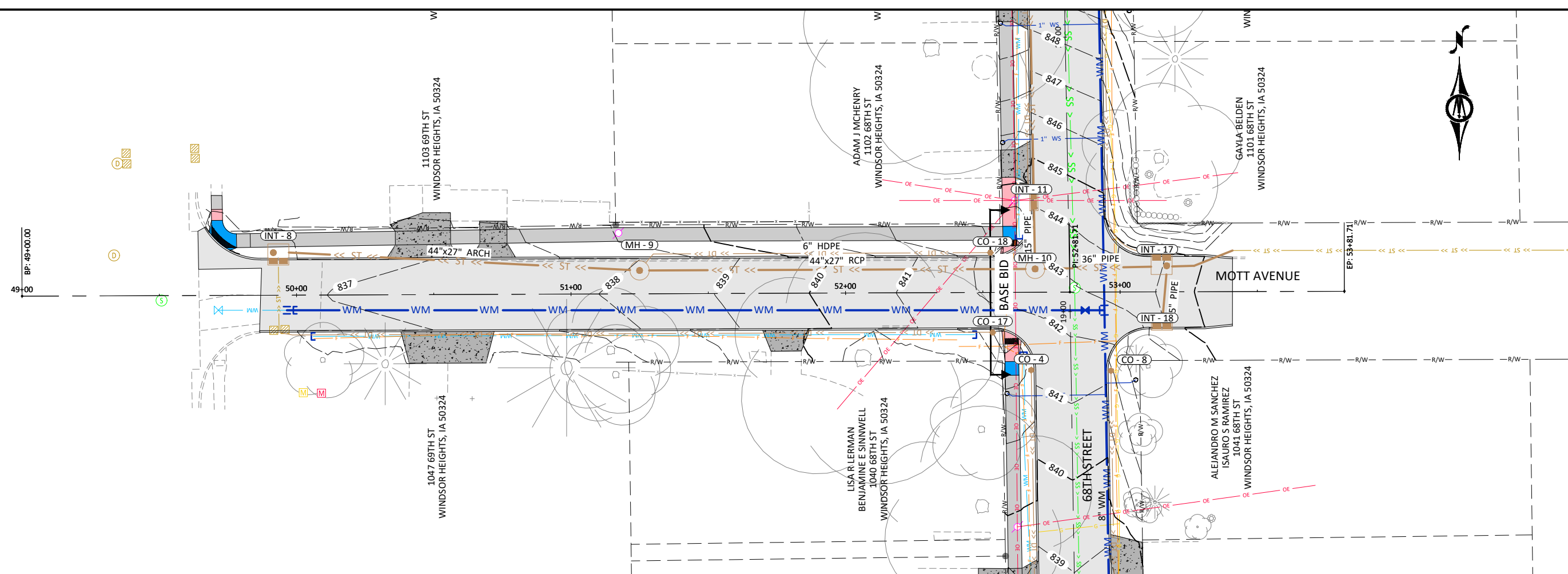
68TH STREET SOUTH RECONSTRUCTION

STORM SEWER PLAN - 68TH STREET

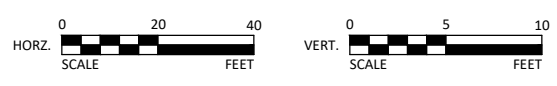
SHEET

M1.12

Page 114 of 371



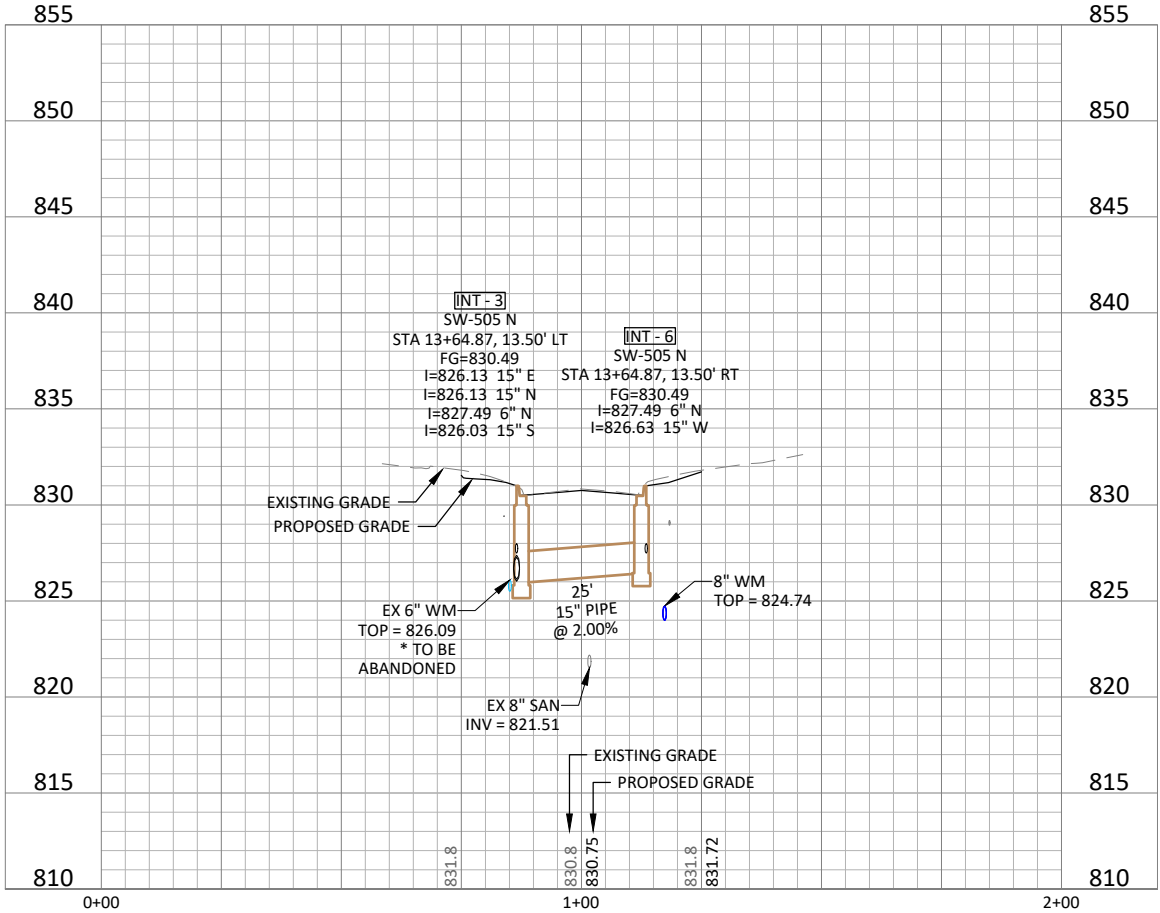
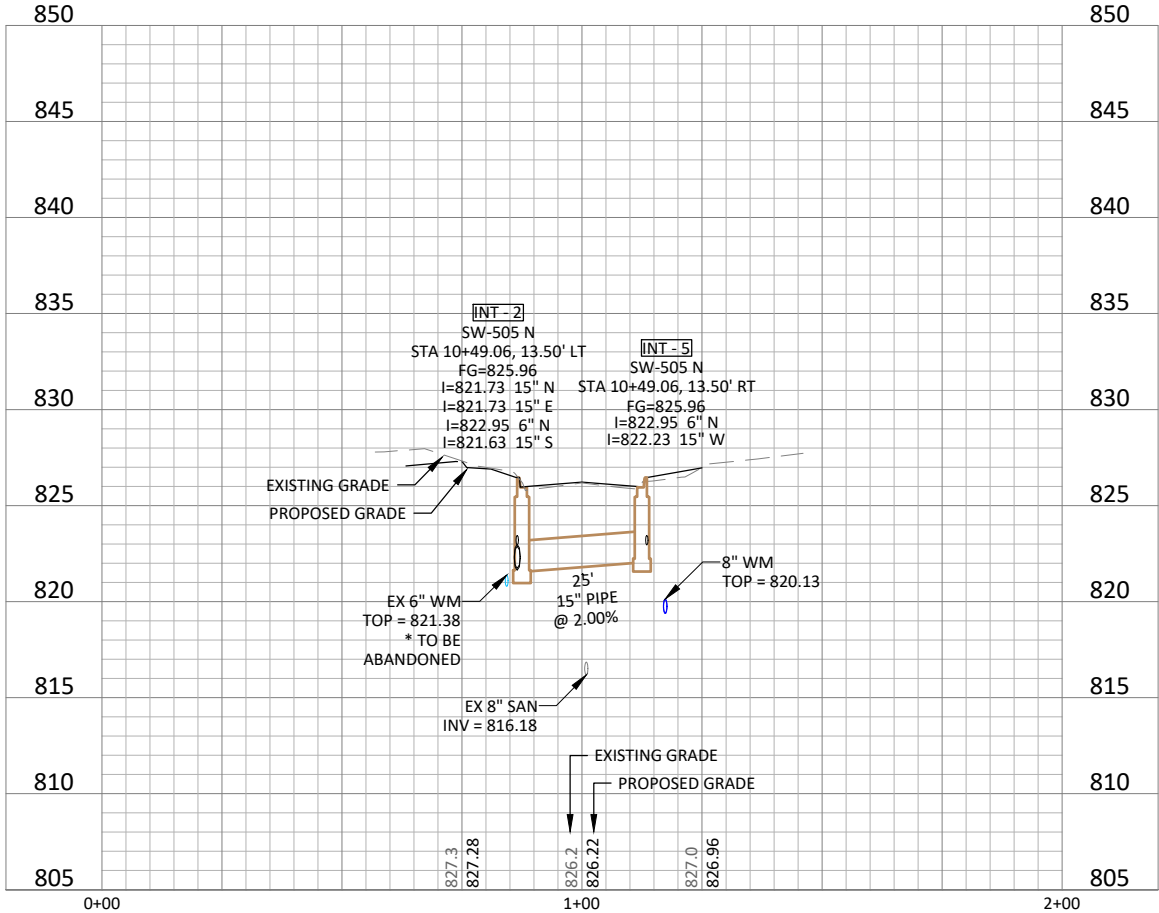
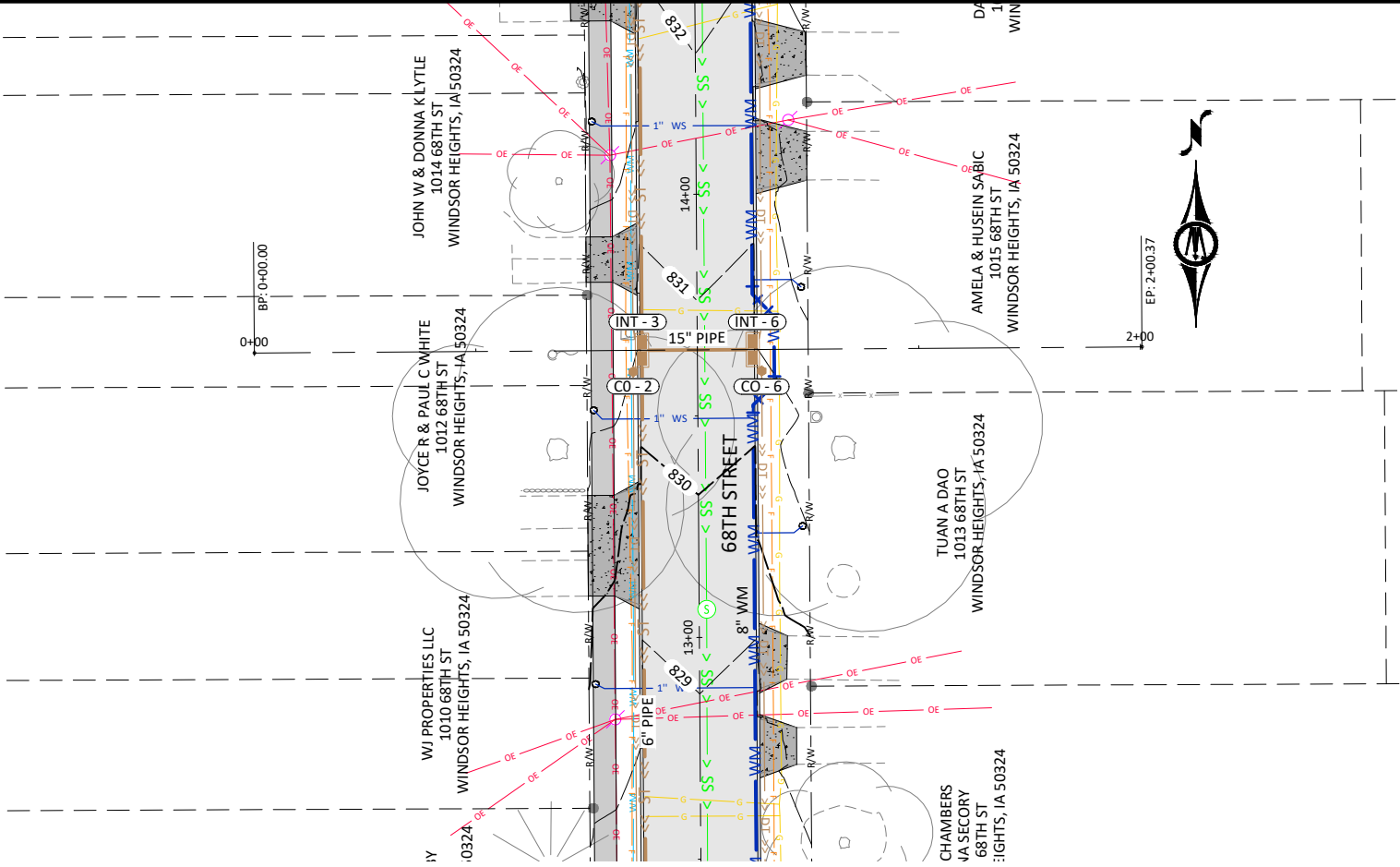
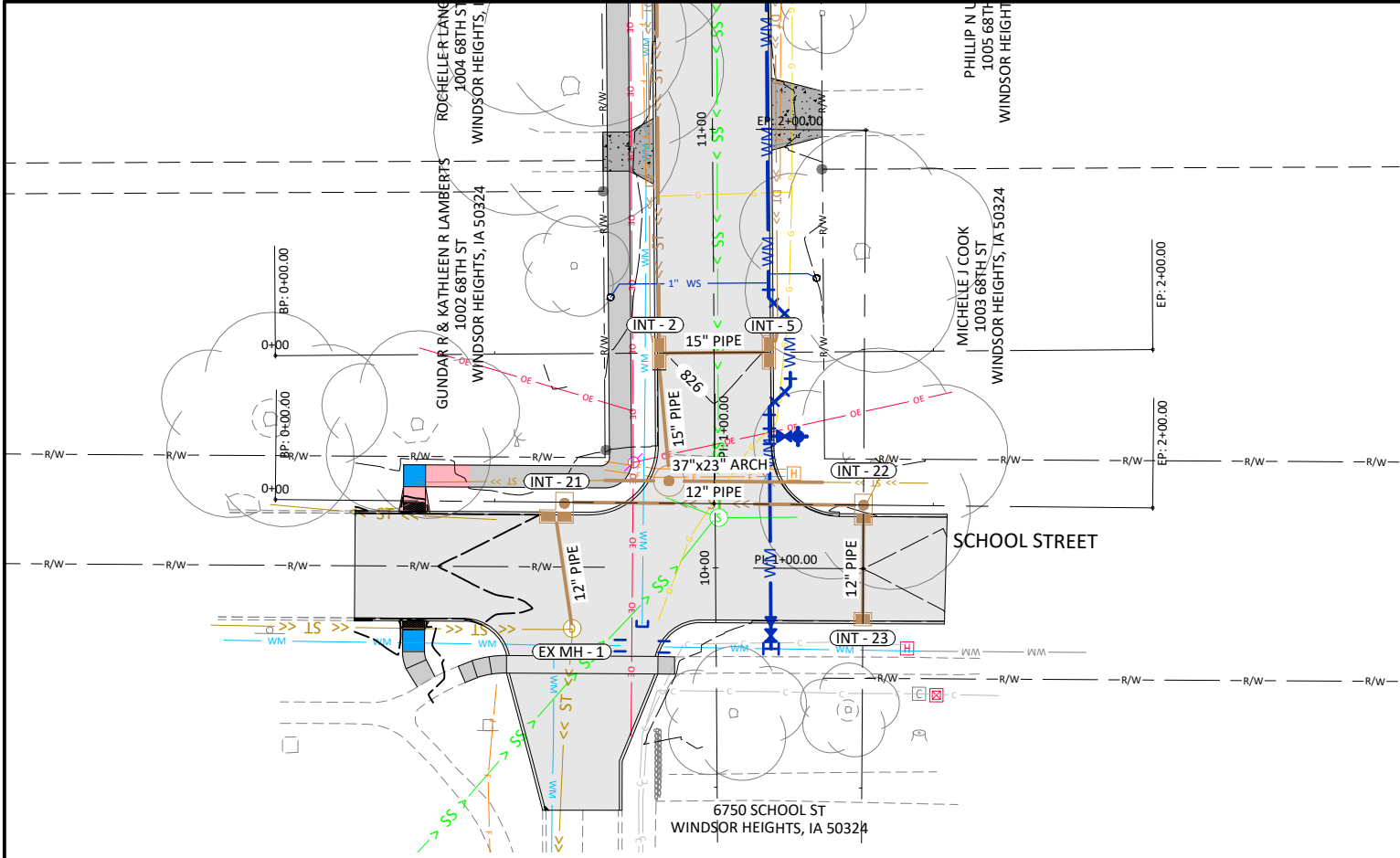
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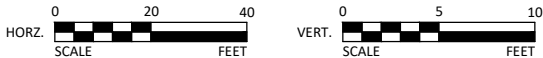
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68TH STREET SOUTH RECONSTRUCTION	M1.13
STORM SEWER PLAN - MOTT AVENUE ALTERNATE A	



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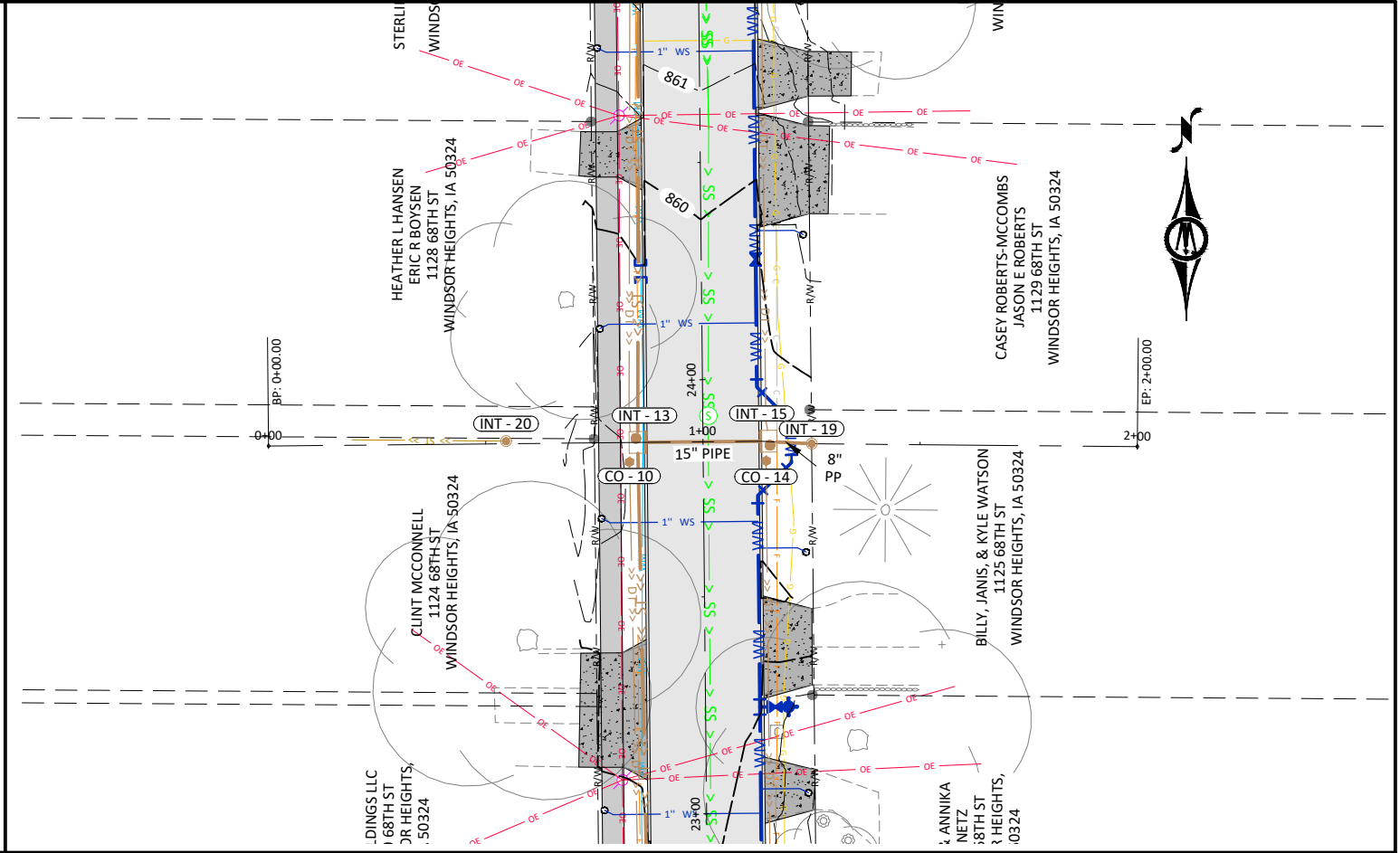
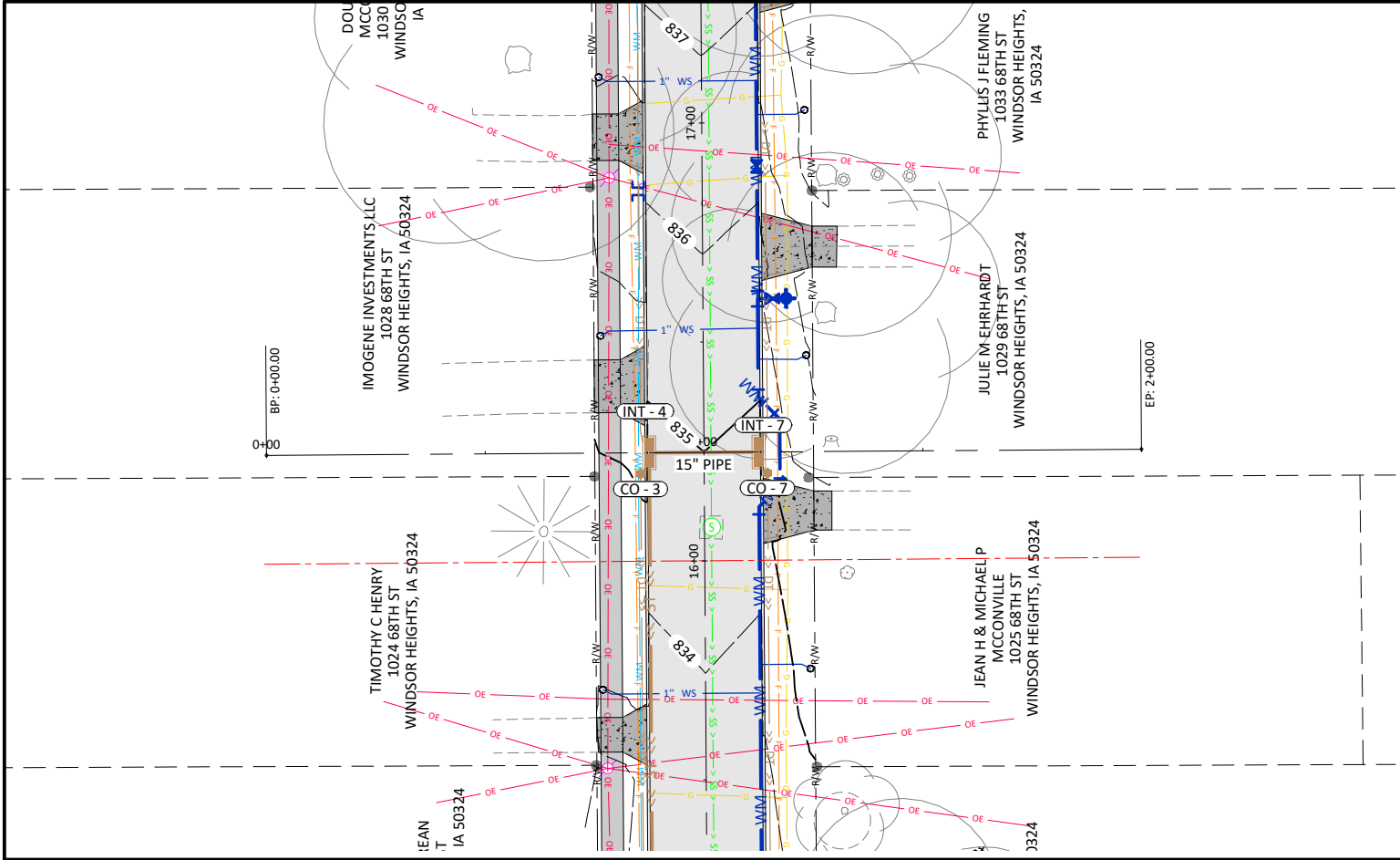


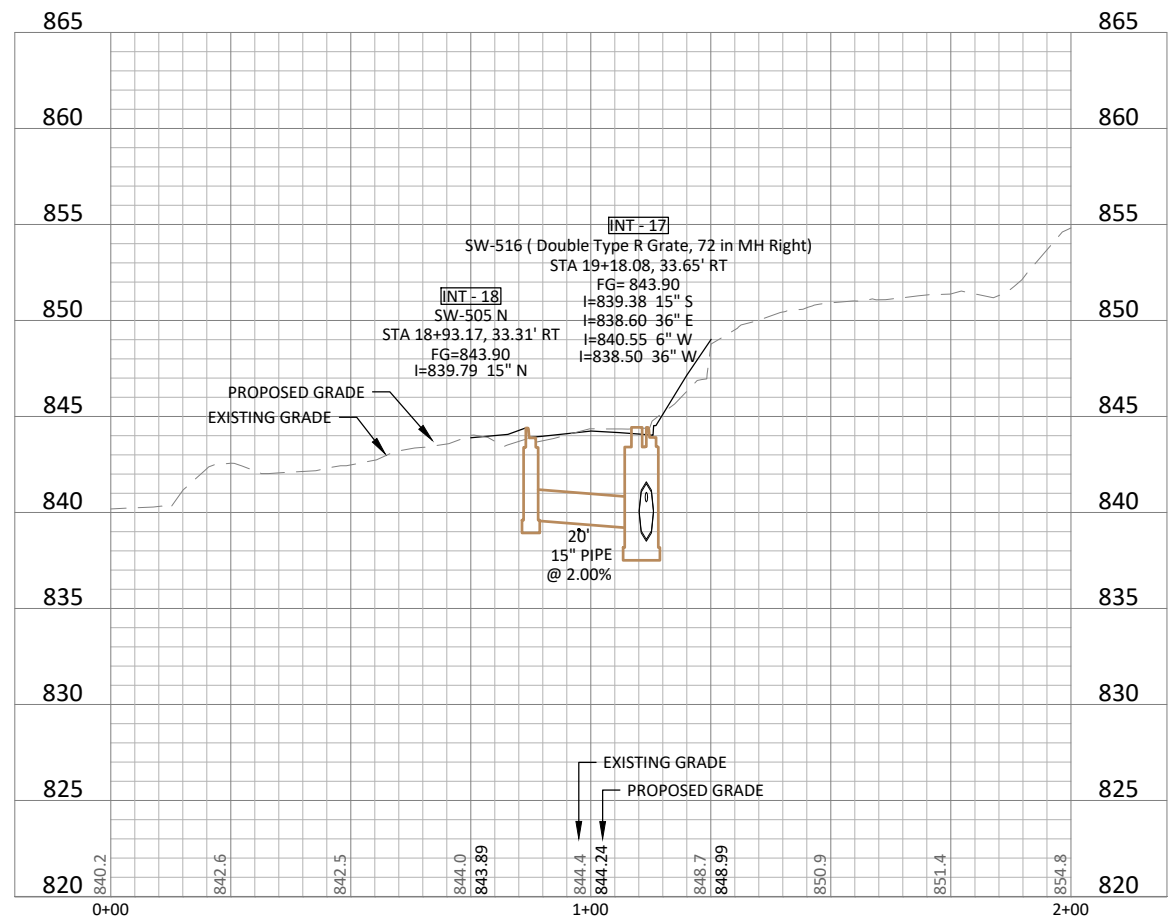
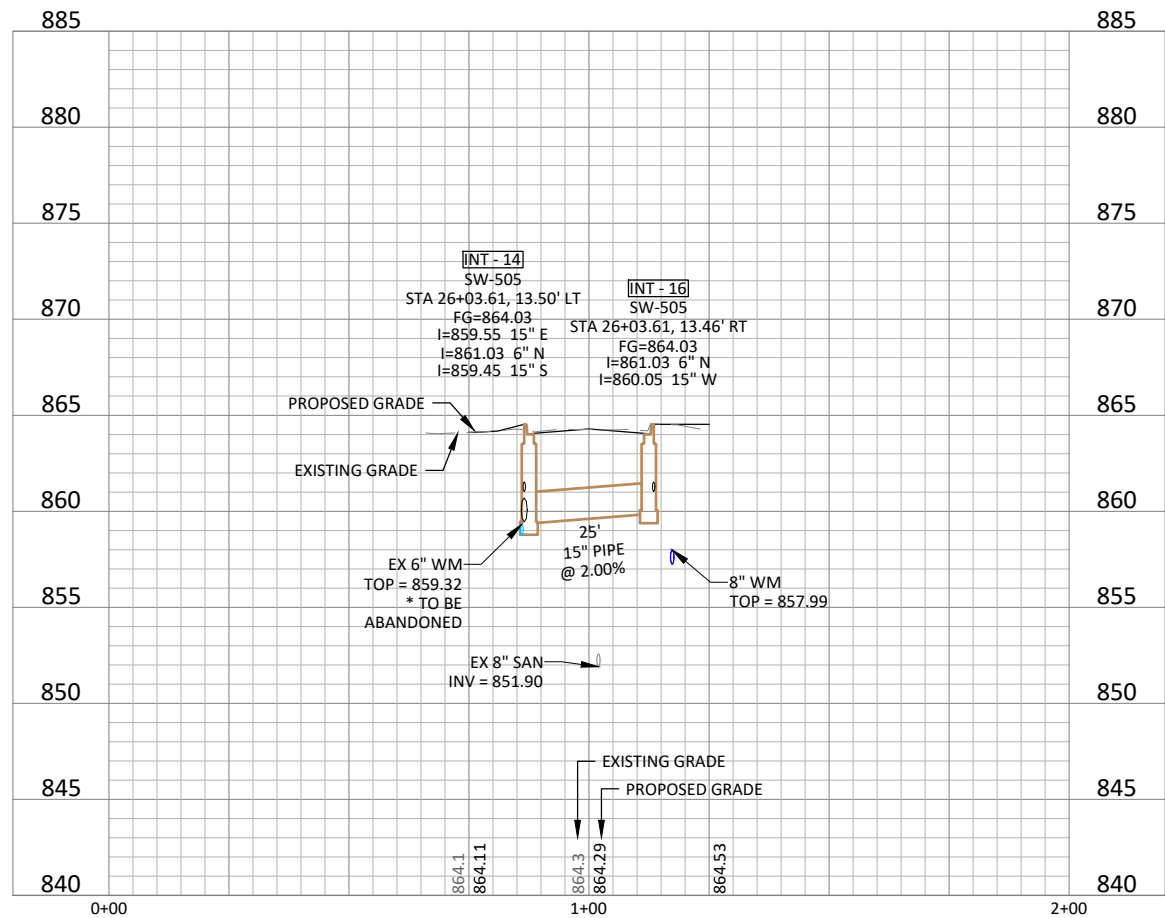
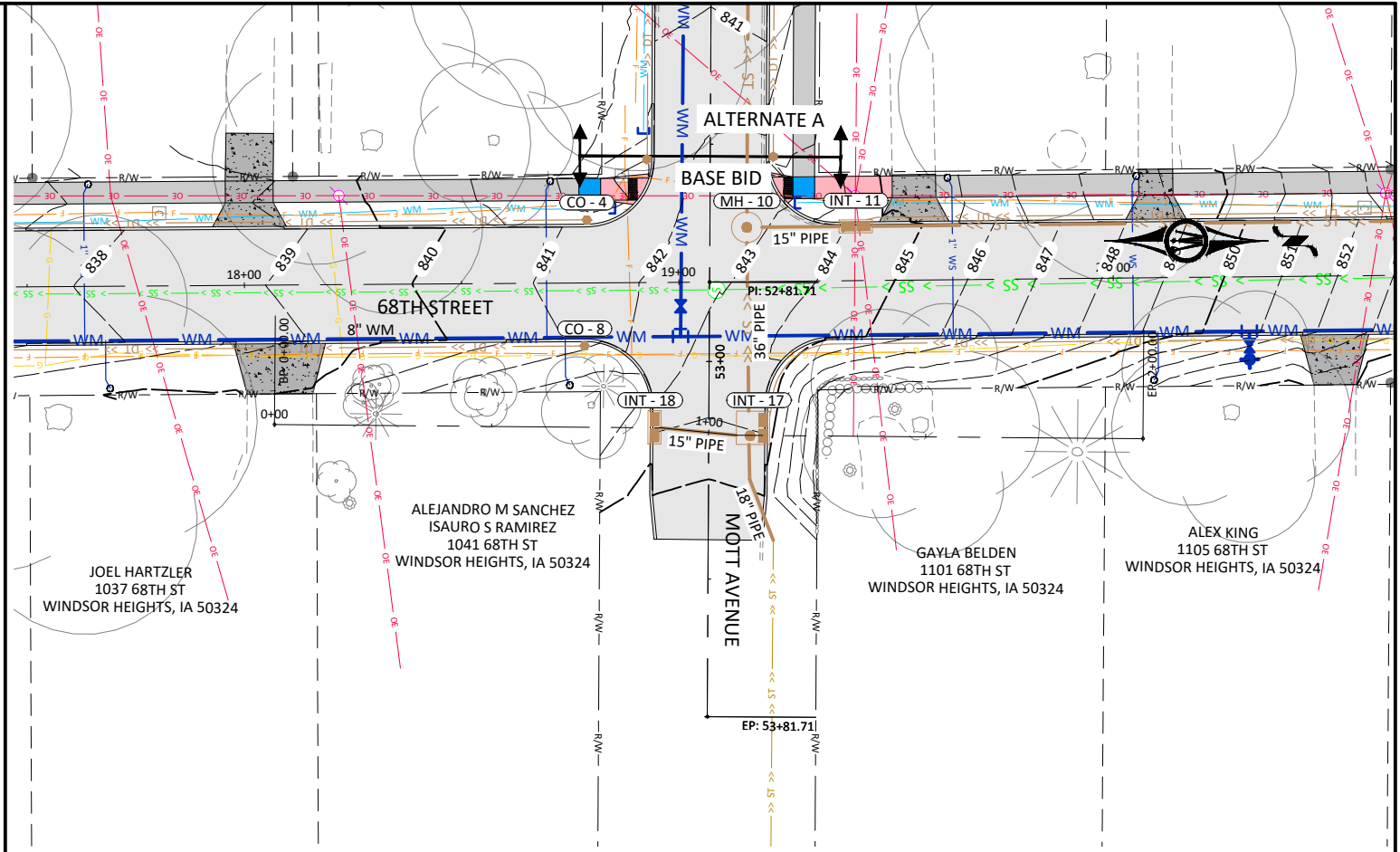
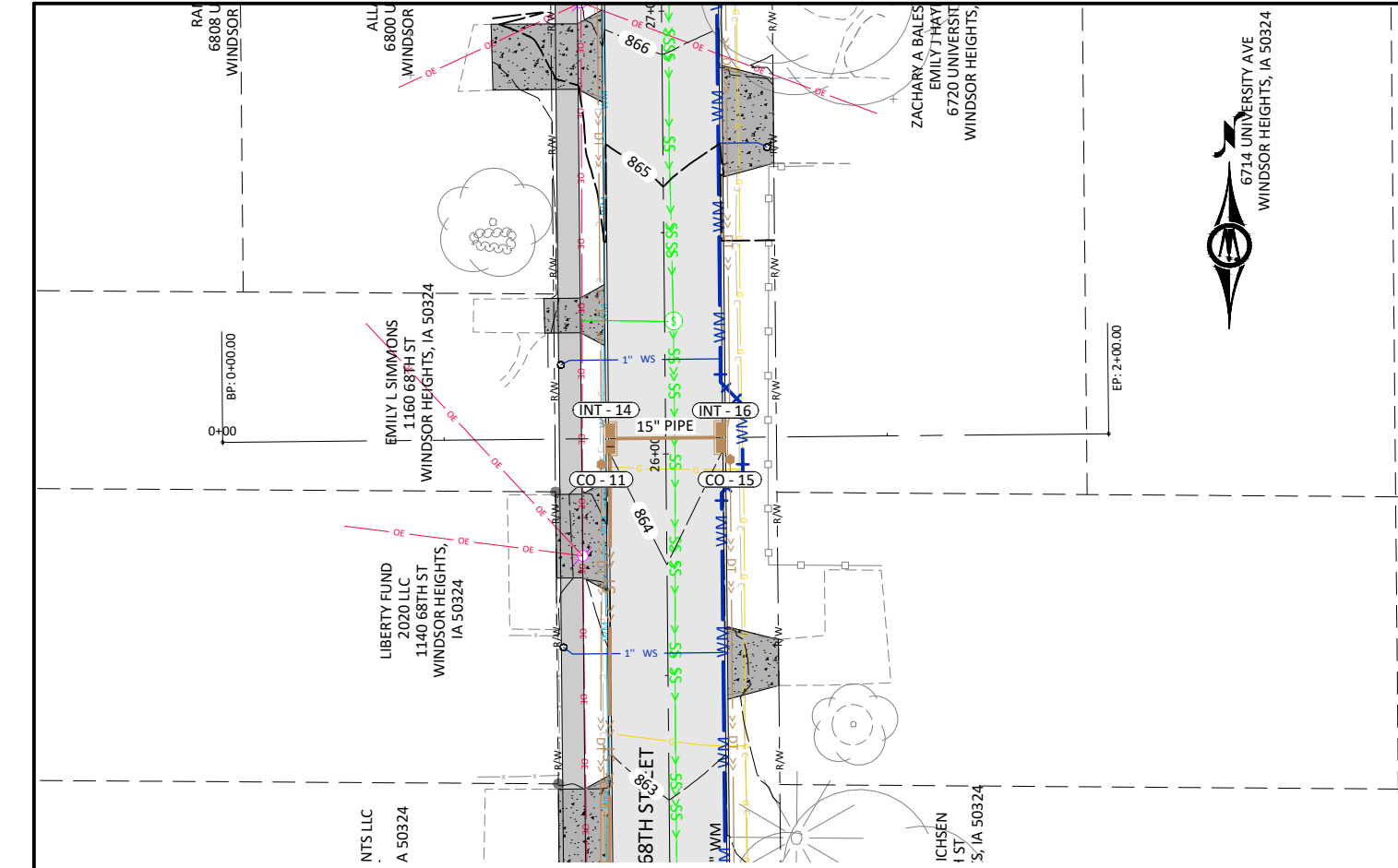
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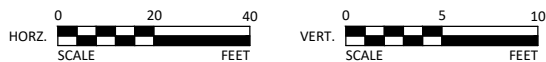
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68TH STREET SOUTH RECONSTRUCTION
STORM SEWER CROSS-RUNS

SHEET
M1.14





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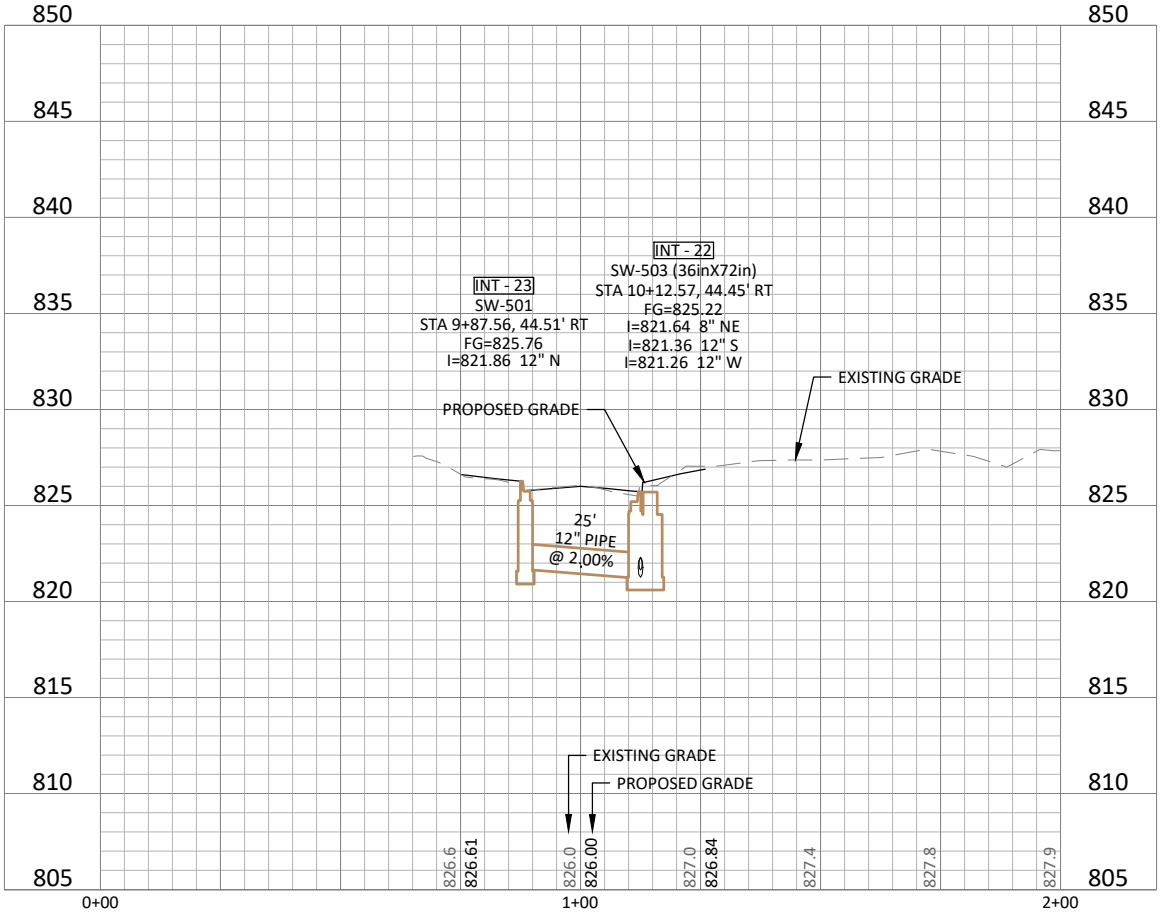
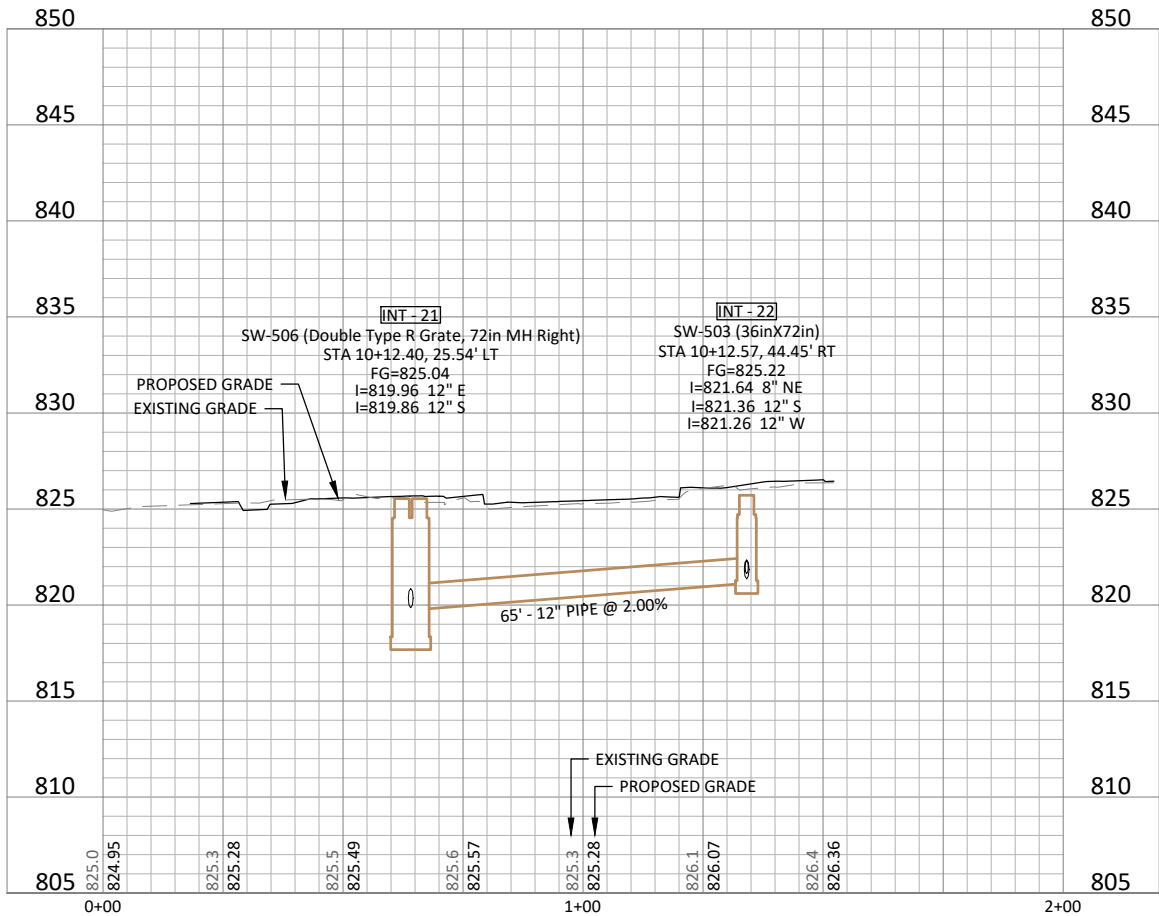
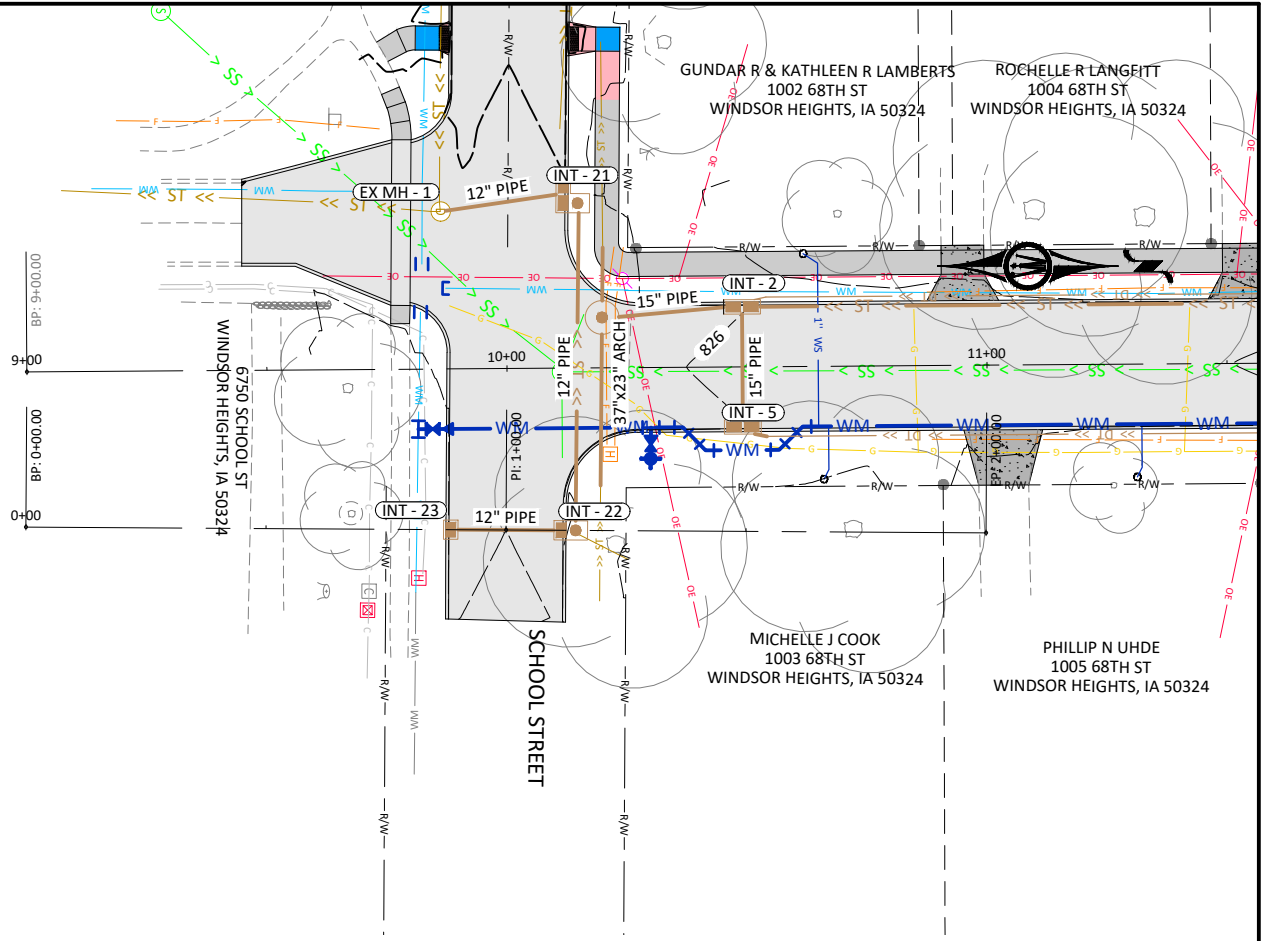
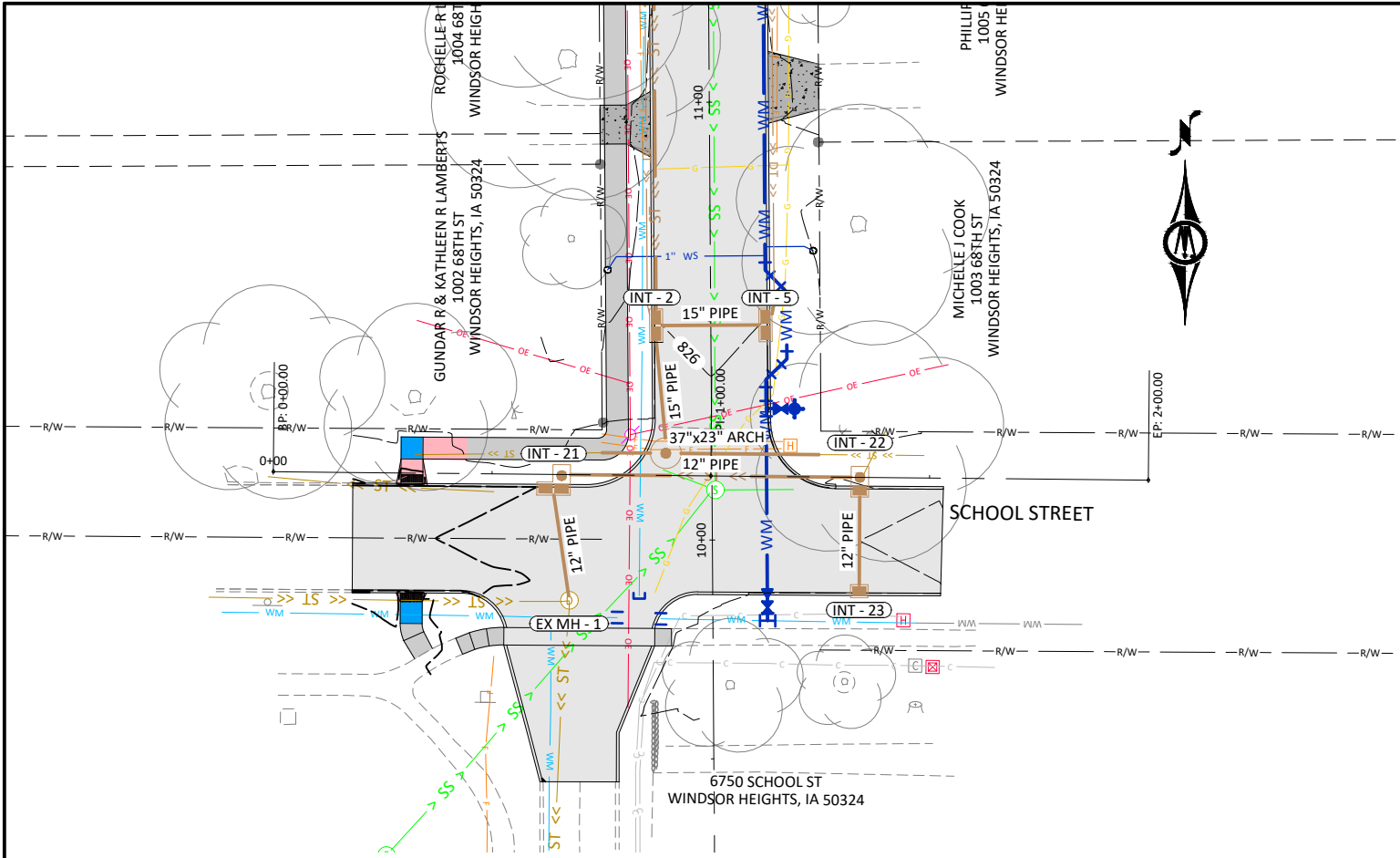


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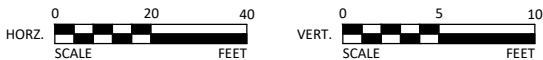
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68TH STREET SOUTH RECONSTRUCTION
STORM SEWER CROSS-RUNS

SHEET
M1.16



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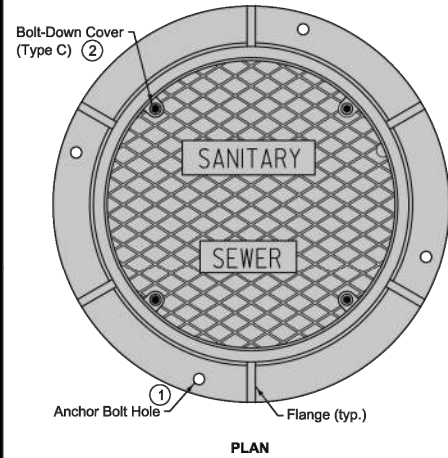
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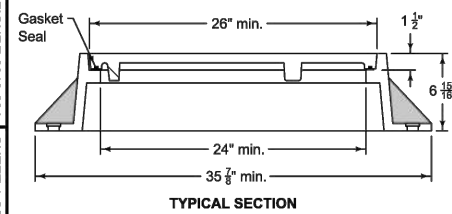
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68TH STREET SOUTH RECONSTRUCTION
STORM SEWER CROSS-RUNS

SHEET
M1.17

TYPE C
Two-piece fixed casting with bolt-down cover (2)



PLAN

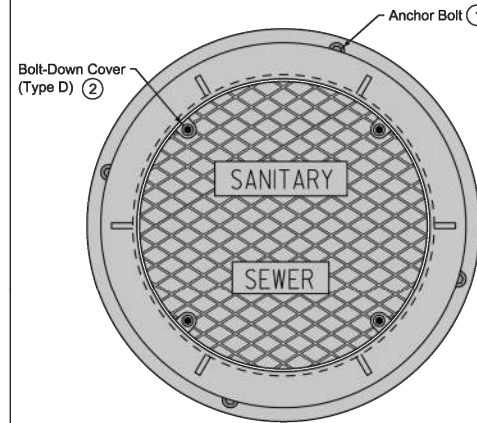


TYPICAL SECTION

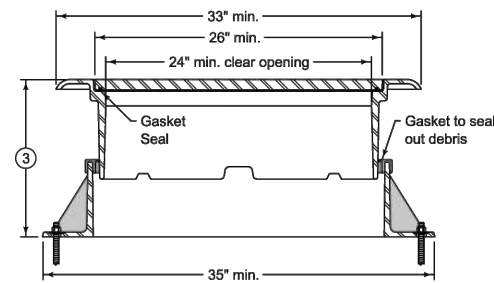
FIGURE 6010.601 SHEET 1 OF 2

TYPE B: HMA
Three-piece floating casting for use in HMA paving

TYPE D: HMA
Three-piece floating casting with bolt-down cover for use in HMA paving (2)



PLAN



TYPICAL SECTION

Frame Notes:
Size, spacing, and number of lugs and flanges
may vary.

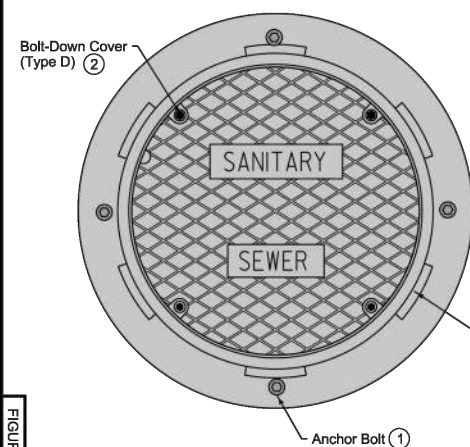
Cover Notes:
Roughness pattern and text style may vary.
Minimum one concealed pickhole.

- ① Anchor the lower frame of all three-piece castings to the manhole structure. When specified in the contract documents, anchor the frame of two-piece castings to the manhole structure. If casting frame does not include anchor holes or slots, drill four 7/8 inch diameter holes, equally spaced around the frame.
- ② If specified, furnish bolt down frame and cover with four 1/2 inch minimum diameter stainless steel, hex nut, recessed cap screws. Secure cover with screws, washers, and rubber gasket seals.
- ③ Casting height varies. Minimum adjustment range of 4 inches.

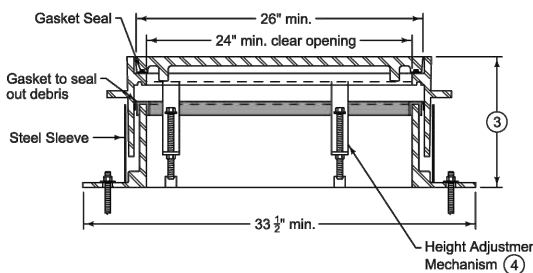
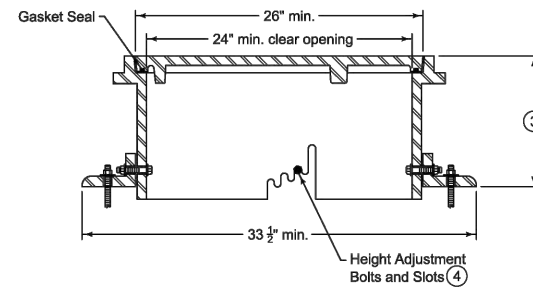
 SUDAS	 IOWADOT	REVISION 4 04-21	
		SW-60	
		STANDARD ROAD PLAN	
FIGURE 6010.601		SHEET 1 of 2	
REVISIONS: Add option for 3-piece HMA casting			
 BLDGDT DIRECTOR		 DISTRICT METHODIST ENGINEER	
CASTINGS FOR SANITARY SEWER MANHOLES			

TYPE B: PCC
Three-piece floating casting for use
in PCC paving and PCC boxouts

TYPE D: PCC
Three-piece floating casting with bolt-down cover
for use in PCC paving and PCC boxouts



Anchor Bolt (1)



TYPICAL SECTION ⑤

Frame Notes:
Size, spacing, and number of lugs and flanges may vary.

Cover Notes:
Roughness pattern and text style may vary.
Minimum one concealed pickhole.

- ① Anchor the lower frame of all three-piece castings to the manhole structure. When specified in the contract documents, anchor the frame of two-piece castings to the manhole structure. If casting frame does not include anchor holes or slots, drill four 7/8 inch diameter holes, equally spaced around the frame.
- ② If specified, furnish bolt down frame and cover with four 1/2 inch minimum diameter stainless steel, hex nut, recessed cap screws. Secure cover with screws, washers, and rubber gasket seals.
- ③ Casting height varies. Minimum adjustment range of 4 inches.
- ④ Set casting at proper grade using the adjustment slots or adjustment mechanism. Remove bolts or mechanism upon completion of paving.
- ⑤ Height adjustment method may vary; two options are shown.

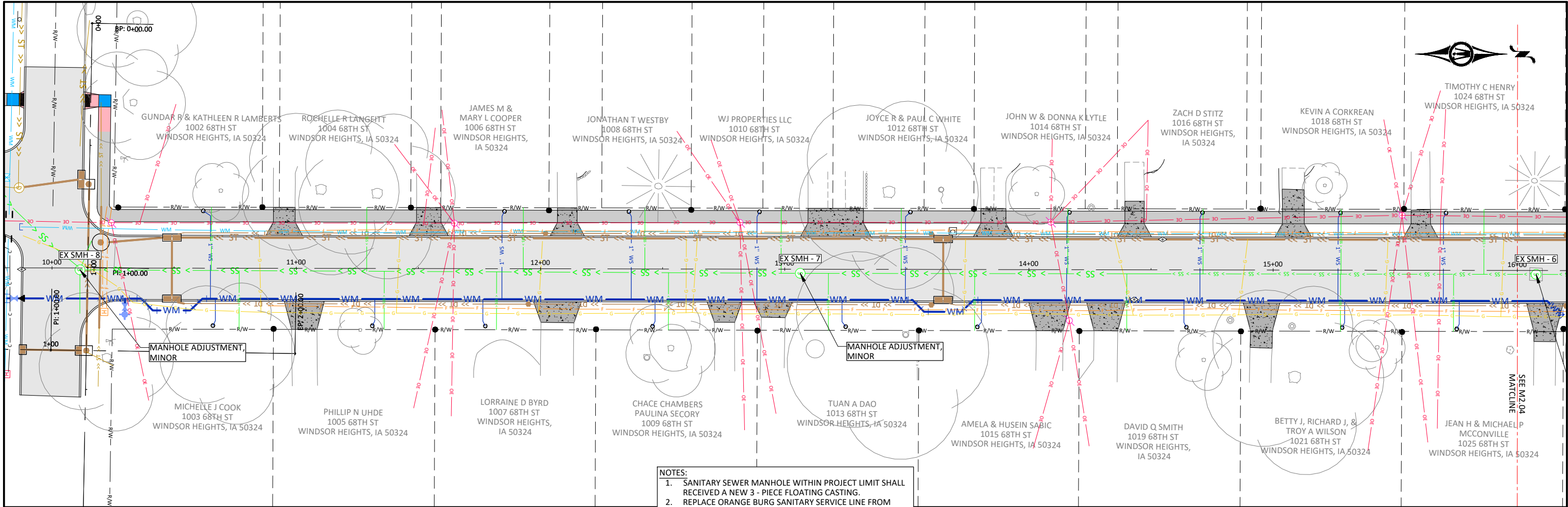
	SUDAS		IOWADOT	REVISION	
				4	04-21
FIGURE 6010.601	STANDARD ROAD PLAN	SW-60			
		SHEET 2 of 2			

REVISIONS: Add option for 3-piece HMA casting

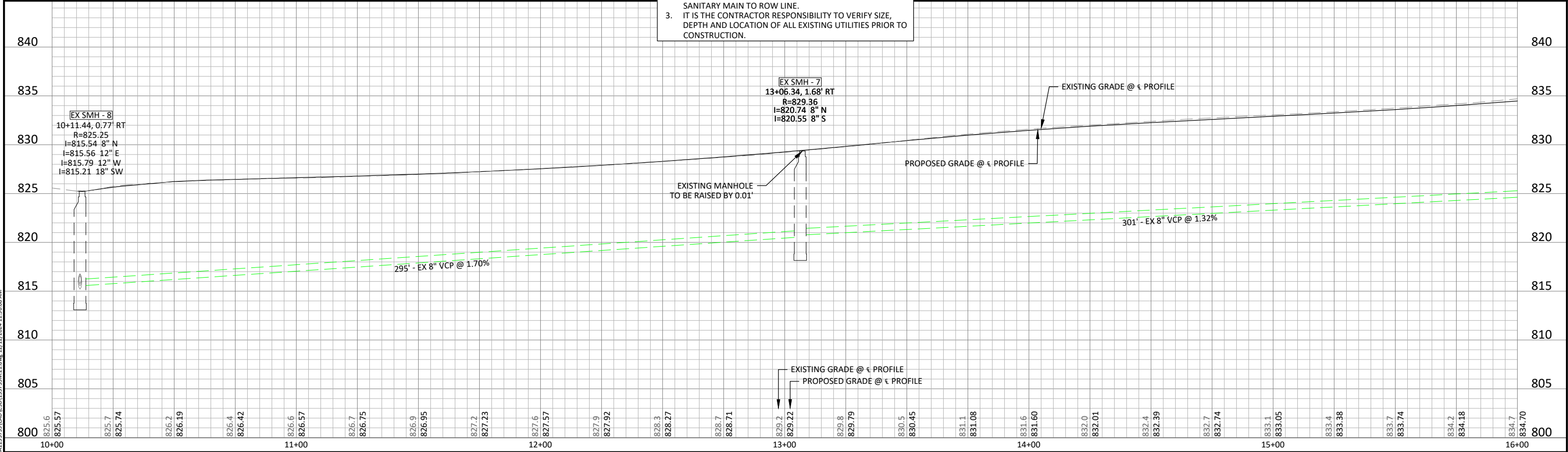
	
RUSSELL D. WIGAND	STEVE MCLEAN
SUGAR DIRECTOR	DESIGN METHOD ENGINEER

**CASTINGS FOR
SANITARY SEWER MANHOLES**

[illegible]



- NOTES:
- SANITARY SEWER MANHOLE WITHIN PROJECT LIMIT SHALL RECEIVED A NEW 3 - PIECE FLOATING CASTING.
 - REPLACE ORANGE BURG SANITARY SERVICE LINE FROM SANITARY MAIN TO ROW LINE.
 - IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY SIZE, DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.



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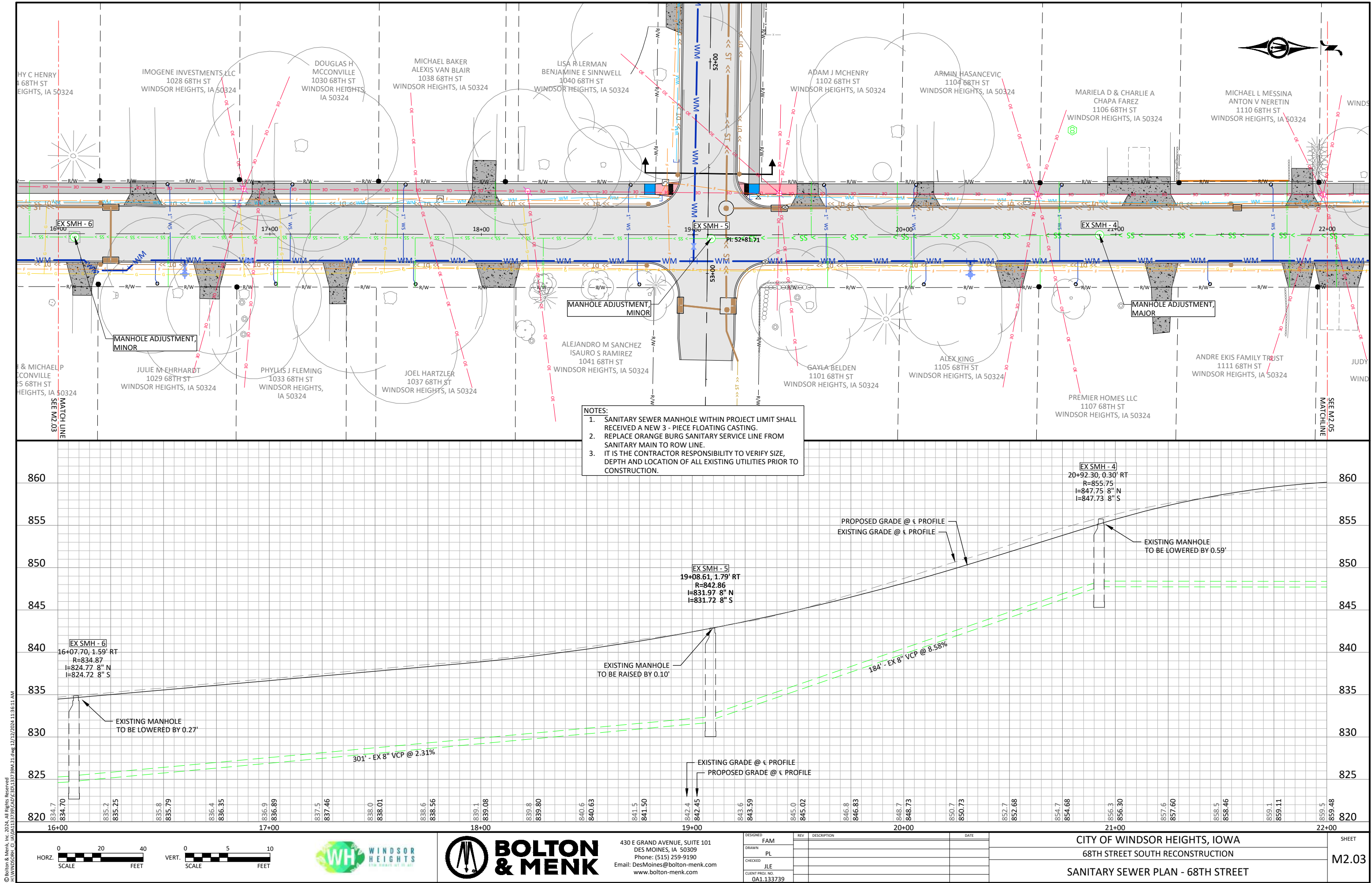


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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
SANITARY SEWER PLAN - 68TH STREET

SHEET
M2.02



WATER MAIN CONSTRUCTION NOTES:

1. SHOP DRAWING REVIEW: DMWW TO REVIEW SHOP DRAWING SUBMITTALS FOR ALL MATERIAL RELATED TO WATER MAIN WORK AS SOON AS PRACTICABLE AFTER NOTICE TO PROCEED AND PRIOR TO PURCHASE. DMWW REQUIRES A MINIMUM OF 15 DAYS FOR REVIEW. CONTRACTOR TO SUBMIT SHOP DRAWINGS ELECTRONICALLY TO:

CARLA SCHUMACHER

CSCHUMACHER@DMWW.COM

OFFICE: (515) 323-6227
2. INSPECTION: A DMWW'S ENGINEERING TECHNICIAN WILL BE ASSIGNED AS AN INSPECTOR FOR THE PROJECT TO INSPECT MATERIALS USED AND WORK DONE FOR CONFORMANCE TO PLANS AND SPECIFICATIONS.
3. PAYMENT: DMWW ENGINEERING TECHNICIAN WILL COORDINATE WITH CITY INSPECTOR FOR INSTALLED QUANTITIES FOR PAY APPLICATIONS.
4. CHANGE ORDERS: CONTRACTOR, DMWW INSPECTOR, AND CITY INSPECTOR TO AGREE ON COMPENSATION **PRIOR** TO COMMENCING ANY WORK THAT IS NOT COVERED BY THE CONTRACT FOR WATER MAIN ITEMS. **WORK PERFORMED PRIOR TO AN AGREEMENT WILL NOT BE CONSIDERED FOR COMPENSATION.**
5. START OF WORK NOTIFICATION: CONTRACTOR TO NOTIFY DMWW ENGINEERING TECHNICIAN 48 HOURS PRIOR TO START OF WATER MAIN RELATED CONSTRUCTION ACTIVITY FOR EACH STAGE OF CONSTRUCTION INVOLVING WATER MAIN INSTALLATION.
6. WATER SHUTDOWNS:

6.1. CONTRACTOR TO NOTIFY CUSTOMERS A MINIMUM OF 24 HOURS IN ADVANCE OF WATER SHUTDOWNS. DMWW WILL PROVIDE DOOR TAGS TO CONTRACTOR. DMWW TO ASSIST CONTRACTOR IN IDENTIFICATION OF SERVICES REQUIRING CUSTOMER NOTIFICATIONS. NOTIFICATIONS ARE INCIDENTAL TO WATER SERVICE BID ITEM.

6.2. CONTRACTOR REQUIRED TO NOTIFY BUSINESS CUSTOMERS A MINIMUM OF 72 HOURS IN ADVANCE OF WATER SHUTDOWNS. COORDINATE WITH DMWW PERSONNEL FOR SCHEDULING AND NOTIFICATIONS. NOTIFICATIONS ARE INCIDENTAL TO WATER SERVICE BID ITEM.

6.3. WATER MAIN SHUTDOWNS MAY NEED TO BE COMPLETED OUTSIDE OF NORMAL WORKING HOURS (7 AM TO 7 PM) TO MINIMIZE IMPACT ON AFFECTED CUSTOMERS. NO ADDITIONAL COMPENSATION WILL BE PAID FOR WORK OUTSIDE NORMAL WORKING HOURS.
7. CONNECTION TO EXISTING WATER MAINS: CONTRACTOR TO NOTIFY DMWW ENGINEERING TECHNICIAN A MINIMUM OF 72 HOURS BEFORE BEGINNING WORK THAT REQUIRES ISOLATION OF A PORTION OF THE DISTRIBUTION SYSTEM.
8. VALVE AND HYDRANT OPERATION: ALL VALVES AND HYDRANTS TO BE OPERATED BY DMWW PERSONNEL ONLY. CONTRACTOR TO COORDINATE WITH ENGINEERING TECHNICIAN 72 HOURS IN ADVANCE OF REQUIRED OPERATION.
9. DISINFECTION:

9.1. WATER MAIN RELOCATION - PRESSURE TEST AND CHLORINATE IN ACCORDANCE WITH SPECIAL PROVISIONS 026740 AND 026750. ALLOW A MINIMUM OF 3 DAYS FOR EACH SECTION TO BE TESTED. AS DESIGNED THERE ARE 3 SECTIONS.

9.2. SHORT STRETCHES OF WATER MAIN AT CONNECTION POINTS MAY BE DISINFECTED BY SWAB METHOD ONLY WHEN THE DMWW ENGINEERING TECHNICIAN IS ON SITE.
10. TAPS ON WATER MAIN:

10.1. CONTRACTOR TO SCHEDULE ALL TAPS WITH DMWW CUSTOMER SERVICE BY CALLING DMWW CUSTOMER SERVICE 24 HOURS PRIOR TO TAP AT 515-283-8700. TAPS INCLUDE:

10.1.1. 1" CHLORINATION TAPS

10.1.2. 1" AND 2" WATER SERVICE TRANSFER TAPS

10.2. TAPPING SLEEVES & VALVES ARE SCHEDULED BY DMWW ENGINEERING TECHNICIAN.

10.3. CONTRACTOR SHALL HAVE EXCAVATION PREPARED AND PROPERLY SHORED IN ADVANCE OF SCHEDULED TAP IN ACCORDANCE WITH DMWW RULES AND REGULATIONS LOCATED AT WWW.DMWW.COM AND OSHA REQUIREMENTS.
11. WATER MAIN SPECIFIC QUESTIONS OR COMPLAINTS FROM CUSTOMERS ARE TO BE REFERRED TO DMWW'S ENGINEERING TECHNICIAN AND CITY INSPECTOR IMMEDIATELY.
12. TRENCHES WILL NOT BE LEFT OPEN WHEN CONTRACTOR IS NOT WORKING. PLACE WATERTIGHT BULKHEADS ON NEW MAIN.
13. TRAFFIC CONTROL FOR THE PROJECT WILL REQUIRE CONSIDERATION OF WATER MAIN CONSTRUCTION REQUIREMENTS, INCLUDING ABANDONMENT OF EXISTING WATER MAIN AND REMOVAL OF HYDRANTS AND VALVE BOXES THAT MAY BE IN THE WAY OF NEW PAVING OR STRUCTURES.
14. PREVENT ANY DIRT OR FOREIGN MATERIAL FROM ENTERING THE NEW MAIN BY INSTALLING TEMPORARY WATER TIGHT PLUG OR CAP ON END OF THE PIPE DURING ANY STOPPAGE OR INSTALLATION.

C900 PVC & CL52 DIP Restrained Joint (RJ) Table									
Nominal Pipe Diameter (in)	Pipe Material**	Minimum Restrained Length (ft)*							
		Horizontal & Vertical (Up) Bend				Vertical (Down) Bend			Cap/Dead End
		11.25°	22.5°	45°	90°	11.25°	22.5°	45°	
16	PVC	7	14	29	70	19	39	80	147
12	PVC	6	11	23	55	15	30	62	113
8	PVC	4	8	16	39	10	21	44	80
16	DIP	7	14	28	70	17	35	73	178
12	DIP	5	10	21	50	14	28	28	139
8	DIP	4	8	16	38	10	19	40	97
*Use restrained joints on all pipe joints that fall within the lengths above on both sides of the fitting indicated.									
**Ductile Iron Pipe (DIP) is assumed to be polyethylene encased									
***This table is based on the following assumptions:									
	Soil Type:	ML							
	Factor of Safety:	2							
	Min. Bury Depth:	5							
	Test Pressure:	150							
	Trench Condition:	Type 3							

WATER MAIN FITTING SCHEDULE 68TH ST						
For Information Only						
Item No.	Description	Unit	Unit			
			Weight	Estimated	Total	As Built
			(lb)	Quantity	Weight	Total
1	6" SOLID SLEEVE	EACH	33	2	66	
2	6" CAP	EACH	15	4	60	
3	6"x6" TEE	EACH	56	1	56	
4	8" CAP	EACH	22	2	44	
4	8" 11.25 BEND	EACH	42	2	84	
5	8" 22.50 BEND	EACH	46	1	46	
6	8" 45 BEND	EACH	46	26	1196	
7	8"x6" REDUCER	EACH	36	1	36	
8	8"x6" TEE	EACH	72	5	360	
9	8"x8" TEE	EACH	86	1	86	
10	10"x8" TEE	EACH	105	1	105	
TOTAL WATER MAIN FITTINGS (LB.)					2139	
NOTES:						
UNIT WEIGHT MEASUREMENT IS PER AWWA C153 - DUCTILE IRON COMPACT FITTINGS.						

WATERMAIN FITTING TABLE						
ITEM	STATION	STREET	SIDE (L/R)	TYPE	SIZE	REMARKS
1	9+81.47	SCHOOL ST	12.50 R	MJ X AJ TEE	6"x6"	
2	9+82.07	SCHOOL ST	11.89 L	SOLID SLEEVE	6"	
3	9+82.43	SCHOOL ST	21.88 L	SOLID SLEEVE	6"	
4	9+84.47	SCHOOL ST	12.50 R	VALVE	6"	
5	9+86.60	SCHOOL ST	16.81 L	CAP	6"	
6	9+86.24	SCHOOL ST	12.50 R	REDUCER	8"x6"	
8	9+90.60	SCHOOL ST	12.50 R	45° BEND	8"	VERTICAL
9	9+98.58	SCHOOL ST	12.50 R	45° BEND	8"	HORIZONTAL
10	10+19.52	SCHOOL ST	12.50 R	45° BEND	8"	VERTICAL
11	10+24.52	SCHOOL ST	12.50 R	45° BEND	8"	HORIZONTAL
12	10+29.92	68TH ST	12.50 R	MJ X MJ TEE	8"x6"	PART OF HYDRANT ASSEMBLY
13	10+36.56	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
14	10+41.24	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
15	10+56.57	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
16	10+61.56	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
17	13+52.37	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
18	13+57.06	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
19	13+72.38	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
20	13+77.37	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
21	16+12.28	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
22	16+16.96	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
23	16+32.29	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
24	16+37.28	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
25	16+59.80	68TH ST	12.50 R	MJ X MJ TEE	8"x6"	PART OF HYDRANT ASSEMBLY
26	16+83.00	68TH ST	14.66 L	CAP	8"	
27	16+86.00	68TH ST	14.65 L	VALVE & CAP	8" & 4"	8" TEMPORARY CAP & 4 " VALVE
28	16+89.99	68TH ST	12.50 R	VALVE & CAP	8" & 4"	8" TEMPORARY CAP & 4 " VALVE
29	18+84.82	68TH ST	17.24 L	CAP	6"	
30	49+96.47	MOTT AVE	5.48 R	SOLID SLEEVE	8"	
31	50+05.98	MOTT AVE	15.06 R	CAP	6"	
32	52+46.97	MOTT AVE	15.36 R	CAP	6"	
33	19+00.31	68TH ST	12.00 R	MJ X AJ TEE	8"x8"	
34	19+00.42	68TH ST	5.51 R	VALVE	8"	
35	19+20.78	68TH ST	12.50 R	45° BEND	8"	VERTICAL
36	19+27.51	68TH ST	17.65 L	CAP	6"	
37	19+30.16	68TH ST	12.50 R	45° BEND	8"	VERTICAL
38	19+50.16	68TH ST	12.50 R	22.5° BEND	8"	VERTICAL
39	20+31.22	68TH ST	12.50 R	MJ X MJ TEE	8"x6"	PART OF HYDRANT ASSEMBLY
40	21+50.14	68TH ST	12.50 R	11.25° BEND	8"	VERTICAL
41	23+24.49	68TH ST	12.50 R	MJ X MJ TEE	8"x6"	PART OF HYDRANT ASSEMBLY
42	23+73.18	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
43	23+80.73	68TH ST	20.33 R	45° BEND	8"	HORIZONTAL
44	23+90.06	68TH ST	20.33 R	45° BEND	8"	HORIZONTAL
45	23+98.18	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
46	24+23.08	68TH ST	13.93 L	CAP	8"	
47	24+27.59	68TH ST	13.97 L	VALVE & CAP	8" & 4"	TEMPORARY CAP & 4 " VALVE
48	24+27.59	68TH ST	12.50 R	VALVE & CAP	8" & 4"	TEMPORARY CAP & 4 " VALVE
49	25+91.11	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
50	25+98.76	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
51	26+11.09	68TH ST	17.33 R	45° BEND	8"	HORIZONTAL
52	26+16.11	68TH ST	12.50 R	45° BEND	8"	HORIZONTAL
52	27+70.09	68TH ST	12.50 R	MJ X MJ TEE	8"x6"	PART OF HYDRANT ASSEMBLY
53	27+77.14	68TH ST	12.00 R	VALVE	8"	
54	27+81.55	68TH ST	13.18 L	CAP	6"	
55	27+91.67	68TH ST	12.00 R	11.25 BEND	8"	
56	27+98.43	68TH ST	12.00 R	MJ X AJ TEE	10"x8"	

WATER MAIN FITTING SCHEDULE MOTT AVE						
For Information Only						
Item No.	Description	Unit	Unit			
			Weight	Estimated	Total	As Built
			(lb)	Quantity	Weight	Total
1	6" CAP	EACH	15	2	30	
2	8" SOLID SLEEVE	EACH	46	1	46	
TOTAL WATER MAIN FITTINGS (LB.)					76	
NOTES:						
UNIT WEIGHT MEASUREMENT IS PER AWWA C153 - DUCTILE IRON COMPACT FITTINGS.						



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CLIENT PROJ. NO.			
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CITY OF WINDSOR HEIGHTS, IOWA

68TH STREET SOUTH RECONSTRUCTION

WATER MAIN GENERAL NOTES

SHEET

MWM.01

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WATER SERVICE SCHEDULE						
EXISTING SERVICE CONNECTION INFORMATION						
SHEET	ADDRESS	STREET TAPPED	NAME	SERVICE SIZE	MATERIAL TYPE	CONNECTION TYPE
MWM.04	1002 68TH ST	68TH ST	GUNDAR & KATHLEEN LAMBERTS		UNKNOWN	
MWM.04	1003 68TH ST	68TH ST	MICHELLE J COOK		UNKNOWN	
MWM.04	1004 68TH ST	68TH ST	ROCHEELE R LANGFITT		UNKNOWN	
MWM.04	1005 68TH ST	68TH ST	PHILLIP N UHDE		UNKNOWN	
MWM.04	1006 68TH ST	68TH ST	JAMES M & MARY L COOPER		UNKNOWN	
MWM.04	1007 68TH ST	68TH ST	LORRAINE D BYRD		UNKNOWN	
MWM.04	1008 68TH ST	68TH ST	JONATHAN T WESTBOY		UNKNOWN	
MWM.04	1009 68TH ST	68TH ST	CHACE CHAMBERS PAULINA SECORY		UNKNOWN	
MWM.04	1010 68TH ST	68TH ST	WJ PROPERTIES LLC		UNKNOWN	
MWM.04	1012 68TH ST	68TH ST	JOYCE R & PAUL C WHITE		UNKNOWN	
MWM.04	1013 68TH ST	68TH ST	TAUN A DAO		UNKNOWN	
MWM.04	1014 68TH ST	68TH ST	JOHN & DONNA K LYTLE		UNKNOWN	
MWM.04	1015 68TH ST	68TH ST	AMELA & HUSEN SABIC		UNKNOWN	
MWM.05	1016 68TH ST	68TH ST	ZACH D STITZ		UNKNOWN	
MWM.05	1018 68TH ST	68TH ST	KEVIN A CORKREAN		UNKNOWN	
MWM.05	1019 68TH ST	68TH ST	DAVID Q SMITH		UNKNOWN	
MWM.05	1021 68TH ST	68TH ST	BETTY J, RICAHRD J , & TROY A WILSON		UNKNOWN	
MWM.05	1024 68TH ST	68TH ST	TIMOTHY CHENRY		SUSPECT LEAD	
MWM.05	1025 68TH ST	68TH ST	JEAN H & MICHEAL P MCCONVILLE		UNKNOWN	
MWM.05	1028 68TH ST	68TH ST	IMOGENE INVESTMENTS LLC		SUSPECT LEAD	
MWM.05	1029 68TH ST	68TH ST	JULIE M EHRHARDT		UNKNOWN	
MWM.05	1030 68TH ST	68TH ST	DOUGLASH MCCONVILLE		SUSPECT LEAD	
MWM.05	1033 68TH ST	68TH ST	PHYLLIS J FLEMING		UNKNOWN	
MWM.05	1037 68TH ST	68TH ST	JEOL HARZLER		UNKNOWN	
MWM.05	1038 68TH ST	68TH ST	MICHEAL BAKER ALEXIS VAN BLAIR		UNKNOWN	
MWM.05	1040 68TH ST	68TH ST	LISA R LERMAN		SUSPECT LEAD	
MWM.05	1041 68TH ST	68TH ST	ALEJANDRO M SANCHEZ & ISAURO S RAMIREZ		SUSPECT LEAD	
MWM.06	1101 68TH ST	68TH ST	GAYLA BELDEN		SUSPECT LEAD	
MWM.06	1102 68TH ST	68TH ST	ADAM J MCHENRY		SUSPECT LEAD	
MWM.06	1104 68TH ST	68TH ST	ARMIN HASANCEVIC		UNKNOWN	
MWM.06	1105 68TH ST	68TH ST	ALEX KING		UNKNOWN	
MWM.06	1106 68TH ST	68TH ST	MARIELA & CHARLIE CHAPA FAREZ		UNKNOWN	
MWM.06	1107 68TH ST	68TH ST	PREMIR HOMES LLC		UNKNOWN	
MWM.06	1110 68TH ST	68TH ST	MICHEAL L MESSINA ANTON NERETIN		SUSPECT LEAD	
MWM.06	1111 68TH ST	68TH ST	ANDRE EKIS FAMILY TRUST		SUSPECT LEAD	
MWM.06	1112 68TH ST	68TH ST	RYAN A HALA		UNKNOWN	
MWM.06	1113 68TH ST	68TH ST	JUDY V & RANDY D CLOUGH		UNKNOWN	
MWM.06	1117 68TH ST	68TH ST	JACOB & ANNIKA		UNKNOWN	
MWM.06	1120 68TH ST	68TH ST	K2 HOLDINGS LLC		SUSPECT LEAD	
MWM.06	1124 68TH ST	68TH ST	CLINT MCCONNELL		SUSPECT LEAD	
MWM.06	1125 68TH ST	68TH ST	BILLY,JANS, & KYLE WATSON		SUSPECT LEAD	
MWM.06	1128 68TH ST	68TH ST	HEATHER L HANSEN		UNKNOWN	
MWM.06	1129 68TH ST	68TH ST	CASEY ROBERT-MCCOMBS		SUSPECT LEAD	
MWM.07	1133 68TH ST	68TH ST	BRAIN FRIEDRICHSEN		SUSPECT LEAD	
MWM.07	1136 68TH ST	68TH ST	STERLING INVERMENTS LLC		SUSPECT LEAD	
MWM.07	1140 68TH ST	68TH ST	LIBERTY FUND 2020 LLC		SUSPECT LEAD	
MWM.07	1160 68TH ST	68TH ST	EMILY L SIMMONS		SUSPECT LEAD	
MWM.07	6720 UNIVERSITY AVE	68TH ST	ZAHARY A BALES-HENRY EMILY J HAYES		UNKNOWN	
MWM.07	6800 UNIVERSITY AVE	68TH ST	ALLAN H RAUCH		SUSPECT LEAD	

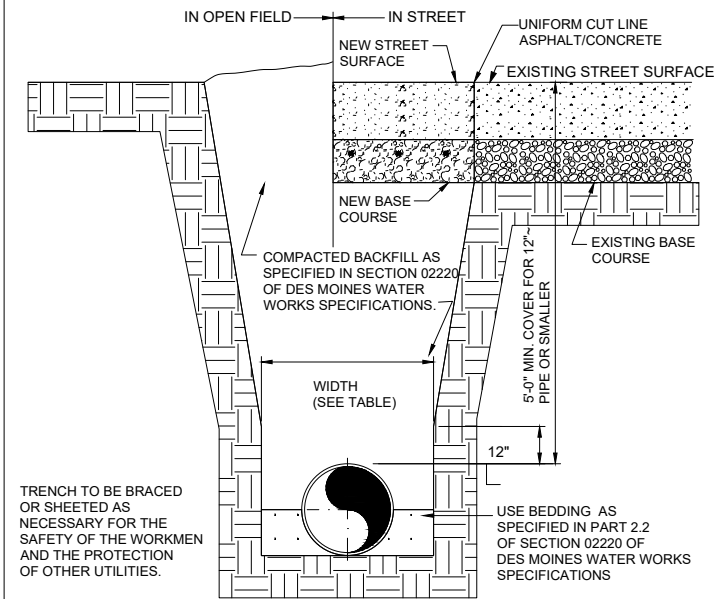


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CHECKED	JLE			
CLIENT PROJ. NO.	0A1.133739			

CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
WATER MAIN SCHEDULE

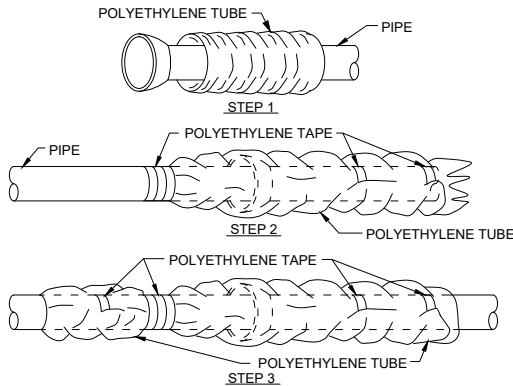
SHEET
MWM.02



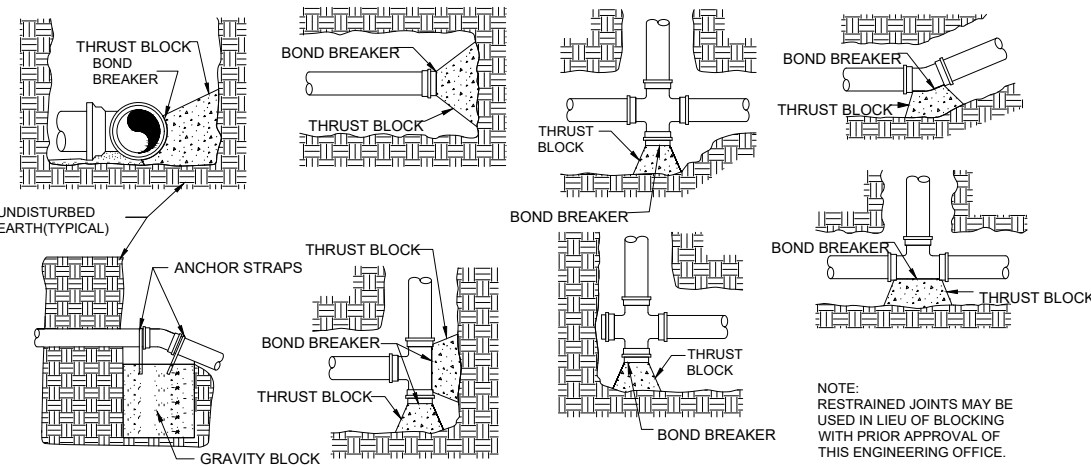
PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-4"	2'-4"
6"	1'-6"	2'-6"
8"	1'-8"	2'-8"
12"	2'-0"	3'-0"
16"	2'-4"	3'-4"
20"	2'-8"	3'-8"

TYPICAL TRENCH SECTION
NOT TO SCALE

- STEP 1 - PLACE TUBE OF POLYETHYLENE MATERIAL ON PIPE PRIOR TO LOWERING IT INTO THE TRENCH
- STEP 2 - PULL THE TUBE OVER THE LENGTH OF PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH TAPE TO HOLD THE PLASTIC TUBE IN PLACE
- STEP 3 - OVERLAP FIRST TUBE WITH ADJACENT TUBE AND SECURE WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE COVERING THE PIPE SHALL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED ON TOP AND TAPED IN PLACE.
- NOTE: IRON PIPE FITTINGS, INCLUDING VALVES AND HYDRANTS SHALL BE WRAPPED WITH TWO LAYERS OF POLYETHYLENE MATERIAL. THE WRAPPING SHALL EXTEND AT LEAST 1' BEYOND THE FITTING JOINTS ONTO THE ADJOINING PIPE AND SHALL BE FASTENED TO THE PIPE WITH PLASTIC TAPE. TAPE SHALL BE USED AS NEEDED TO HOLD WRAP IN PLACE. EITHER POLYETHYLENE SHEETS OR SLIT TUBING MAY BE USED.



POLYETHYLENE WRAP FIELD INSTALLATION DETAIL
NOT TO SCALE

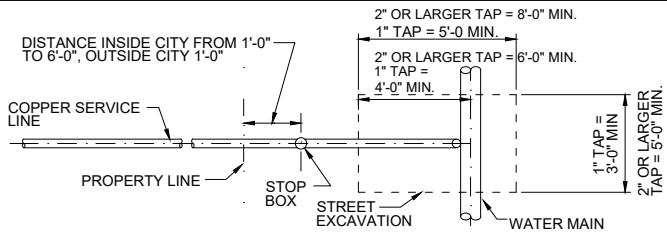


SIZE OF PIPE	BENDS			
	11 1/4"	22.5"	45"	90"
4"	0.24	0.65	1.35	2.03
6"	0.24	0.65	1.35	2.03
8"	0.45	1.14	2.35	3.49
12"	0.98	2.44	4.99	7.38
16"	1.73	4.27	8.70	12.84
20"	2.66	6.56	13.36	19.70
24"	3.70	9.25	18.94	27.96
30"	5.73	14.26	29.15	42.99

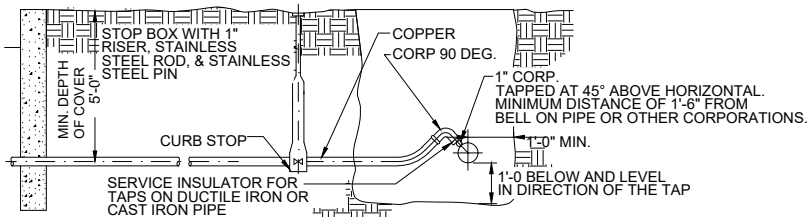
VOLUME OF GRAVITY BLOCK
NOT TO SCALE

SIZE OF PIPE	BENDS				TEE OR DEAD END
	11 1/4"	22.5"	45"	90"	
6"	1	2	4	8	6
8"	2	4	8	14	10
12"	4	8	16	29	21
16"	7	14	28	51	36
20"	11	22	43	79	56
24"	16	31	61	112	79

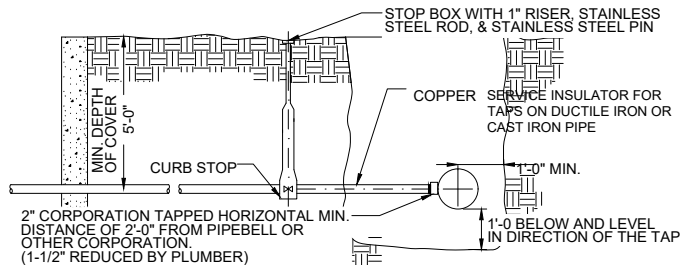
STANDARD CONCRETE THRUST BLOCKS
NOT TO SCALE



1" & 2" SERVICE INSTALLATION PLAN



1" SERVICE INSTALLATION SECTION



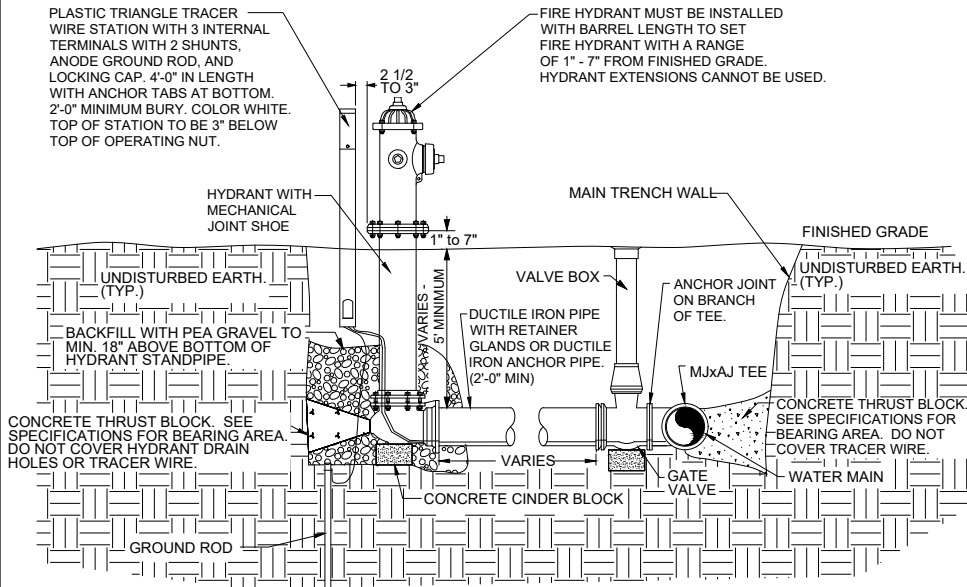
2" SERVICE INSTALLATION SECTION
SERVICE INSTALLATION
NOT TO SCALE

TRACER WIRE (SEE 505.6.6 FOR TRACER SYSTEM SPECIFICATIONS). FASTEN TO MIDPOINT OF EACH PIPE SECTION WITH PLASTIC TAPE. INSTALL ON ALL PIPE MATERIALS EXCLUDING TYPE K COPPER AND RED BRASS.

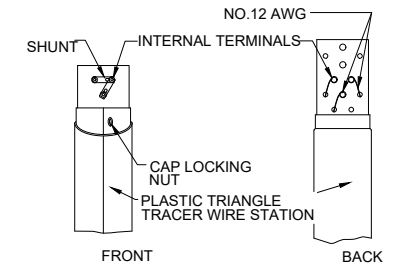
TRACER WIRE MAY BE INSTALLED IN PLASTIC CONDUIT FOR ADDITIONAL PROTECTION FROM POTENTIAL DAMAGE, BUT IT IS NOT REQUIRED.

NOTE: IRON PIPE, VALVE, FITTINGS AND HYDRANT (BURIED PORTION) TO BE WRAPPED WITH POLYETHYLENE ENCASUREMENT MATERIAL PER DES MOINES WATER WORKS STANDARDS.

TRACER WIRE MAY BE INSTALLED IN PLASTIC CONDUIT FOR ADDITIONAL PROTECTION FROM POTENTIAL DAMAGE, BUT IT IS NOT REQUIRED.



STANDARD HYDRANT ON WATER MAINS 16" OR LESS
NOT TO SCALE



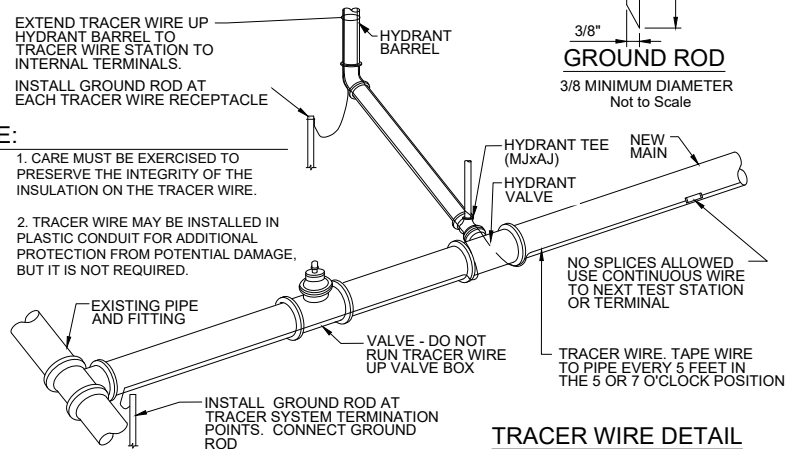
TRACER WIRE RECEPTACLE DETAIL
NOT TO SCALE

TRACER WIRE (SEE 505.6.6 FOR TRACER SYSTEM SPECIFICATIONS). FASTEN TO MIDPOINT OF EACH PIPE SECTION WITH PLASTIC TAPE. INSTALL ON ALL PIPE MATERIALS EXCLUDING TYPE K COPPER AND RED BRASS.

EXTEND TRACER WIRE UP HYDRANT BARREL TO TRACER WIRE STATION TO INTERNAL TERMINALS.

INSTALL GROUND ROD AT EACH TRACER WIRE RECEPTACLE

- NOTE:
- CARE MUST BE EXERCISED TO PRESERVE THE INTEGRITY OF THE INSULATION ON THE TRACER WIRE.
 - TRACER WIRE MAY BE INSTALLED IN PLASTIC CONDUIT FOR ADDITIONAL PROTECTION FROM POTENTIAL DAMAGE, BUT IT IS NOT REQUIRED.



TRACER WIRE DETAIL
NOT TO SCALE

REVISIONS		NO.	DATE	DRAWN BY: DH	DESIGNED BY: DH	CHECKED BY: CJS

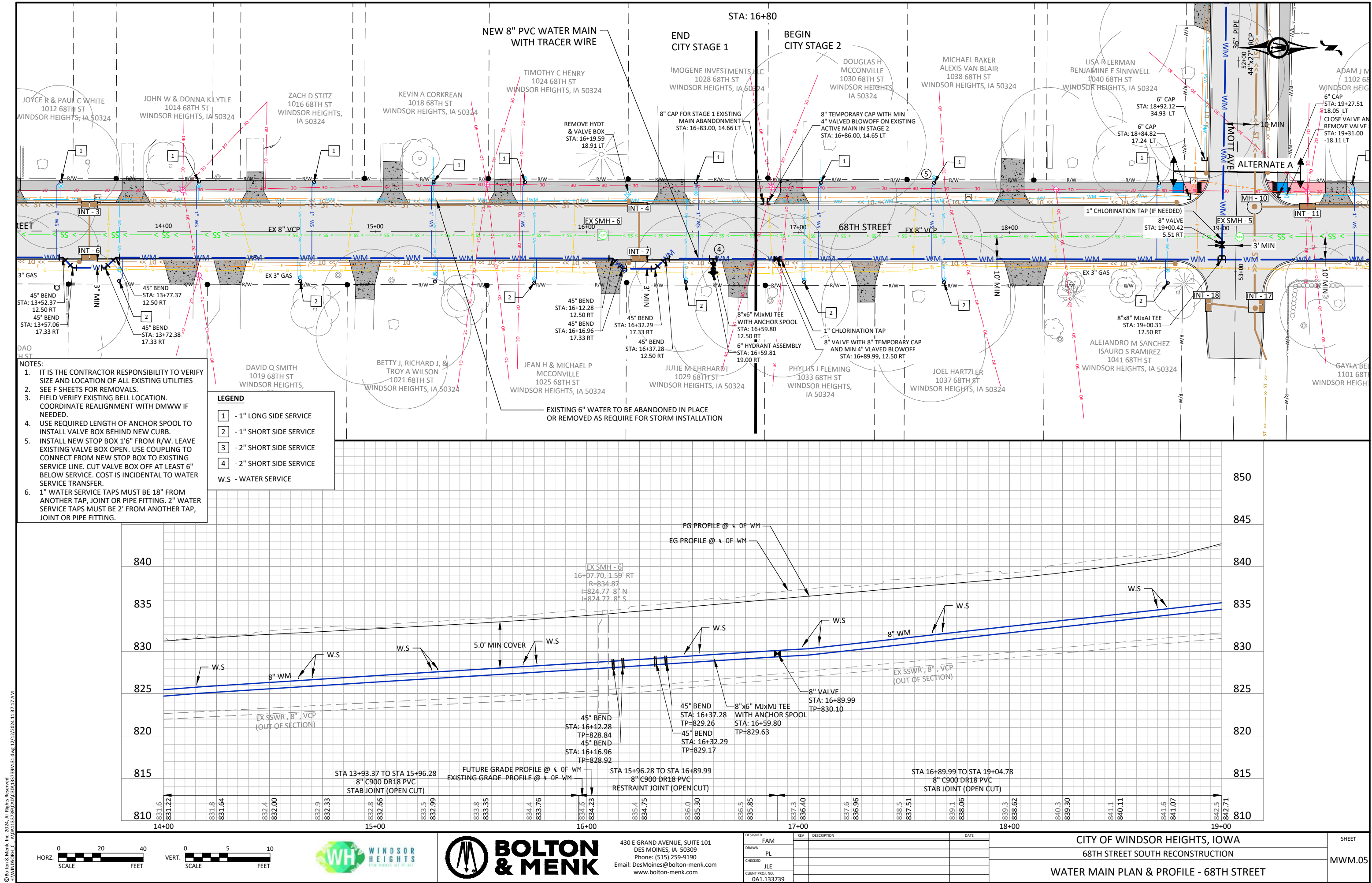
Des Moines Water Works
Water You Can Trust for Life
ENGINEERING DEPARTMENT
Des Moines, Iowa

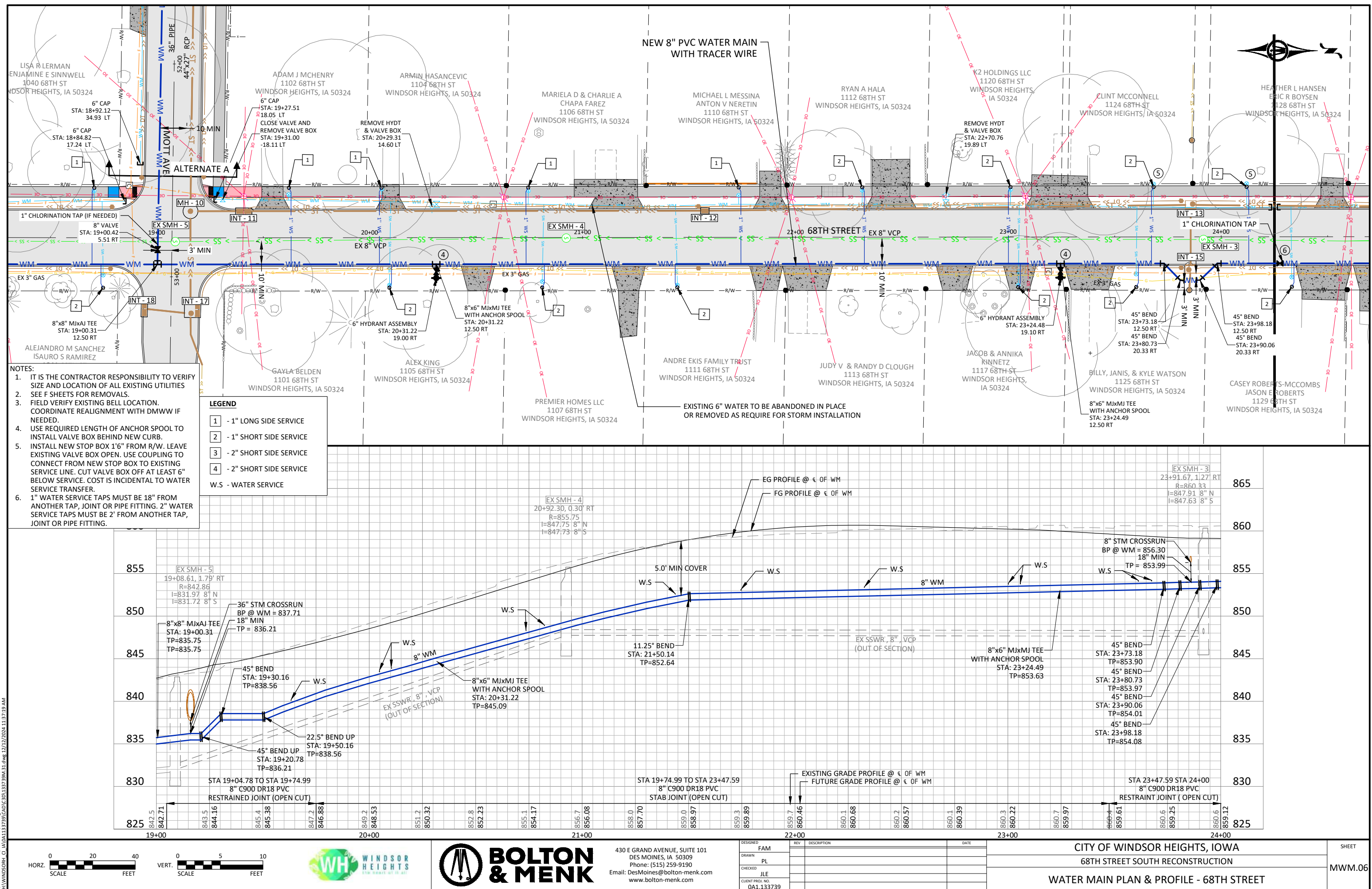
STANDARD DETAIL SHEET

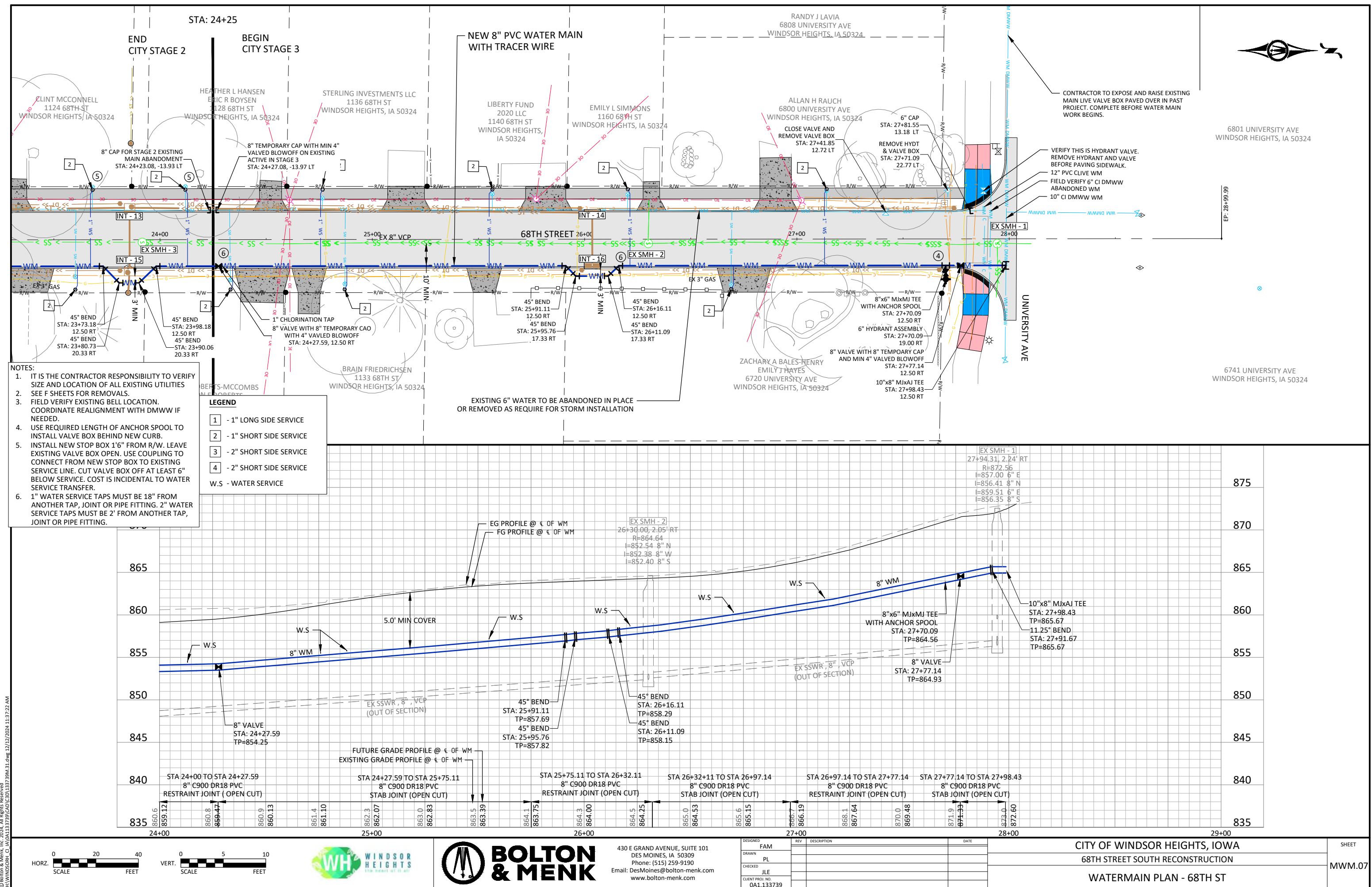
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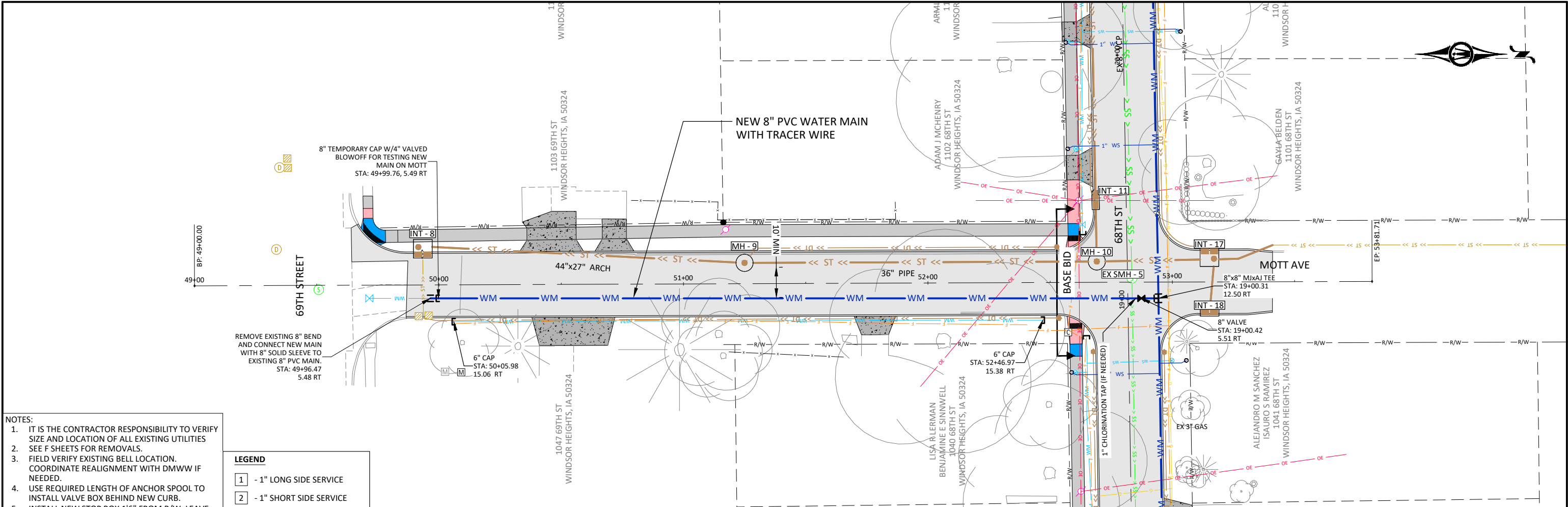
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
DES MOINES WATER WORKS DETAIL



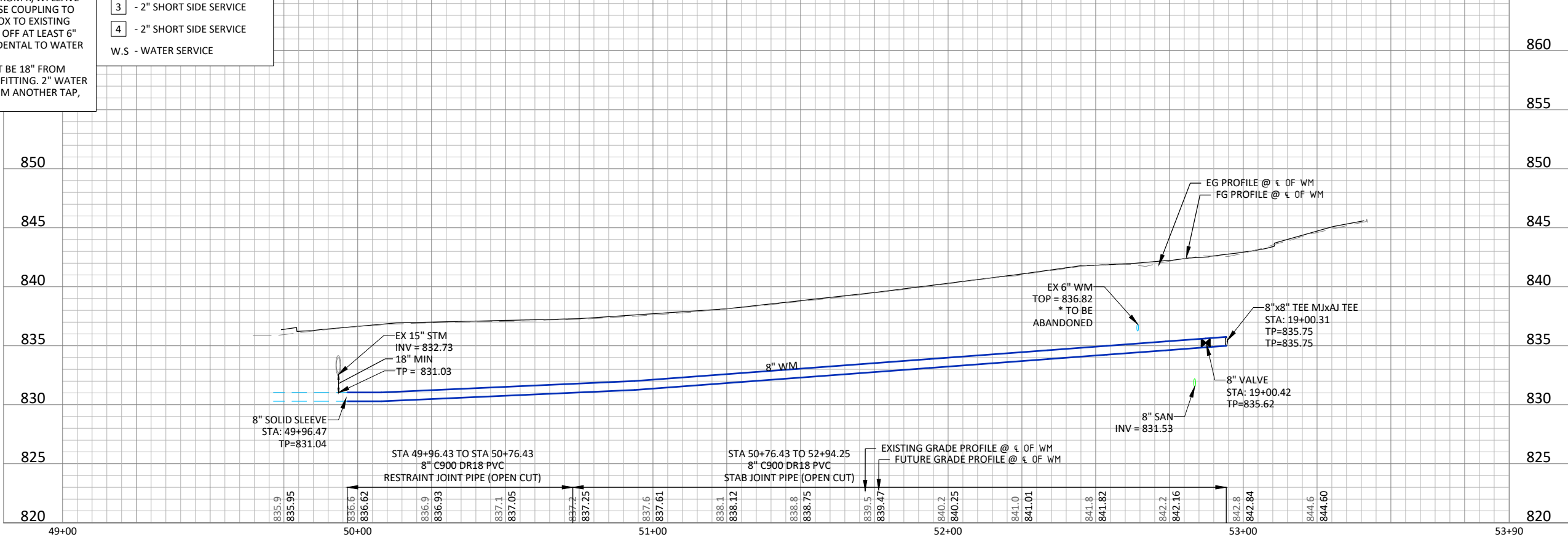




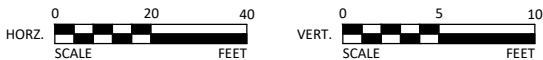


- NOTES:
1. IT IS THE CONTRACTOR RESPONSIBILITY TO VERIFY SIZE AND LOCATION OF ALL EXISTING UTILITIES SEE F SHEETS FOR REMOVALS.
 2. FIELD VERIFY EXISTING BELL LOCATION. COORDINATE REALIGNMENT WITH DMWW IF NEEDED.
 3. USE REQUIRED LENGTH OF ANCHOR SPOOL TO INSTALL VALVE BOX BEHIND NEW CURB.
 4. INSTALL NEW STOP BOX 1'6" FROM R/W. LEAVE EXISTING VALVE BOX OPEN. USE COUPLING TO CONNECT FROM NEW STOP BOX TO EXISTING SERVICE LINE. CUT VALVE BOX OFF AT LEAST 6" BELOW SERVICE. COST IS INCIDENTAL TO WATER SERVICE TRANSFER.
 5. 1" WATER SERVICE TAPS MUST BE 18" FROM ANOTHER TAP, JOINT OR PIPE FITTING. 2" WATER SERVICE TAPS MUST BE 2' FROM ANOTHER TAP, JOINT OR PIPE FITTING.

- LEGEND
- 1 - 1" LONG SIDE SERVICE
 - 2 - 1" SHORT SIDE SERVICE
 - 3 - 2" SHORT SIDE SERVICE
 - 4 - 2" SHORT SIDE SERVICE
 - W.S - WATER SERVICE



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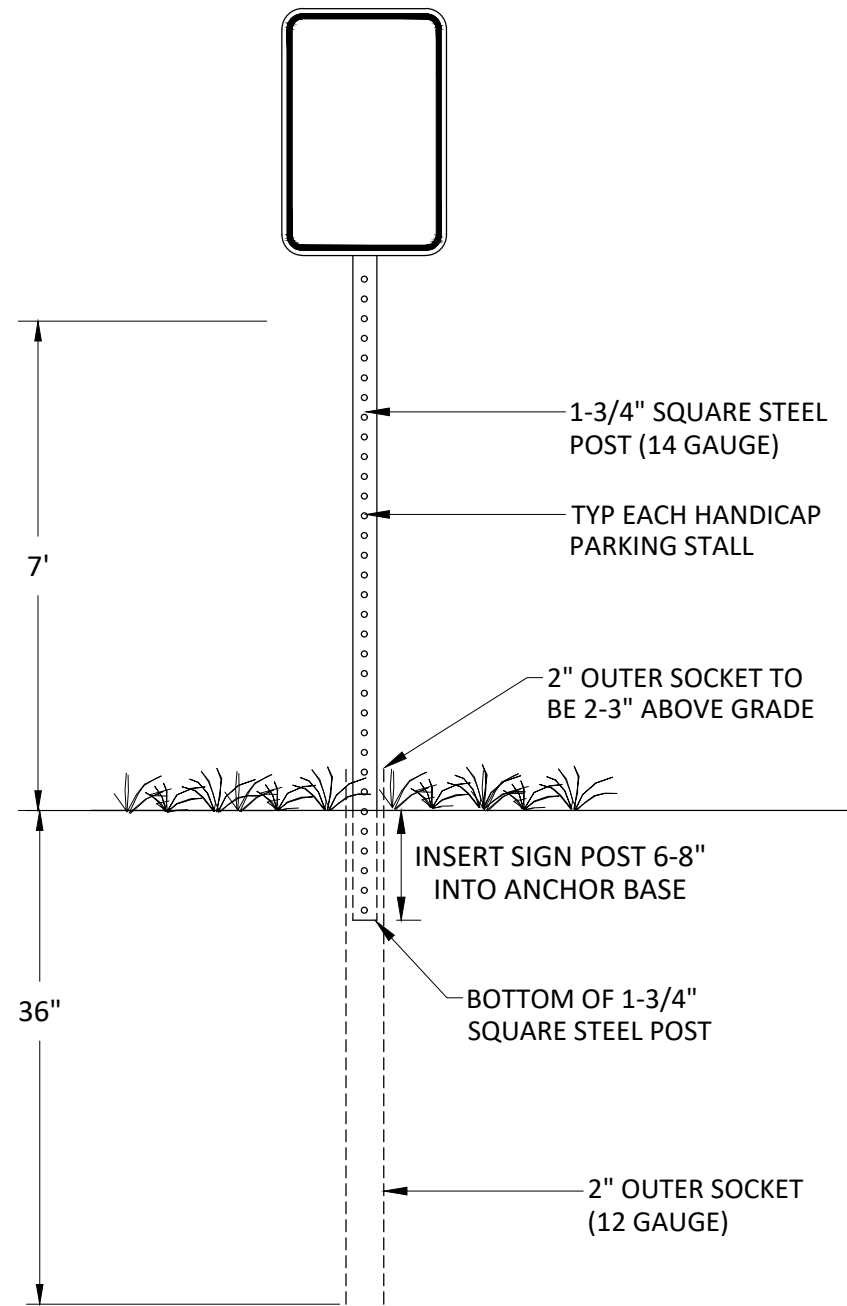


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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
WATERMAIN PLAN - MOTT AVE

SHEET
MWM.08



1 SIGN POST INSTALLATION DETAILS

SIGNS TABULATION					
ITEM NO.	STREET	STATION	SIGN TYPE	SIGN SIZE	COMMENT
1	68TH ST	10+27.87	R1-1	30X30	NEW WITH POST
2	68TH ST	14+20.35	R8-3	24X24	NEW WITH POST
3	68TH ST	18+20.37	R8-3	24X24	NEW WITH POST
4	68TH ST	19+48.59	R7-1	12X18	SALVAGE RE-INSTALL
5	68TH ST	21+33.60	R7-1	12X18	SALVAGE RE-INSTALL
6	68TH ST	22+19.89	R8-3	24X24	NEW WITH POST
7	68TH ST	25+77.20	R8-3	24X24	NEW WITH POST
8	68TH ST	27+67.61	R1-1	30X30	SALVAGE RE-INSTALL
9	MOTT AVE	49+83.90	R1-1	30X30	SALVAGE RE-INSTALL
10	MOTT AVE	52+22.90	R7-11	12X18	SALVAGE RE-INSTALL
11	MOTT AVE	52+52.90	R1-1 R8-3	30X30 24X24	SALVAGE RE-INSTALL
12	MOTT AVE	53+08.54	R1-1	30X30	SALVAGE RE-INSTALL

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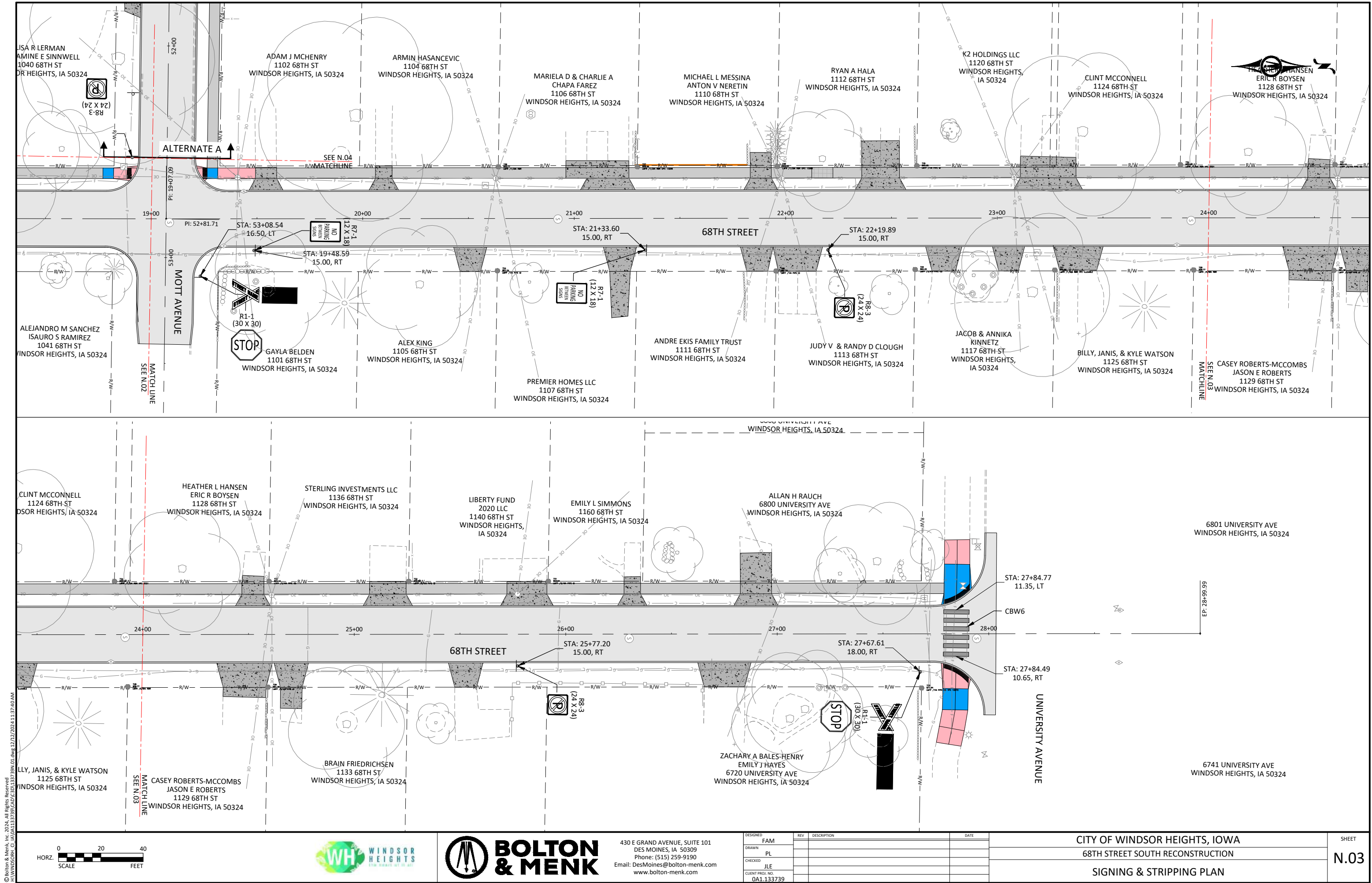


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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
SIGNING & STRIPPING DETAILS AND TABULATION

SHEET
N.01



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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
SIGNING & STRIPPING PLAN

SHEET
N.03

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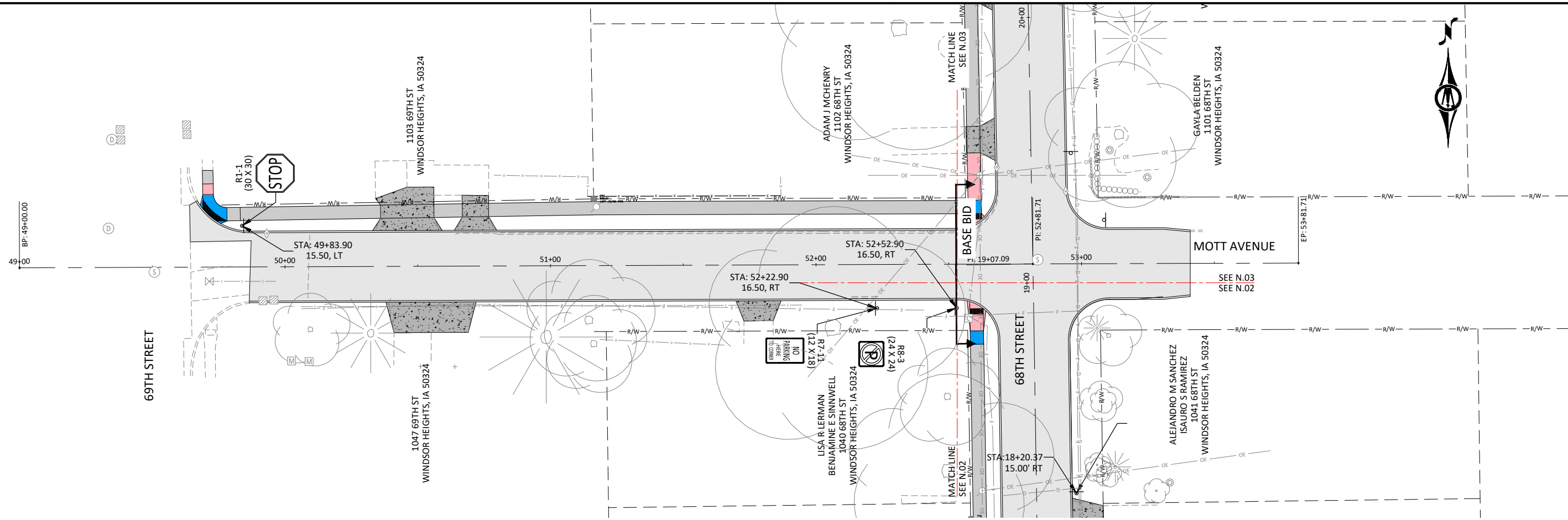
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
SIGNING & STRIPPING PLAN

SHEET

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STORM WATER POLLUTION PREVENTION PLAN

THIS PROJECT IS REGULATED BY THE REQUIREMENTS OF THE IOWA DEPARTMENT OF NATURAL RESOURCES (DNR) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. 2 OR AN IOWA DEPARTMENT OF NATURAL RESOURCES (DNR) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) INDIVIDUAL STORM WATER PERMIT. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF THIS PERMIT AND THE POLLUTION PREVENTION PLAN (PPP).

THIS BASE PPP INCLUDES INFORMATION ON ROLES AND RESPONSIBILITIES, PROJECT SITE DESCRIPTION, CONTROLS, MAINTENANCE PROCEDURES, INSPECTION REQUIREMENTS, NON-STORM WATER CONTROLS, POTENTIAL SOURCES OF OFF RIGHT-OF-WAY POLLUTION, AND DEFINITIONS. THIS PLAN REFERENCES OTHER DOCUMENTS RATHER THAN REPEATING THE INFORMATION CONTAINED IN THE DOCUMENTS. A COPY OF THIS BASE POLLUTION PREVENTION PLAN, AMENDED AS NEEDED DURING CONSTRUCTION, WILL BE READILY AVAILABLE FOR REVIEW.

ALL CONTRACTORS SHALL CONDUCT THEIR OPERATIONS IN A MANNER THAT CONTROLS POLLUTANTS, MINIMIZES EROSION, AND PREVENTS SEDIMENTS FROM ENTERING WATERS OF THE STATE AND LEAVING THE HIGHWAY RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE AND IMPLEMENTATION OF THE PPP FOR THEIR ENTIRE CONTRACT. THIS RESPONSIBILITY SHALL BE FURTHER SHARED WITH SUBCONTRACTORS WHOSE WORK IS A SOURCE OF POTENTIAL POLLUTION AS DEFINED IN THIS PPP.

I.. ROLES AND RESPONSIBILITIES

A. DESIGNER:

- 1. PREPARES BASE PPP INCLUDED IN THE PROJECT PLAN.
- 2. PREPARES NOTICE OF INTENT (NOI) SUBMITTED TO IOWA DNR.
- 3. IS SIGNATURE AUTHORITY ON THE BASE PPP. IF CONSULTANT DESIGNED, SIGNATURE FROM CONTRACTING AUTHORITY IS ALSO REQUIRED.

B. CONTRACTOR:

- 1. SIGNS A CO-PERMITTEE CERTIFICATION STATEMENT ADHERING TO THE REQUIREMENTS OF THE NPDES PERMIT AND THIS PPP. ALL CO-PERMITTEES ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE IOWA ADMINISTRATIVE CODE TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PPP.
- 2. DESIGNATES A WATER POLLUTION CONTROL MANAGER (WPCM), WHO HAS THE DUTIES AND RESPONSIBILITIES AS DEFINED IN SECTION 2602 OF THE STANDARD SPECIFICATIONS.
- 3. SUBMITS AN EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND ECIP UPDATES ACCORDING TO SECTION 2602 OF THE STANDARD SPECIFICATIONS.
- 4. INSTALLS AND MAINTAINS APPROPRIATE CONTROLS. THIS WORK MAY BE SUBCONTRACTED AS DOCUMENTED THROUGH SUBCONTRACTOR REQUEST FORM (FORM 830231).
- 5. SUPERVISES AND IMPLEMENTS GOOD HOUSEKEEPING PRACTICES ACCORDING TO PARAGRAPH III, C, 2.
- 6. CONDUCTS JOINT REQUIRED INSPECTIONS OF THE SITE WITH INSPECTION STAFF. WHEN CONTRACTOR IS NOT MOBILIZED ON SITE, CONTRACTOR MAY DELEGATE THIS RESPONSIBILITY TO A TRAINED OR CERTIFIED SUBCONTRACTOR. CONTRACTING AUTHORITY ALSO MAY WAIVE JOINT INSPECTION REQUIREMENT DURING WINTER SHUTDOWN. IN BOTH CIRCUMSTANCES, WPCM (OR TRAINED OR CERTIFIED DELEGATE FROM THE CONTRACTOR) IS STILL RESPONSIBLE TO REVIEW AND SIGN INSPECTION REPORTS.
- 7. COMPLIES WITH TRAINING AND CERTIFICATION REQUIREMENTS OF SECTION 2602 OF THE STANDARD SPECIFICATIONS.
- 8. SUBMITS AMENDED PPP SITE MAP ACCORDING TO SECTION 2602 OF THE STANDARD SPECIFICATIONS.

C. SUBCONTRACTORS:

- 1. SIGN A CO-PERMITTEE CERTIFICATION STATEMENT ADHERING TO THE REQUIREMENTS OF THE NPDES PERMIT AND THIS PPP IF: RESPONSIBLE FOR SEDIMENT OR EROSION CONTROLS; INVOLVED IN LAND DISTURBING ACTIVITIES; OR PERFORMING WORK THAT IS A SOURCE OF POTENTIAL POLLUTION AS DEFINED IN THIS PPP. SUBCONTRACTED WORK ITEMS ARE IDENTIFIED IN SUBCONTRACTOR REQUEST FORMS (FORM 830231). ALL CO-PERMITTEES ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE IOWA ADMINISTRATIVE CODE TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PPP.
- 2. IMPLEMENT GOOD HOUSEKEEPING PRACTICES ACCORDING TO PARAGRAPH III, C, 2.

D. RCE/PROJECT ENGINEER:

- 1. IS PROJECT STORM WATER MANAGE.
- 2. TAKES ACTIONS NECESSARY TO ENSURE COMPLIANCE WITH STORM WATER REQUIREMENTS INCLUDING, WHERE APPROPRIATE, ISSUING STOP WORK ORDERS, AND DIRECTING ADDITIONAL INSPECTIONS AT CONSTRUCTION PROJECT SITES THAT ARE EXPERIENCING PROBLEMS WITH ACHIEVING PERMIT COMPLIANCE.
- 3. ORDERS THE TAKING OF MEASURES TO CEASE, CORRECT, PREVENT, OR MINIMIZE THE CONSEQUENCES OF NON-COMPLIANCE WITH THE STORM WATER REQUIREMENTS OF THE APPLICABLE PERMIT.
- 4. SUPERVISES ALL WORK NECESSARY TO MEET STORM WATER REQUIREMENTS AT THE PROJECT, INCLUDING WORK PERFORMED BY CONTRACTORS AND SUBCONTRACTORS.
- 5. REQUIRES EMPLOYEES, CONTRACTORS, AND SUBCONTRACTORS TO TAKE APPROPRIATE RESPONSIVE ACTION TO COMPLY WITH STORM WATER REQUIREMENTS, INCLUDING REQUIRING ANY SUCH PERSON TO CEASE OR CORRECT A VIOLATION OF STORM WATER REQUIREMENTS, AND TO ORDER OR RECOMMEND SUCH OTHER ACTIONS AS NECESSARY TO MEET STORM WATER REQUIREMENTS.
- 6. IS FAMILIAR WITH THE PROJECT PPP AND STORM WATER SITE MAP.
- 7. IS THE POINT OF CONTACT FOR THE PROJECT FOR REGULATORY OFFICIALS, INSPECTOR, CONTRACTORS, AND SUBCONTRACTORS REGARDING STORM WATER REQUIREMENTS.
- 8. IS SIGNATURE AUTHORITY ON NOTICE OF DISCONTINUATION.
- 9. MAINTAINS AN UP-TO-DATE RECORD OF CONTRACTORS, SUBCONTRACTORS, AND SUBCONTRACTED WORK ITEMS THROUGH SUBCONTRACTOR REQUEST FORMS (FORM 830231).
- 10. MAKES INFORMATION TO DETERMINE PERMIT COMPLIANCE AVAILABLE TO THE DNR UPON THEIR REQUEST.

E. INSPECTOR:

- 1. UPDATES PPP THROUGH FIELD BOOK ENTRIES AND STORM WATER SITE INSPECTION REPORTS IF THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE WHICH HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS FROM THE PROJECT.
- 2. MAKES INFORMATION TO DETERMINE PERMIT COMPLIANCE AVAILABLE TO THE DNR UPON THEIR REQUEST.
- 3. CONDUCTS JOINT REQUIRED INSPECTIONS OF THE SITE WITH THE CONTRACTOR/SUBCONTRACTOR.
- 4. COMPLETES AN INSPECTION REPORT AFTER EACH INSPECTION.
- 5. IS SIGNATURE AUTHORITY ON STORM WATER INSPECTION REPORTS.

II.. PROJECT SITE DESCRIPTION

- A. THIS POLLUTION PREVENTION PLAN (PPP) IS FOR THE RECONSTRUCTION OF 3 BLOCK OF RESIDENTAL STREETS.
- B. THIS PPP COVERS APPROXIMATELY *2.75* ACRES WITH AN ESTIMATED *2.08* ACRES BEING DISTURBED. THE PORTION OF THE PPP COVERED BY THIS CONTRACT HAS *2.08* ACRES DISTURBED.
- C. THE PPP IS LOCATED IN AN AREA OF 1 SOIL ASSOCIATIONS, TERRIL - CLARION. THE ESTIMATED WEIGHTED AVERAGE RUNOFF COEFFICIENT NUMBER FOR THIS PPP AFTER COMPLETION WILL BE *0.64*.
- D. STORM WATER SITE MAP - MULTIPLE SOURCES OF INFORMATION COMPRISE THE BASE STORM WATER SITE MAP INCLUDING:
 - 1. DRAINAGE PATTERNS - PLAN AND PROFILE SHEETS AND EROSION SHEETS (R-SHEET).
 - 2. PROPOSED SLOPES - CROSS SECTIONS.
 - 3. AREAS OF SOIL DISTURBANCE - EROSION SHEETS (R-SHEETS).
 - 4. LOCATION OF STRUCTURAL CONTROLS - IN R- SHEETS.
 - 5. LOCATIONS OF NON-STRUCTURAL CONTROLS - IN R-SHEETS.
 - 6. LOCATIONS OF STABILIZATION PRACTICES - GENERALLY WITHIN CONSTRUCTION LIMITS SHOWN ON EROSION CONTROL SHEETS (R-SHEETS).
 - 7. SURFACE WATERS (INCLUDING WETLANDS) - PROJECT LOCATION MAP AND PLAN AND PROFILE SHEETS.
 - 8. LOCATIONS WHERE STORM WATER IS DISCHARGED - M1 STORM WATER SHEETS.
- E. THE BASE STORM WATER SITE MAP IS AMENDED BY CONTRACT MODIFICATIONS AND PROGRESS PAYMENTS (FIELD BOOK ENTRIES) OF COMPLETED EROSION CONTROL WORK. ALSO, DUE TO PROJECT PHASING, EROSION AND SEDIMENT CONTROLS SHOWN ON PROJECT PLANS MAY NOT BE INSTALLED UNTIL NEEDED, BASED ON SITE CONDITIONS. FOR EXAMPLE, SILT FENCE DITCH CHECKS WILL TYPICALLY NOT BE INSTALLED UNTIL THE DITCH HAS BEEN INSTALLED. INSTALLED LOCATIONS MAY ALSO BE MODIFIED FROM TABULATION LOCATIONS BY FIELD STAFF. INSTALLED LOCATIONS WILL BE DOCUMENTED BY FIELD BOOK ENTRIES AND AMENDED PPP SITE MAP.
- F. RUNOFF FROM THIS WORK WILL FLOW INTO CITY STORM SEWER NETWORK.

III.. CONTROLS

- A. THE CONTRACTOR'S ECIP SPECIFIED IN ARTICLE 2602.03 OF THE STANDARD SPECIFICATIONS FOR ACCOMPLISHMENT OF STORM WATER CONTROLS SHOULD CLEARLY DESCRIBE THE INTENDED SEQUENCE OF MAJOR ACTIVITIES, AND FOR EACH ACTIVITY DEFINE THE CONTROL MEASURE AND THE TIMING DURING THE CONSTRUCTION PROCESS THAT THE MEASURE WILL BE IMPLEMENTED.
- B. PRESERVE VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION.
- C. SECTIONS 2601 AND 2602 OF THE STANDARD SPECIFICATIONS DEFINE REQUIREMENTS TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES. ACTUAL QUANTITIES USED AND INSTALLED LOCATIONS MAY VARY FROM THE BASE PPP AND AMENDMENT OF THE PLAN WILL BE DOCUMENTED VIA FIELD BOOK ENTRIES, AMENDED PPP SITE MAP, OR BY CONTRACT MODIFICATION. ADDITIONAL EROSION AND SEDIMENT CONTROL ITEMS MAY BE REQUIRED AS DETERMINED BY THE INSPECTOR AND/OR CONTRACTOR DURING STORM WATER SITE INSPECTIONS. IF THE WORK INVOLVED IS NOT APPLICABLE TO ANY CONTRACT ITEMS, THE WORK WILL BE PAID FOR ACCORDING TO ARTICLE 1109.03 PARAGRAPH B OF THE STANDARD SPECIFICATIONS.
 - 1. EROSION AND SEDIMENT CONTROLS
 - a. STABILIZATION PRACTICES
 - 1) SITE PLANS WILL ENSURE THAT EXISTING VEGETATION OR NATURAL BUFFERS ARE PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED.
 - 2) INITIALIZE STABILIZATION OF DISTURBED AREAS IMMEDIATELY AFTER CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE:
 - a) PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR
 - b) TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
 - 3) STAGED PERMANENT AND/OR TEMPORARY STABILIZING SEEDING AND MULCHING SHALL BE COMPLETED AS THE DISTURBED AREAS ARE COMPLETED. INCOMPLETE AREAS SHALL BE STABILIZED ACCORDING TO PARAGRAPH III, C, 1, A, 2, B ABOVE.
 - 4) PERMANENT AND TEMPORARY STABILIZATION PRACTICES TO BE USED FOR THIS PROJECT ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES (100-0A, 100-1A, OR 100-1C) AND ESTIMATE REFERENCE INFORMATION (100-4A) LOCATED IN THE C SHEETS. TYPICAL DRAWINGS DETAILING CONSTRUCTION OF THE PRACTICES TO BE USED ON THIS PROJECT ARE REFERENCED IN THE STANDARD ROAD PLANS TABULATION (105-4) IN THE C SHEETS.
 - 5) PRESERVATION OF EXISTING VEGETATION WITHIN RIGHT-OF-WAY OR EASEMENTS WILL ACT AS VEGETATIVE BUFFER STRIPS.
 - 6) PRESERVATION OF TOPSOIL: BID ITEMS TO BE USED FOR THIS PROJECT ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES (100-0A, 100-1A, OR 100-1C) AND ESTIMATE REFERENCE INFORMATION (100-4A) LOCATED IN THE C SHEETS. ADDITIONAL INFORMATION MAY BE FOUND IN TABULATIONS IN THE C OR T SHEETS OR IS REFERENCED IN SECTION 2105 OF STANDARD SPECIFICATIONS.
 - b. STRUCTURAL PRACTICES
 - 1) STRUCTURAL PRACTICES WILL BE IMPLEMENTED TO DIVERT FLOWS FROM EXPOSED SOILS AND DETAIN OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. ADDITIONALLY, STRUCTURAL PRACTICES MAY INCLUDE: SILT BASINS THAT PROVIDE 3600 CUBIC FEET OF STORAGE PER ACRE DRAINED OR EQUIVALENT SEDIMENT CONTROLS, OUTLET STRUCTURES THAT WITHDRAW WATER FROM SURFACE WHEN DISCHARGING BASINS, AND CONTROLS TO DIRECT STORM WATER TO VEGETATED AREAS.
 - 2) STRUCTURAL PRACTICES TO BE USED FOR THIS PROJECT ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES (100-0A, 100-1A, OR 100-1C) AND ESTIMATE REFERENCE INFORMATION (100-4A) LOCATED IN THE C SHEETS, AS WELL AS ALL OTHER ITEM SPECIFIC TABULATIONS. TYPICAL DRAWINGS DETAILING CONSTRUCTION OF THE DEVICES TO BE USED ON THIS PROJECT CAN BE FOUND IN THE B SHEETS OR ARE REFERENCED IN THE STANDARD ROAD PLANS TABULATION (105-4) LOCATED IN THE C SHEETS.
 - c. STORM WATER MANAGEMENT
 - MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THIS MAY INCLUDE VELOCITY DISSIPATION DEVICES AT DISCHARGE LOCATIONS AND ALONG LENGTH OF OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSION VELOCITY FLOW FROM STRUCTURE TO WATER COURSE. IF INCLUDED WITH THIS PROJECT, THESE ITEMS ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES (100-0A, 100-1A, OR 100-1C) AND ESTIMATE REFERENCE INFORMATION (100-4A) LOCATED IN THE C SHEETS, AS WELL AS ALL OTHER ITEM SPECIFIC TABULATIONS. TYPICAL DRAWINGS DETAILING CONSTRUCTION OF THE PRACTICES TO BE USED ON THIS PROJECT ARE REFERENCED IN THE STANDARD ROAD PLANS TABULATION (105-4) IN THE C SHEETS. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

SWWP GENERAL NOTE

SHEET

R.01

2. OTHER CONTROLS

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 APPLICABLE LAWS, RULES OR REGULATIONS SHALL APPLY.

- a. VEHICLE ENTRANCES AND EXITS - CONSTRUCT AND MAINTAIN ENTRANCES AND EXITS TO PREVENT TRACKING OF SEDIMENTS ONTO ROADWAYS.
- b. MATERIAL DELIVERY, STORAGE AND USE - IMPLEMENT PRACTICES TO PREVENT DISCHARGE OF CONSTRUCTION MATERIALS DURING DELIVERY, STORAGE, AND USE.
- c. STOCKPILE MANAGEMENT - INSTALL CONTROLS TO REDUCE OR ELIMINATE POLLUTION OF STORM WATER FROM STOCKPILES OF SOIL AND PAVING.
- d. WASTE DISPOSAL - DO NOT DISCHARGE ANY MATERIALS, INCLUDING BUILDING MATERIALS, INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- e. SPILL PREVENTION AND CONTROL - IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES TO CONTAIN AND CLEAN UP SPILLS AND PREVENT MATERIAL DISCHARGES TO THE STORM DRAIN SYSTEM AND WATERS OF THE STATE.
- f. CONCRETE RESIDUALS AND WASHOUT WASTES - WASTE SHALL NOT BE DISCHARGED TO A SURFACE WATER AND IS NOT ALLOWED TO ADVERSELY AFFECT A WATER OF THE STATE. DESIGNATE TEMPORARY CONCRETE WASHOUT FACILITIES FOR RINSING OUT CONCRETE TRUCKS. PROVIDE DIRECTIONS TO TRUCK DRIVERS WHERE DESIGNATED WASHOUT FACILITIES ARE LOCATED. DESIGNATED WASHOUT AREAS SHOULD BE LOCATED AT LEAST 50 FEET AWAY FROM STORM DRAINS, STREAMS OR OTHER WATER BODIES. CARE SHOULD BE TAKEN TO ENSURE THESE FACILITIES DO NOT OVERFLOW DURING STORM EVENTS.
- g. CONCRETE GROOVING/GRINDING SLURRY - DO NOT DISCHARGE SLURRY TO A WATERBODY OR STORM DRAIN. SLURRY MAY BE APPLIED ON FORE SLOPES OR REMOVED FROM THE PROJECT.
- h. VEHICLE AND EQUIPMENT STORAGE AND MAINTENANCE AREAS - PERFORM ON SITE FUELING AND MAINTENANCE IN ACCORDANCE WITH ALL ENVIRONMENT LAWS SUCH AS PROPER STORAGE OF ONSITE FUELS AND PROPER DISPOSAL OF USED ENGINE OIL OR OTHER FLUIDS ON SITE. EMPLOY WASHING PRACTICES THAT PREVENT CONTAMINATION OF SURFACE AND GROUND WATER FROM WASH WATER. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- i. LITTER MANAGEMENT - ENSURE EMPLOYEES PROPERLY DISPOSE OF LITTER. MINIMIZE EXPOSURE OF TRASH IF EXPOSURE TO PRECIPITATION OR STORM WATER WOULD RESULT IN A DISCHARGE OF POLLUTANTS.
- j. DEWATERING - PROPERLY TREAT WATER TO REMOVE SUSPENDED SEDIMENT BEFORE IT RE-ENTERS A WATERBODY OR DISCHARGES OFF-SITE. MEASURES ARE ALSO TO BE TAKEN TO PREVENT SCOUR EROSION AT DEWATERING DISCHARGE POINT.

3. 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 WILL BE HANDLED ACCORDING TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS IN EFFECT AT THE TIME.

IV.. MAINTENANCE PROCEDURES

THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES IN PROPER WORKING ORDER, INCLUDING CLEANING, REPAIRING, OR REPLACING THEM THROUGHOUT THE CONTRACT PERIOD. THIS SHALL BEGIN WHEN THE FEATURES HAVE LOST 50% OF THEIR CAPACITY.

V.. INSPECTION REQUIREMENTS

- A. INSPECTIONS SHALL BE MADE JOINTLY BY THE CONTRACTOR AND THE CONTRACTING AUTHORITY'S INSPECTOR AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. STORM WATER SITE INSPECTIONS WILL INCLUDE:
 - 1. DATE OF THE INSPECTION.
 - 2. SUMMARY OF THE SCOPE OF THE INSPECTION.
 - 3. NAME AND QUALIFICATIONS OF THE PERSONNEL MAKING THE INSPECTION.
 - 4. REVIEW OF EROSION AND SEDIMENT CONTROL MEASURES WITHIN DISTURBED AREAS FOR THE EFFECTIVENESS IN PREVENTING IMPACTS TO RECEIVING WATERS.
 - 5. MAJOR OBSERVATIONS RELATED TO THE IMPLEMENTATION OF THE PPP.
 - 6. IDENTIFICATION OF CORRECTIVE ACTIONS REQUIRED TO MAINTAIN OR MODIFY EROSION AND SEDIMENT CONTROL MEASURES.
- B. INCLUDE STORM WATER SITE INSPECTION REPORTS IN THE AMENDED PPP. INCORPORATE ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DETERMINED AS A RESULT OF THE INSPECTION. IMMEDIATELY BEGIN CORRECTIVE ACTIONS ON ALL DEFICIENCIES FOUND WITHIN 3 CALENDAR DAYS OF THE INSPECTION AND COMPLETE WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. IF IT IS DETERMINED THAT MAKING THE CORRECTIONS LESS THAN 72 HOURS AFTER THE INSPECTION IS IMPRACTICABLE, IT SHOULD BE DOCUMENTED WHY IT IS IMPRACTICABLE AND INDICATE AN ESTIMATED DATE BY WHICH THE CORRECTIONS WILL BE MADE.

VI.. NON-STORM WATER DISCHARGES

THIS INCLUDES SUBSURFACE DRAINS (I.E. LONGITUDINAL AND STANDARD SUBDRAINS) AND SLOPE DRAINS. THE VELOCITY OF THE DISCHARGE FROM THESE FEATURES MAY BE CONTROLLED BY THE USE OF HEADWALLS OR BLOCKS, CLASS A STONE, EROSION STONE OR OTHER APPROPRIATE MATERIALS. THIS ALSO INCLUDES UNCONTAMINATED GROUNDWATER FROM DEWATERING OPERATIONS, WHICH WILL BE CONTROLLED AS DISCUSSED IN SECTION III OF THE PPP.

VII.. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

SILTS, SEDIMENT, AND OTHER FORMS OF POLLUTION MAY BE TRANSPORTED ONTO HIGHWAY RIGHT-OF-WAY (ROW) AS A RESULT OF A STORM EVENT. POTENTIAL SOURCES OF POLLUTION LOCATED OUTSIDE HIGHWAY ROW ARE BEYOND THE CONTROL OF THIS PPP. POLLUTION WITHIN HIGHWAY ROW WILL BE CONVEYED AND CONTROLLED PER THIS PPP.

VIII.. DEFINITIONS

- A. BASE PPP - INITIAL POLLUTION PREVENTION PLAN.
- B. AMENDED PPP - BASE PPP AMENDED DURING CONSTRUCTION. MAY INCLUDE PLAN REVISIONS OR CONTRACT MODIFICATIONS FOR NEW ITEMS, STORM WATER SITE INSPECTION REPORTS, FIELD BOOK ENTRIES MADE BY THE INSPECTOR, AMENDED PPP SITE MAP BY THE CONTRACTOR, ECIP, NOI, CO-PERMITTEE CERTIFICATIONS, AND SUBCONTRACTOR REQUEST FORMS. ITEMS AMENDING THE PPP ARE STORED ELECTRONICALLY AND ARE READILY AVAILABLE UPON REQUEST.
- C. FIELD BOOK ENTRIES - THIS CONTAINS THE INSPECTOR'S DAILY DIARY AND BID ITEM POSTINGS.
- D. CONTROLS - METHODS, PRACTICES, OR MEASURES TO MINIMIZE OR PREVENT EROSION, CONTROL SEDIMENTATION, CONTROL STORM WATER, OR MINIMIZE CONTAMINANTS FROM OTHER TYPES OF WASTE OR MATERIALS. ALSO CALLED BEST MANAGEMENT PRACTICES (BMPs).
- E. SIGNATURE AUTHORITY - REPRESENTATIVE AUTHORIZED TO SIGN VARIOUS STORM WATER DOCUMENTS.

IX.. 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.

SIGNATURE

PRINTED OR TYPED NAME

SIGNATURE

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CITY OF WINDSOR HEIGHTS, IOWA

68TH STREET SOUTH RECONSTRUCTION

SWWP GENERAL NOTE

SHEET

R.02

Not intended for use in perennial or intermittent streams.

placing Perimeter and Slope Sediment Control Device. Ensure ground surface is smooth in order to provide continuous contact with Perimeter and Slope Sediment Control Device. Minor ground shaping may be required. Filling and compacting rills and gullies, and minor ground shaping, is incidental to Perimeter and Slope Sediment Control Device.

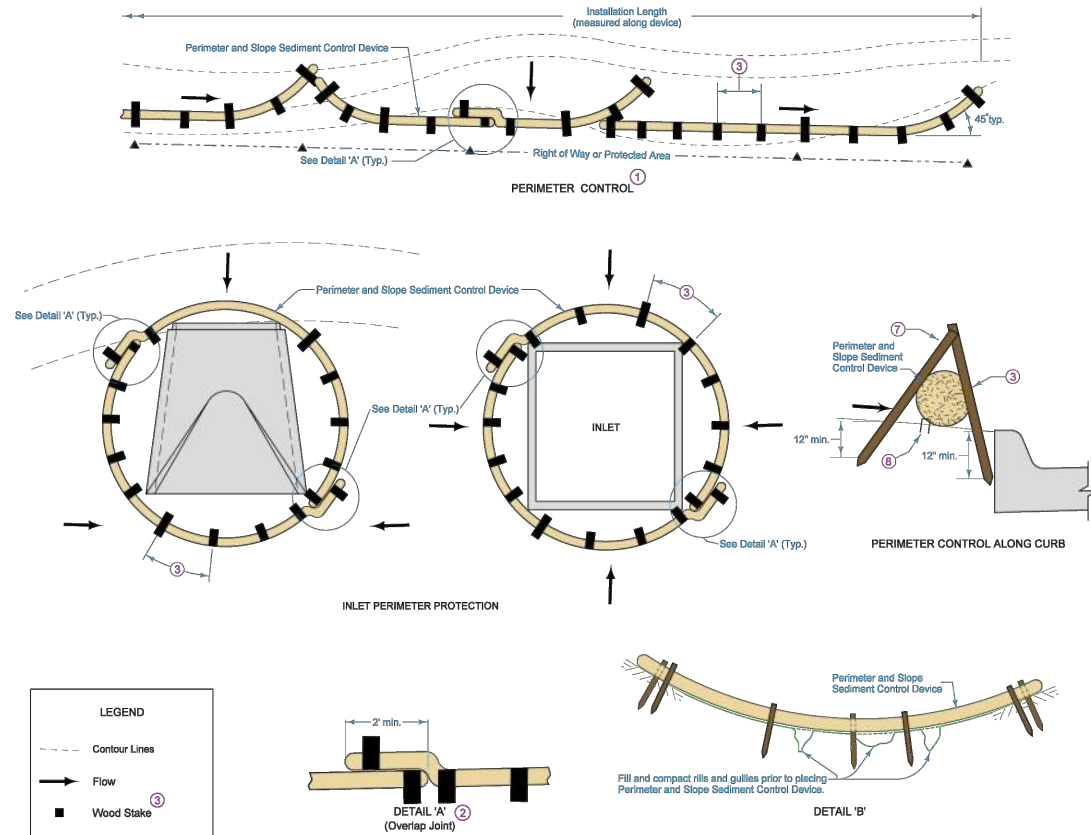
- 1 Overlap joints per Detail 'A'. Turn the lower 10 feet of each run up the slope to help contain runoff. When placed such that runoff is conveyed along the device, additional run-ups and/or means may be required to reduce erosion along the device. Run-ups will be included in the installation length.
- 2 Extra material required to install overlaps will not be included in the installation length.
- 3 Install downslope stakes at 4 foot maximum spacing. Upslope stakes spaced at ends and middle of device. Use minimum actual stake size 3/4" x 3/4" wood stakes.
- 7 All stakes to be placed at approximately 45 degree angle to ground.
- 8 Install staples every 2 feet on upslope side.

Possible Contract Item:
Perimeter and Slope Sediment Control Device
Ditch Check Sediment Control Device

Possible Tabulation:
100-19

 IOWA DOT STANDARD ROAD PLAN	REVISION	
	6	10-18-2
	EC-204 SHEET 1 of 3	

**PERIMETER, SLOPE AND DITCH CHECK
SEDIMENT CONTROL DEVICES**



Not intended for use in perennial or intermittent streams.

placing Perimeter and Slope Sediment Control Device. Ensure ground surface is smooth in order to provide continuous contact with Perimeter and Slope Sediment Control Device. Minor ground shaping may be required. Filling and compacting rills and gullies, and minor ground shaping, is incidental to Perimeter and Slope Sediment Control Device.

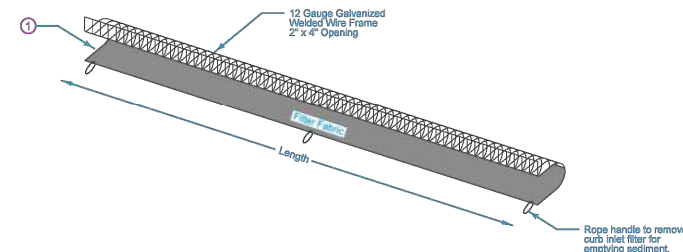
- ① Overlap joints per Detail 'A'. Turn the lower 10 feet of each run up the slope to help contain runoff. When placed such that runoff is conveyed along the device, additional run-ups and/or means may be required to reduce erosion along the device. Run-ups will be included in the installation length.
- ② Extra material required to install overlaps will not be included in the installation length.
- ③ Install downslope stakes at 4 foot maximum spacing. Upslope stakes spaced at ends and middle of device. Use minimum actual stake size 3/4" x 3/4" wood stakes.
- ⑦ All stakes to be placed at approximately 45 degree angle to ground.
- ⑧ Install staples every 2 feet on upslope side.

Possible Contract Item:
Perimeter and Slope Sediment Control Device
Ditch Check Sediment Control Device

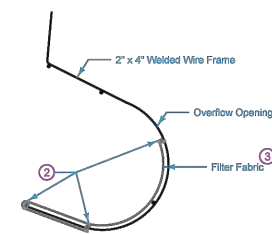
Possible Tabulation:
100-19

 IOWA DOT STANDARD ROAD PLAN	REVISION	
	6	10-18-2
	EC-204 SHEET 1 of 3	

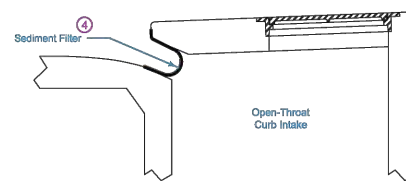
**PERIMETER, SLOPE AND DITCH CHECK
SEDIMENT CONTROL DEVICES**



OPEN-THROAT CURB INTAKE SEDIMENT FILTER



SEDIMENT FILTER CROSS SECTION



SEDIMENT FILTER PLACEMENT

Remove sediment filter upon stabilization of sediment sources.

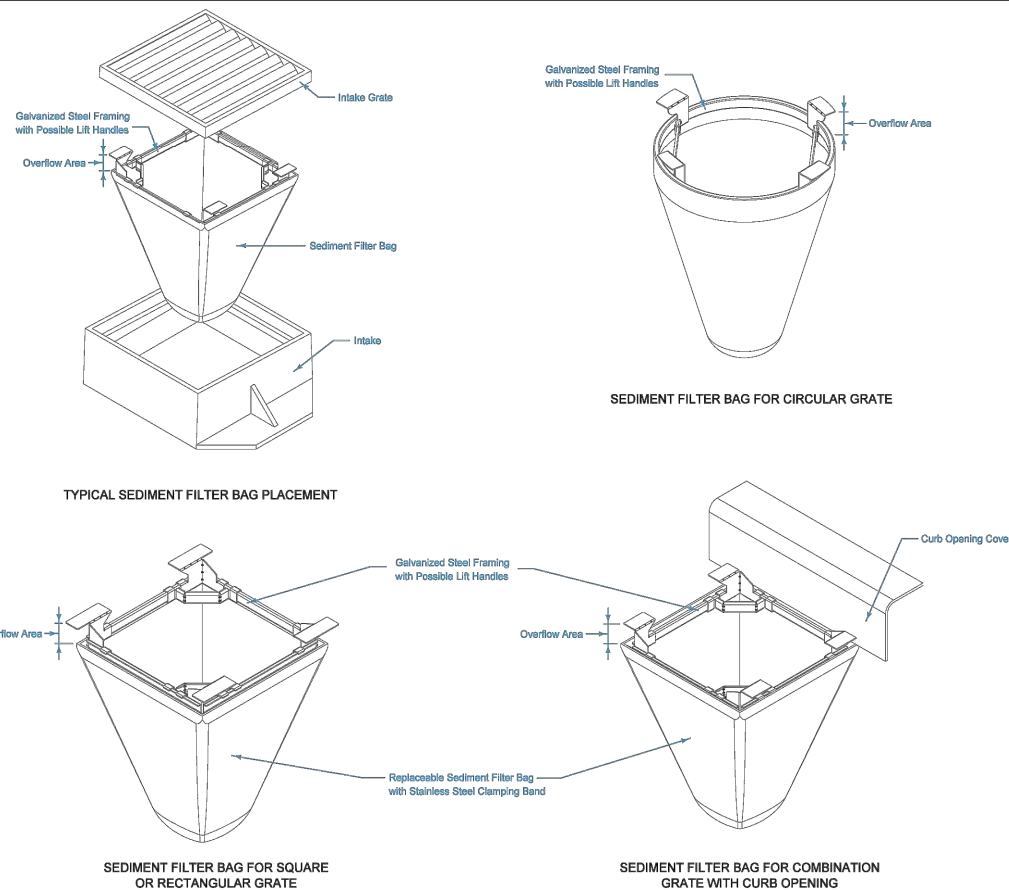
- ① Trim frame as needed to tightly fit in the intake throat. Overlay fabric a minimum of 3 inches and securely fasten.
- ② Securely attach filter fabric to the wire frame leaving an overflow opening above the filter fabric.
- ③ Woven material meeting the requirements of Table 4196.01-1 of the Standard Specifications, except a maximum apparent opening size US Sieve No. 10 and a minimum flow rate of 145 gallons per minute per square foot.
- ④ Insert sediment filter to create a compression fit in the intake throat. If overflow opening is not present after inserting filter, trim filter fabric so opening is present.

Possible Contract Items:
 Open-throat Curb Intake Sediment Filter
 Maintenance of Open-throat Curb Intake Sediment Filter
 Removal of Open-throat Curb Intake Sediment Filter

Possible Tabulation
100-36

 IOWA DOT	REVISION	
	1	10-21-20
STANDARD ROAD PLAN	EC-602	
	SHEET 1 of 1	

**OPEN-THROAT CURB INTAKE
SEDIMENT FILTER**



Use sediment filter bag consisting of woven material meeting the requirements of Table 4196.01-1 of the Standard Specifications, except a maximum apparent opening size of US Sieve No. 10 and a minimum flow rate of 145 gallons per minute per square foot. Sediment filter bags without steel frame and clamping bands will be allowed if overflow is provided.

Remove sediment filter bag upon stabilization of sediment sources.

Measurement for Grate Intake Sediment Filter Bag will be by count.

Basis of Payment for Grate Intake Sediment Filter Bag will be at the contract unit price for each device installed. Payment is full compensation for furnishing all equipment, labor, and materials required to install the Grate Intake Sediment Filter Bag as shown.

Method of Measurement for Maintenance of Grate Intake Sediment Filter Bag will be by count.

Basis of Payment for Maintenance of Grate Intake Sediment Filter Bag will be at the contract unit price for each occurrence. Payment is full compensation for clean out and disposal of material when capacity reaches 50%, and for any other repair needed during the project.

Measurement for Removal of Grate Intake Sediment Filter Bag will be by count.

Basis of Payment for Removal of Grate Intake Sediment Filter Bag will be at the contract unit price for each device removed. Payment is full compensation for all labor and equipment required for removal.

Possible Contract Items:
 Grate Intake Sediment Filter Bag
 Maintenance of Grate Intake Sediment Filter Bag
 Removal of Grate Intake Sediment Filter Bag

Possible Tabulation
100-37

 IOWA DOT	REVISION	
	New	10-17-23
STANDARD ROAD PLAN	EC-604	
	SHEET 1 of 1	

GRATE INTAKE
SEDIMENT FILTER BAG

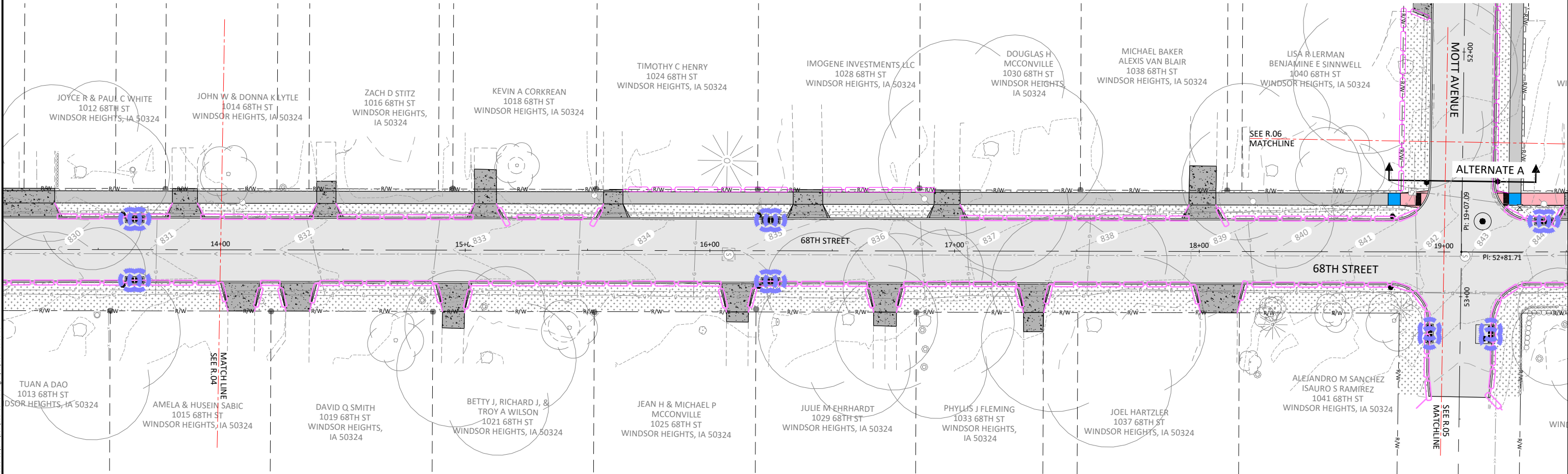
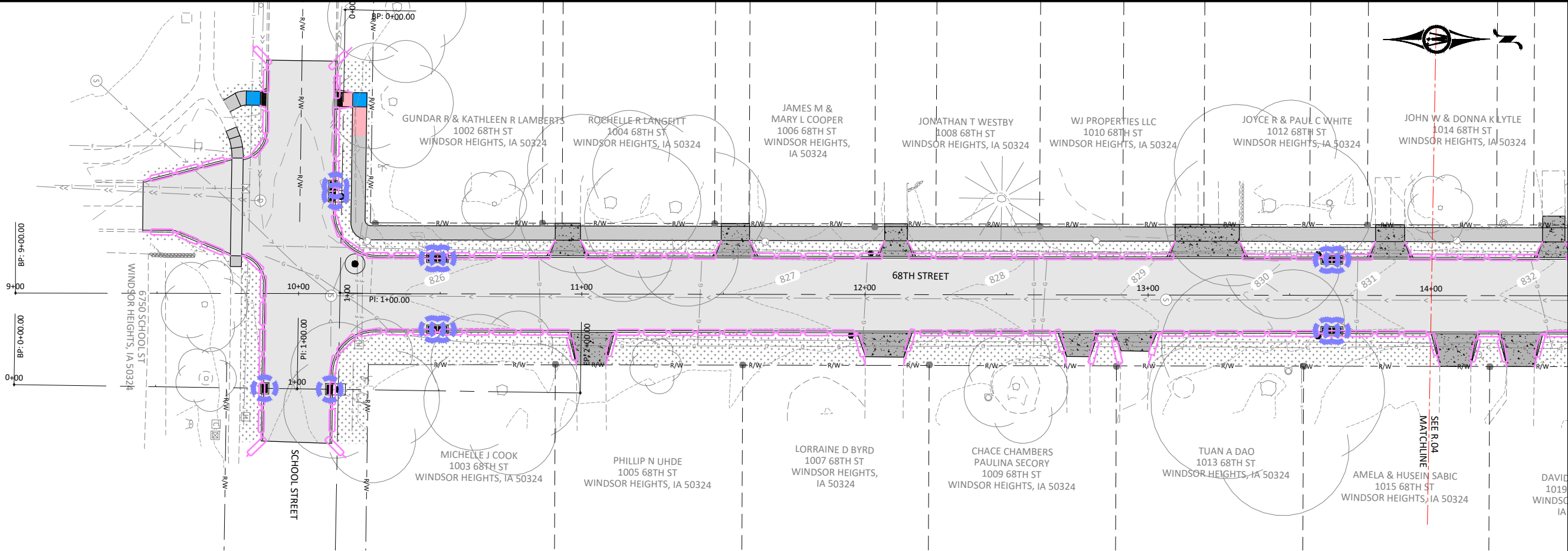
SHEET

R.03

EROSION CONTROL LEGEND

- MAJOR CONTOUR - EXISTING
- MINOR CONTOUR - EXISTING
- MAJOR CONTOUR - PROPOSED
- MINOR CONTOUR - PROPOSED
- DRAINAGE ARROW
- FILTER SOCK/WATTLE
- INLET PROTECTION
- SEED

NOTE:
EROSIONS CONTROL BEST MANAGEMENT PRACTICES (BMPs) AS SHOWN ON THIS PLAN SHEET ARE RECOMMENDATIONS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, INSTALLING, AND MODIFYING BMPs AS NECESSARY TO PREVENT ILLICIT DISCHARGE FROM THE PROJECT SITE.



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HORIZ. SCALE FEET

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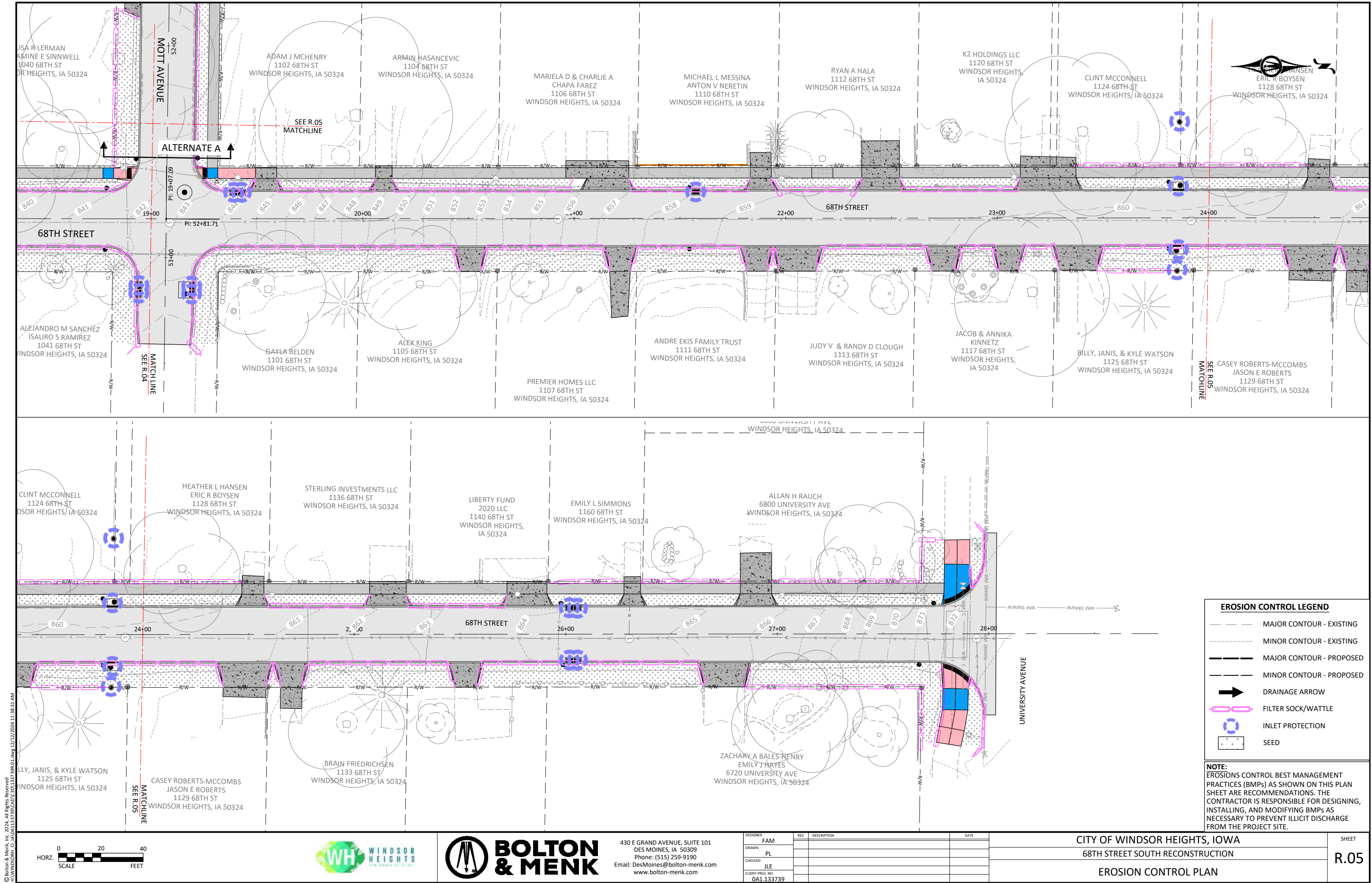
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

EROSION CONTROL PLAN

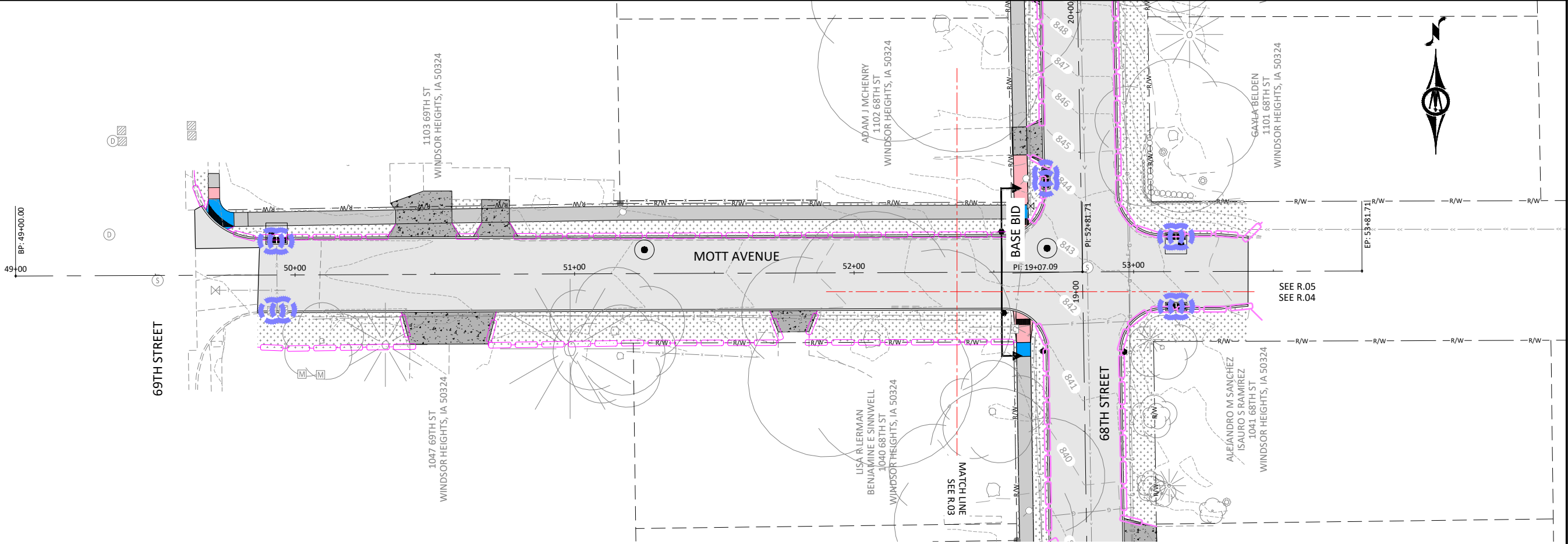
SHEET
R.04



EROSION CONTROL LEGEND

- MAJOR CONTOUR - EXISTING
- MINOR CONTOUR - EXISTING
- MAJOR CONTOUR - PROPOSED
- MINOR CONTOUR - PROPOSED
- DRAINAGE ARROW
- FILTER SOCK/WATTLE
- INLET PROTECTION
- SEED

NOTE:
EROSIONS CONTROL BEST MANAGEMENT PRACTICES (BMPs) AS SHOWN ON THIS PLAN SHEET ARE RECOMMENDATIONS. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING, INSTALLING, AND MODIFYING BMPs AS NECESSARY TO PREVENT ILLICIT DISCHARGE FROM THE PROJECT SITE.



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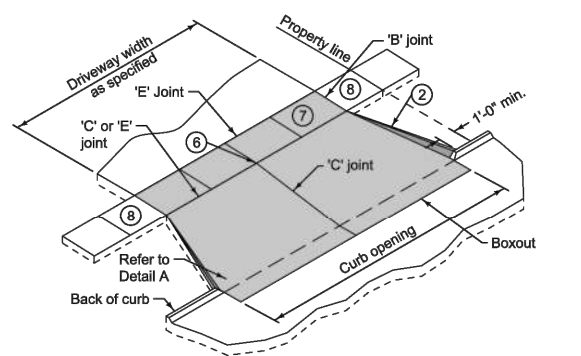
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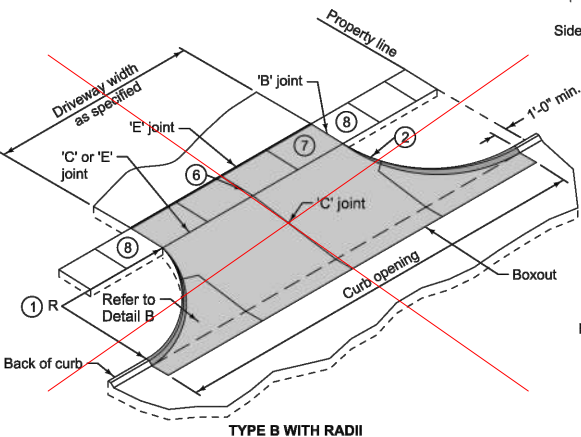
CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
EROSION CONTROL PLAN

SHEET

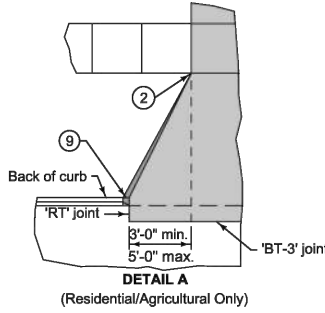
R.06



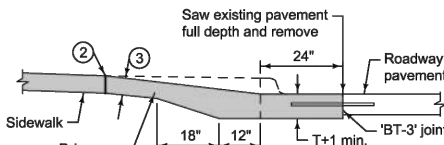
TYPE B WITH FLARES



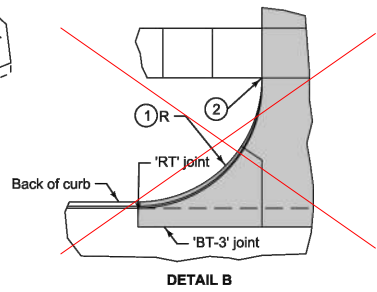
TYPE B WITH RADII



DETAIL A
(Residential/Agricultural Only)



SECTION A-A



DETAIL B

- 1 Driveway radius (R). Residential: 10 foot minimum, 15 foot maximum. Commercial and industrial: As specified in the contract documents.
- 2 Transition the curb height to 0 inches at end of taper/radius or at the front edge of sidewalk. Do not extend raised curb cross sidewalk.
- 3 Pavement thickness. Residential: 6 inches minimum. Commercial and industrial: 7 inches minimum.
- 4 Sidewalk thickness through driveway to match thickness of driveway.
- 5 If longitudinal joint is located 48 inches or less from the back of curb, extend boxout to joint line. Full depth saw cut is still required.
- 6 For alleys, invert the pavement crown 2% toward the center of the alley.
- 7 Target cross slope of 1.5% with a maximum cross slope of 2.0%. If specified in the contract documents, construct the sidewalk through the driveway 5 feet wide to serve as a passing space.
- 8 If cross slope of adjacent sidewalk panel exceeds 2.0%, remove and replace to transition from existing sidewalk to sidewalk through driveway. If the elevation change requires a curb ramp, comply with Figure 7030.205; verify need for detectable warning panel with Engineer.
- 9 Transition street curb at minimum 1:1 slope to meet driveway curb.



SUDAS Standard Specifications

CONCRETE DRIVEWAY, TYPE B

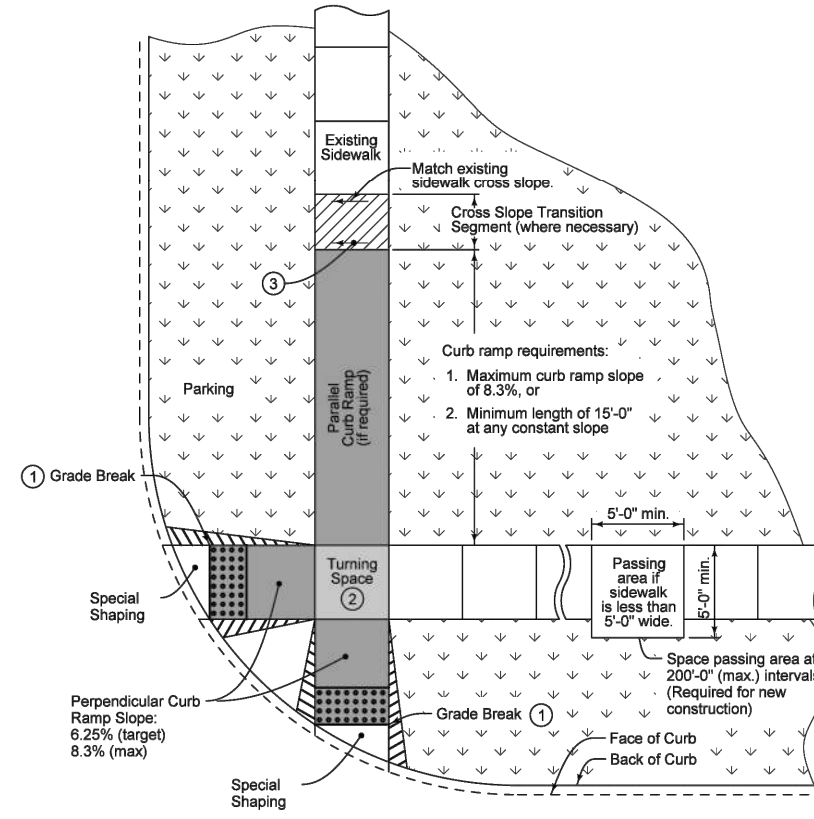
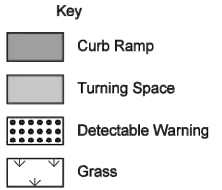


FIGURE 7030.204
SHEET 1 OF 1

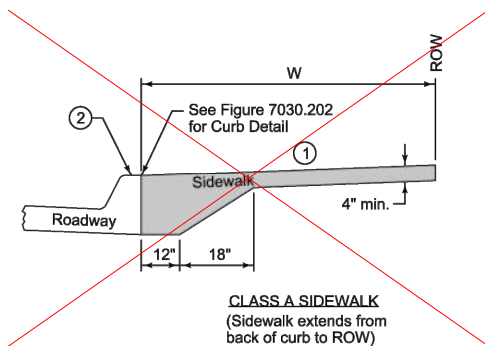


- 1 Match pedestrian street crossing slope, or flatter.
- 2 Minimum 4 feet by 4 feet. Target cross slope of 1.5% with a maximum cross slope of 2.0%.
- 3 Target cross slope of 1.5% with a maximum cross slope of 2.0%.

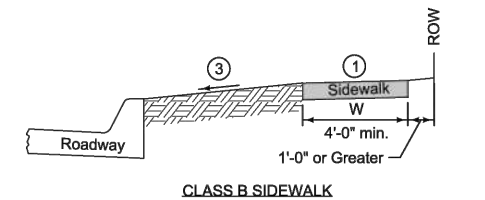


SUDAS Standard Specifications

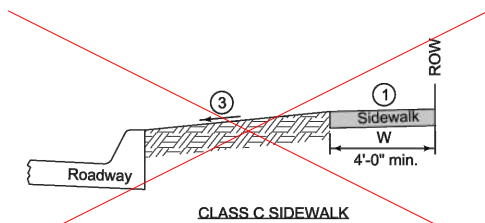
GENERAL FEATURES
OF AN ACCESSIBLE SIDEWALK



CLASS A SIDEWALK
(Sidewalk extends from
back of curb to ROW)



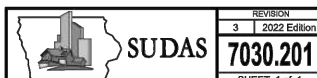
CLASS B SIDEWALK



CLASS C SIDEWALK

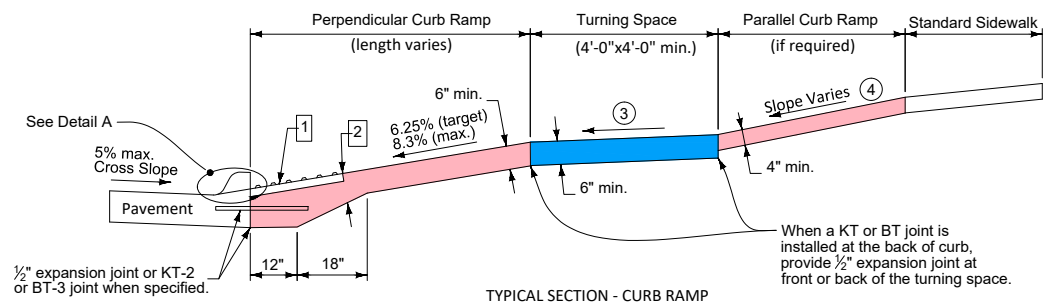
- 1 Target cross slope of 1.5% with a maximum cross slope of 2.0% (including sidewalk through driveway).
- 2 Ensure top of curb slopes to street for drainage.
- 3 Parking Slopes:
If parking width is less than 10 feet wide, slope at 1/4 inch per foot.
If parking width is 10 feet wide and greater, slope at 1/2 inch per foot.
Special grade may be specified in the contract documents.

W = Sidewalk width as specified in the contract documents.

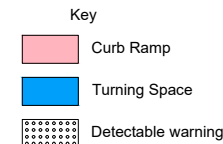


SUDAS Standard Specifications

CLASSES OF SIDEWALKS



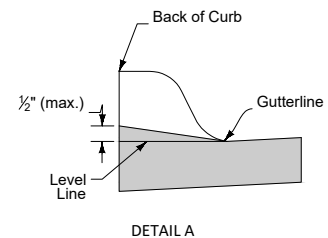
TYPICAL SECTION - CURB RAMP



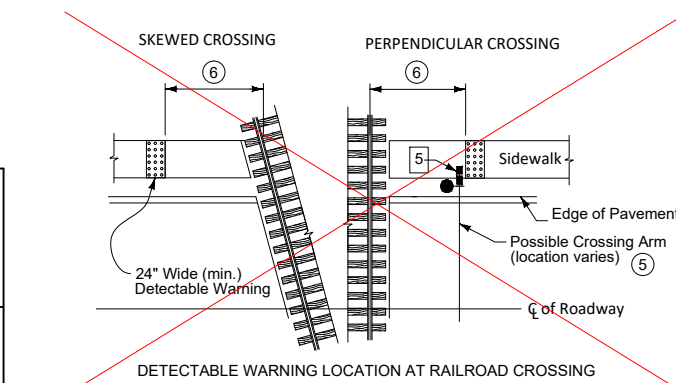
- 1 Provide a minimum 2 foot width of detectable warning surfaces in the direction of pedestrian travel across the full width of the curb ramp or turning space, exclusive of curbs or flares.
- 2 Provide a minimum of 6 inches of concrete below the detectable warning panel.
- 3 Minimum 4 feet by 4 feet. Target cross slope of 1.5% with a maximum cross slope of 2.0%.
- 4 If normal sidewalk elevation cannot be achieved with the perpendicular ramp between the street and landing due to limited ramp length, provide a parallel ramp to make up the elevation difference between the landing and the standard sidewalk.

The length of the parallel ramp is not required to exceed 15 feet, regardless of the resulting slope. Do not exceed 8.3% slope for parallel ramps shorter than 15 feet.

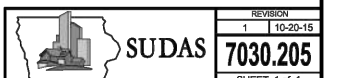
- 5 If crossing gate conflicts with location of detectable warning or if pedestrian crossing gate is provided, place detectable warning panel in advance of the crossing gate.
- 6 Locate front edge of detectable warning panel 12 to 15 feet from centerline of nearest rail. Orient truncated domes parallel to the direction of pedestrian travel.



DETAIL A



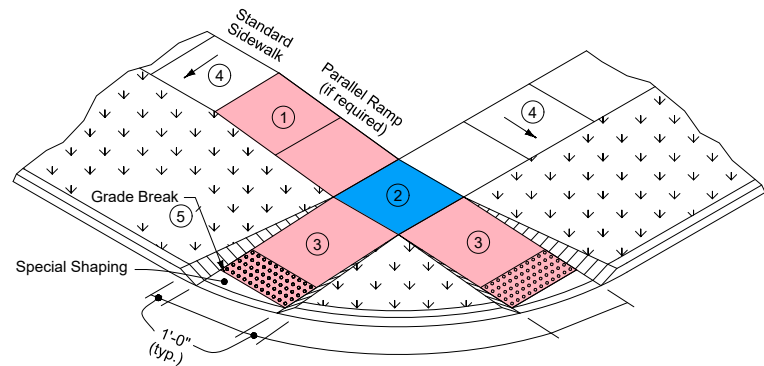
DETECTABLE WARNING LOCATION AT RAILROAD CROSSING



SUDAS Standard Specifications

GENERAL SIDEWALK AND
CURB RAMP DETAILS

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① Parallel Curb Ramp: If normal sidewalk elevation cannot be achieved with the perpendicular ramp between the street and landing due to limited ramp length, provide a parallel ramp to make up the elevation difference between the landing and the standard sidewalk.

The length of the parallel ramp is not required to exceed 15 feet, regardless of the resulting slope. Do not exceed 8.3% slope for parallel ramps shorter than 15 feet.

② Turning Space: Target slope of 1.5% with maximum slope perpendicular to the travel directions of 2.0%. Minimum 4 feet by 4 feet.

③ Perpendicular Curb Ramp: Target running slope of 6.25% with maximum running slope of 8.3%.

④ Target cross slope of 1.5% with a maximum cross slope of 2.0%.

⑤ Match pedestrian street crossing cross slope or flatter.

- Key
- Curb Ramp
 - Turning Space
 - Detectable warning
 - Grass



REVISION

New 10-18-12

7030.207

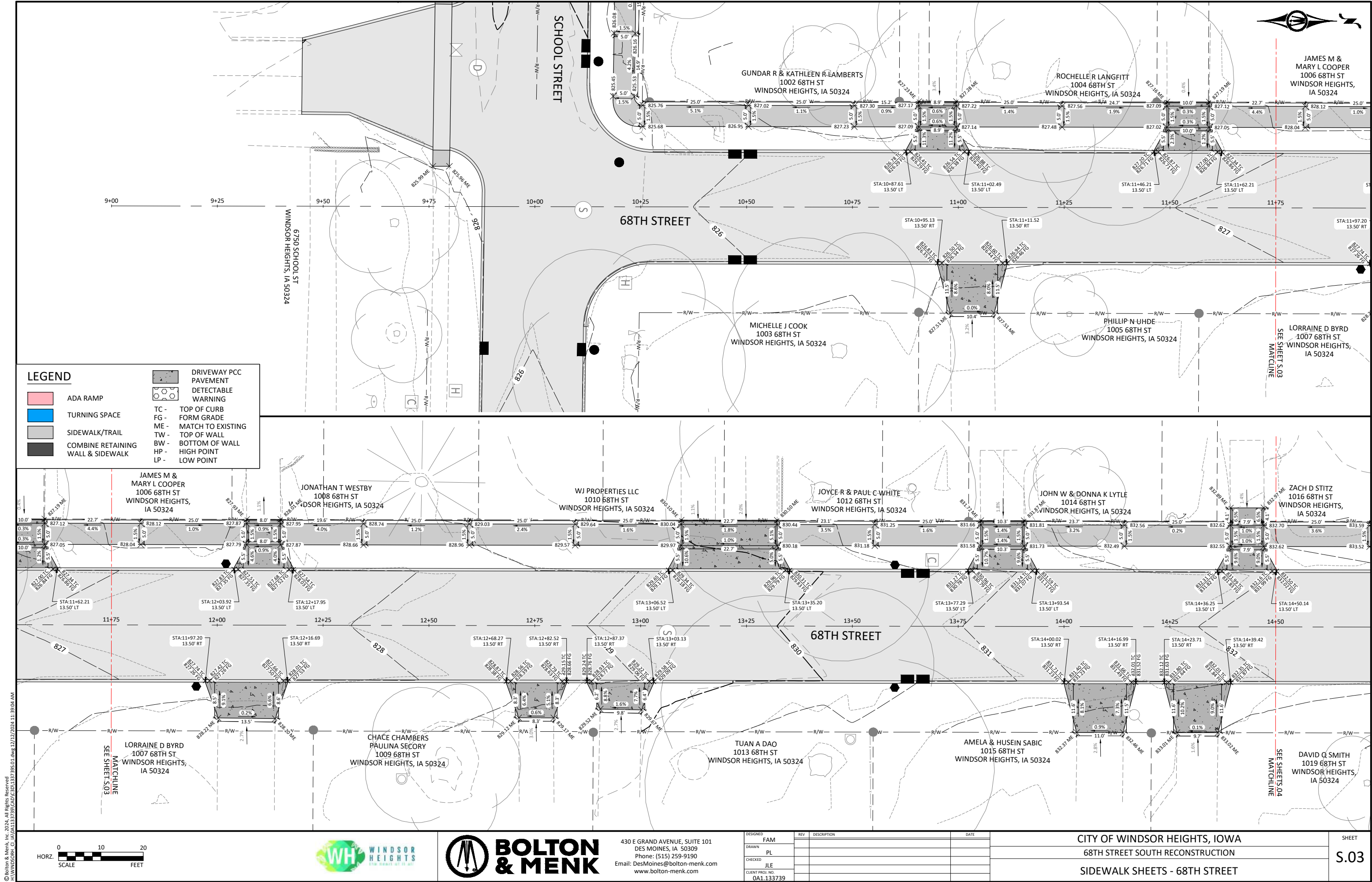
SHEET 1 of 1

SUDAS Standard Specifications

CURB RAMP FOR
CLASS B OR C SIDEWALK

FIGURE 7030.207 SHEET 1 OF 1

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LEGEND

ADA RAMP

TURNING SPACE

SIDEWALK/TRAIL

COMBINE RETAINING WALL & SIDEWALK

DRIVEWAY PCC PAVEMENT

DETECTABLE WARNING

TC - TOP OF CURB

FG - FORM GRADE

ME - MATCH TO EXISTING

TW - TOP OF WALL

BW - BOTTOM OF WALL

HP - HIGH POINT

LP - LOW POINT

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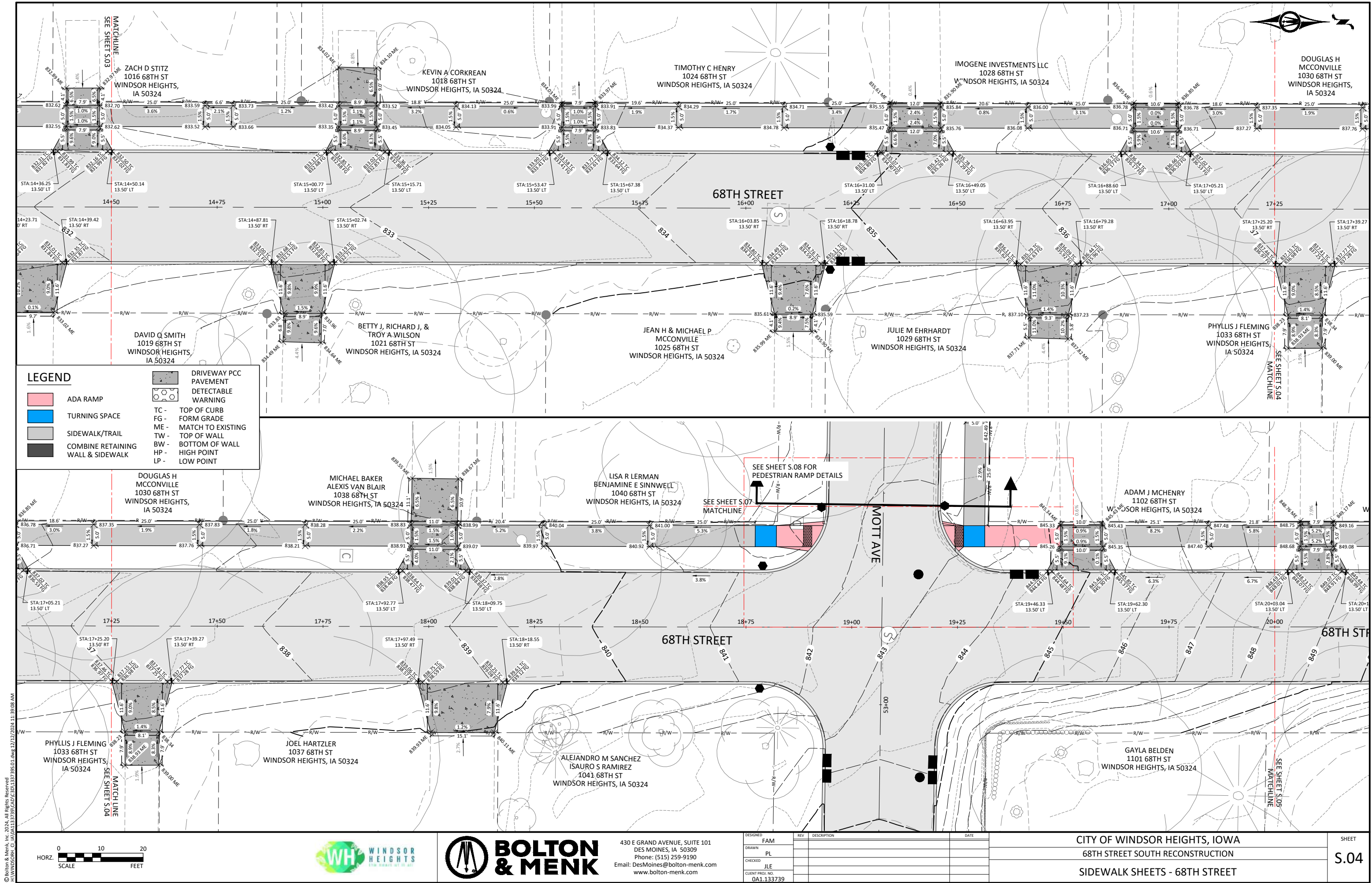
68TH STREET SOUTH RECONSTRUCTION

SIDEWALK SHEETS - 68TH STREET

SHEET

S.03

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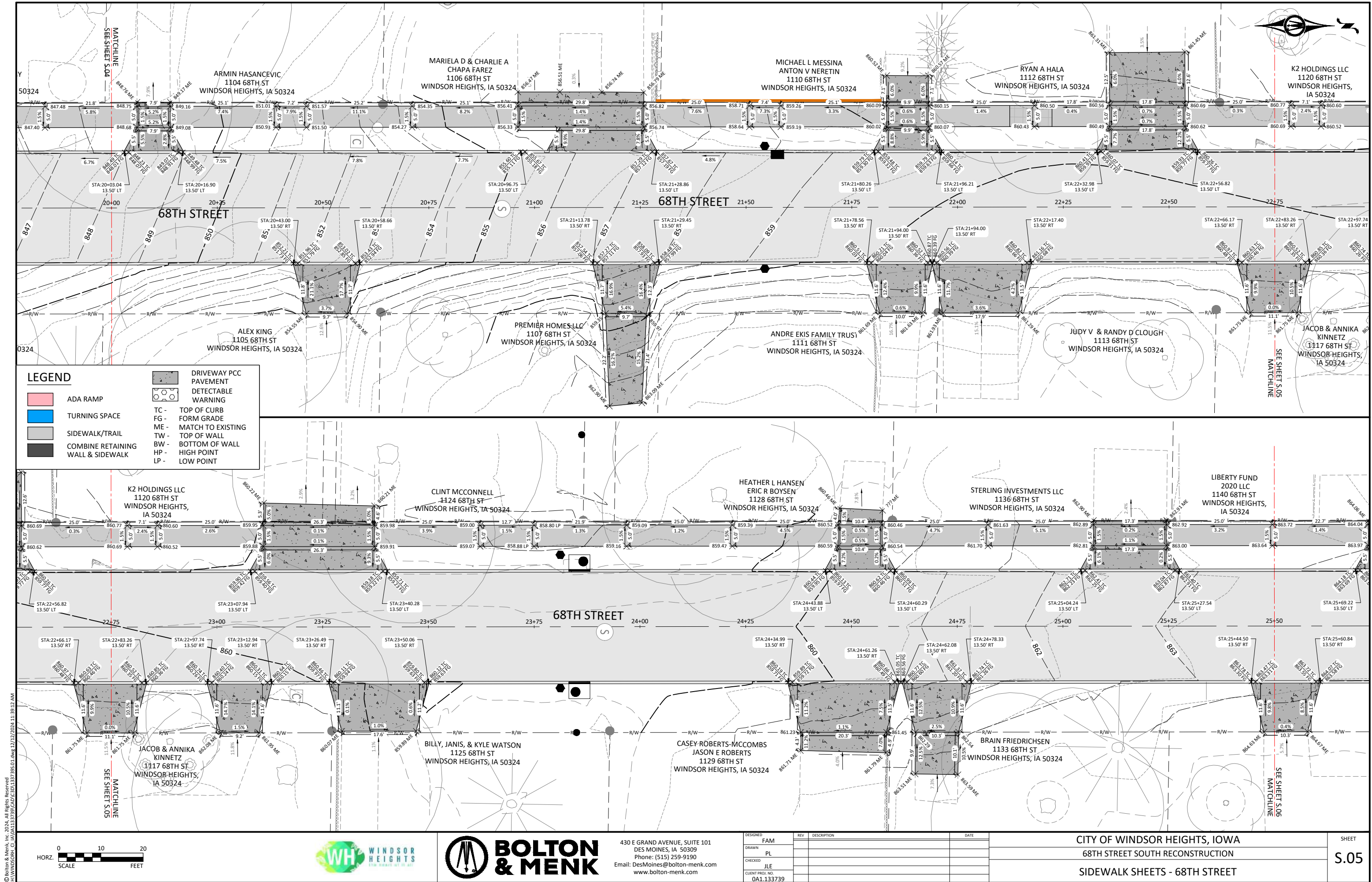


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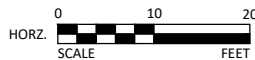
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION
SIDEWALK SHEETS - 68TH STREET

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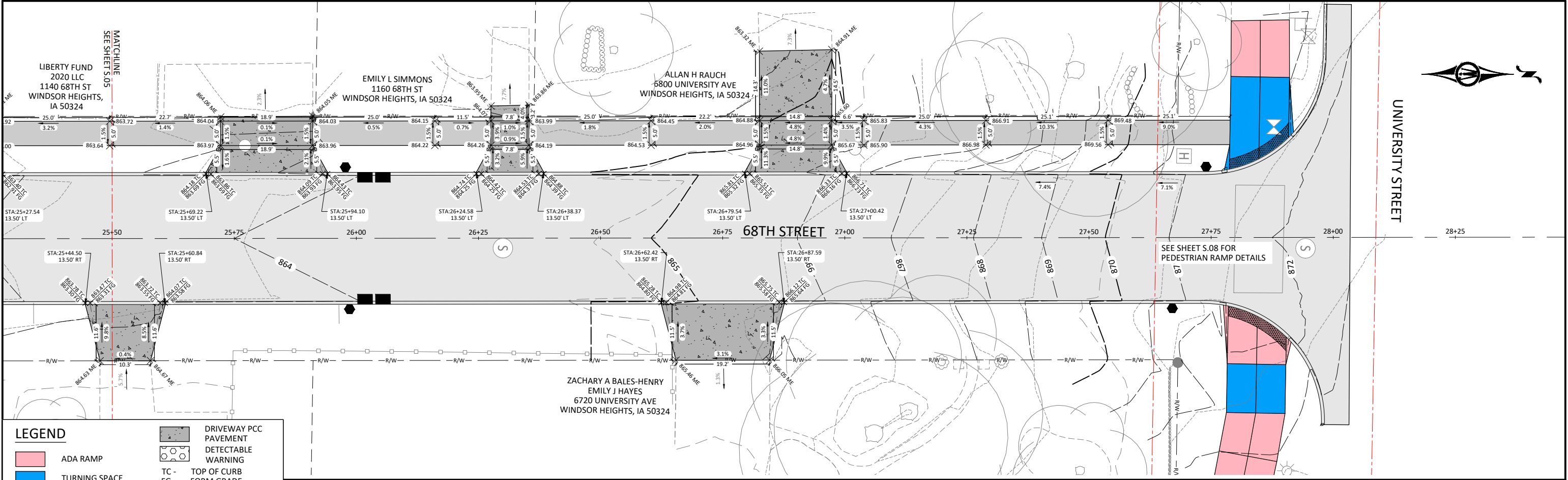


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68TH STREET SOUTH RECONSTRUCTION
SIDEWALK SHEETS - 68TH STREET

SHEET
S.05



LEGEND

ADA RAMP

TURNING SPACE

SIDEWALK/TRAIL

COMBINE RETAINING WALL & SIDEWALK

DRIVEWAY PCC PAVEMENT

DETECTABLE WARNING

TC -

TOP OF CURB

FG -

FORM GRADE

ME -

MATCH TO EXISTING

TW -

TOP OF WALL

BW -

BOTTOM OF WALL

HP -

HIGH POINT

LP -

LOW POINT

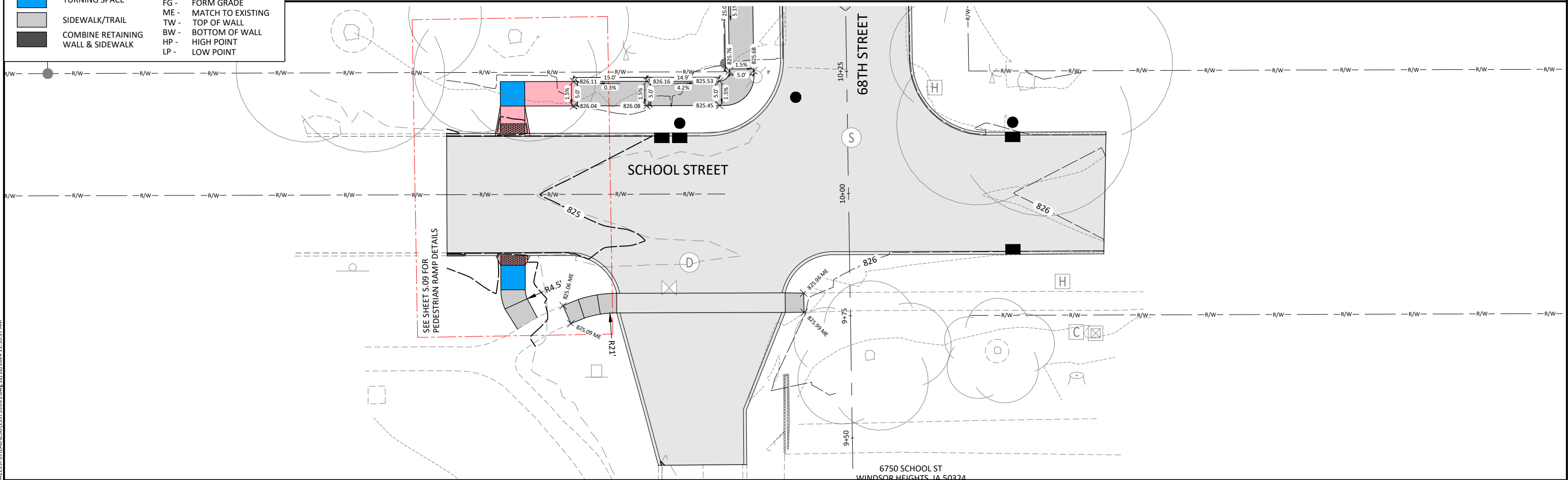
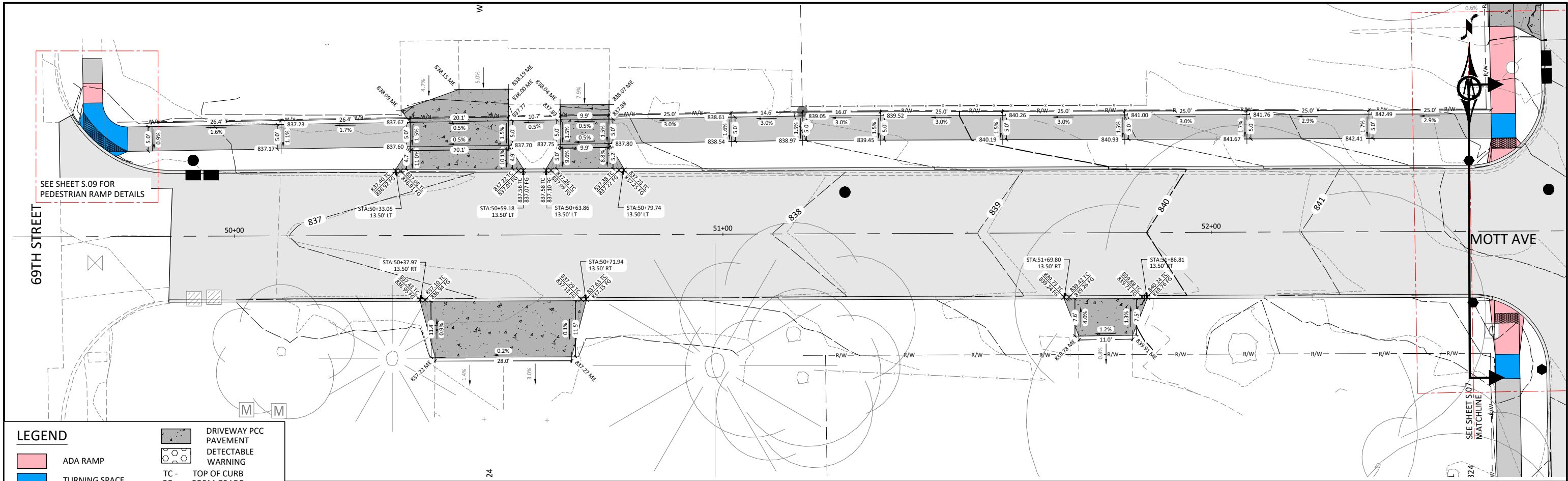
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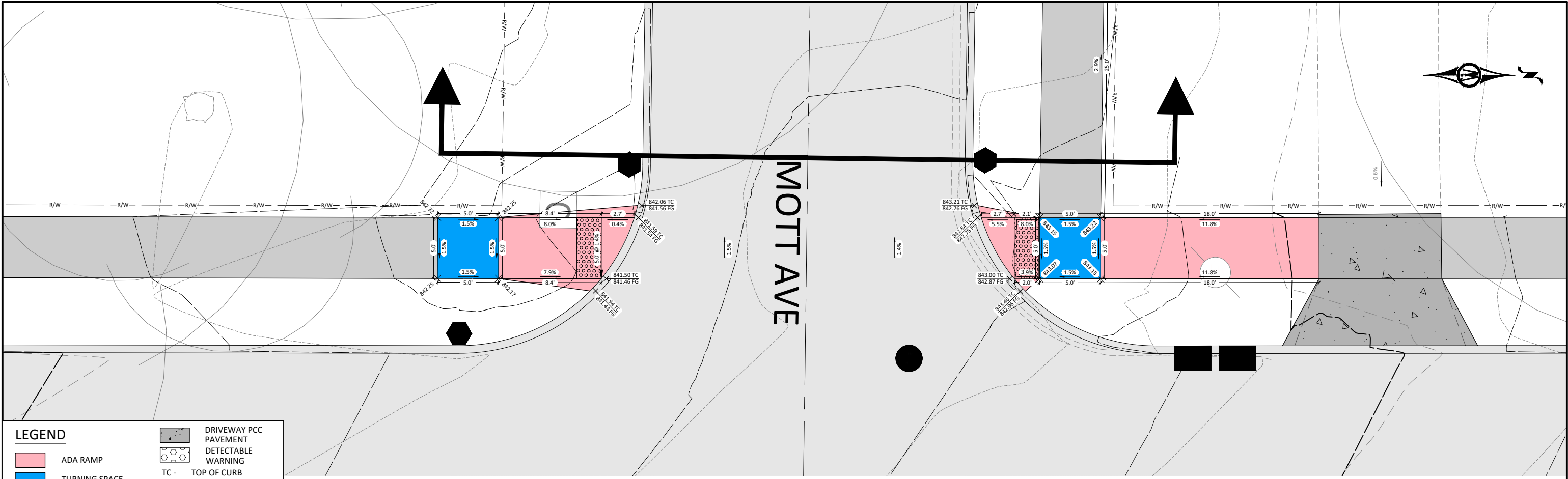
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CITY OF WINDSOR HEIGHTS, IOWA	SHEET S.06
68TH STREET SOUTH RECONSTRUCTION	
SIDEWALK SHEETS - 68TH STREET	



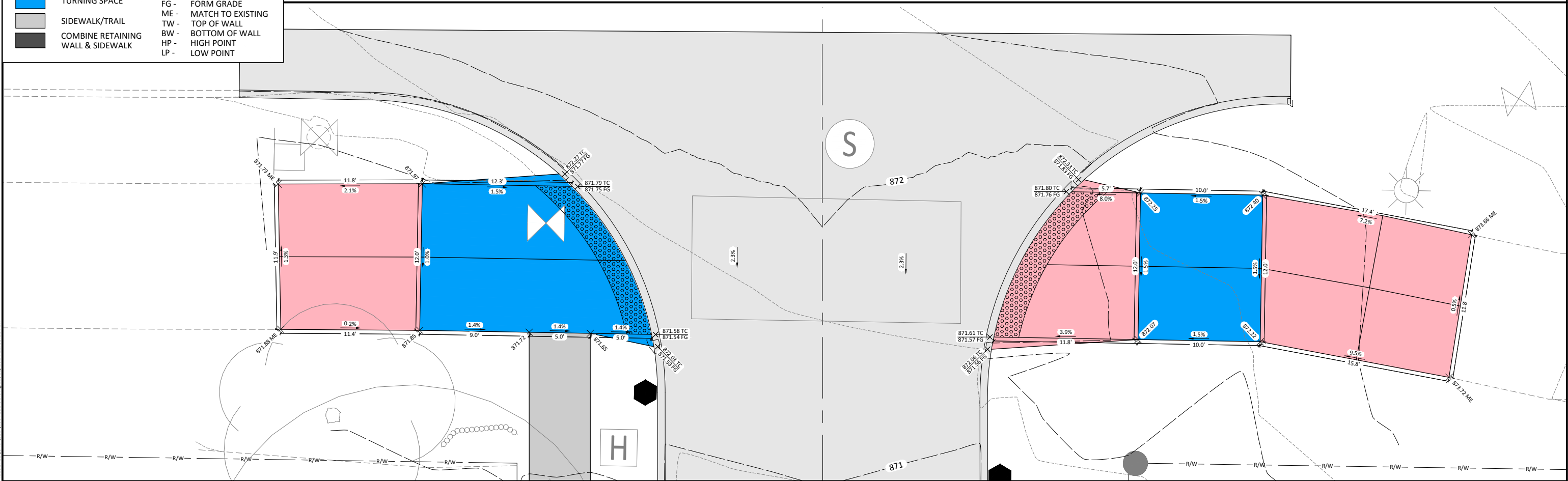
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	ADA RAMP		DRIVEWAY PCC PAVEMENT
	TURNING SPACE		DETECTABLE WARNING
	SIDEWALK/TRAIL	TC -	TOP OF CURB
	COMBINE RETAINING WALL & SIDEWALK	FG -	FORM GRADE
		ME -	MATCH TO EXISTING
		TW -	TOP OF WALL
		BW -	BOTTOM OF WALL
		HP -	HIGH POINT
		LP -	LOW POINT



LEGEND

	ADA RAMP		DRIVEWAY PCC PAVEMENT
	TURNING SPACE		DETECTABLE WARNING
	SIDEWALK/TRAIL	TC -	TOP OF CURB
	COMBINE RETAINING WALL & SIDEWALK	FG -	FORM GRADE
		ME -	MATCH TO EXISTING
		TW -	TOP OF WALL
		BW -	BOTTOM OF WALL
		HP -	HIGH POINT
		LP -	LOW POINT



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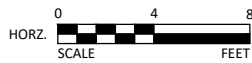
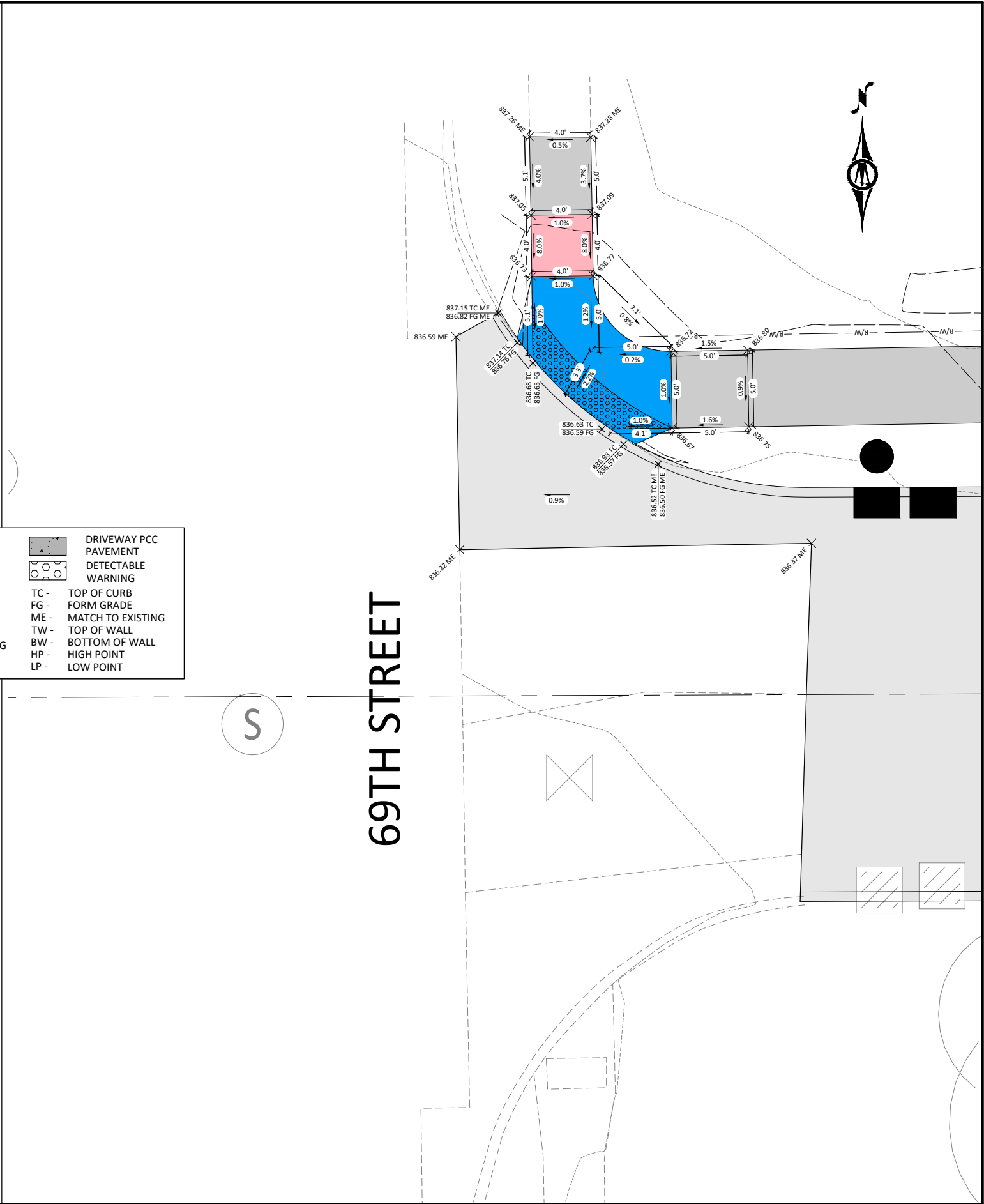
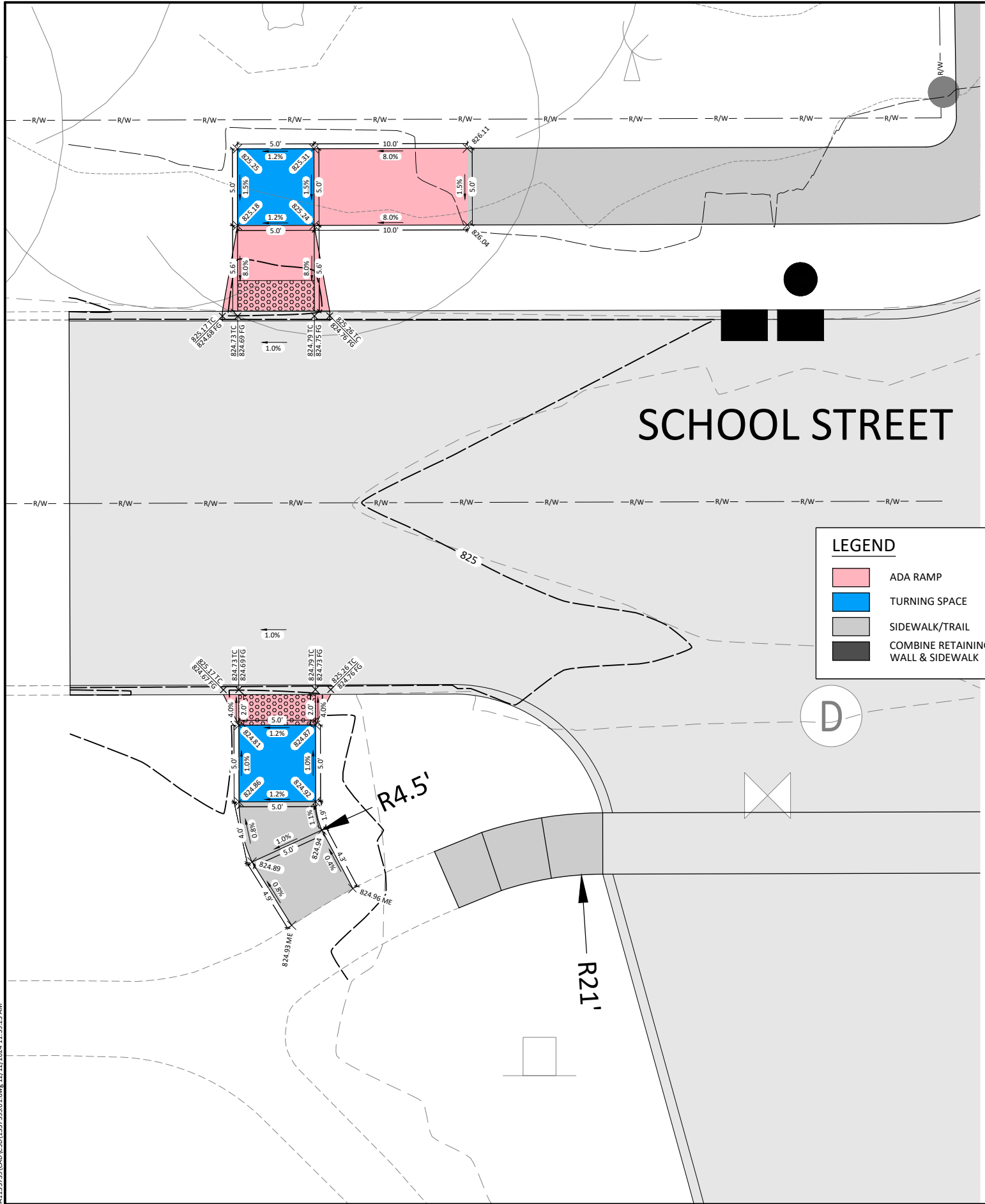
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68TH STREET SOUTH RECONSTRUCTION
ADA COMPLIANCE

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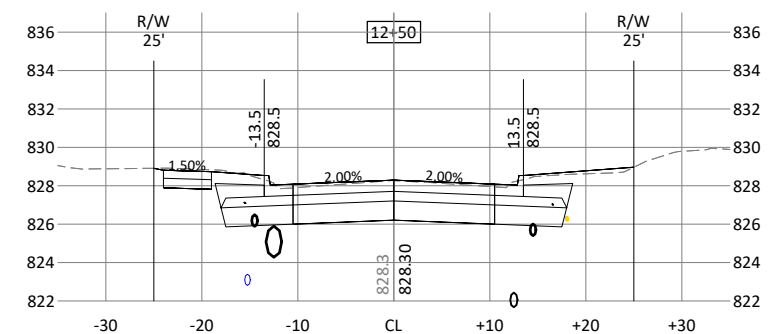
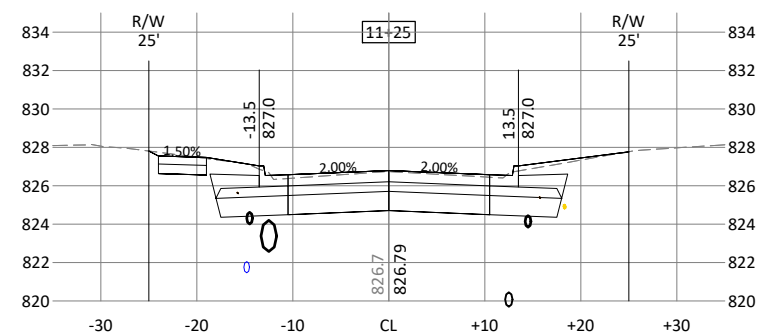
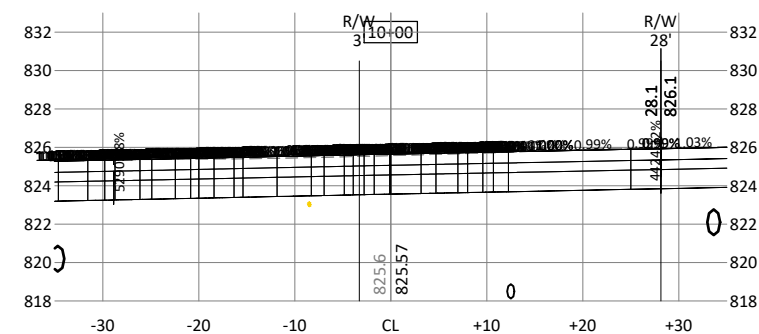
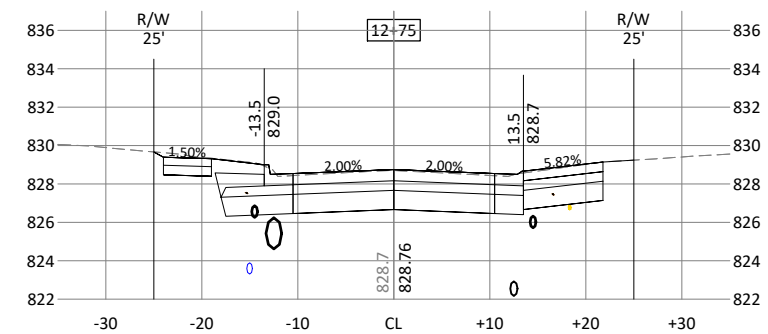
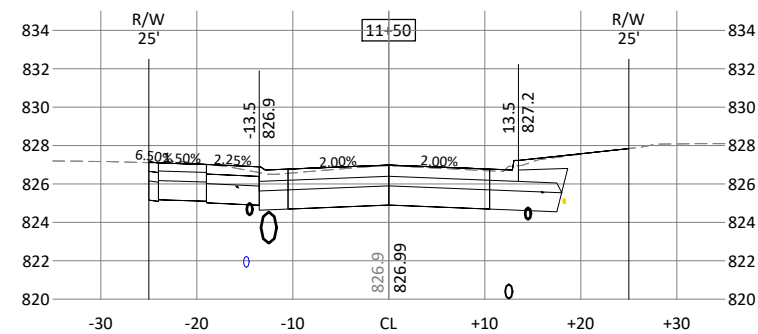
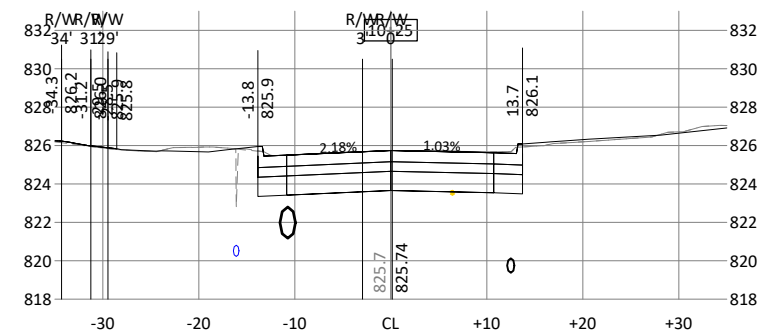
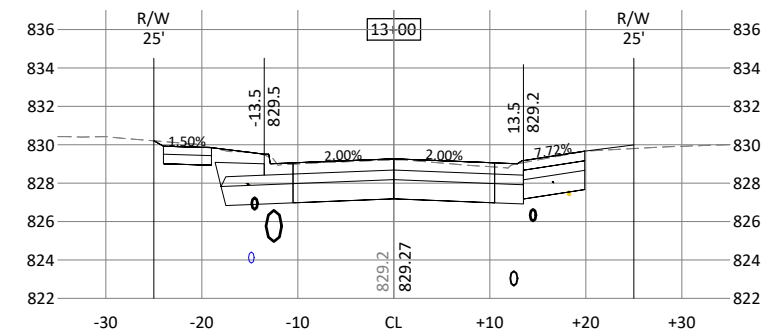
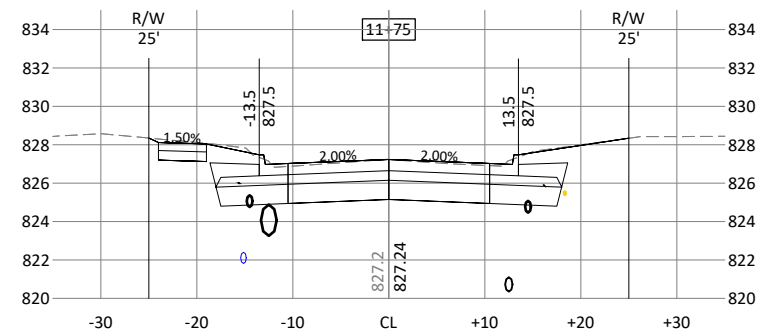
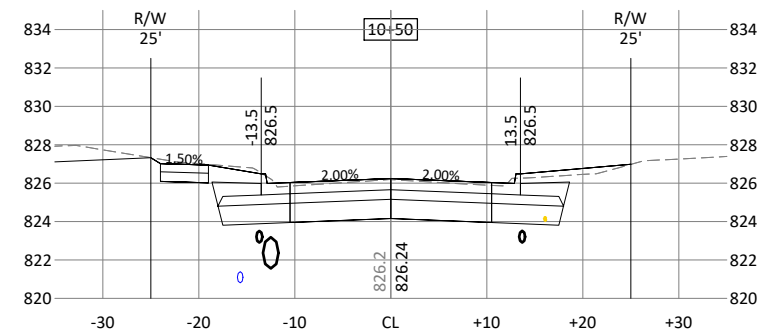
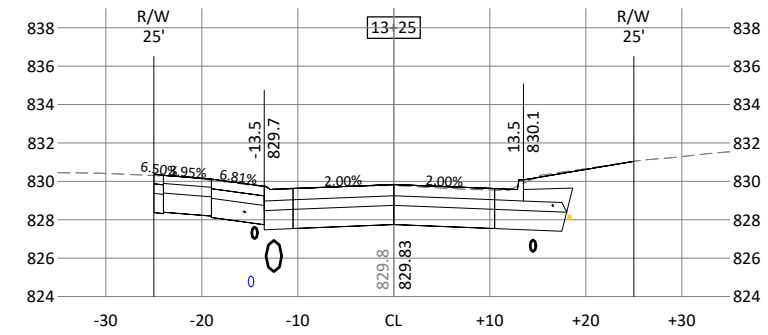
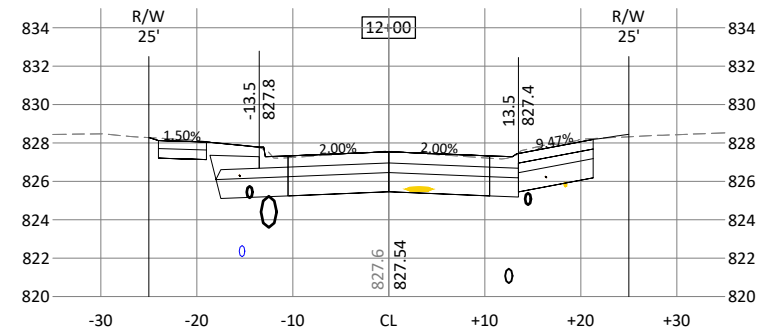
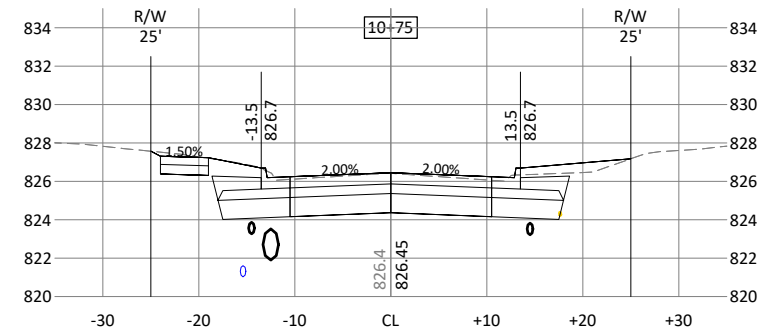
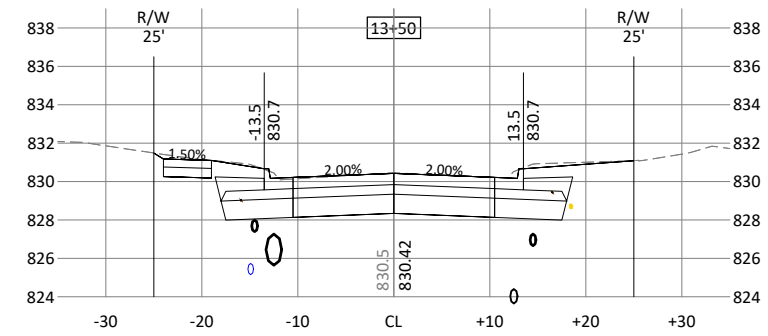
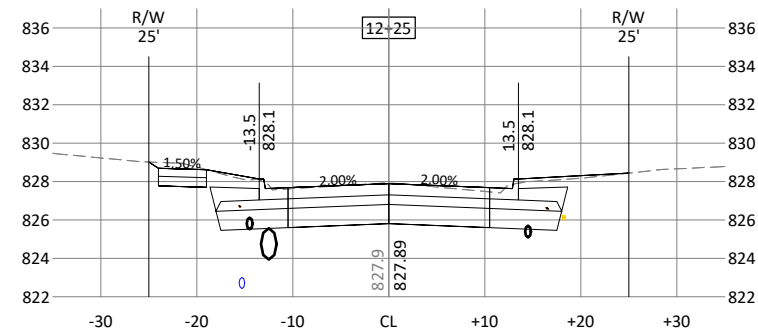
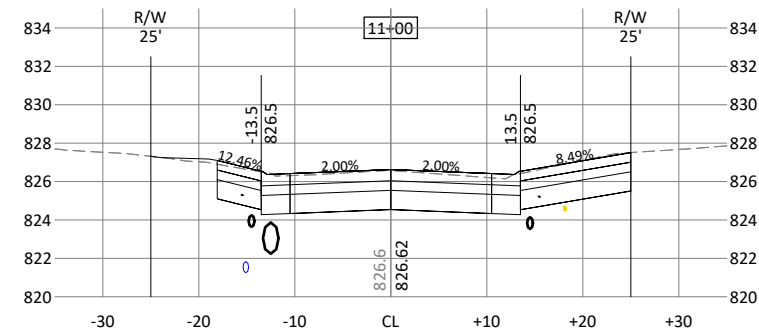
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68TH STREET SOUTH RECONSTRUCTION

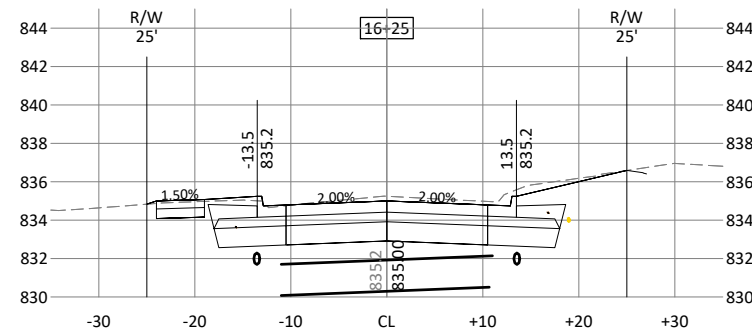
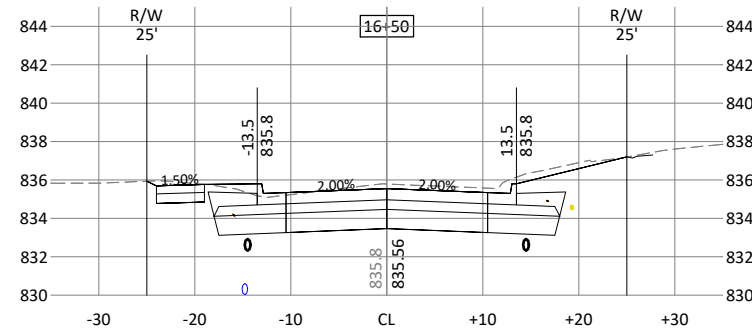
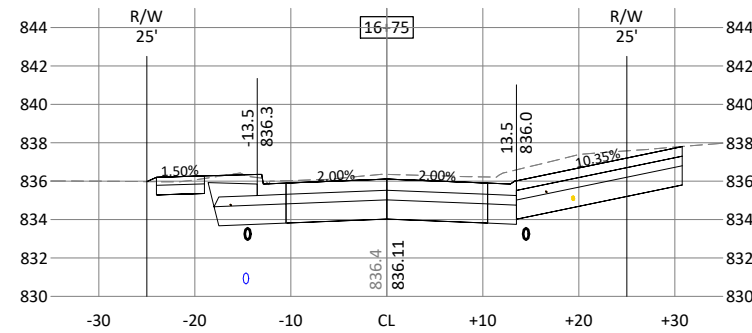
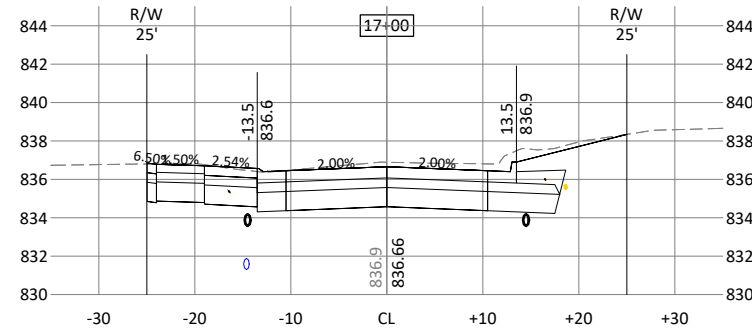
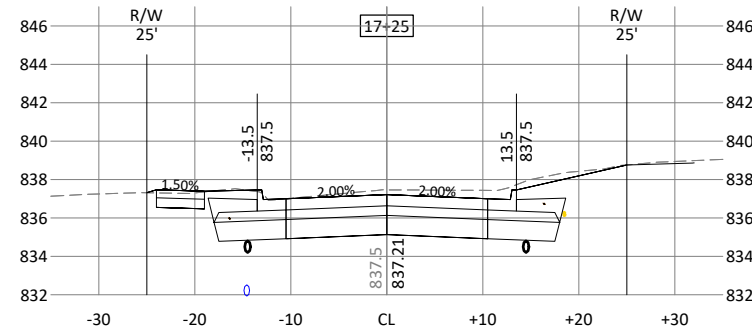
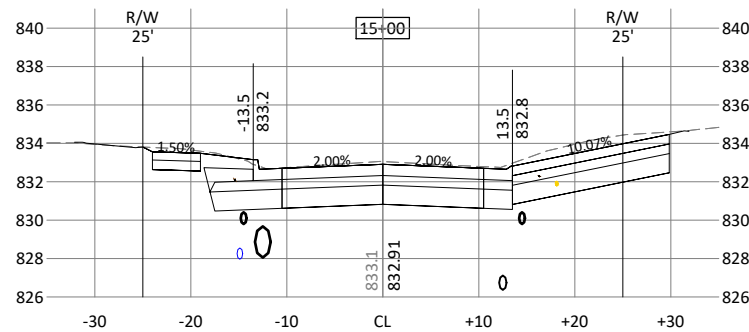
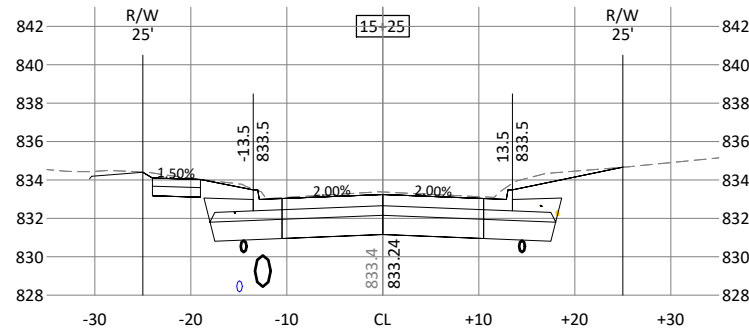
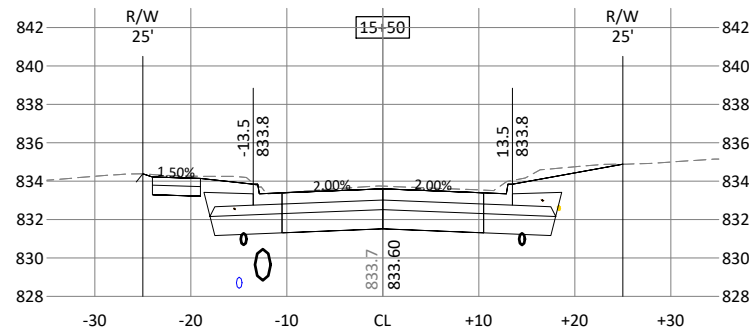
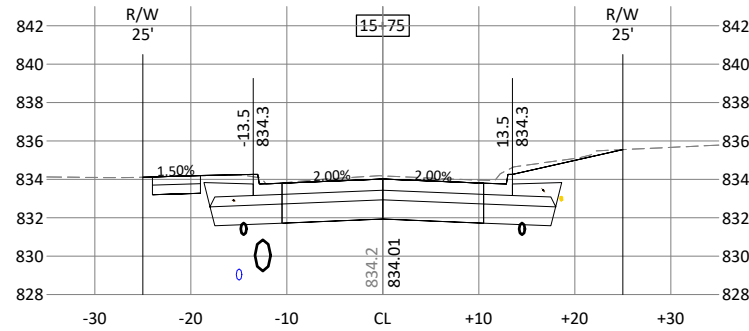
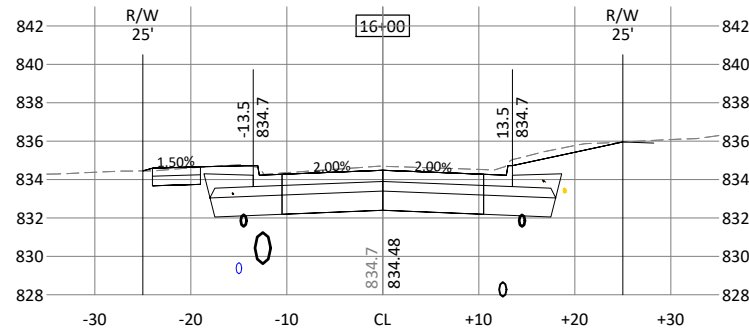
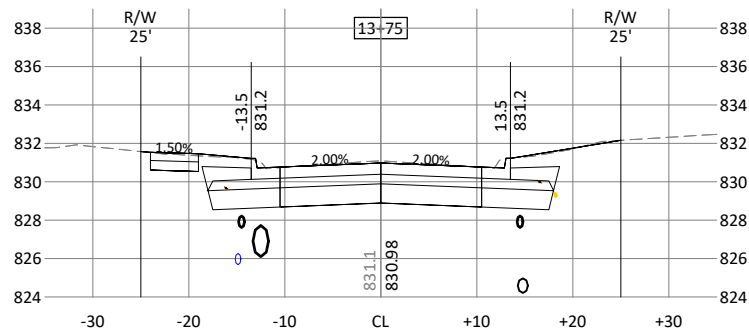
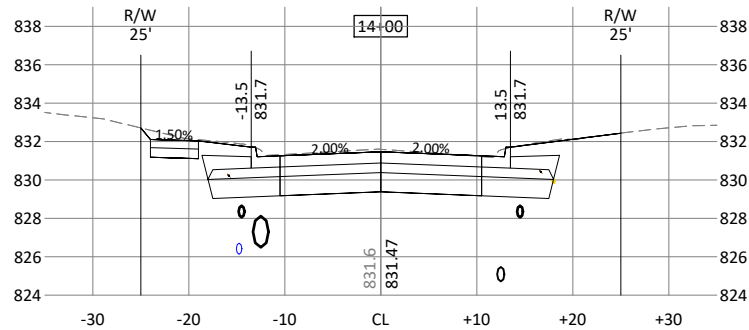
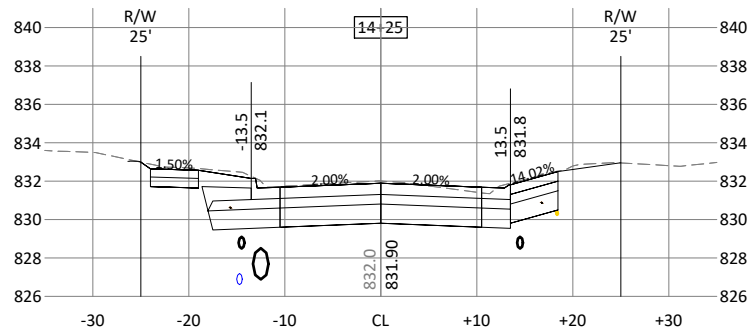
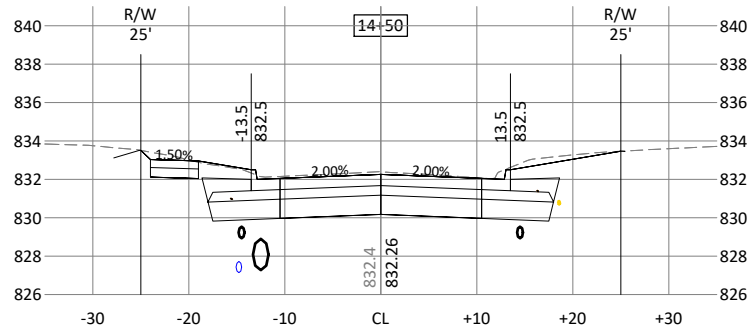
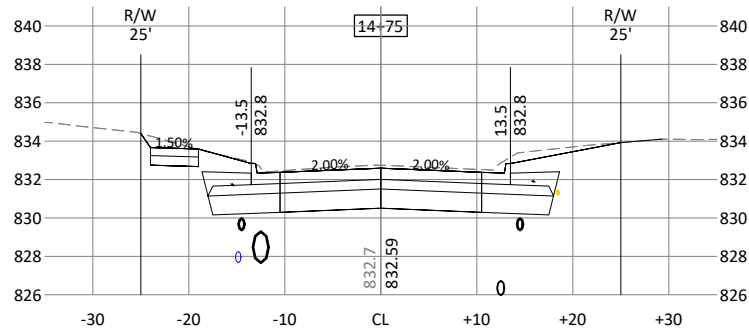
ADA COMPLIANCE

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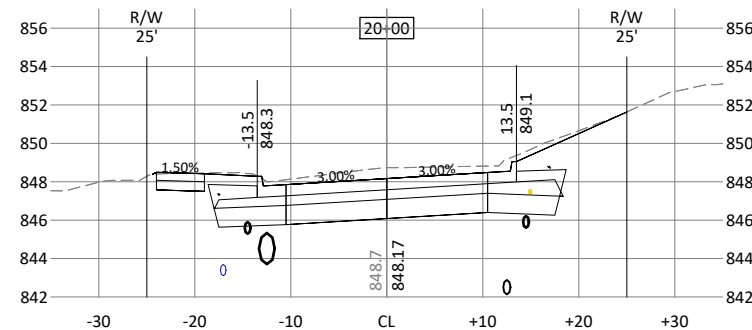
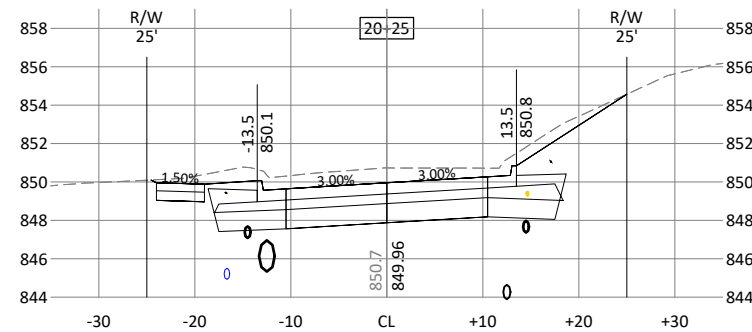
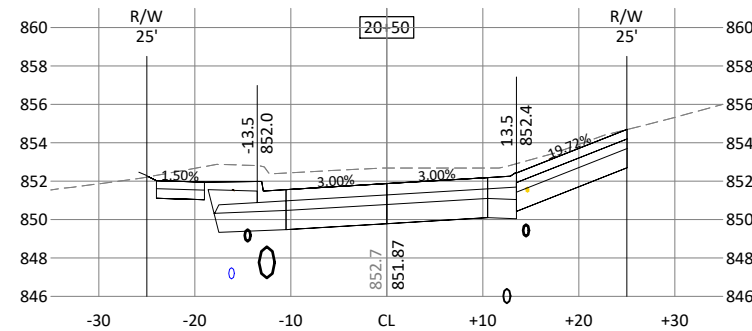
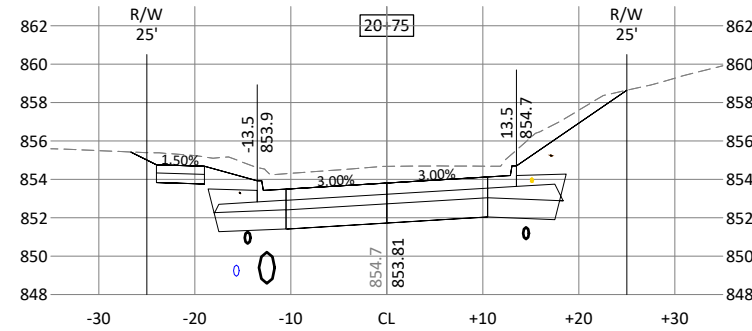
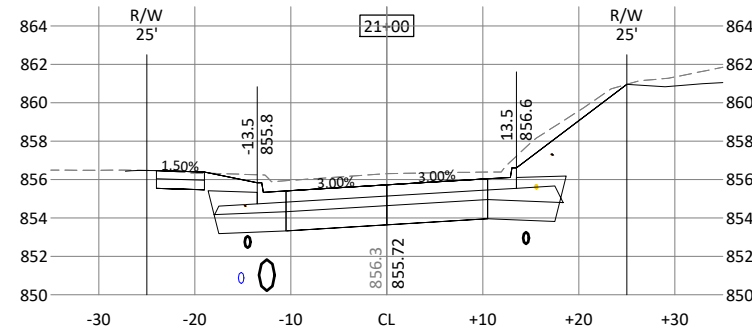
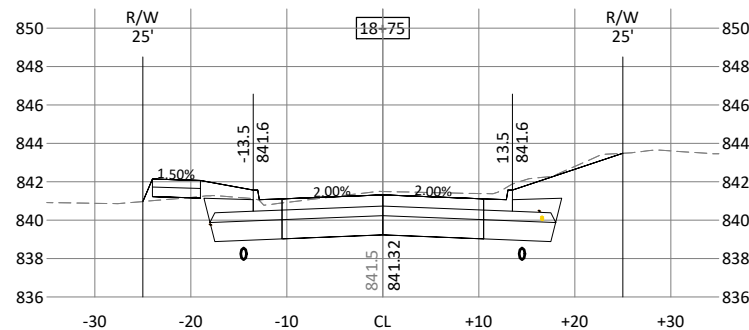
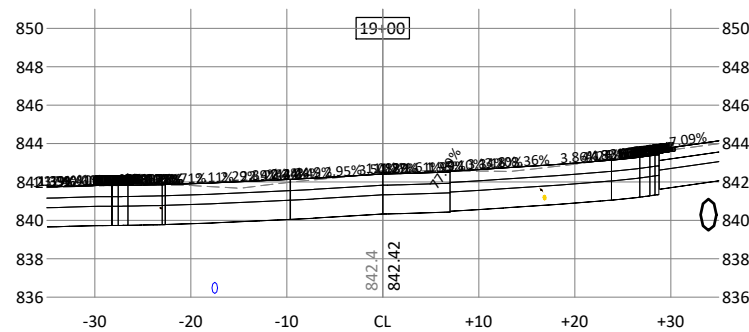
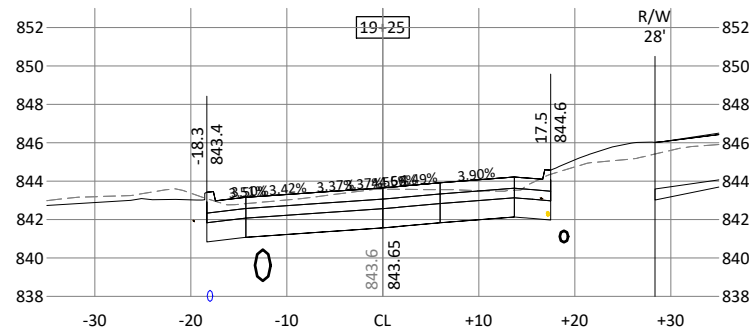
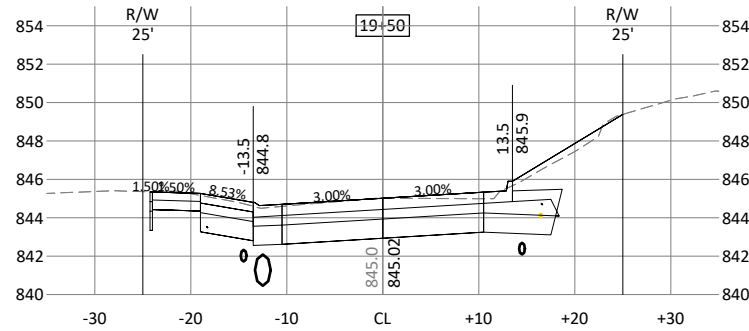
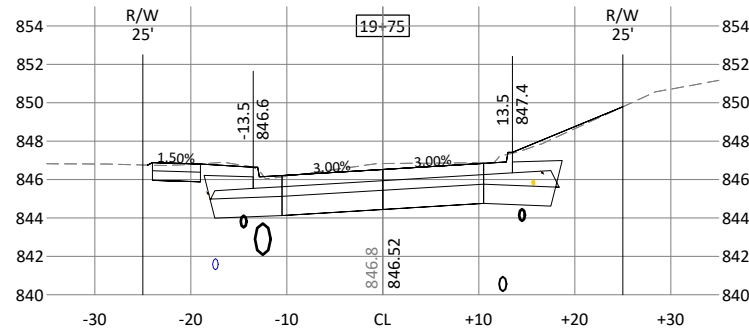
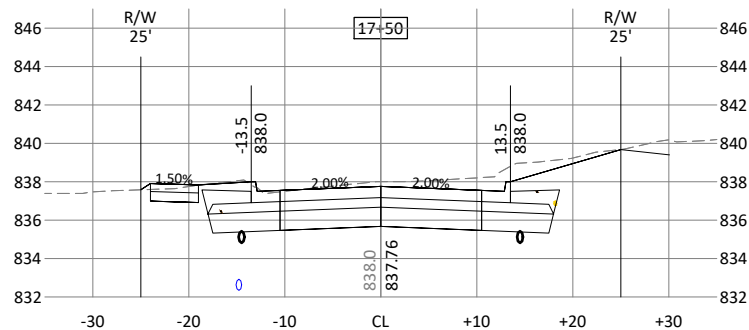
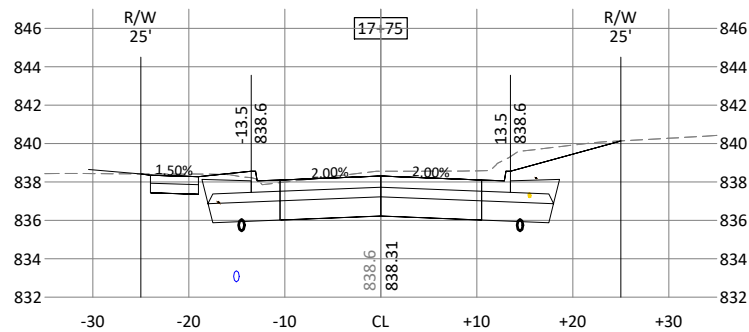
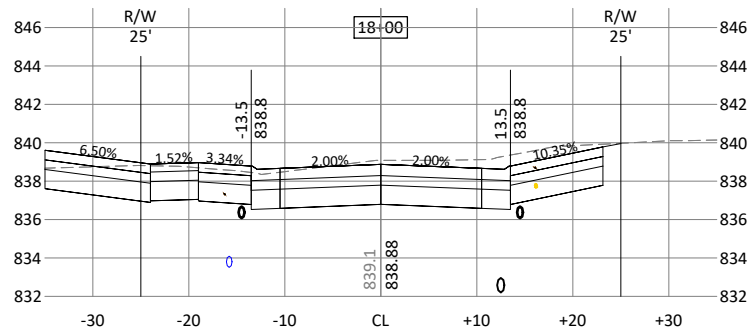
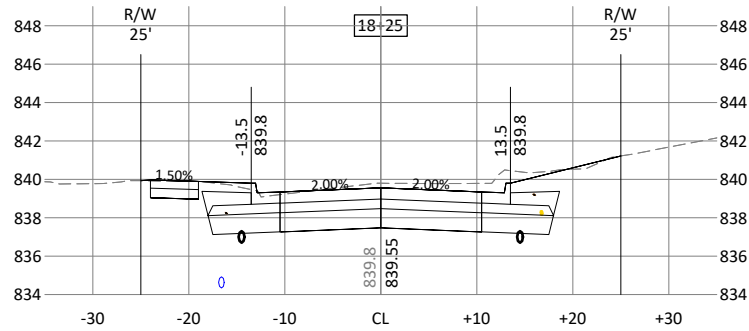
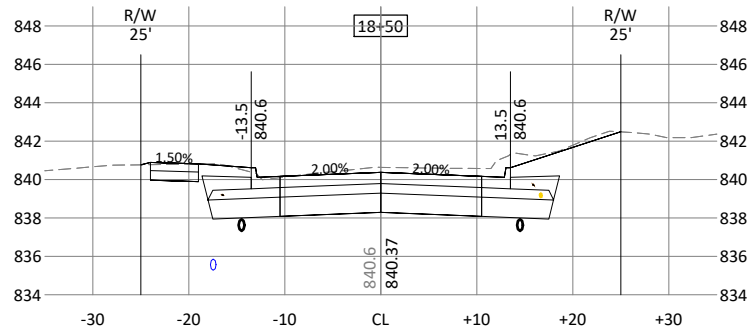
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CROSS SECTIONS

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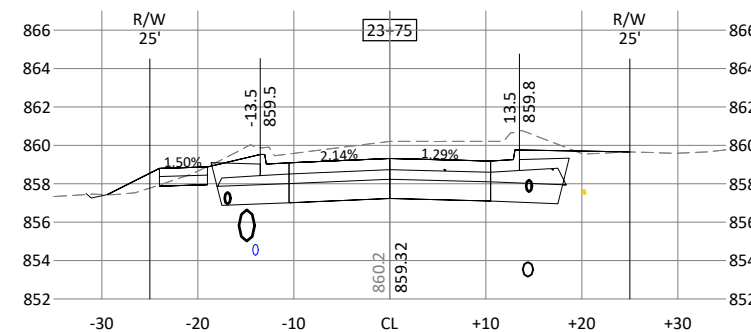
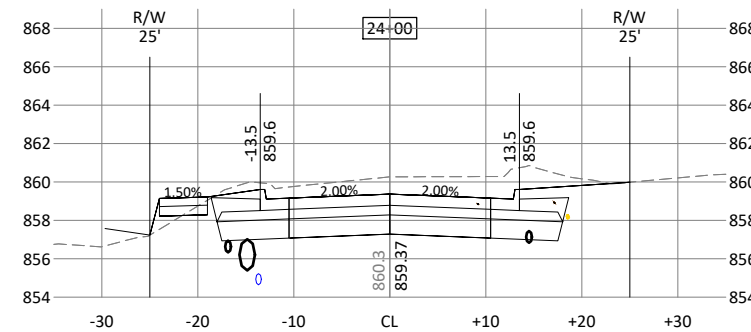
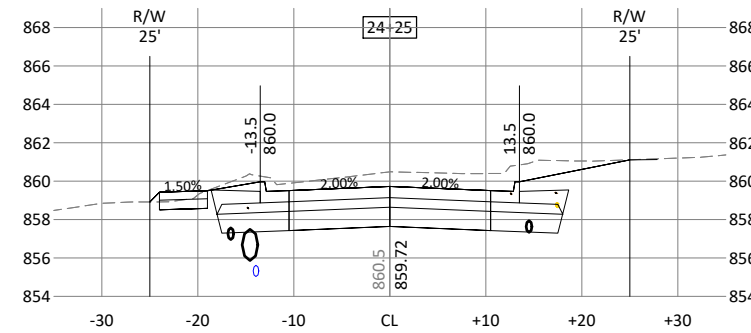
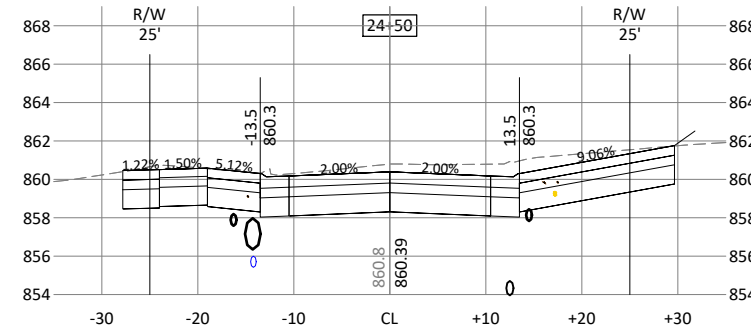
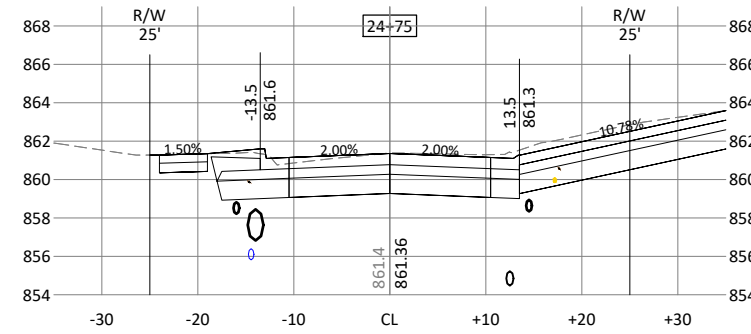
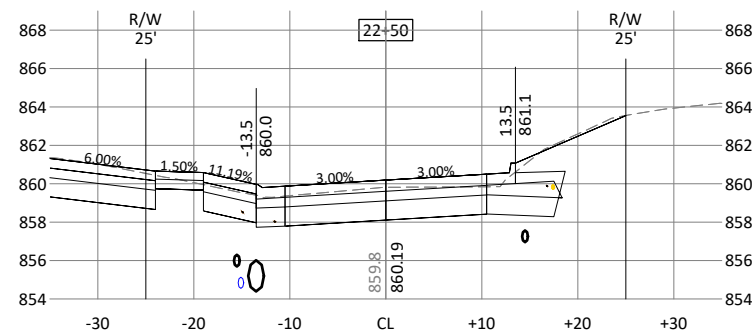
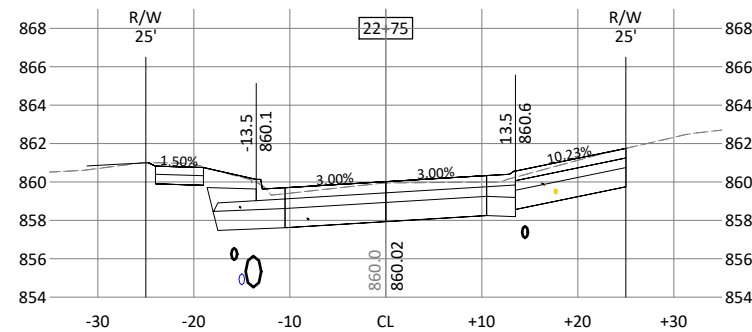
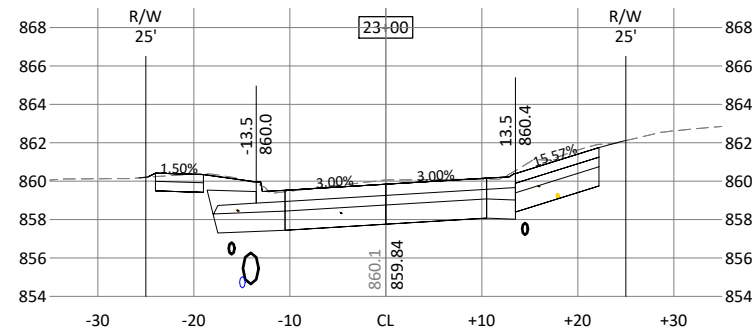
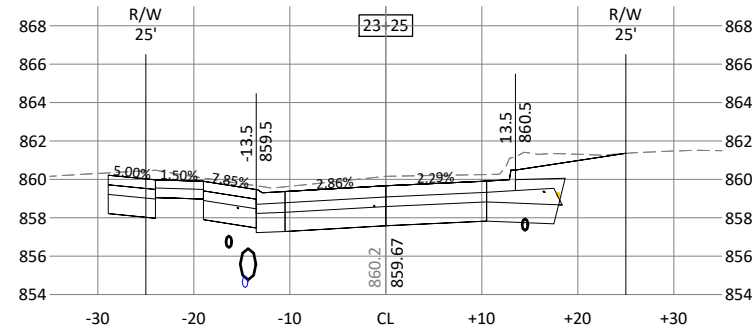
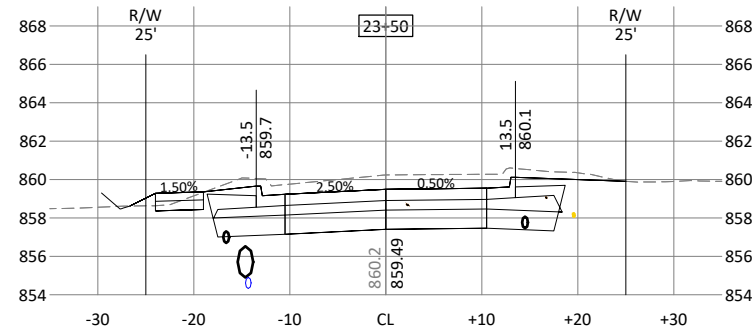
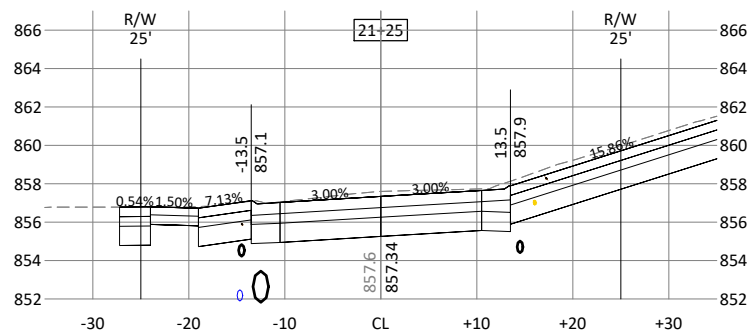
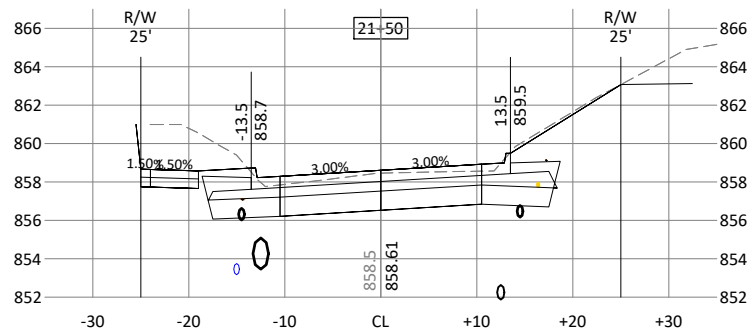
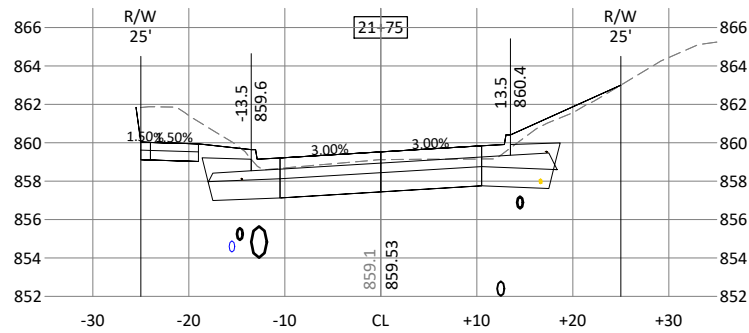
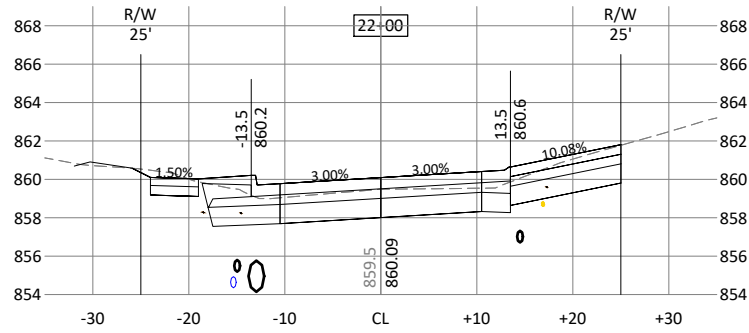
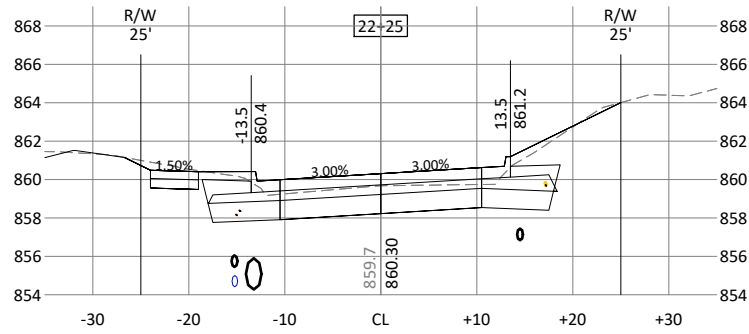
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68TH STREET SOUTH RECONSTRUCTION

CROSS SECTIONS

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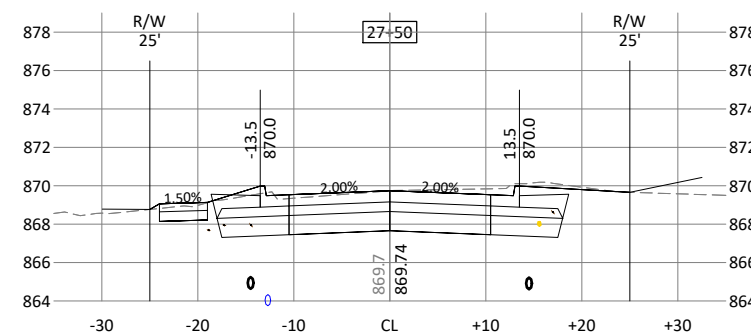
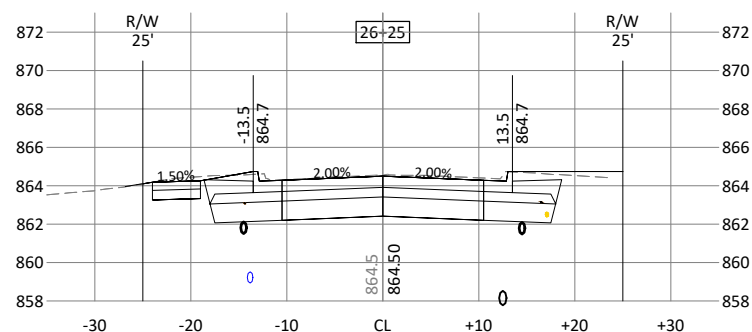
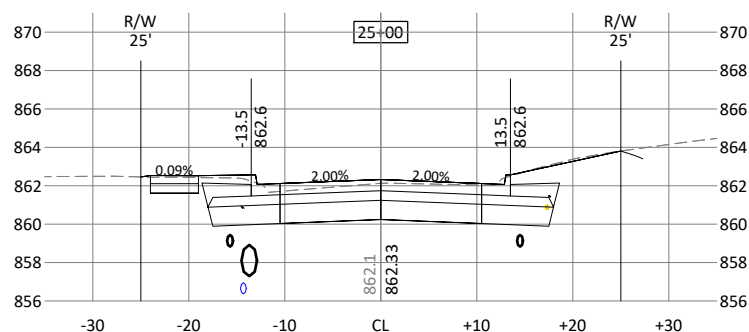
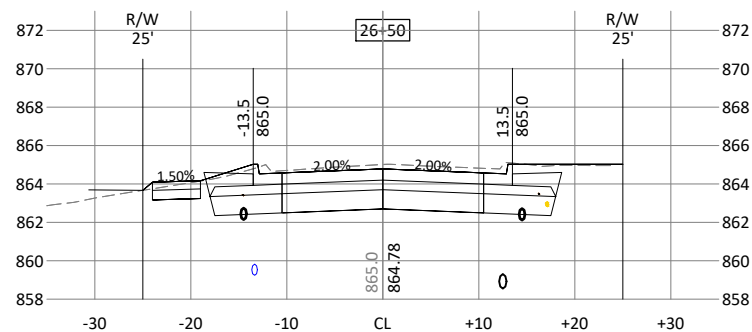
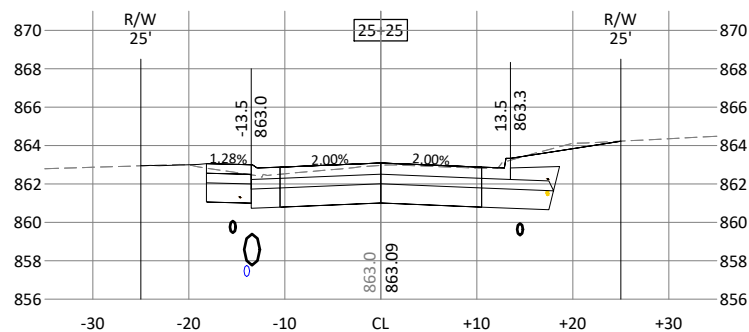
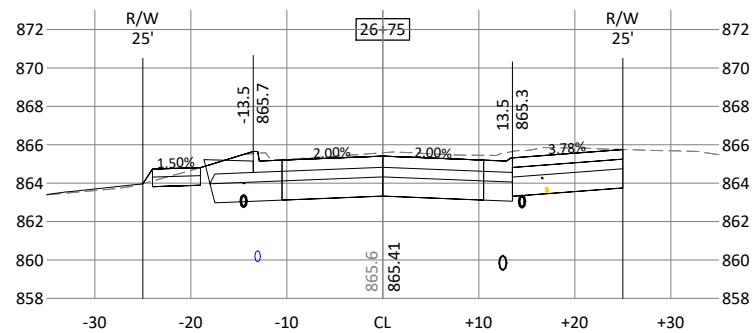
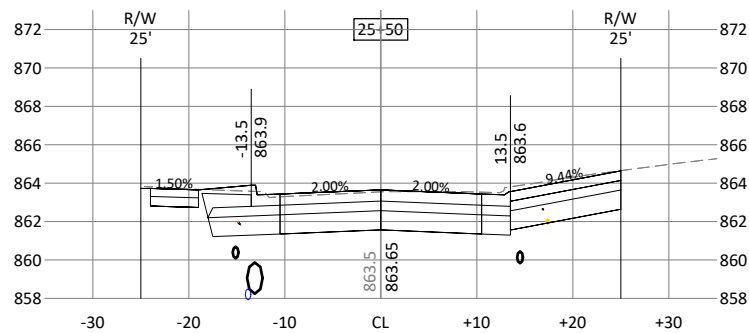
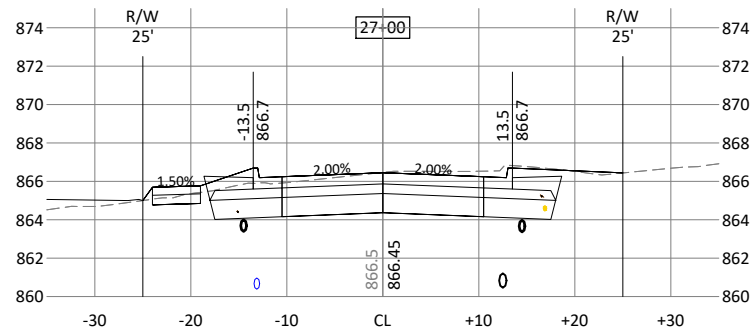
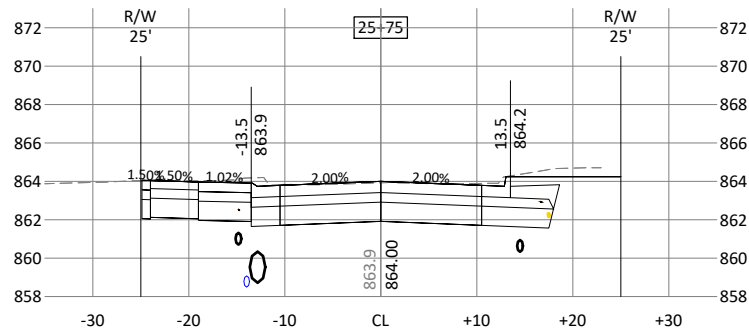
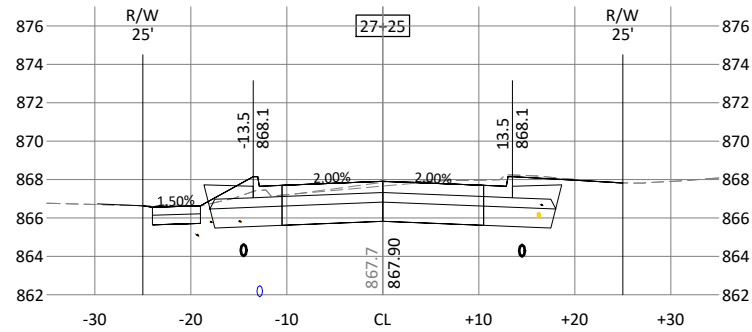
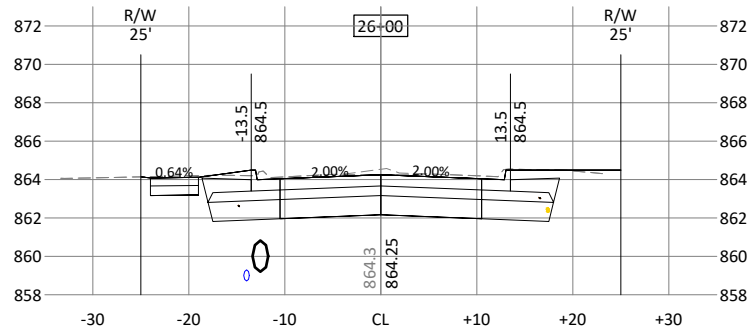
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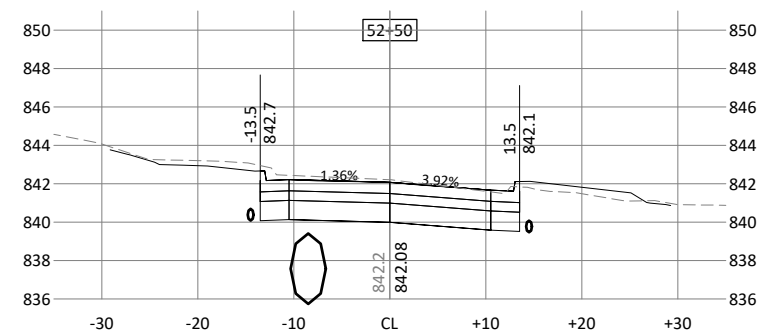
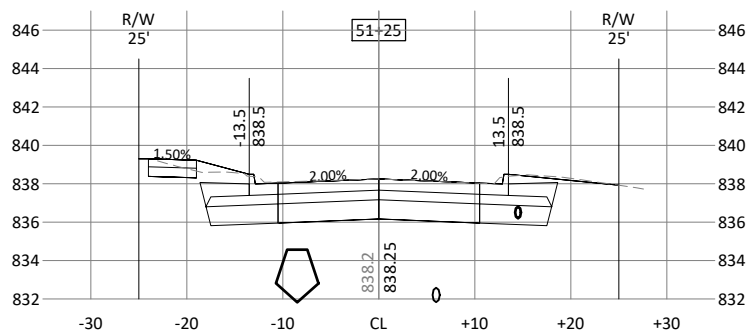
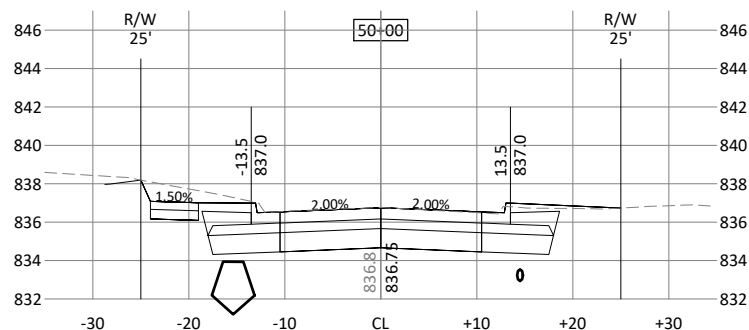
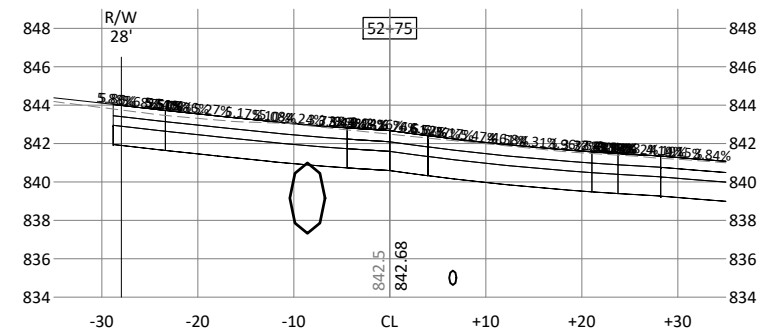
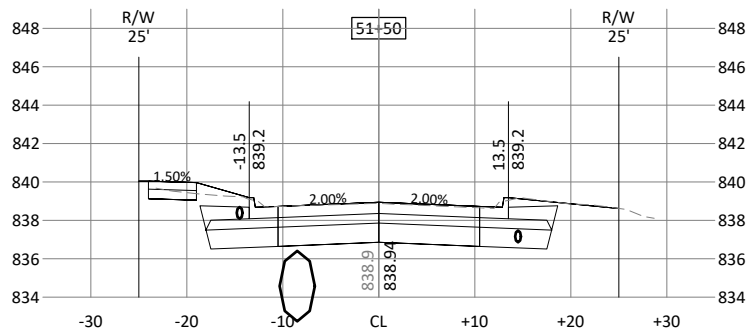
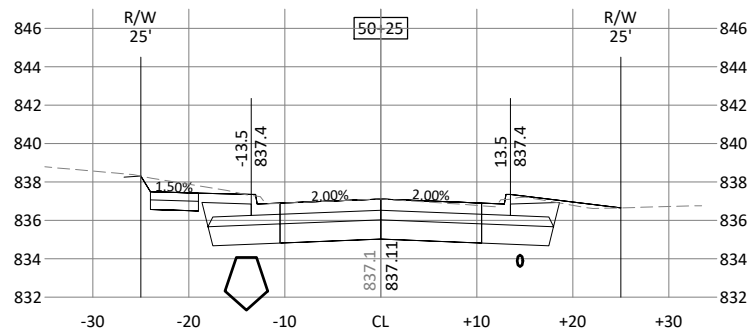
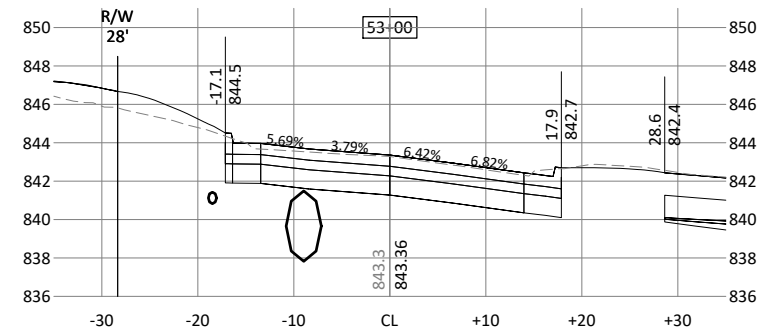
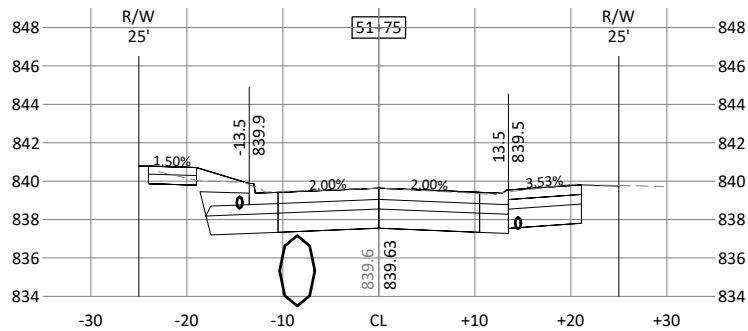
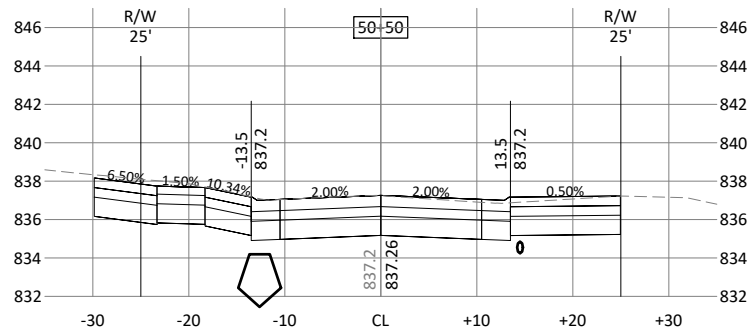
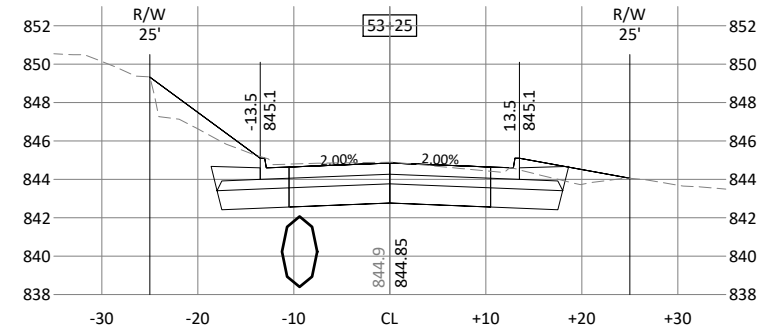
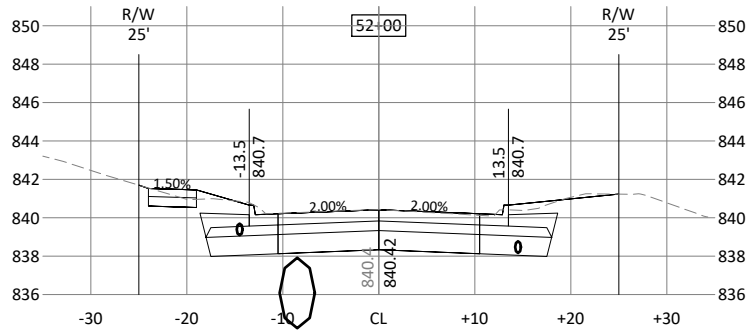
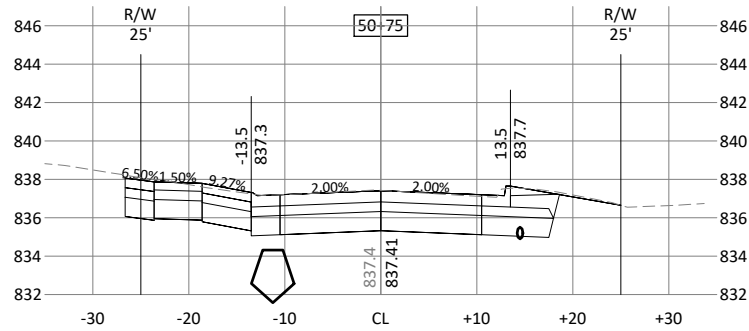
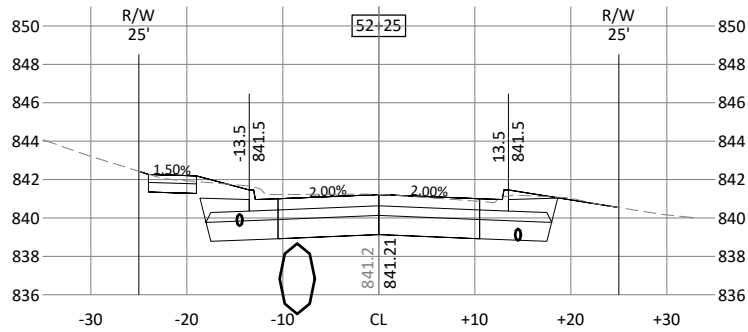
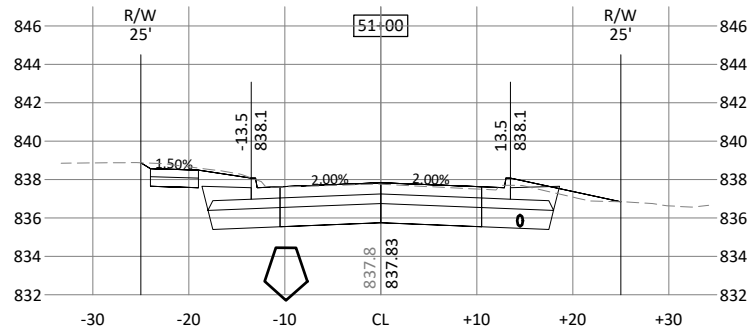
CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

CROSS SECTIONS

SHEET

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430 E GRAND AVENUE, SUITE 101
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Email: DesMoines@bolton-menk.com
www.bolton-menk.com

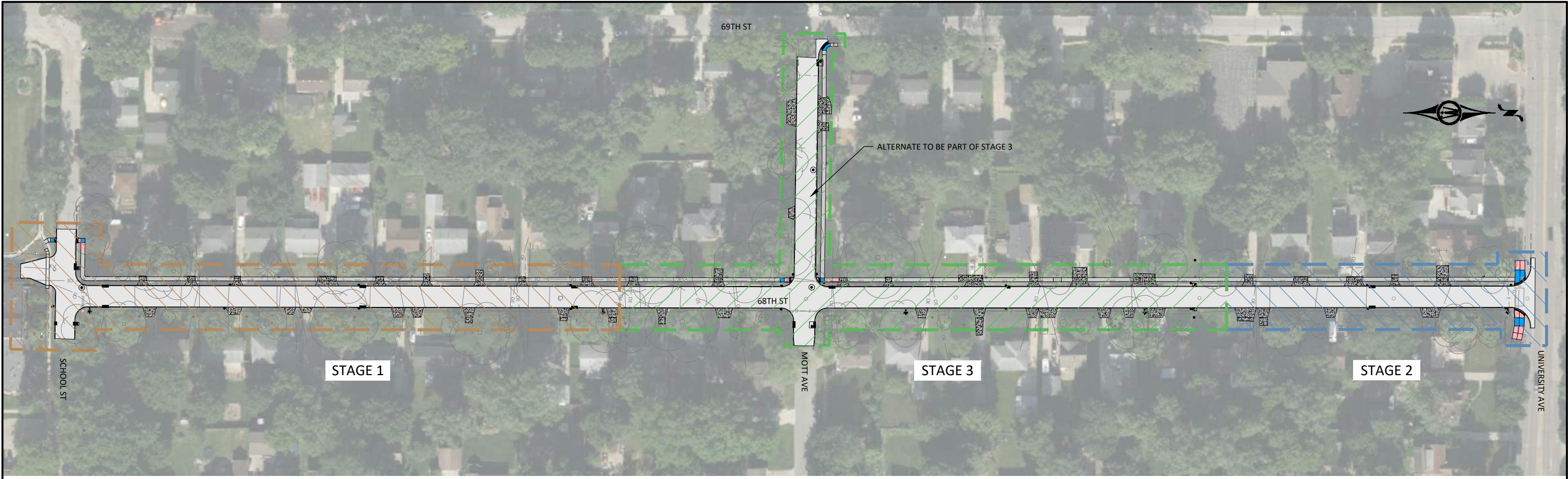
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CITY OF WINDSOR HEIGHTS, IOWA
68TH STREET SOUTH RECONSTRUCTION

CROSS SECTIONS

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STAGING NOTES:

- 1. THE CONTRACTOR IS TO CONSTRUCT THE PROJECT IN 3 STAGES. THE CONTRACTOR SHALL PROVIDE A STAGING PLAN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 2. ANY ADJUSTMENT TO THE STAGING/TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF WINDSOR HEIGHTS AND ENGINEER ON RECORD A MINIMUM OF TWO WEEKS IN ADVANCE.
- 3. THE CONTRACTOR SHALL REQUEST, IN WRITING, PERMISSION TO START EACH STAGE OF THE PROJECT AND SUBMIT AN UPDATED SCHEDULE FOR EACH STAGE UNDER CONSTRUCTION
- 4. THE ROAD SHALL BE SCRAPPED AND BROOMED PRIOR TO OPENING THE STREET TO TRAFFIC.
- 5. SITE RESTORATION SHALL BE COMPLETED PRIOR TO NEXT STAGE STARTING OR APPROVED BY ENGINEER.
- 6. REFER TO WATER MAIN PLANS FOR WATER MAIN PHASING.
- 7. WATER MAIN DESIGN ASSUMES WATER MAIN WILL BE INSTALLED STARTING AT SCHOOL STREET AND ENDING AT UNIVERSITY AVENUE.
- 8. PROPOSED CHANGES TO STAGING MUST BE REVIEW BY DMWW.

MAINTAINING MOBILITY FOR HANDICAPPED RESIDENTS:

- 1. DUE TO THE MOBILITY ISSUES OF SEVERAL RESIDENTS ALONG THE CORRIDOR, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN RUBBER MATTING PROVIDED BY THE CITY AND INSTALLED AS DIRECTED BY ENGINEER.
- 2. CONTRACTOR TO MAINTAIN TEMPORARY SIDEWALK AND DRIVEWAY GRADING.

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www.bolton-menk.com

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CITY OF WINDSOR HEIGHTS, IOWA	SHEET J.02
68TH STREET SOUTH RECONSTRUCTION	
STAGING AND TRAFFIC CONTROL - 68TH STREET	

PROJECT MANUAL

68th Street Improvement Project

City of Windsor Heights

Windsor Heights, Iowa

December 2024

BMI Project No. 0A1.133739

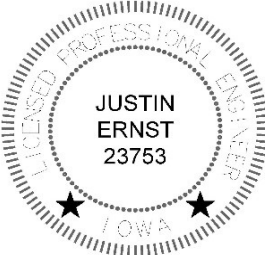


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SECTION 00005 - CERTIFICATION PAGE

PROJECT MANUAL
FOR
68TH STREET IMPROVEMENT PROJECT
CITY OF WINDSOR HEIGHTS
WINDSOR HEIGHTS, IOWA
DECEMBER 2024
BMI PROJECT NO. 0A1.133739

	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. _____ Date: _____ Justin Ernst License No. 23753 My renewal date is December 31, 2025 Pages or sheets covered by this seal: _____
---	--

SECTION 00010 - TABLE OF CONTENTS

68th Street Improvement Project
City of Windsor Heights

CONTRACT DOCUMENTS:

PROJECT MANUAL:

Introductory Information, Bidding Requirements, Contract Forms and Conditions of Contract

00005 - CERTIFICATION PAGE
00010 - TABLE OF CONTENTS
00100 - NOTICE TO BIDDERS
00110 - NOTICE OF PUBLIC HEARING
00200 - INSTRUCTIONS TO BIDDERS
00410 - PROPOSAL
00420 - BID BOND
00500 - CONTRACT
00610 - PERFORMANCE, PAYMENT AND MAINTENANCE BOND
00800 - SPECIAL PROVISIONS
00900 - NOTICE OF AWARD
00910 - NOTICE TO PROCEED
00920 - LETTER OF TRANSMITTAL

Technical Specifications

Joint Preventative Sealant

Supplemental Specifications
Des Moines Water Works

DRAWINGS (UNDER SEPARATE COVER):

_____ sheets numbered _____ through _____, inclusive, dated _____, 20____, and with each sheet bearing the following general title:

68th Street Improvement Project
City of Windsor Heights

APPENDICES SOIL BORINGS

This project is based on
SUDAS STANDARD SPECIFICATIONS, 2024 EDITION
unless modified herein.

*****END OF SECTION*****

SECTION 00100 - NOTICE TO BIDDERS

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

Receipt and Opening of Sealed Proposals. Sealed proposals for the work comprising the repair or improvement as stated below must be filed before 10:00 A.M. on January 28, 2025 in the office of the City Clerk, 1145 66th Street, Suite 1, Windsor Heights, Iowa 50324. Sealed proposals will be opened and publicly read with bids being tabulated at that time. The results will be reported to the City of Windsor Heights at its meeting at 6:00 P.M. on February 3, 2025, at which time the City Council may take action on the proposals submitted or at such a time as may then be fixed. The City of Windsor Heights City Council reserves the right to reject any or all bids, to waive informalities or technicalities in any bid, and to enter into such contract, or contracts, as it shall deem to be in the best interest of the City of Windsor Heights.

Time for Commencement and Completion of Work. Work on the improvement shall commence upon approval of the contract by the City Council and as stated in the Notice to Proceed. All work under the contract must be complete on or before November 21, 2025. Liquidated damages are as set forth in Section 00500 – Contract.

Bid Security. Each Bidder shall accompany its bid with bid security, as defined in Iowa Code Section 26.8, as security that the successful Bidder will enter into a contract for the work bid upon. The Bidder's security shall be in an amount equal to 5 percent of the total amount of the bid. The bid shall contain no condition except as provided in the specifications. If the Bidder fails to execute the contract and to furnish an acceptable Performance, Payment, and Maintenance Bond or provide a Certificate of Insurance within ten (10) days after acceptance of the bid by the City, the bid security may be forfeited or cashed by the City as liquidated damages.

Contract Documents. Copies of the project documents are available for a price of \$25.00 per set. This fee is refundable, provided the plans and specifications are returned complete and in reusable condition, and they are returned within fourteen (14) calendar days after the award of the project. Please make your check payable to Bolton & Menk, Inc. and send it to 430 E Grand Ave, Suite 101, Des Moines, IA 50309. Complete digital project bidding documents are available at www.bolton-menk.com or www.questcdn.com. You may view the digital plan documents for free by entering QuestCDN Project #9456509 on the website's Project Search page. Documents may be downloaded for \$0.00. Please contact QuestCDN.com at 952-233-1632 or info@questcdn.com for assistance in free membership registration, viewing, downloading, and working with this digital project information.

Preference of Products and Labor. By virtue of statutory authority, a preference will be given to products and provisions grown and coal produced within the State of Iowa, to the extent lawfully required under Iowa statutes.

Sales Tax Exemption Certificates. The Bidder shall not include sales tax in the bid. The City of Windsor Heights will distribute tax exemption certificates and authorization letters to the contractor and all subcontractors who are identified. The contractor and subcontractor may make copies of the tax exemption certificates and provide a copy to each supplier providing construction materials. These tax exemption certificates and authorization letters are applicable only for this specific project under the contract.

PROJECT DESCRIPTION: The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement on 68th Street between University Avenue and School Street.

The Notice is given by order of the City Council of the City of Windsor Heights.

Adam Strait
City Clerk

SECTION 00110 - NOTICE OF PUBLIC HEARING

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

Public Hearing on Proposed Contract Documents and Estimated Costs for Repair or Improvement. A public hearing will be held by the City of Windsor Heights on the proposed contract documents (plans, specifications and form of contract) and estimated cost for the improvement at its meeting at 6:00 P.M. on February 3, 2025 at 1133 66th Street, Windsor Heights, Iowa 50324.

PROJECT DESCRIPTION: The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement on 68th Street between University Avenue and School Street.

At said hearing, the City Council will consider the plans, specifications, proposed form of contract, and estimated total cost for the project, the same now being on file in the office of the City Clerk, 1145 66th Street, Suite 1, Windsor Heights, Iowa 50324, reference to which is made for a more detailed and complete description of the proposed improvements, and at said time and place the said City Council will also receive and consider any objections to said plans, specifications, estimate of cost, and form of contract made by any interested party.

SECTION 00200 - INSTRUCTIONS TO BIDDERS

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

The work comprising the above referenced project shall be constructed in accordance with the SUDAS Standard Specifications, 2024 Edition, and as further modified by the supplemental specifications and special provisions included in the contract documents. The terms used in the contract version of the documents are defined in said standard specifications. Before submitting a bid, please review the requirements of Division One, General Provisions and Covenants. Please be certain that all documents have been completed properly, as failure to complete and sign all documents and to comply with the requirements listed below can cause a submitted bid not to be read.

ARTICLE 1—BID SECURITY

- 1.01 The bid security must be in the minimum amount of 5% of the total bid amount including all add alternates (do not deduct the amount of deduct alternates).
- 1.02 Bid security other than said bid bond shall be in accordance with Chapter 26 of the Iowa Code.
- 1.03 Bid security shall be in the form of a cashier's check or certified check drawn on a state chartered or federally chartered bank; or a certified share draft drawn on a state chartered or federally chartered credit union; or a bidder's bond with corporate surety satisfactory to the City of Windsor Heights, hereinafter called the "Jurisdiction".
- 1.04 All signatures on the bid bond must be original signatures in ink; electronic, copies, or facsimile (fax) of any signature on the bid bond is not acceptable.
- 1.05 The bid bond must be submitted on the enclosed Bid Bond form as no other bid bond forms are acceptable.

ARTICLE 2—SUBMISSION OF THE PROPOSAL AND IDENTITY OF BIDDERS

- 2.01 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. The bid security shall be sealed in a separate envelope identified as the "Bid Security" and attached to the outside of the bid proposal envelope. The Proposal and Bid Security shall be 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 that its proposal is delivered to the Jurisdiction prior to the time for opening bids along with the appropriate bid security. Any proposal received after the scheduled time for the receiving of proposals will be returned to the Bidder unopened and will not be considered.
- 2.02 The following documents shall be completed, signed, and returned in the proposal envelope. The bid cannot be read if any of these documents are omitted from the proposal envelope.
 - A. PROPOSAL – Complete each of the following parts:
 - Part B – Acknowledgment of Addenda, if any have been issued;
 - Part C – Bid Items, Quantities and Prices;
 - Part F – Additional Requirements; and
 - Part G – Identity of Bidder.
- 2.03 Sign the proposal. The signature on the proposal and all proposal attachments must be an original signature in ink signed by the same individual who is the company owner or an authorized officer of the company; copies or facsimile of any signature will not be accepted.
- 2.04 Documents must be submitted as printed. No alterations, additions, or deletions are permitted. If the Bidder notes a requirement in the contract documents which the Bidder believes will require a conditioned or unsolicited alternate bid, the Bidder must immediately notify the Engineer in writing. The Engineer will issue any necessary interpretation by an addendum.

2.05 Division 1 - General Provisions and Covenants of the 2024 SUDAS Standard Specifications is modified as follows:

A. Section 1020.1.09B, Unit Price Attachment.

A computer-generated unit price attachment may be submitted by the Bidder as specified by this section.

ARTICLE 3—PROSECUTION AND PROGRESS OF THE WORK

3.01 The work is located in the City of Windsor Heights.

Work on the improvement shall commence upon approval of the contract by the City Council and as stated in the Notice to Proceed. All work under the contract must be completed as stated in Section 00500 - Contract. Liquidated damages will be assessed as detailed in Section 00500 - Contract.

3.02 Community Events.

Successful Bidder will be required to coordinate with the Jurisdiction and accommodate the Jurisdiction's requirements for the following list of events:

May 2, June 6, August 1, October 3 – Movies in the Park at Colby Park

May 30 – Touch a Truck at Colby Park

August 5 – National Night Out

October 3 & 4 – Fall Fest at Colby Park with parade route on 69th Street

TBD – Spring Cleanup

3.03 Each successful Bidder will be required to furnish a corporate surety bond in an amount equal to 100% of its contract price. Said bond shall be issued by a responsible surety approved by City of Windsor Heights and shall guarantee the faithful performance of the contract, the terms and conditions therein contained, the prompt payment of all material and labor, protect and save harmless the City of Windsor Heights from claims and damages of any kind caused by the operations of the contract, and shall also guarantee the maintenance of the improvement caused by failures in materials and construction for a period of 4 years from and after acceptance of the work.

3.04 The City of Windsor Heights, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42U.S.C. 2000d to 2000d-4 and Title 49 Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-Assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all Bidders that it will affirmatively ensure that with any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

ARTICLE 4—PREFERENCE OF PRODUCTS AND LABOR

4.01 In accordance with Iowa statutes, a resident bidder shall be allowed preference against a nonresident bidder from a state or foreign country provided that state or foreign country gives or requires any preference to bidders from that state or foreign country. This includes, but is 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 nonresident bidder is a resident. In the instance of a resident labor force preference, a nonresident 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 nonresident bidder is a resident. If it is determined that this may cause denial of federal funds which would otherwise be available or would otherwise be inconsistent with requirements of any federal law or regulation, this resident bidder preference shall be suspended, but only to the extent necessary to prevent denial of the funds or to eliminate the inconsistency with federal requirements.

ARTICLE 5—TAXES

- 5.01 The City will issue a sales tax exemption certificate and authorization letters to the contractor and all subcontractors for all materials purchased on the project. Tax exemption certificates are applicable only for the specific project for which the tax exemption certificate is issued.
- 5.02 The contractor shall provide a listing to the City identifying all appropriate subcontractors qualified for use of the tax exemption certificate. The contractor and subcontractors may make copies of the certificate and provide to each supplier providing construction material.
- 5.03 Income Tax:
 - A. Successful Bidder is subject to payment of Iowa income tax on income from this work in amounts prescribed by law.
 - B. If successful Bidder is a non-Iowa partnership, individual, or association, Bidder shall furnish evidence prior to execution of contract that bond or securities have been posted with the Iowa Department of Revenue in the amount required by law.

******END OF SECTION******

SECTION 00410 - PROPOSAL

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

PROPOSAL: PART A – SCOPE

The City of Windsor Heights, hereinafter called the “Jurisdiction”, has need of a qualified contractor to complete the work comprising of the below referenced repair or improvement. The undersigned Bidder hereby proposes to complete the work comprising of the below referenced repair or improvement as specified in the contract documents, which are officially on file with the Jurisdiction, in the office of the Mayor, at the prices hereinafter provided in Part C of the Proposal, for the improvements on the 68th Street Improvement Project.

PROPOSAL: PART B – ACKNOWLEDGMENT OF ADDENDA

The Bidder hereby acknowledges that all addenda become a part of the contract documents when issued and that each such addendum has been received and utilized in the preparation of this bid. The Bidder hereby acknowledges receipt of the following addenda by inserting the number of each addendum in the blanks below:

ADDENDUM NUMBER _____

ADDENDUM NUMBER _____

ADDENDUM NUMBER _____

ADDENDUM NUMBER _____

and certifies that said addenda were utilized in the preparation of this bid.

PROPOSAL: PART C – BID ITEMS AND QUANTITIES

UNIT PRICE CONTRACTS: The Bidder must provide the Unit Bid Price, the Total Bid Price, any Alternate Prices, and the Total Construction Costs on the Proposal Attachment: Part C – Bid Items and Quantities. In case of discrepancy, the Unit Bid Price governs. The quantities shown on the Proposal Attachment: Part C – Bid Items and Quantities are approximate only, but are considered sufficiently adequate for the purpose of comparing bids.

SEE INCLUDED PROPOSAL ATTACHMENT

PROPOSAL: PART D – GENERAL

The Bidder hereby acknowledges that the Jurisdiction, in advertising for public bids for this project reserves the right to:

1. Reject any or all bids. Award of the contract, if any, to be to the lowest responsible, responsive Bidder; and
2. Reject any or all alternates in determining the items to be included in the contract. Designation of the lowest responsible, responsive Bidder to be based on comparison of the total bid only, not including any alternates; and
3. Make such alterations in the contract documents or in the proposal quantities as it determines necessary in accordance with the contract documents after execution of the contract. Such alterations shall not be considered a waiver of any conditions of the contract documents, and shall not invalidate any of the provisions thereof; and

The Bidder hereby agrees to:

1. Enter into a contract, if this proposal is selected, in the form approved by the Jurisdiction, provide proof of registration with the Iowa Division of Labor in accordance with Chapter 91C of the Iowa Code, and furnish a performance, maintenance, and payment bond; and
2. Forfeit bid security, not as a penalty but as liquidated damages, upon failure to enter into such contract and/or to furnish said bond; and
3. Commence the work upon written Notice to Proceed; and
4. Complete the work in accordance with the completion dates defined in Section 00500 – Contract; and
5. Pay liquidated damages for noncompliance with said completion provisions at the rate detailed in Section 00500 – Contract for each calendar day thereafter that the work remains incomplete.

PROPOSAL: PART E – NON-COLLUSION AFFIDAVIT

The Bidder hereby certifies:

1. That this proposal is not affected by, contingent on, or dependent on any other proposal submitted for any improvement with the Jurisdiction; and
2. That no individual employed by the Bidder has employed any person to solicit or procure the work on this project, nor will any employee of the Bidder make any payment or agreement for payment of any compensation in connection with the procurement of this project; and
3. That no part of the bid price received by the Bidder was or will be paid to any person, corporation, firm, association, or other organization for soliciting the bid, other than the payment of their normal compensation to persons regularly employed by the Bidder whose services in connection with the construction of the project were in the regular course of their duties for the Bidder; and
4. That this proposal is genuine and not collusive or sham; that the Bidder has not colluded, conspired, connived, or agreed, directly or indirectly, with any Bidder or person, to submit a sham bid or to refrain from bidding; and
5. That the bid has not in any manner, directly or indirectly, sought, by agreement or collusion, or communication or conference, with any person, to fix the bid price of the Bidder or of any other Bidder; and
6. That all statements in this proposal are true; and
7. That the individual(s) executing this proposal have the authority to execute this proposal on behalf of the Bidder.

PROPOSAL: PART F – ADDITIONAL REQUIREMENTS

The Bidder hereby agrees to comply with the additional requirements listed below which are included in this proposal and identified as proposal attachments:

ITEM NO.	DESCRIPTION OF ATTACHMENT
1.	None

PROPOSAL: PART G - IDENTITY OF BIDDER

The Bidder shall indicate whether the bid is submitted by a/an:

- ☐ Individual,
Sole Proprietorship
- ☐ Partnership
- ☐ Corporation
- ☐ Limited Liability Company
- ☐ Joint-Venture; all parties must join-in and
execute all documents
- ☐ Other

Bidder

Signature

Name (Print/Type)

Title

Street Address

City, State, Zip Code

Telephone Number

E-Mail Address

The Bidder shall enter its
Public Registration Number

issued by the Iowa Commissioner of Labor
Pursuant Section 91C.5 of the Iowa Code.

**Type or print the name and title of the company's
owner, president, CEO, etc. if a different person
than entered above.**

Failure to provide said Registration
Number shall result in the bid being read
under advisement. A contract will not be
executed until the contractor is registered.

Name

Title

NOTE: The signature on this proposal must be an original signature in ink; copies, facsimiles, or electronic signatures will not be accepted.

All bidders must submit the following completed form to the governmental body requesting bids per 875 Iowa Administrative Code Chapter 156.

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 e-mail.
- ☐ 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 non-resident 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: _____
(mm/dd/yyyy) City, State, Zip: _____

Dates: _____ to _____ Address: _____
(mm/dd/yyyy) City, State, Zip: _____

Dates: _____ to _____ Address: _____
(mm/dd/yyyy) City, State, Zip: _____

You may attach additional sheet(s) if needed.

To be completed by non-resident bidders.

Part C

- Name of home state or foreign country reported to the Iowa Secretary of State: _____
- Does your company's home state or foreign country offer preferences to bidders who are residents? ☐ Yes ☐ No
- 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 reason to reject my bid.

Firm Name: _____

Signature: _____ Date: _____

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.

PROPOSAL ATTACHMENT: PART C – BID ITEMS AND QUANTITIES

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

This is a UNIT PRICE CONTRACT. The Bidder must provide the Unit Bid Price, the Total Bid Price, any Alternate Prices, and the Total Construction Costs on the Proposal Attachment: Part C – Bid Items and Quantities. In case of discrepancy, the Unit Bid Price governs. The quantities shown on the Proposal Attachment: Part C – Bid Items and Quantities are approximate only, but are considered sufficiently adequate for the purpose of comparing bids.

ESTIMATED PROJECT QUANTITIES							
Item No.	Item Code	Item	Unit	City Quantity	DMWW Quantity	Unit Price	Total
1	2010-C	CLEARING AND GRUBBING	LS	1	0	\$	\$
2	2010-D-1	TOPSOIL, ON-SITE	CY	620	0	\$	\$
3	2010-E	EXCAVATION, CLASS 10	CY	700	0	\$	\$
4	2010-F	BELOW GRADE EXCAVATION (CORE OUT)	CY	0	0	\$	\$
5	2010-G	SUBGRADE PREPARATION	SY	8150	0	\$	\$
6	2010-J	SUBBASE, MODIFIED, 6 INCHES	SY	8150	0	\$	\$
7	3010-D	REPLACEMENT OF UNSUITABLE BACKFILL MATERIAL	CY	0	0	\$	\$
8	4010-A-1	SANITARY SEWER GRAVITY MAIN, TRENCHED, PVC TRUSS, 8 INCH	LF	25	0	\$	\$
9	4010-E	SANITARY SEWER SERVICE, PVC, 4 INCH	LF	200	0	\$	\$
10	4010-H	REMOVAL OF SANITARY SEWER SERVICE, ORANGEBURG	LF	0	0	\$	\$
11	4020-A-1	STORM SEWER, TRENCHED, PP, 8 INCH	LF	44	0	\$	\$
12	4020-A-1	STORM SEWER, TRENCHED, 12 INCH	LF	97	0	\$	\$
13	4020-A-1	STORM SEWER, TRENCHED, 15 INCH	LF	1480	0	\$	\$
14	4020-A-1	STORM SEWER, TRENCHED, 18 INCH	LF	16	0	\$	\$
15	4020-A-1	STORM SEWER, TRENCHED, 36 INCH	LF	46	0	\$	\$
16	4020-A-1	STORM SEWER, TRENCHED, RCP, 37" X 23" ARCH	LF	50	0	\$	\$
17	4020-A-1	STORM SEWER, TRENCHED, RCP, 44" X 27" ARCH	LF	490	0	\$	\$
18	4020-D	REMOVAL OF STORM SEWER, LESS THAN 36"	LF	223	0	\$	\$
19	4040-A	SUBDRAIN, HDPE, 6"	LF	2350	0	\$	\$
20	4040-C-1	SUBDRAIN CLEANOUT, TYPE A-1, 6"	EA	9	0	\$	\$
21	4040-D-1	SUBDRAIN OUTLETS AND CONNECTIONS, CMP, 6"	EA	9	0	\$	\$

Item No.	Item Code	Item	Unit	City Quantity	DMWW Quantity	Unit Price	Total
22	SPEC. PROV.	WATER MAIN, TRENCHED, PVC C900 (DR 18), 6 INCH WITH TRACER WIRE	LF	0	10	\$	\$
23	SPEC. PROV.	WATER MAIN, TRENCHED, PVC C900 (DR 18), 8 INCH WITH TRACER WIRE	LF	0	2130	\$	\$
24	SPEC. PROV.	FITTING BY WEIGHT, DUCTILE IRON	LB	0	6700	\$	\$
25	SPEC. PROV.	WATER SERVICE TRANSFER, COPPER, 1 INCH, SAME SIDE	EA	0	23	\$	\$
26	SPEC. PROV.	WATER SERVICE TRANSFER, COPPER, 1 INCH, OPPOSITE SIDE	EA	0	26	\$	\$
27	SPEC. PROV.	WATER MAIN REMOVAL	LF	0	250	\$	\$
28	SPEC. PROV.	VALVE, GATE, 6 INCH	EA	0	1	\$	\$
29	SPEC. PROV.	VALVE, GATE, 8 INCH	EA	0	4	\$	\$
30	SPEC. PROV.	FIRE HYDRANT ASSEMBLY	EA	0	5	\$	\$
31	SPEC. PROV.	FLUSHING DEVICE (BLOW OFF), 2 INCH	EA	0	2	\$	\$
32	SPEC. PROV.	FIRE HYDRANT ASSEMBLY REMOVAL	EA	0	5	\$	\$
33	SPEC. PROV.	VALVE BOX REMOVAL	EA	0	3	\$	\$
34	SPEC. PROV.	TAP FEE, 1", REPLACE TAP FOR WATER SERVICE	EA	0	49	\$	\$
35	SPEC. PROV.	PREPARE EXCAVATION FOR TAPPING SLEEVE AND VALVE	EA	0	2	\$	\$
36	6010-A	STORM MANHOLE, SW-401, 72 INCH	EA	3	0	\$	\$
37	6010-B	INTAKE, SW-501	EA	3	0	\$	\$
38	6010-B	INTAKE, SW-503	EA	1	0	\$	\$
39	6010-B	INTAKE, SW-505	EA	9	0	\$	\$
40	6010-B	INTAKE, SW-506	EA	1	0	\$	\$
41	6010-B	INTAKE, SW-507	EA	2	0	\$	\$
42	6010-B	18" NYLOPAST DRAIN BASIN	EA	2	0	\$	\$
43	6010-B	INTAKE, SW-516	EA	2	0	\$	\$
44	6010-E	SANITARY MANHOLE ADJUSTMENT, MINOR	EA	6	0	\$	\$
45	6010-F	SANITARY MANHOLE ADJUSTMENT, MAJOR	EA	2	0	\$	\$
46	6010-G	CONNECTION TO EXISTING MANHOLE	EA	1	0	\$	\$
47	6010-H	REMOVE INTAKE	EA	10	0	\$	\$
48	7010-A	PAVEMENT, PCC, 7 INCH	SY	6520	0	\$	\$

Item No.	Item Code	Item	Unit	City Quantity	DMWW Quantity	Unit Price	Total
49	7030-A-1	REMOVAL OF SIDEWALK	SY	100	0	\$	\$
50	7030-A-3	REMOVAL OF DRIVEWAY	SY	1160	0	\$	\$
51	7030-E	SIDEWALK, PCC, 4 INCH	SY	960	0	\$	\$
52	7030-E	SIDEWALK, PCC, 6 INCH	SY	120	0	\$	\$
53	7030-G	DETECTABLE WARNING	SF	110	0	\$	\$
54	7030-H-1	DRIVEWAY, PAVED, PCC, 6 INCH	SY	1900	0	\$	\$
55	7040-H	PAVEMENT REMOVAL	SY	6210	0	\$	\$
56	8020-B	PAINTED PAVEMENT MARKINGS, SOLVENT/WATERBORNE	STA	1.5	0	\$	\$
57	8030-A	TEMPORARY TRAFFIC CONTROL	LS	1	0	\$	\$
58	8040-A	TRAFFIC SIGNS, TYPE A	EA	8	0	\$	\$
59	8040-D	PERFORATED SQUARE STEEL TUBE POSTS	EA	8	0	\$	\$
60	9010-D	WATERING	MGAL	30	0	\$	\$
61	9020-A	SOD	SQ	250	0	\$	\$
62	9030-B	PLANTS WITH WARRANTY, ORNAMENTAL TREE	EA	2	0	\$	\$
63	9030-B	PLANTS WITH WARRANTY, DECIDUOUS TREE	EA	2	0	\$	\$
64	9040-A-1	SWPPP PREPARATION	LS	1	0	\$	\$
65	9040-A-2	SWPPP MANAGEMENT	LS	1	0	\$	\$
66	9040-D-1	FILTER SOCK, 9 INCH	LF	4400	0	\$	\$
67	9040-O-1	STABILIZED CONSTRUCTION ENTRANCE	SY	300	0	\$	\$
68	9040-Q-2	EROSION CONTROL MULCHING, HYDRO MULCHING	AC	1	0	\$	\$
69	9040-T-1	INLET PROTECTION DEVICE, MAINTENANCE, AND REMOVAL	EA	34	0	\$	\$
70	9070-A	MODULAR BLOCK RETAINING WALL	SF	900	0	\$	\$
71	11020-A	MOBILIZATION	LS	1	0	\$	\$
72	11030-A	MAINTENANCE OF POSTAL SERVICE	LS	1	0	\$	\$
73	11030-B	MAINTENANCE OF SOLID WASTE COLLECTION	LS	1	0	\$	\$
BID TOTAL:							\$

NOTE: IT IS UNDERSTOOD THAT THE ABOVE QUANTITIES ARE ESTIMATED FOR THE PURPOSE OF THIS BID. ALL QUANTITIES ARE SUBJECT TO REVISION BY THE JURISDICTION AS NOTED IN SECTION 00500 - "CONTRACT" OF THIS PROJECT MANUAL.

Bidder Name

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SECTION 00420 - BID BOND

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

KNOW ALL BY THESE PRESENTS:

That we, _____, as Principal, and _____, as Surety, are held and firmly bound unto, City of Windsor Heights as Obligee, (hereinafter referred to as "the Jurisdiction"), in the penal sum of _____ dollars (\$ _____), lawful money of the United States, for which payment said Principal and Surety bind themselves, their heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

The condition of the above obligation is such that whereas the Principal has submitted to the Jurisdiction a certain proposal, in a separate envelope, and hereby made a part hereof, to enter into a contract in writing, for the following project:

Project Title: 68th Street Improvement Project

Project Description: The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement on 68th Street between University Avenue and School Street.

The Surety hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Jurisdiction may accept such bid or execute such Contract; and said Surety does hereby waive notice of any such extension.

In the event that any actions or proceedings are initiated with respect to this Bond, the parties agree that the venue thereof shall be Polk County, State of Iowa. If legal action is required by the Jurisdiction against the Surety or Principal to enforce the provisions of the bond or to collect the monetary obligation incurring to the benefit of the Jurisdiction, the Surety or Principal agrees to pay the Jurisdiction all damages, costs, and attorney fees incurred by enforcing any of the provisions of this Bond. 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 Principal or whether Principal is joined in any such action or actions or not.

NOW, THEREFORE, if said proposal by the Principal be accepted, and the Principal shall enter into a contract with Jurisdiction in accordance with the terms of such proposal, including the provision of insurance and of a bond as may be specified in the contract documents, with good and sufficient surety for the faithful performance of such contract, for the prompt payment of labor and material furnished in the prosecution thereof, and for the maintenance of said improvements as may be required therein, then this obligation shall become null and void; otherwise, the Principal shall pay to the Jurisdiction the full amount of the bid bond, together with court costs, attorney's fees, and any other expense of recovery.

Signed and sealed this _____ day of _____, 20_____.

SURETY:

PRINCIPAL:

Surety Company

Bidder

By:

Signature Attorney-in-Fact/Officer

By:

Signature

Name of Attorney-in-Fact/Officer

Name (Print/Type)

Company Name

Title

Company Address

Address

City, State, Zip Code

City, State, Zip Code

Company Telephone Number

Telephone Number

Company E-Mail

E-Mail

NOTE: All signatures on this bid bond must be original signatures in ink; electronic, copies or facsimile of any signature will not be accepted. This bond must be sealed with the Surety's raised, embossing seal or official adhesive seal. The Certificate or Power of Attorney accompanying this bond must be valid on its face and sealed with the Surety's raised, embossing seal or official adhesive seal.

SECTION 00500 - CONTRACT

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

THIS CONTRACT, made and entered into this _____ day of _____, 20____, by and between the City of Windsor Heights hereinafter called the "Jurisdiction", and _____, hereinafter called the "Contractor".

WITNESSETH:

The Contractor hereby agrees to complete the work comprising the 68th Street Improvement Project as specified in the contract documents, which are officially on file with the Jurisdiction, in the office of the City Clerk, City of Windsor Heights, 1145 66th Street, Suite 1, Windsor Heights, Iowa. This Contract includes all such contract documents. All work under this Contract shall be constructed in accordance with the SUDAS Standard Specifications, 2024 Edition and as further modified by the Special Provisions, Technical Specifications and Supplemental Specifications included in said contract documents and the Contract Attachment which is attached hereto. The Contractor further agrees to complete the work in strict accordance with said contract documents, and to guarantee the work as required by law for the time required in said contract documents after its acceptance by the Jurisdiction.

This Contract is awarded and executed for completion of the work specified in the contract documents for the bid prices shown on the Contract Attachment: Bid Items and Quantities which were proposed by the Contractor in its Proposal submitted in accordance with the Notice to Bidders and Notice of Public Hearing for the following project:

Project Title: 68th Street Improvement Project

Project Description: The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement on 68th Street between Universtiy Avenue and School Street.

The Contractor agrees to perform said work for and in consideration of the Jurisdiction's payment of the bid amount of _____ dollars (\$ _____), which amount shall constitute the required amount of the Performance, Payment and Maintenance Bond. The Contractor hereby agrees to commence work as stated in the written Notice to Proceed; and substantially complete the work in accordance with the following contract provisions:

CONTRACT PROVISIONS

- A. Completion Date: Date
 - 1. The work will be substantially completed on or before 11/21/2025, and completed and ready for final payment in accordance with General Conditions on or before 5/29/2026.
- B. Liquidated Damages
 - 1. Pay liquidated damages for noncompliance with said completion provisions in the amount of Five Hundred Dollars (\$500.00) for each calendar day the work remains incomplete.
- C. Maintenance Bond & Warranty
 - 1. To remedy any and all defects that may develop in or result from work to be performed under the Contract within the City of Windsor Heights, 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.

2. Shall also guarantee the maintenance of the improvement caused by failures in materials and construction for a period of 4 years from and after acceptance of the work.

D. Bid Quantity Revisions

1. All quantities are estimates and subject to revision by the Jurisdiction.
2. Quantity changes that do not materially change the character of the work to be performed and amount to less than Twenty (20) percent of a given bid item or less than Five (5) percent of the total contract amount shall not affect the unit price bid.

IN WITNESS WHEREOF, the Parties hereto have executed this instrument, in triplicate on the date first shown written.

JURISDICTION: City of Windsor Heights

CONTRACTOR:

By: _____
Mike Jones, Mayor

Company Name

(Seal)
ATTEST:

Signature

By: _____
Adam Strait, City Clerk

Name (Print/Type)

Title

Street Address

City, State, Zip Code

Telephone

E-Mail

1. All Contractors: The Contractor shall enter its Public Registration No. _____ issued by the Iowa Commissioner of Labor pursuant to Section 91C.5 of the Iowa Code.

- A. Pursuant to Section 91C.7 of the Iowa Code, an out-of-state contractor, before commencing a contract in excess of five thousand dollars in value in Iowa, shall file a bond with the division of labor services of the department of workforce development. The Contractor should contact 515-242-5871 for further information. Prior to contract execution, the Jurisdictional Engineer may forward a copy of this contract to the Iowa Department of Workforce Development as notification of pending construction work. It is the Contractor's responsibility to comply with said Section 91C.7 before commencing this work.
- B. Prior to entering into contract, the designated low bidder, if it is a corporation organized under the laws of a state other than Iowa, shall file with the Jurisdictional Engineer a certificate from the Secretary of the State of Iowa showing that it has complied with all the provisions of Chapter 490 of the Code of Iowa, as amended, governing foreign corporations. For further information contact the Iowa Secretary of State Office at 515-281-5204.

Name of Surety _____

State of _____)
 _____) SS
 _____ County)

My commission expires _____, 20____

PARTNERSHIP ACKNOWLEDGMENT

State of _____)
) SS
_____ County)

On this _____ day of _____, 20_____, before me, the undersigned, a Notary Public in and for the State of _____, personally appeared _____ to me personally known, who being by me duly sworn, did say that the person is one of the partners of _____, a partnership, and that the instrument was signed on behalf of the partnership by authority of the partners and the partner acknowledged the execution of the instrument to be the voluntary act and deed of the partnership by it and by the partner voluntarily executed.

Notary Public in and for the State of _____
My commission expires _____, 20_____

INDIVIDUAL ACKNOWLEDGMENT

State of _____)
) SS
_____ County)

On this _____ day of _____, 20_____, before me, the undersigned, a Notary Public in and for the State of _____, personally appeared _____ and _____, to me known to be the identical person(s) named in and who executed the foregoing instrument, and acknowledged that (he) (she) (they) executed the instrument as (his) (her) (their) voluntary act and deed.

Notary Public in and for the State of _____
My commission expires _____, 20_____

LIMITED LIABILITY COMPANY ACKNOWLEDGMENT

State of _____)
) SS
_____ County)

On this _____ day of _____, 20_____, before me a Notary Public in and for said State, personally appeared _____, to me personally known, who being by me duly sworn did say that person is _____ of said _____, that (the seal affixed to said instrument is the seal of said _____ OR no seal has been procured by the said) _____, and that said instrument was signed and sealed on behalf of the said _____, by authority of its managers and the said _____ acknowledged the execution of said instrument to be the voluntary act and deed of said _____, by it voluntarily executed.

Notary Public in and for the State of _____
My commission expires _____, 20_____

CONTRACT ATTACHMENT: ITEM 1: GENERAL – NONE

CONTRACT ATTACHMENT: ITEM 2: BID ITEMS AND, QUANTITIES

THIS CONTRACT IS AWARDED AND EXECUTED FOR COMPLETION OF THE WORK SPECIFIED IN THE CONTRACT DOCUMENTS FOR THE BID PRICES TABULATED BELOW AS PROPOSED BY THE CONTRACTOR IN ITS PROPOSAL SUBMITTED IN ACCORDANCE WITH NOTICE TO BIDDERS AND NOTICE OF PUBLIC HEARING. ALL QUANTITIES ARE SUBJECT TO REVISION BY THE JURISDICTION. THE JURISDICTION RESERVES THE RIGHT TO ADJUST QUANTITIES AS NECESSARY TO MAXIMIZE FUNDS BUDGETED FOR THIS PROJECT AS NOTED IN SECTION 00500 – CONTRACT.

[Insert Schedule of Unit Prices Standard Table Format]

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SECTION 00610 - PERFORMANCE, PAYMENT AND MAINTENANCE BOND

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

KNOW ALL BY THESE PRESENTS:

That we, _____, as Principal (hereinafter the "Contractor" or "Principal") and _____, as Surety are held and firmly bound unto _____, as Oblige (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 68th Street Improvement Project, Windsor Heights, Iowa.

Project Description: The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement on 68th Street between Universtiy Avenue and School Street.

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 for the stated maintenance period.

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:

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.

PAYMENT: The Contractor and the Surety on this Bond are 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 which 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, Code of Iowa, which by this reference is made a part hereof as though fully set out herein.

MAINTENANCE: The Contractor and the Surety on this Bond hereby agree, at their own expense:

To remedy any and all defects that may develop in or result from work to be performed under the Contract as detailed in Section 00500 - Contract, 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;

To keep all work in continuous good repair; and

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.

Maintenance Bond requirements shall not apply to the following: work that is not permanently incorporated into the project; pavement markings, seeding, sodding, and plant material and planting.

Contractor's and Surety's agreement herein made extends to defects in workmanship or materials not discovered or known to the Jurisdiction at the time such work was accepted.

GENERAL: Every Surety on this Bond shall be deemed and held bound, any contract to the contrary notwithstanding, to the following provisions:

To consent without notice to any extension of time to the Contractor in which to perform the Contract;

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 twenty percent of the total contract price, and that this Bond shall then be released as to such excess increase; and

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.

The Contractor and every Surety on the Bond shall be deemed and held bound, any contract to the contrary notwithstanding, to the following provisions:

That no provision of this Bond or of any other contract shall be valid which limits to less than five years after the acceptance of the work under the Contract the right to sue on this Bond.

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, attorney's 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 with respect to 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 with respect to this Bond, the parties agree that the venue thereof shall be Polk 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).

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)

Witness our hands, in triplicate, this _____ day of _____, 20____.

SURETY:

PRINCIPAL:

Surety Company
By: _____
Signature of Attorney-in-Fact/Officer

Name of Attorney-in-Fact/Officer

Company Name

Company Address

City, State, Zip Code

Company Telephone Number

Company E-Mail

Bidder
By: _____
Signature

Name (Print/Type)

Title

Address

City, State, Zip Code

Telephone Number

E-Mail

NOTE:

1. All signatures on this Performance, Maintenance & Payment Bond must be original signatures in ink; electronic, copies, or facsimile of any signature will not be accepted.
2. This Bond must be sealed with the Surety's raised, embossing seal or official adhesive 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 or official adhesive 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.

SECTION 00800 - SPECIAL PROVISIONS

FOR

68th Street Improvement Project
City of Windsor Heights
Windsor Heights, Iowa

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15)	<u>CONSTRUCTION LIMITS</u>
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17)	<u>CONSTRUCTION PHASING</u>
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20)	<u>MATERIALS TESTS</u>
21)	<u>SOIL BORINGS</u>
22)	<u>EXISTING UTILITIES</u>
23)	<u>SALVAGE OF MATERIALS / DISPOSAL</u>
24)	<u>TRAFFIC CONTROL</u>
25)	<u>TEMPORARY FENCES</u>
26)	<u>EROSION CONTROL (NPDES Permit)</u>
27)	<u>DEWATERING</u>
28)	<u>READY MIX CONCRETE USED ON PAVING PROJECTS</u>
29)	<u>INCIDENTAL CONTRACT ITEMS</u>

1) CONTRACT PROVISIONS

a) Completion Date

- i) All work under the Contract must be completed as detailed in Section 00500 – Contract.

b) Liquidated Damage

- i) Damages in the amount as detailed in Section 00500 – Contract will be assessed for each calendar or working day the work remains incomplete.

c) Maintenance Bond & Warranty

- i) To remedy any and all defects as detailed in Section 00500 – Contract.

d) Bid Quantity Revisions

- i) All quantities are estimates and subject to revision by the Jurisdiction.
- ii) Quantity changes that do not materially change the character of the work to be performed and amount to less than Twenty (20) percent of a given bid item or less than Five (5) percent of the total contract amount shall not affect the unit price bid.

2) DEFINITION AND INTENT

a) The Specifications that apply to the materials and construction practices for this project are defined as follows:

- i) The 2024 Edition of the SUDAS Standard Specifications, except as modified by these Special Provisions to the Technical Specifications.
- ii) Omissions of words or phrases such as “the Contractor shall”, “in accordance with”, “shall be”, “as noted on the Plans”, “according to the Plans”, “a”, “an”, “the” and “all” are unintentional; supply omitted words or phrases by inference.
- iii) “Final Acceptance” and “Final Completion” shall mean final approval of the project as defined in SUDAS 1090, 1.08, C.
- iv) “Owner”, “Jurisdiction” and “City” shall mean the City of Windsor Heights, acting through the City Council.
- v) “Person” shall mean any individual, partnership, limited partnership, joint venture, society, association, joint stock company, corporation, limited liability company, estate, receiver, trustee, assignee, or referee, whether appointed by a court or otherwise, and any combination of individuals.
- vi) “Engineer” shall mean the Engineer of Record.
- vii) The intent of the Technical Specifications is to describe the construction desired, performance requirements, and standards of materials and construction.
- viii) “Standard Drawings” shall mean the Figures bound within the SUDAS Standard Specifications and/or the Typical Drawings bound within the Plans.
- ix) “Substantial Completion” shall be as defined by the Iowa Administrative Code Chapter 573.28.
- x) “Work” shall mean the work to be done and the equipment, supplies, and materials to be furnished under the Contract unless some other meaning is indicated by the context.
- xi) “Or equal” shall follow manufacturers names used to establish standards and, if not stated, is implied.

b) Engineer: Bolton & Menk, Inc., 430 E Grand Ave, Suite 101, Des Moines, IA 50309.

3) GENERAL PROVISIONS AND COVENANTS

- a) Division 1 of the General Provisions and Covenants of the 2024 Edition SUDAS Standard Specifications is modified as follows:
 - i) Section 1020.1.09B, Unit Price Attachment.
 - (a) A computer-generated unit price attachment may be submitted by the Bidder as specified by this Section.
 - ii) Section 1050, 1.05 - Shop Drawings, Certificates, and Equipment Lists
 - (a) Electronic submittal of shop drawings will be allowed.
 - (b) If hardcopy submittals are used, the Contractor shall submit a minimum of three (3) copies plus any additional required by the Contractor.
 - iii) Section 1050, 1.15 – Additional Contractor Responsibilities
 - (a) No Changes.

4) WORK REQUIRED

- a) Work under this Contract includes all materials, equipment, transportation, traffic control, and associated work for the construction of the 68th Street Improvement Project as described in the Official Publication.

5) PLANS AND SPECIFICATIONS

- a) The Jurisdiction will furnish five (5) sets of plans and specifications to the Contractor after award of the Contract. The Contractor shall compensate the Jurisdiction for printing costs for additional copies required.
- b) Contractor shall provide one set of plans and specifications for each foreman and superintendent in charge of each crew on the job.

6) SUBMITTALS

- a) Contractor shall provide a construction schedule showing dates of starting and completing various portions of work. Schedule shall be updated as needed or as requested by Engineer due to changes in progress of construction from original schedule. Updates shall be completed within one week of request.
- b) Contractor shall submit the following information for Engineer's review. Three (3) copies plus any additional copies required by Contractor shall be submitted to the Engineer at the preconstruction conference or at least 14 days prior to utilization of the particular item on this project.
 - i) Testing reports.
 - ii) Manufacturer's data for materials that are to be permanently incorporated into the project.
 - iii) Details of proposed methods of any special construction required.
 - iv) Purchase orders and subcontracts without prices.
 - v) Traffic control and staging plan.
 - vi) Such other information as the Engineer may request to ensure compliance with contract documents.
 - vii) List of Subcontractors and Suppliers.

7) STANDARDS AND CODES

- a) Construct improvements with best present day construction practices and equipment.
- b) Conform with and test in accordance with applicable sections of the following standards and codes.
 - i) American Association of State Highway and Transportation Officials (AASHTO).
 - ii) American Society for Testing and Materials (ASTM).

- iii) Iowa Department of Transportation Standard Specifications (Iowa DOT).
- iv) American National Standards Institute (ANSI).
- v) American Water Works Association (AWWA).
- vi) American Welding Society (AWS).
- vii) Federal Specifications (FS).
- viii) Iowa Occupational Safety and Health Act of 1972 (IOSHA).
- ix) Manual of Accident Prevention in Construction by Associated General Contractors of America, Inc. (AGC).
- x) Standards and Codes of the State of Iowa and the ordinances of the Jurisdiction.
- xi) Other standards and codes which may be applicable to acceptable standards of the industry for equipment, materials and installation under the Contract.

8) EMPLOYMENT PRACTICES

- a) Neither the Contractor nor the Contractor's subcontractors shall employ any person whose physical or mental condition is such that their employment will endanger the health and safety of anyone employed on the Project.
- b) The Contractor shall not commit any of the following employment practices and agrees to include the following clauses in any subcontracts:
 - i) To discharge from employment or refuse to hire any individual because of sex, race, color, religion, national origin, sexual orientation, marital status, age, or disability unless such disability is related to job performance of such person or employee.
 - ii) To discriminate against any individual in terms, conditions, or privileges or employment because of sex, race, color, religion, national origin, sexual orientation, marital status, age, or disability unless such disability is related to job performance of such person or employee.

9) RESPONSIBILITY OF CONTRACTOR

- a) Contractor shall provide supervision of the work.
- b) Contractor shall provide protection of all property from injury or loss resulting from construction operations.
- c) Contractor shall replace or repair objects sustaining any such damage, injury, or loss, to the satisfaction of the Jurisdiction and Engineer.
- d) Contractor shall cooperate with Jurisdiction, Engineer, and representatives of utilities in locating underground utility lines and structures. Incorrect, inaccurate, or inadequate information concerning location of utilities or structures shall not relieve the Contractor of responsibility for damage thereto caused by construction operations.
- e) Contractor shall keep cleanup current with construction operations.
- f) Contractor shall comply with all Federal, State of Iowa, and local laws and ordinances.

10) WORK HOURS/COMMUNITY EVENTS

- a) The Contractor will be required to limit work hours on the Project from 7:00 a.m. to 7:00 p.m., Monday through Saturday, unless otherwise directed by the Engineer.
- b) The following Community Events are scheduled. Contractor is required to coordinate with the Jurisdiction as needed to allow use of public property as necessary for the event(s). If Contract continues for multiple years, event is still in force even though dates and locations may change.
 - i) May 2, June 6, August 1, October 3 – Movies in the Park at Colby Park
 - ii) May 30 – Touch a Truck at Colby Park
 - iii) August 5 – National Night Out

iv) October 3 & 4 – Fall Fest at Colby Park with parade route on 69th Street

v) TBD – Spring Cleanup

11) CONSTRUCTION FACILITIES

- a) Contractor shall provide telephone numbers where Contractor's representative can be reached during work days and on nights and weekends in event of emergency.
- b) Contractor shall provide and maintain suitable sanitary facilities for construction personnel for duration of work; remove upon completion of work.
- c) Contractor shall not store construction equipment, employee vehicles, or materials on streets open to traffic.
- d) Contractor shall provide suitable storage facilities necessary for proper storage of materials and equipment. Location for storage of equipment by Contractor is subject to approval of the Engineer.
- e) Contractor will be required to make arrangements for all services required during the construction period and pay for such services at no additional cost to the Jurisdiction.

12) PROJECT SUPERVISION

- a) The Contractor shall be represented in person at the construction site at all times that construction operations are proceeding. Representation constitutes a qualified superintendent or other designated, qualified representative capable of providing adequate supervision. The representative must be duly authorized to receive and execute instructions, notices, and written orders from the Engineer.
- b) Resolution of issues that arise during construction relating to traffic control, construction staging, etc. is the responsibility of the Contractor.
- c) Weekly progress meetings, if specified at the preconstruction conference, may be held at the project site to review project schedules, coordinate activities, resolve conflicts, and coordinate the construction work. The day and time for this meeting will be set at the preconstruction conference. The Contractor shall provide qualified representation at each meeting.
- d) Refer to Division 1 – General Provisions and Covenants, Section 1080 – Contractual Provisions, Part 1 – Prosecution and Progress of the Work, Section 1.10 Contractors Employees, Methods and Equipment for additional requirements.
- e) Contractor shall provide supervision of all sub-contractors and their personnel while on the site.

13) COORDINATION WITH OTHERS

- a) Contractor shall cooperate and coordinate construction with the Jurisdiction, utility companies, affected property owners, and other contractors working in the vicinity of this project.
- b) It is the Contractor's responsibility to schedule and coordinate work to minimize construction delays and conflicts.
- c) Contractor shall cooperate and coordinate with property owners prior to beginning work that will affect their parcel.

14) CONSTRUCTION GENERAL

- a) Procedures outlined herein are not intended to fully cover all special construction procedures but are offered as an aid to the Contractor in planning work.
- b) Contractor shall cooperate with the City of Windsor Heights, Iowa and the Engineer to minimize inconvenience to property owners, other jurisdictions and motorists and to prevent delays in construction and interruption to continuous operation of utility services and site access.
- c) The Contractor is expected to provide adequate personnel and equipment to perform work within the specified time of construction.
- d) Contractor shall install and maintain orange safety fence around all open trenches or open structures when left unattended.

- e) Contractor shall complete surface restoration and cleanup activities as construction progresses.

15) CONSTRUCTION LIMITS

- a) Contractor shall confine the construction operations within the construction limits shown on the plans.
- b) Contractor shall not store equipment, vehicles, or materials within the right-of-way of any streets open to traffic or on temporary access roads at any time.
- c) Areas disturbed outside of construction limits shall be restored at the contractor's expense to the satisfaction of the Jurisdiction.
- d) Contractor shall protect trees, fences and landscaping within the construction limits not marked for removal.
- e) All work on this project will be within City Right-of-Way, Easements or Public Property.

16) CONSTRUCTION SCHEDULE

- a) The Contractor will prepare and submit to the Engineer a project schedule that will assure the completion of the project within the time specified within the Contract.
- b) Adequate equipment and forces shall be made available by the Contractor to start work immediately upon receipt of the Notice to Proceed.
- c) Contractor shall submit a construction schedule at the preconstruction conference.
- d) Contractor shall periodically update the construction schedule as needed due to changes in progress of construction from the original schedule or as requested by the Engineer. Updates shall be completed within one week of request.
- e) The Contractor shall be required to meet the final completion date as specified in Section 00500 – Contract.
- f) Contractor shall notify the Jurisdiction and property owners at least 48 hours prior to any street closures.
 - i) Notification shall be provided by written notice placed on the front door. The following items shall be included within the notice:
 - (a) The street name, location and proposed date of street closure.
 - (b) The estimated schedule for completion of work.
 - (c) The estimated date for reopening of the street.
 - (d) Procedure for garbage collection recycling and postal service.

17) CONSTRUCTION PHASING

- a) Contractor shall refer to construction staging and traffic control plans when included in construction plans.
- b) Contractor shall include construction phasing on the required construction schedule submittal.

18) CONSTRUCTION STAKING

- a) Unless otherwise specified in the specific sections, Jurisdiction shall provide engineering surveys to establish reference points for construction as follows:
 - i) Storm Sewer: Staking will be furnished and set by the Engineer at 50.0-foot spacing (usually offset for construction) for the control of the underground construction herein described. Cuts to the proposed pipeline grade will be furnished by the Engineer. Manholes and catch basins will be staked with an offset and a witness with a cut to the lowest structure invert.
 - ii) Watermain: The staking interval for watermain shall be 25.0-feet. Cuts to the proposed pipeline grade will be furnished by the Engineer. Location staking shall be provided for valves and fittings. Hydrants will be staked with an offset and a witness with a cut to the ground elevation at the hydrant. The Engineer will provide horizontal and vertical control points on the project's datum.

- iii) Street Grading, Form Grade and Top of Curb: A control line (usually offset from the curb line) with cuts and fills to proposed grade at 50.0-foot spacing on tangents, and 25.0-foot spacing on horizontal or vertical curves, shall be furnished and set on both sides for control of the construction herein described.
- iv) Concrete Paving: Control lines for paving forms or stringline control with cuts and fills to proposed finished grade at 25.0 or 50.0-foot stations shall be furnished and set by the Engineer for control of the concrete construction herein described. The offset and actual form or stringline locations shall be in accordance with the paver manufacturer's recommendations and the approved paving strategy as determined at the preconstruction conference.
- b) The Engineer will provide stakes indicating the right of way and/or temporary easement construction limits.
- c) Contractor is responsible to have all areas where stakes need to be set to be clear of debris. The Contractor needs to also provide a clear line of sight for staking.
- d) The Contractor shall submit staking requests a minimum of two (2) working days, excluding Saturdays, Sundays and legal holidays, prior to the date requested stakes are needed on the project. Staking requests submitted after 2pm shall be recorded as being received the next business day.
- e) The stakes are an integral part of the project and the Contractor shall protect and preserve all such stakes and marks and will be charged with the expense of resetting all such stakes and marks destroyed or disturbed due to the Contractor's carelessness or negligence. Stakes that are destroyed due to vandalism, erosion or other incidents shall be re-staked by the Engineer and will not be at the Contractor's expense.
- f) In the event of apparent or questionable errors or inconsistencies in such stakes set for control of line and/or grade, the Contractor shall promptly notify the Engineer of such error or inconsistency and shall not proceed with the work until such stake, grade or mark shall have been verified or corrected by the Engineer.
- g) The Engineer will mark the existing boundary monuments prior to construction. The Contractor is responsible for protecting the monuments during construction. If monuments are removed, the Engineer will reset them post construction at the Contractor's expense.
- h) All other line and grade staking shall be the responsibility of the Contractor. The Contractor shall furnish sufficient equipment and personnel for determination of plan grades, cross sections, course thicknesses, etc. The survey cost of establishing stakes requested by the Contractor for the convenience of the Contractor, beyond those cited as basic project control, will be charged to the Contractor, or withheld from the amounts due to the Contractor.

19) CONSTRUCTION SURVEY DOCUMENTATION & RESPONSIBILITIES OF ENGINEER AND CONTRACTOR

- a) The Contractor shall maintain at the construction site one complete set of drawings suitably marked to show all deviations from the original set of drawings and other information as specified. Supplementary sketches shall be included, if necessary, to clearly indicate all work as constructed.
- b) All manholes and valves shall be located with tie-off dimensions to known items on the plans or in the field to enable the Contractor or City personnel to locate these structures for adjustment.
- c) Survey work documentation shall be a combination of digital and hard copy format and is the property of the Engineer.
- d) Tie-ins with existing pavements and utilities shall be verified for correctness of alignment and elevation prior to construction staking. Any discrepancies discovered during this verification process will be brought to the attention of the Engineer for review and assistance with resolution prior to staking.
- e) When survey work is done under traffic conditions, the traffic control shall be in place prior to commencement of survey work.
- f) The Engineer will have a representative at the preconstruction conference to discuss construction staking.
- g) The Jurisdiction and Engineer will not be responsible for delays due to lack of grade or line stakes unless the Contractor has given the Engineer a 48 hour, working day, notice that such stakes will be needed and the Contractor's work is being conducted in a satisfactory manner and at the specified rate of progress.

20) MATERIALS TESTS

- a) Testing shall follow the requirements of the SUDAS Standards Specifications. Contractor specified testing shall be completed by an independent testing laboratory retained by the Jurisdiction. Required testing not specified as Contractor or Supplier responsibility will be completed by an independent testing laboratory retained by the Jurisdiction or the Engineer.
- b) The Contractor shall coordinate all material testing with the Engineer.
- c) The Contractor shall not deliver materials to the project site until laboratory tests and/or certifications have been furnished which verify compliance of materials with specifications.
- d) Contractor shall provide gradation and materials certifications for all granular materials. Certify that sources of Portland Cement and aggregate sources are Iowa DOT approved.

21) SOIL BORINGS

- a) See attached.

22) EXISTING UTILITIES

- a) Location of utility lines, mains, cables and appurtenances shown on plans are from information provided by utility companies and records of the Jurisdiction.
- b) Prior to construction, Contractor shall contact all utility companies and have all utility lines and services located. The Contractor is responsible for excavating and exposing underground utilities in order to confirm their locations ahead of the work.
- c) The Contractor is solely responsible for damage to utilities or private or public property due to utility disruption.
- d) The Contractor shall notify utility company immediately if utility infrastructure is damaged during construction.
- e) The Contractor shall support and protect all utilities that are not moved.
- f) Utility services are not generally shown on plans; protect and maintain services during construction. Notify Jurisdiction and affected property Jurisdictions 48 hours prior to any planned utility service interruptions.
- g) If private utility work occurs within/adjacent to the site during the construction period, Contractor shall coordinate work schedules with the Engineer.
- h) Existing utilities shall remain in substantially continuous operation during construction. Contractor shall select the order and methods of construction that will not interfere with the operation of the utility systems. Interrupt utility services only with approval of Jurisdiction and Engineer.
- i) No claims for additional compensation or time extensions will be allowed to the Contractor for interference or delay caused by utility companies.

23) SALVAGE OF MATERIALS / DISPOSAL

- a) The Contractor shall remove from the project site and dispose of trees, shrubs, vegetation, excess soil excavation, rubbish, concrete, granular materials and other materials encountered as shown on plans and as specified. Excess soil excavation not designated for waste locations shall be disposed of as directed by the Engineer.
- b) The City of Windsor Heights, Iowa retains first right of refusal for retaining any existing materials removed by the construction.
- c) The Contractor shall dispose of materials in accordance with applicable laws and ordinances. Disposal sites are subject to the review and approval of the Engineer.
- d) Burning of brush and other debris is not permitted. Contractor is responsible for selecting disposal location off site.
- e) The Contractor shall dispose of broken concrete, asphalt, granular material, rubble and excess or unsuitable excavated material. Contractor is responsible for selecting disposal location off site.

- f) The Contractor shall cooperate with all applicable City, State and Federal agencies concerning disposal of materials.
- g) The Contractor shall carefully remove, in a manner to prevent damage, all materials and equipment specified or indicated as salvage. The Contractor shall protect and store items specified.
- h) Any items damaged in removal, storage or handling through carelessness or improper procedures shall be replaced by the Contractor in kind with new items.

24) TRAFFIC CONTROL

- a) The Contractor shall provide sufficient surveillance of the traffic control devices to ensure compliance during the entire construction period. The Contractor shall furnish names, addresses, and phone numbers of at least two (2) local individuals capable of immediate response who will be responsible for the site security and traffic control devices to:
 - i) The Engineer;
 - ii) The Jurisdiction; and
 - iii) Local Law Enforcement Agencies.
- b) The Contractor shall schedule the work to cooperate fully with business property owners and occupants abutting the project to minimize the time of restricted access to their property during the construction period.
- c) The Contractor shall notify the City and property owners at least 48 hours prior to any street closures.
 - i) Notification shall be provided by written notice delivered to the business. The following items shall be included within the notice:
 - (1) The street name, location and proposed date of street closure;
 - (2) The estimated schedule for completion of work;
 - (3) The estimated date for reopening of the street; and
 - (4) Procedure for garbage collection/recycling and postal service.
 - ii) Contractor shall accommodate and maintain safe access to homes for property owners. Access to homes shall be considered incidental to the project.
- d) The cost of maintaining vehicular and pedestrian traffic on temporary surfaced drives and walkways, including the eventual removal of the temporary surfacing material, shall be considered incidental to traffic control.
- e) In the event that any of the above right-of-way require traffic to be detoured around the construction zone, the Contractor shall prepare the detour route with the appropriate Agency representatives. The Contractor shall provide and maintain all signing and other traffic control required. The affected Agency shall be notified by the Contractor before re-routing traffic. Dust control and road maintenance of the by-pass route shall be the Contractor's responsibility.
- f) Contractor shall furnish, erect and maintain traffic control devices as specified in the construction drawings and directed by the Engineer including signs, barrels, cones and barricades to direct traffic and separate traffic from work areas. Traffic control shall be in place prior to the closing of any streets.
- g) Contractor shall provide traffic control devices in accordance with the Iowa DOT Standard Specification, Section 2528, Traffic Control, and the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
- h) Adjustments to the traffic control or the addition of flaggers will be required if, in the opinion of the Engineer, undue traffic congestion occurs.
- i) Contractor shall provide continuous access for police, fire and other emergency vehicles.
- j) Contractor shall notify the Engineer in writing at least 72 hours prior to the start of any construction operation that will necessitate land closure or internal traffic control signing.

25) TEMPORARY FENCES

- a) Contractor shall install temporary fencing around open excavations or material storage areas and as directed by Engineer to prevent access of unauthorized persons to construction areas.
- b) Contractor shall provide orange plastic mesh safety fence with a nominal height of 48". Support fence securely on driven posts in vertical position without sagging.
 - i) Refer to Iowa DOT Section 4188.03 for fence materials.
- c) Temporary fencing installed around open excavations or material storage areas is incidental to construction and will not be measured for payment.
- d) Contractor shall remove temporary fencing upon completion of construction.

26) EROSION CONTROL (NPDES Permit)

- a) If Contractor fails to install and/or perform the appropriate erosion and sediment control practices, as determined by the Engineer, the Engineer may issue a written order to the Contractor. Failure to perform this work within 72 hours of notification of non-compliance may result in the Jurisdiction or Engineer arranging for completion of the work by others. A contract deduction may be made equal to the total of all costs to perform such work so arranged, including but not limited to, labor, materials, equipment and administrative costs.
- b) It shall be the Contractor's responsibility to update the Erosion Control Plan during construction and have the plan available on site at all times.
- c) Contractor is responsible for preparing the SWPPP to match staging, phasing and construction methods as work progresses. Contractor shall comply with the erosion control requirements of said plan, the Iowa Code and local ordinances. Protect against erosion and dust pollution on this project site and any off-site deposit or borrow area used for this project.
- d) The Contractor will publish the necessary notification for the NPDES permit prior to the start of construction. The Contractor shall obtain an NPDES permit from the Iowa DNR for the area within the limits of this project based on the Pollution Prevention Plan. It shall be the Contractor's responsibility to update the plan during construction and have the plan available on site at all times.
- e) The Contractor shall protect adjoining property (including public sanitary/storm sewer systems and streets) from any damage resulting from movement of earth or other debris from the project site. Any damage shall be repaired immediately.
- f) Contractor shall prevent the accumulation of earth or debris on adjoining public or private property. Contractor shall remove any accumulation of earth or debris immediately and prevent the repetition of any instance where earth or debris moves from the project site to adjoining public or private property.
- g) Contractor shall provide erosion control measures necessary to protect against siltation and erosion from the flow of storm water. Maintain continuous operation of the storm sewer system throughout the construction period.
- h) Contractor shall use silt fence and similar Best Management Practices (BMP) at all drainage courses, swales and storm sewer system inlets/outlets to protect against siltation and erosion as shown in the construction drawings or as directed by the Engineer.
- i) Erosion protection measures, other than those specified as unit price pay items, are incidental.
- j) The Contractor will be fully liable for all damages to public and private property caused by their action or inaction in providing for handling of storm water flow during construction.
- k) As construction progresses, stabilization is required in those segments of the corridor that become available to do so. The Contractor shall not wait until all grading and paving operations are completed before commencing final surface restoration.

- l) The Contractor shall anticipate multiple mobilizations to complete finish grading operations in surface restoration areas.

27) DEWATERING

- a) Contractor shall perform all construction work in dry conditions.
- b) Unless specified in the Bid Items, all costs associated with dewatering activities shall be incidental to the project.
- c) Contractor shall submit dewatering methods to the Engineer for review. Obtain the Engineer's approval on methods prior to construction.
- d) Groundwater levels are subject to variation. No additional compensation will be permitted due to high groundwater conditions.
- e) Should cohesive soils with no wet sand seams or layers be encountered, it may be possible to control water seepage by draining groundwater to temporary construction sumps and pumping it outside the perimeter of the excavation.
- f) The Contractor shall not pump water from open excavation in sand and gravel below the natural ground water level.
- g) Contractor shall maintain water levels 2 feet or more below the bottom of excavations in saturated cohesionless (sand and/or gravel) soils to prevent upward seepage, which could reduce subgrade support.
 - i) A dewatering system (well points or shallow wells) shall be installed when working in cohesionless soils.
 - ii) Costs of installing and operating dewatering system are incidental, unless specified otherwise.
- h) Contractor shall provide means for conveying surface water encountered during construction.
 - i) Surface water shall be prevented from flowing into excavation and accumulated water shall be removed.
 - ii) Surface water and storm sewer flows shall be diverted around areas of construction.
 - iii) Sanitary sewers shall not be used for the disposal of dewatering or trench water.
- i) Contractor shall backfill pipe and structures prior to stopping dewatering operations. Contractor shall not lay pipe or construct concrete structures on excessively wet soils.
- j) Costs of conveying both surface water and groundwater are incidental.

28) READY MIX CONCRETE USED ON PAVING PROJECTS

- a) Contractor will be required to provide plant/truck batch tickets as detailed in the Iowa DOT Construction Manual, Chapter 9, Section 9.03.
- b) Contractor shall be required to provide a batch ticket for each delivered load to the Engineer or their field staff at the time of delivery on site.

29) INCIDENTAL CONTRACT ITEMS

- a) The furnishing and installing of specific items and/or the performance of work under certain circumstances shall not be individually paid in the absence of a specific bid item for the work. These costs shall be included in the Unit Price Bid for the individual items associated with the stated specific item or work effort. Such items of work include, but are not limited to:

Concrete header removal
Connections to existing storm sewer structures and pipes unless specified for separate payment
Construction and removal of temporary access roads
Construction fencing
Construction staging and phasing
Coordination and cooperation with affected property owners
Coordination and cooperation with the City of Windsor Heights

Coordination and cooperation with other contractors
Coordination and cooperation with other projects in the area
Coordination and cooperation with utility companies
Dewatering and handling storm water flow during construction
Dust control measures
Engineering fabric
Excavation, verification and protection of existing utilities
Field and wood fence removal
Field testing
Finish grading
Full depth saw-cutting of existing pavement
Grading for storm sewer outlets
Granular backfill and bedding for storm and sanitary sewer installation
Granular surfacing removal
Maintenance and watering for seeding and sodding
Maintenance of erosion control measures, including silt removal
Material testing
Monitoring weather conditions
Mowing
Overhaul
Pipe and structure bedding material
Porous backfill for subdrain
Proof rolling
Protection of existing hydrant(s) and valve(s)
Protection of existing trees and plantings not shown as removals
Protection of existing utilities and light poles
Removing and reinstalling existing signs
Reseeding
Site cleanup/restoration
Temporary safety closures
Temporary sheeting and shoring
Water valve removal
Working backfill to reduce moisture content
Working subgrade to achieve acceptable moisture content
Wrapping of storm sewer pipe joints

******END OF SECTION******

SECTION 00900 - NOTICE OF AWARD

(To be executed after bid is awarded.)

TO: Contractor _____
Address 1 _____
Address 2 _____
City, State, Zip _____

PROJECT TITLE: 68th Street Improvement Project

PROJECT DESCRIPTION: The 68th Street Reconstruction project includes pavement reconstruction, storm sewer installation and water main replacement on 68th Street between University Avenue and School Street.

OWNER'S NAME: City of Windsor Heights

The OWNER has considered the BID submitted by you for the above-described WORK in response to its Notice to Bidders dated _____, 20____, and Instructions to Bidders.

You are hereby notified that your BID has been accepted for items in the amount of \$_____.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the OWNER within fifteen (15) days of this, the ____ day of _____, 20____.

You must deliver to the OWNER Three (3) fully executed counterparts of the Contract, including all the Contract Documents. Each of the Contract Documents must bear your signature. You must deliver with the executed Contract acceptable Contract Security (Bonds), Certificate(s) of Insurance, and other required information. Within ten days after you comply with the above conditions, the OWNER will return to you one fully executed counterparts of the Contract.

Dated this, the ____ day of _____, 20____.

City of Windsor Heights
Windsor Heights, Iowa

BY: _____

TITLE: _____

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE OF AWARD is hereby acknowledged by _____,

this, the ____ day of _____, 20____.

BY: _____

TITLE: _____

SECTION 00910 - NOTICE TO PROCEED

(To be executed after Agreement, Bonds and Insurance Certificates are approved.)

TO: Contractor	Date:
Address 1	Project Title: 68th Street Improvement Project
Address 2	Project Owner: City of Windsor Heights
City, State, Zip	Project Location: Windsor Heights, Iowa

You are hereby notified to commence WORK in accordance with the Contract awarded on _____, 20____.
The Contract Time shall commence to run on Anticipated start date: _____, 20____. WORK shall proceed in accordance with the dates set forth in the Contract and all other provisions of the Contract Documents.

City of Windsor Heights
Windsor Heights, Iowa

BY: _____
TITLE: _____

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by _____,
this, the ____ day of _____, 20____.

BY: _____
TITLE: _____

TO BE PRINTED ON CONTRACTOR'S LETTERHEAD

LETTER OF TRANSMITTAL

Contractor Name _____
Contractor Address _____
Contractor City, State, Zip _____
Contractor Phone/E-Mail _____

DATE:	BMI # 0A1133739
ATTENTION: Justin Ernst	
RE: 68 th Street Improvements	
SUBMITTAL NO.:	

WE ARE SENDING YOU ☐ Attached ☐ Under Separate Cover via _____ the Following Items:
☐ Shop Drawings ☐ Prints ☐ Specifications ☐ Copy of Letter
☐ _____

No. Copies Submitted	Specification Section	Subject of Shop Drawing or Other Submittal
Review Action: <i>(To be filled in by Engineer)</i>	☐ No Exceptions Taken ☐ Make Corrections Noted	☐ Amend - Resubmit ☐ Rejected - Resubmit ☐ Not Reviewed ☐ For Record
Comments: <i>(To be filled in by Engineer.)</i>		
☐ The CONTRACTOR hereby notifies the OWNER that this Shop Drawing is in conformance with SUDAS Specifications Section 1050, 1.05 referenced in the Contract Documents.		
☐ The CONTRACTOR hereby notifies the OWNER that this Shop Drawing is not in conformance with Section 1050, 1.05 of the SUDAS Specifications referenced in the Contract Documents and nevertheless asks approval thereof. The features not in conformance are as follows:		
1. _____ 2. _____ 3. _____ 4. _____ 5. _____ CONTRACTOR SIGNED: _____ DATE: _____		
<i>(To be filled in by Engineer)</i> COPY TO: _____ _____ _____ _____ ENGINEER SIGNED: _____ DATE: _____		

Distribution: ☐ Contractor ☐ Owner ☐ Project Engineer ☐ Field Office ☐ Other

TECHNICAL SPECIFICATIONS

JOINT PREVENTATIVE SEALANT

- 8.1 Perform Joint Preventative Sealant on transverse and longitudinal concrete pavement points when indicated on the plans or directed by the Engineer as shown on the Standard Drawing and the Plans.
- 8.2 Joint Preventative Sealant work consists of providing all labor, equipment, materials and related incidental work necessary for the application of spray- applied penetrating sealer to concrete pavement joints including the preparation and cleaning of the joints.
- 8.3 MATERIALS:
 - 8.3.1 CHEM-CRETE PAVIX CCC100 or approved equal
- 8.4 EQUIPMENT:
 - 8.4.1 Water cleaning equipment: Capable of delivering water at 2,000 psi from a nozzle in accordance with Iowa DOT Standard Specification Section 2542 for PCC surfaces and Section 2541 for HMA surfaces.
 - 8.4.2 Sand blast equipment: Capable of removing old sealant, slurry, debris, and other foreign material from vertical face of crack or joints in accordance with Iowa DOT Standard Specifications Section 2542 for PCC surfaces and Section 2541 for HMA surfaces.
 - 8.4.3 Sealant applicator: Follow manufacturer specifications, to be certified applicators.
- 8.5 INSPECTION:
 - 8.5.1 The concrete surface is clean, dry and sound.
 - 8.5.2 The concrete has cured for a minimum of 7 days.
 - 8.5.3 Perform a water absorption test to determine absorption of concrete substrate. Mist area to be treated with water. Water should readily absorb into concrete substrate, if water beads at surface the presence of a sealer is possible.
- 8.6 JOINT CLEANING:
 - 8.6.1 Clean all joints and cracks wider than 1/8 inch. Clean no more joints than can be sealed in the same day.
 - 8.6.2 Compressed air, pressure washing or any method of abrading can be used as proper preparation method to ensure clean, sound concrete surface that is free of any debris. Ensure the concrete surface is free of any sealers which may impede the absorption of the sealant into the concrete substrate matrix. Thoroughly blow out all joints and cracks of loose material.
 - 8.6.3 Surface contaminated with oil or grease shall be vigorously scrubbed with a biodegradable detergent. Thoroughly wash, clean and dry concrete substrate. Areas where oil or other contaminants penetrate deep into the concrete may require removal by mechanical methods.
 - 8.6.4 Existing joint emulsion filler to remain in place.
 - 8.5.5 Surface shall be clean, dry and sound.

8.7 APPLICATION:

- 8.7.1 Place joint sealant at manufacturer's recommended temperature to the dimensions specified in the plan details.
- 8.7.2 Application rates as specified by manufacturer.
- 8.7.3 Apply by low pressure spray equipment, rollers brooms or other methods as approved by the manufacturer. Flooding the joint is not an approved method of application.
- 8.7.4 Do not apply if precipitation is forecasted within 24 hours of coating completion. If precipitation occurs during application, discontinue immediately. Follow manufacturer's recommendations for necessary remediation action.
- 8.7.5 Allow to cure for a minimum of 2 hours before allowing vehicle traffic, or as approved by manufacturer's recommendations.
- 8.7.6 All defects caused by the operation of the contractor must be repaired in accordance with the direction of the Engineer.
- 8.7.7 Application to be a minimum of 24 inches in width or 6 inches outside of pavement shadowing as defined with the direction of the Engineer.

8.8 CLEAN UP:

- 8.8.1 Sweep dust and debris generated by the work from adjacent driveways.
- 8.8.2 After joint sealant is completed, sweep street to remove dust and debris.
- 8.8.3 Protect area behind curb from debris, remove any debris from the work from the area behind curb.

**WINDSOR HEIGHTS 68TH STREET
IMPROVEMENTS**

SPECIAL PROVISION

WATER MAINS

CITY OF DES MOINES



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.

Carla J. Schumacher 12/12/2024
Carla J. Schumacher, P.E. Date

Des Moines Water Works

License Number: 18191

My license renewal date is: December 31, 2024

Pages or sheets covered by this seal: Water Main Special
Provision

SPECIAL PROVISION

WATER MAINS

I. GENERAL INFORMATION

A. Submittals

The Des Moines Water Works (DMWW) will review all shop drawings for materials related to water main construction. Shop drawings shall be provided to DMWW two (2) weeks prior to any water main construction. The Contractor shall submit these shop drawings with a summary of shop drawing submittals by email to:

Carla Schumacher
cschumacher@dmww.com

B. Preparation

Notify DMWW (515-323-6227) 48 hours prior to the start of any water main related construction.

Verify proposed grades prior to construction to ensure adequate finished cover will be provided over all water mains.

The Contractor shall arrange for all survey required to install water main on line and grade as shown on the plans.

The Contractor shall arrange with DMWW for all valves and hydrants to be operated only by DMWW's personnel.

Existing 10" DMWW mainline water valve on University Avenue along the south curblin and west of 68th Street was paved over during a past project. If not already exposed, this valve shall be uncovered by Contractor prior to start of water main work so it is operational for project.

C. Connections to the Existing Water System

Expose existing buried pipe at proposed connection location. Confirm location of bells and collect field measurements. Complete this work at least two weeks prior to ordering solid sleeves or tapping sleeve and valve to allow time for manufacturing and shipping.

A tee or tapping sleeve and valve shall not be closer than 3' from another tee or tapping sleeve and valve per DMWW Rules and Regulations. Verify manufacturer's minimum distance requirements for tapping sleeve and valve before obtaining field measurements. If an alignment adjustment is required, Contractor and DMWW personnel to discuss proposed realignment so that measurements are obtained in the correct location. DMWW Tech to get a GPS shot of tee or tapping sleeve and valve location and existing bell.

Required field measurements of existing main include the outside diameter at actual connection location, depth to top of existing main, orientation, pipe material, and type and location of joints.

Connections to the existing DMWW's system shall be coordinated with the Engineer and scheduled a minimum of 48 hours in advance. Customers who will be without water shall be notified by the Contractor a minimum of 24 hours in advance. Water main shutdowns may need to be completed outside of normal working hours to minimize impact on affected

customers. No additional compensation will be paid for work outside normal working hours.

There are three connections to existing main:

1. School Street and 68th Street
 - Connect to 6" cast iron main
 - Installed 1960
 - Anticipate Top of Pipe at 6'
 - Install a tee with two solid sleeves to connect to existing main. Requires water outage.
 - Confirm location and get measurements.
2. Mott Avenue and 69th Street
 - Connect to 8" PVC main installed in 2020.
 - Remove existing 45-degree bend (installed in 2020), located east of existing valve on tee at 69th & Mott.
 - Install new main with solid sleeve to existing main after 45-degree bend removed.
3. University Avenue and 68th Street
 - Locate valve west of intersection at 68th & University that was paved over during past project. This must be operational for project.
 - Connect to existing 10" cast iron main located north of Clive 12" water main (1955 vintage).
 - Measure outside diameter of existing main.
 - Install a tee with two solid sleeves to connect to existing main. Requires water outage.

D. Abandonment of Existing Facilities

Existing water mains shall be abandoned as shown on the plans. Mains shall be capped and hydrant assemblies and valve boxes shall be removed incidental to water main construction.

Existing tees on active mains connected to abandoned water main shall be removed and replaced with a short section of new pipe and two sleeves and paid by bid items.

Abandonments must be completed prior to paving and right of way restoration.

E. Paving

1. Sidewalks
 - Follow City of Windsor Heights requirements for stop box installation in sidewalk paving.
 - Stop boxes must be operational and accessible.
 - City Inspector and DMWW Engineering Technician to verify all new stop boxes are visible and operational after paving.
2. Street
 - Paving contractor to coordinate valve box raising with prime contractor for all valves.
 - City Inspector and DMWW Engineering Technician to count and verify location of all new valve boxes. Valve boxes shall be visible and operational after paving. Missing valve boxes shall be reported to paving contractor so they can be uncovered and raised.

PART 1 GENERAL

1.01 SUMMARY OF WORK

- A. Excavating, backfilling, and compacting specifications, as applicable, for installation of water main and appurtenances.

1.02 RELATED SECTIONS

- A. Section 02 22 70 – Augured Pipe Casing.
- B. Section 02 61 00 – Ductile Iron and Polyvinyl Chloride Pipe for Water Mains.
- C. Section 02 64 00 – Valves and Hydrants.
- D. Section 02 66 00 – Water Service Transfers.

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM) D2922 – Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).
- B. American Society for Testing and Materials (ASTM) D3017 – Test Method for Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth).
- C. American Society for Testing and Materials (ASTM) D698 – Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400 ft-lbf/ft³).
- D. Federal Register – Occupational Safety and Health Administration (OSHA), Occupational Safety and Health Standards - Excavations.
- E. Iowa Department of Transportation (IDOT) Standard Specifications for Highway and Bridge Construction – current version, including Supplemental Specification.
- F. Iowa Statewide Urban Design and Specifications (SUDAS).

1.04 SUBMITTALS (NOT USED)

1.05 MEASUREMENT AND PAYMENT

- A. Stabilization Materials: per ton, based on quantities shown on material delivery tickets provided to Engineer.
 - 1. Include cost for all material, equipment, labor, and associated work necessary to complete work associated with stabilization materials in the unit bid price for “Foundation Rock” on the Proposal.
 - 2. Estimated quantity shown on Proposal for “Foundation Rock” is not to be used as an indication of site conditions that will be encountered during the course of the Work.
- B. Special Pipe Embedment and Encasement Material: per cubic yard, based on quantities shown on material delivery tickets provided to Engineer.
 - 1. Include cost for all material, equipment, labor, and associated work necessary to complete work associated with special pipe embedment and encasement material in the unit bid price for “Utility Embedment Material” on the Proposal.
 - 2. Estimated quantity shown on Proposal for “Utility Embedment Material” is not to be used as an indication of site conditions that will be encountered during the course of the Work.

PART 2 PRODUCTS

2.01 EXCAVATED MATERIALS

- A. Strip, grub, and stockpile topsoil for finished grading.
- B. Backfill material to be:
 - 1. Approved for use by Engineer.
 - 2. Selected material taken from the excavation or select borrow material, if sufficient quantities of compliant excavated material are not available.
 - 3. Inorganic clays, clayey sands, or inorganic and clayey silts, compatible with and having an obtainable density no less than adjacent soils.
 - 4. Free of lumps or clods over 3 inches in the largest dimension.
 - 5. Free of foreign debris including rocks, organic materials, and man-made debris.
 - 6. Material that is not frozen.

2.02 BEDDING MATERIAL

- A. Steel Pipe: Bed pipe using sand free of frozen material, foreign debris, including rocks, organic materials, and man-made debris.
- B. Ductile iron pipe, prestressed concrete cylinder pipe, polyvinyl chloride pipe, and corrugated steel pipe: Bed pipe using material taken from the excavation with the following characteristics:
 - 1. Inorganic clay, clayey sand, or inorganic and clayey silt.
 - 2. Free of lumps or clods over 2 inches in the largest dimension.
 - 3. Free of foreign debris including rocks, organic materials, and man-made debris.
 - 4. With a soil moisture range of optimum moisture to 4 percentage points above optimum moisture content.
 - 5. Material that is not frozen.

2.03 STABILIZATION MATERIAL

- A. When required by field conditions, use stabilization material of crushed limestone, dolomite, or quartzite generally meeting the following characteristics:
 - 1. 2-inch nominal maximum size.
 - 2. 95 percent retained on a 3/4-inch screen.
 - 3. Generally free from deleterious substances as determined by Engineer.

2.04 BORROW MATERIALS

- A. If sufficient quantity of suitable material is not available from excavations, obtain material from approved off-site sources. Off-site sources must hold a National Pollutant Discharge Elimination System (NPDES) permit from the IDNR for storm water discharge associated with construction activity.
- B. Conform borrow materials, including topsoil and backfill material, to specifications for excavated materials in Part 2.01.
- C. Topsoil borrow material to be:
 - 1. Natural loam and humus with characteristics consistent with the existing topsoil on site.
 - 2. Finely graded and free of clumps larger than 2 inches in the largest dimension.
 - 3. Free of man-made materials and debris.
 - 4. Free of rock or organic matter, including wood and roots, greater than 3/4-inch, in the largest dimension.
 - 5. Comprised of less than 0.5 percent clay.

2.05 SPECIAL PIPE EMBEDMENT AND ENCASEMENT MATERIAL

- A. When directed by Engineer, install controlled low-strength material to provide support to existing utilities.
1. Controlled Low-Strength Material (CLSM):
 - a. Approximate quantities per cubic yard:
 - (1) Cement: 50 pounds.
 - (2) Fly ash: 250 pounds.
 - (3) Fine aggregate: 2,910 pounds.
 - (4) Water: 60 gallons.
 - b. A compressive strength of at least 50 psi compressive strength at 28 calendar days.
 - c. Comply with material requirements of Section 2506.02 of IDOT Standard Specifications, current version.

2.06 MANUFACTURED SAND MATERIAL

- A. When directed by Engineer, install manufactured sand.
1. Stone sand complying with the following gradation:

Sieve	Percent Passing
3/8-inch	100
No. 4	90-100
No. 8	60-75
No. 30	15-30
No. 200	0-4

PART 3 EXECUTION

3.01 GENERAL

- A. General Description
1. Complete trenching, backfilling, and compacting for water main in accordance with the SUDAS manual. These specifications are intended to highlight or modify basic requirements; see SUDAS manual for more detailed information.
- B. Quality Assurance
1. Give Engineer the opportunity to review excavated or borrowed soils prior to placement as backfill.
 2. Owner will commission and compensate a qualified soils engineer to develop Proctor curves indicating moisture-density relationships for all soil types used as backfill.
 3. Use Proctor curves and soil analysis information in determining proper compaction of soils placed.
- C. General Safety
1. Blasting not permitted.
 2. Safety and protection:
 - a. Provide shoring, sheeting, and bracing, as required, to protect Work, adjacent property, private or public utilities, and workers.
 - b. Strictly observe laws and ordinances regulating health and safety measures.
 - c. Excavations that Owner's personnel are required to enter shall comply with OSHA standards.
- D. Soil Testing
1. Field tests for density and moisture content to be performed by the soils engineer, defined in Part 3.01.B above, to ensure that specified density is being obtained. Perform testing using ASTM D2922 nuclear methods or another method approved by Engineer.
 2. Take density tests at finished grade, at 3 feet below finished grade, and as directed by Engineer under special conditions. Test locations to be selected by Engineer immediately prior to performing tests. Excavate, as directed by Engineer, for tests at intermediate depths. As a

minimum, take density tests at approximately 200-foot intervals along the trench. The following locations require additional testing:

- a. Over jacking pits where casing was installed.
- b. Immediately adjacent to all structures.
3. When test results indicate compaction is not as specified:
 - a. Additional tests will be required in both directions from the failed test until satisfactory results are obtained.
 - b. Remove, replace, and recompact all material between the satisfactory tests in lifts to meet specifications. Compaction corrections are made at no expense to Owner.
 - c. Provide density tests to recompacted areas at the same frequency as the original tests. Testing of recompacted areas performed at the Contractor's expense.
4. Notify Engineer if petroleum-based materials are detected in soils. Appropriate action will be taken by Owner.
5. Tests that are not conducted in the presence of the Engineer, or are conducted at locations not selected by the Engineer, will be rejected.

E. Protection of Utility Lines

1. Conduct trenching operations to avoid damaging underground utilities.
2. Protect all underground utilities. Damage resulting from trenching or backfilling to be repaired by Contractor or utility company at Contractor's expense.
3. Underground utilities discovered by Contractor are to be protected.

3.02 DISPOSAL OF EXCAVATED MATERIAL

- A. Remove excess material excavated for water main trench from site and in compliance with environmental regulations.
- B. Backfill consisting of suitable material, which comes from an off-site source, must conform to Part 2.01.

3.03 TRENCH EXCAVATION

- A. Strip and stockpile topsoil for finished grading. A minimum of 12 inches of topsoil must be segregated from other materials in agricultural areas.
- B. Excavate trenches so as to:
 1. Follow lines and grades as indicated on plans.
 2. Provide uniform bearing on undisturbed soil and continuous support along the entire length of pipe.
 3. Prevent over-excavation in locations where suitable subgrade conditions exist.
 4. Provide vertical trench walls to an elevation no less than 12 inches above the pipe.
- C. Correct unstable trench bottoms, as determined by Engineer, as follows:
 1. Over-excavate the trench to stable soil or to a maximum of 2 feet below the bottom of the pipe.
 2. If stable soil is reached, bring trench back to grade using suitable backfill material or bedding material compacted to 90 percent Standard Proctor Density.
 3. If stable soil is not reached after 2 feet of over-excavation, place one (1) foot of the specified trench stabilization material in the trench bottom and compact. Bring trench back to grade using suitable backfill material or bedding material compacted to 90 percent Standard Proctor Density.
 4. Place pipe only after trench bottom has been fully stabilized.
- D. Remove stones encountered during excavation. When large rocks are encountered, remove to an elevation 6 inches below the bottom of the proposed improvement. Fill voids created through removal of stones with approved backfill material and thoroughly compact to 90 percent Standard Proctor Density.
- E. Excavate trench bottoms deeper at location of bell joints to permit body of pipe to rest uniformly supported upon trench bottom. Use bell holes no longer than is necessary for practical installation of pipe.

- F. The length of trench to be opened at one time is as follows:
 - 1. In extended runs, open trench length is not to exceed 100 feet.
 - 2. In street crossings, trench shall not be open in more than one lane at a time, unless specified differently in traffic control plan.
 - 3. Backfill driveways and entrances immediately after placement of pipe.
- G. Place excavated material:
 - 1. As approved by Engineer when these specifications do not apply.
 - 2. Compactly along sides of excavation.
 - 3. To provide continuous access to fire hydrants and utility valves.
 - 4. To provide as little inconvenience as possible to public travel.
 - 5. To minimize damage to adjacent lawns and planted areas.

3.04 PIPE BEDDING

- A. Bed pipe with 4-inch-thick layer of specified bedding material for pipes 20-inch and larger.
- B. Place bedding alongside of pipe to an elevation above springline (no lower than half the height of the pipe).
- C. Compact bedding to a minimum of 90 percent Standard Proctor Density.
- D. Obtain required compaction within a soil moisture range of optimum moisture to 4 percentage points above optimum moisture content.
- E. Do not damage pipe coating or wrapping system during bedding placement and compaction.

3.05 BACKFILLING

- A. Perform backfilling of trenches only after pipe installation, jointing, and bedding are complete, inspected, and approved.
- B. Use backfill material complying with Part 2 above.
- C. Mechanically tamp backfill with impact or vibrating compaction equipment.
- D. Place backfill in layers and compact to required density.
- E. Backfill to be:
 - 1. Compacted to 90 percent Standard Proctor Density to a level one (1) foot above the pipe.
 - 2. For the remainder of the trench:
 - a. Compact public rights-of-way to 95 percent Standard Proctor Density.
 - b. Compact easement areas to 90 percent Standard Proctor Density.
 - 3. Within a soil moisture range of optimum moisture to 4 percentage points above optimum moisture content.
- F. Protect pipe coating or pipe wrapping system from damage during backfill operations.
- G. Hydraulic compaction or water jetting of pipe trenches is not permitted.
- H. Adjust moisture content of material that exceeds optimum moisture range, but is otherwise acceptable, by spreading and aerating or otherwise drying as necessary until moisture content is within required moisture range and required compaction can be obtained.
- I. Adjust moisture content of material that is below optimum moisture, but is otherwise acceptable, by wetting as necessary until moisture content is within required moisture range and required compaction can be obtained.

3.06 GRADING

- A. Finish-grade surfaces with a well-compacted, free-draining, uniform surface without obstructive protrusions or depressions.
- B. Place topsoil at a uniform depth equal to surrounding topsoil, but not less than 4 inches.
- C. Place topsoil to a minimum depth of 6 inches when ample native topsoil is available.
- D. Place topsoil only under lawn and planted areas.

3.07 CONTROL OF WATER

- A. Install pipe in the dry.
- B. Dewater as necessary to prevent water from entering pipe or rising around pipe.
- C. Do not allow water pumped or diverted from excavation site to be:
 - 1. Pooled anywhere on site.
 - 2. Removed in such a manner as to disperse silt.
 - 3. Placed on surfaces heavily traveled by pedestrian traffic.
- D. Do not use installed pipe as a conduit for trench dewatering.
- E. Control surface water as follows:
 - 1. Divert surface water to prevent entry into pipe trenches.
 - 2. Remove surface water accumulated in pipe trenches and other excavations prior to continuation of excavation work.
 - 3. Remove surface water saturated soil from excavation.
- F. Control groundwater as follows:
 - 1. Where groundwater is encountered, dewater trenches and other excavations, as necessary, to permit proper execution of the Project.
 - 2. When large quantities of groundwater are encountered, stabilize trenches with the specified stabilization material, and bed pipe as specified.

3.08 DISPOSAL OF UNSUITABLE OR EXCESS MATERIAL

- A. Dispose of surplus material and material not suitable for backfill off-site at a location provided by Contractor.
 - 1. Off-site disposal locations must hold a National Pollutant Discharge Elimination System (NPDES) permit from the IDNR for storm water discharge associated with construction activity.
 - 2. Contractor to provide transportation of such material.

3.09 CLEANUP AND RESTORATION

- A. Clear the site in and around the excavation of mud and construction debris to a condition equal to, or better than, that existing prior to trenching work.
- B. Remove construction remnant materials from site.
- C. Repair damage to adjacent property suffered during installation work to a condition equal to, or better than, that condition existing prior to trenching Work.

**** END OF SECTION ****

PART 1 GENERAL

1.01 SUMMARY OF WORK

- A. This Section describes Iowa Department of Natural Resources (IDNR) requirements for protection of water supply systems and reflects IDNR updates to 567 IAC 43.3(2)"a"(3) that became effective March 16, 2022, and the Standard Specifications on file with IDNR dated October 10, 2014, that include a variance for electronic leak detection.

1.02 RELATED SECTIONS

- A. Section 02 61 00 – Ductile Iron and Polyvinyl Chloride Pipe for Water Mains.
- B. Section 02 64 00 – Valves and Hydrants.
- C. Section 02 67 40 – Pressure Testing Water Mains.
- D. Section 02 67 50 – Disinfection of Water Distribution Systems.

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM) C443 – Standard Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets.
- B. 567 IAC 43.3 (2)"a"(3) new subparagraphs (3) and (4), effective March 16, 2022.
- C. Standard Specifications on file with IDNR dated October 10, 2014, with variance for electronic leak detection.

1.04 SUBMITTALS (NOT USED)

1.05 MEASUREMENT AND PAYMENT (NOT USED)

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 GENERAL INSTALLATION REQUIREMENTS

- A. Lay water mains to avoid high points where air can accumulate. Grade piping so that proposed hydrants will be at the highest points.
- B. Do not locate hydrants within 10 feet of sanitary sewers or storm drains.
- C. Plug hydrant drain ports in areas where groundwater rises above water main and pump hydrant barrel dry following construction.
- D. Pressure test and disinfect new water mains prior to placing them in service.

3.02 SEPARATION DISTANCE

- A. **Horizontal separation of water mains from gravity sanitary and combined sewers:**
 - 1. When horizontal separation is at least 10 feet from edge to edge, there are no additional requirements.
 - 2. When horizontal separation is at least 3 feet from edge to edge and less than 10 feet, with water main located at least 18 inches or more above top of sewer, sewer must be placed in a separate trench than the water main or on a bench of undisturbed earth in the same trench as the water main.

3. When horizontal separation is at least 3 feet from edge to edge and less than 10 feet, with water main located less than 18 inches above top of sewer:
 - a. Option 1: Construct water main within watertight casing pipe with evenly spaced annular gap provided by watertight end seals, or
 - b. Option 2: Construct sewer of water main materials.
 4. When it is impossible to obtain the required 3-foot horizontal clearance edge to edge, the sewer must be replaced with water main quality materials.
 5. In no case shall horizontal separation be less than 2 feet.
- B. Horizontal separation of water mains from sanitary sewer force mains:**
1. When horizontal separation distance is at least 10 feet from edge to edge, there are no additional requirements.
 2. When horizontal separation is at least 4 feet from edge to edge and less than 10 feet, sewer must be constructed of water main materials.
 3. In no case shall horizontal separation be less than 4 feet.
- C. Vertical separation of water mains from gravity sanitary and combined sewer crossings:**
1. When vertical separation distance is at least 18 inches or greater from edge to edge and water main is located above sewer, there are no additional requirements.
 2. When vertical separation distance is at least 6 inches from edge to edge and less than 18 inches, and water main is located above sewer:
 - a. Option 1: Construct water main within watertight casing pipe with evenly spaced annular gap and watertight end seals, or
 - b. Option 2: construct sewer of water main materials.
 3. When vertical separation distance is 18 inches or greater from edge to edge, and water main is located below sewer:
 - a. Option 1: Construct water main within watertight casing pipe with evenly spaced annular gap and watertight end seals, or
 - b. Option 2: construct sewer of water main materials.
 4. In no case shall vertical separation be less than 6 inches edge to edge when water main is above sewer.
 5. In no case shall vertical separation be less than 18 inches edge to edge when water main is below sewer.
- D. Horizontal separation of water mains from gravity storm sewers:**
1. When horizontal separation is at least 10 feet from edge to edge, there are no additional requirements.
 2. When horizontal separation is at least 3 feet from edge to edge and less than 10 feet:
 - a. Option 1: Construct water main of ductile iron pipe with gaskets impermeable to hydrocarbons, or
 - b. Option 2: Construct water main within watertight casing pipe with evenly spaced annular gap using chocks and watertight end seals, or
 - c. Option 3: Construct sewer of water main materials, or
 - d. Option 4: Construct reinforced concrete pipe storm sewers with gaskets manufactured in accordance with ASTM C443.
 3. In no case shall horizontal separation be less than 3 feet.
- E. Vertical separation of water mains from gravity storm sewer crossings:**
1. When vertical separation distance is at least 18 inches from edge to edge, there are no additional requirements.
 2. When vertical separation distance is at least 6 inches from edge to edge and less than 18 inches, and water main is located above sewer:
 - a. Option 1: Construct water main of ductile iron pipe with gaskets impermeable to hydrocarbons, or
 - b. Option 2: Construct water main within watertight casing pipe with evenly spaced annular gap using chocks and watertight end seals, or
 - c. Option 3: Construct sewer of water main materials, or
 - d. Option 4: Construct reinforced concrete pipe storm sewers shall be constructed with gaskets manufactured in accordance with ASTM C443.

3. In no case shall vertical separation be less than 6 inches when water main is above sewer.
4. In no case shall vertical separation be less than 18 inches when water main is below sewer.

F. Separation of water mains from sewer manholes:

1. No water pipe shall pass through, or come in contact with, any part of a sewer manhole.
2. Provide a horizontal separation distance of at least 10 feet between water mains and sewer manholes whenever possible.
3. In no case shall the horizontal separation of water main from sanitary and combined sewer manholes be less than 3 feet.

- G. Advise Engineer should physical conditions exist such that exceptions to Part 3.02 of this Section are necessary.

3.03 WATER CROSSINGS

A. Above-water Crossings:

1. Adequately support and anchor pipe used for above-water crossings.
2. Protect pipe from damage and freezing.
3. Ensure pipe is accessible for repair or replacement.

B. Underwater Crossings:

1. Use restrained joint pipe for water mains entering or crossing streams that are 15 feet in width or larger.
 - a. Place top of water main a minimum of 5 feet below natural bottom of streambed.
 - b. Securely anchor water main to prevent movement of pipe and provide easily accessible shutoff valves located outside the floodway at each end of the water crossing.
 - c. Backfill trench with crushed rock or gravel.
 - d. Seed, sod, or otherwise protect streambank from erosion upon completion of the Project.
2. For smaller streams, the same requirements shall apply except that shutoff valves do not need to be located immediately adjacent to the water crossing.
3. DMWW will electronically pinpoint leaks in lieu of inserting a small meter to determine leakage and obtain water samples on each side of shutoff valve.

3.04 DEPTH OF COVER AND WIDTH OF TRENCH

- A. Provide 5 feet minimum depth of cover from top of pipe to ground surface.
- B. Where possible, provide an additional 6 inches of cover under pavement.
- C. Insulate water mains where conditions prevent adequate earth cover.
- D. Provide a trench width adequate to lay and joint pipe properly but not more than 12 inches on either side of the pipe.

**** END OF SECTION ****

PART 1 GENERAL

1.01 SUMMARY OF WORK

- A. This Section includes water mains, fittings, as shown on the plans, complete with accessories.

1.02 RELATED SECTIONS

- A. Section 02 22 00 – Excavating, Backfilling, and Compacting for Water Mains.
- B. Section 02 60 00 – Protection of Water Supply.
- C. Section 02 64 00 – Valves and Hydrants.
- D. Section 02 67 40 – Pressure Testing Water Mains.
- E. Section 02 67 50 – Disinfection of Water Distribution Systems.

1.03 REFERENCES

- A. American National Standards Institute (ANSI) B16.1 – Cast Iron Pipe Flanges and Flanged Fittings.
- B. American Society for Testing and Materials (ASTM) A320 – Alloy-Steel and Stainless-Steel Bolting for Low-Temperature Service.
- C. American Society for Testing and Materials (ASTM) A536 – Standard Specification for Ductile Iron Castings.
- D. American Water Works Association (AWWA) C104 – Cement-Mortar Lining for Ductile-Iron Pipe and Fittings.
- E. American Water Works Association (AWWA) C105 – Polyethylene Encasement for Ductile-Iron Pipe Systems.
- F. American Water Works Association (AWWA) C110 – Ductile-Iron and Gray-Iron Fittings.
- G. American Water Works Association (AWWA) C111 – Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings.
- H. American Water Works Association (AWWA) C115 – Flanged Ductile-Iron Pipe with Ductile-Iron or Gray-Iron Threaded Flanges.
- I. American Water Works Association (AWWA) C150 – Thickness Design of Ductile Iron Pipe.
- J. American Water Works Association (AWWA) C151 – Ductile Iron Pipe, Centrifugally Cast.
- K. American Water Works Association (AWWA) C153 – Ductile-Iron Compact Fittings.
- L. American Water Works Association (AWWA) C600 – Installation of Ductile-Iron Water Mains and Their Appurtenances.
- M. American Water Works Association (AWWA) C605 – Underground Installation of Polyvinyl Chloride (PVC) Pressure Pipe and Fittings for Water.
- N. American Water Works Association (AWWA) C900 – Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 In. Through 60 In.

1.04 SUBMITTALS

- A. Submit the following items for materials provided by the Contractor:
 - 1. Manufacturer's certification that materials furnished are in compliance with applicable requirements of referenced standards and this Section.
 - 2. Drawings and manufacturer's data showing details of pipe and fittings to comply with this Section.
 - 3. Class of pipe and fittings.
 - 4. Restrained joint details for Engineer's approval.
 - 5. List of at least ten projects similar to this Project. Include project name, scope, duration of Project, and references with phone numbers.
- B. Provide dimensional drawings, fabrication details, functional description, and properly identified catalog data on pipe and equipment to prove complete compliance with Drawings and Specifications.

1.05 MEASUREMENT AND PAYMENT

- A. Measure water main in linear feet, along centerline of pipe.
- B. Include costs for material, equipment, and labor for Work included in this Section.

PART 2 PRODUCTS

2.01 DUCTILE IRON PIPE (12-INCH AND SMALLER)

- A. Special Thickness Class 52 per AWWA C150.
- B. Manufacture pipe in accordance with AWWA C151.
- C. Provide asphaltic outside coating per AWWA C151, 1 mil in thickness.
- D. Cement Mortar Lining:
 - 1. Provide pipe with standard thickness cement mortar lining per AWWA C104.
 - 2. Seal-coat cement mortar lining in accordance with AWWA C104.

2.02 POLYVINYL CHLORIDE PIPE

- A. Use Class 235 (DR 18) pipe with ductile iron pipe equivalent outside diameters.
- B. Manufacture pipe in accordance with AWWA C900.
- C. Use restrained-joint PVC pipe for pipe installed utilizing horizontal directional drilling.
- D. Use blue pipe.

2.03 FITTINGS FOR DUCTILE IRON AND POLYVINYL CHLORIDE PIPE

- A. Use compact fittings in accordance with AWWA C153, or full size in accordance with AWWA C110.
- B. Use ductile iron material for construction in accordance with AWWA C110.
- C. Joints
 - 1. Mechanical in accordance with AWWA C111 with restraint.
 - a. T-bolts and hex-head nuts for mechanical joints in accordance with AWWA C111.
 - (1) Material: low carbon alloy weathering Cor-Ten steel.
 - (2) Coating: Cor-Blue fluorocarbon resin.
 - (3) Color: Blue.
 - (4) Approved Manufacturers:
 - (a) Birmingham Fastener Manufacturing Fluorocarbon Coated T-Head Bolt.
 - (b) Or approved equal.

2. Flanged in accordance with AWWA C115, as indicated on plans, with ANSI Class 125 full-faced flange.
 - a. Gaskets: of thickness compatible with machining tolerance of flange faces. Minimum thickness: 1/8-inch.
 - b. Nuts and bolts: stainless steel in accordance with ASTM A320, Type 304.

D. Pressure Rating:

Size (inches)	Pressure Rating (psi)
3 – 24	350
30 – 48	250
54 – 64	150

E. Provide asphaltic outside coating per AWWA C110, 1 mil in thickness.

F. Cement Mortar Lining:

1. Provide standard thickness cement mortar lining per AWWA C104.
2. Seal-coat cement mortar lining in accordance with AWWA C104.

2.04 JOINTS FOR DUCTILE IRON AND POLYVINYL CHLORIDE PIPE

- A. Use push-on joints using an integral bell with an elastomeric or nitrile gasket in accordance with AWWA C111, mechanical in accordance with AWWA C111, or restrained as needed for thrust restraint.
- B. Use ductile iron follower glands for mechanical joints.
- C. Solvent cement joints are strictly prohibited.
- D. T-bolts and hex-head nuts for mechanical joints in accordance with AWWA C111.
 1. Material: low carbon alloy weathering Cor-Ten steel.
 2. Coating: Cor-Blue fluorocarbon resin.
 3. Color: Blue.
 4. Approved Manufacturers:
 - a. Birmingham Fastener Manufacturing Fluorocarbon Coated T-Head Bolt.
 - b. Or approved equal.
- E. Provide flanged joints for connections to flanged valves, hydrant valves, and other flanged fittings where shown on plans. Conform to AWWA C115 with ANSI Class 125 full-faced flange.
 1. Gaskets: SBR Rubber of thickness compatible with machining tolerances of flange faces. Minimum thickness: 1/8 inch.
 2. Nuts and bolts: Conform to ASTM A320, Type 304.
- F. Joint bonds: No. 4 AWG-HMWPE stranded copper cable per Section 13 21 00.

2.05 RESTRAINED JOINTS

- A. Mechanical Joint
 1. Incorporate restraint for all mechanical joints into the design of the follower gland.
 2. Use retainer gland designed to impart multiple wedging actions against the pipe, increasing its resistance as pressure increases.
 3. Restrained joints to consist of a mechanical joint with retainer gland or manufacturer's proprietary-restrained joint.
 4. Conform dimensions to the requirements of AWWA C111 and AWWA C153.
 5. Pressure rating:
 - a. Minimum of 235 psi for PVC pipe.
 - b. Minimum of 350 psi for ductile iron pipe for sizes 16-inch and smaller.
 - c. Minimum of 250 psi for ductile iron pipe for sizes 18-inch and larger.

6. Color:
 - a. Red for PVC pipe.
 - b. Black for ductile iron pipe.
 7. Materials for construction:
 - a. Body, wedge segments, and break-off bolt assemblies: Grade 65-45-12 ductile iron as specified by ASTM A536.
 - b. Coating to be electrostatically applied and heat cured.
 - (1) Approved manufacturers:
 - (a) MEGA-BOND by EBAA Iron, Inc.
 - (b) CORRSafe by Sigma.
 - (c) Starbond by Star Products.
 - (d) Resicoat R2-ES by Tyler Union.
 - (e) EZ Shield by SIP Industries.
 - (f) Or approved equal.
 8. Minimum safety factor of 2.
 9. Use ductile iron retainer wedge segments heat treated to a minimum Brinell hardness number of 370.
 10. Incorporate twist-off nuts, the same size as hex-head nuts for T-bolts, into the design to ensure proper actuating torque is applied during installation.
 11. Approved manufacturers for PVC pipe:
 - a. Megalug by EBAA Iron Inc. Series 2000PV.
 - b. One-Lok by Sigma Series SLCE.
 - c. Stargrip by Star Products Series 4000.
 - d. TUFgrip by Tyler Union Series 2000.
 - e. EZ Grip by SIP Industries Series EZP.
 - f. Or approved equal.
 12. Approved manufacturers for ductile iron pipe:
 - a. Megalug by EBAA Iron Inc. Series 1000.
 - b. One-Lok by Sigma Series SLDE.
 - c. Stargrip by Star Products Series 3000.
 - d. TUFgrip by Tyler Union Series 1000.
 - e. EZ Grip by SIP Industries Series EZD.
 - f. Or approved equal.
- B. PVC Pipe Joint
1. Provide restraint for in-line PVC pipe through the use of groove and spline or grip ring located in the bell that provides full-circumferential restrained joint.
 2. Restraint joints to have a minimum pressure rating of 150 psi.
 3. Manufacturers:
 - a. Certa-Lok by North American Specialty Products.
 - b. Diamond Lok-21 by Diamond Plastics.
 - c. Eagle Loc 900 by JM Eagle.
 - d. Or approved equal.
- C. Ductile Iron Pipe Joint
1. Restraint for in-line ductile iron pipe shall consist of the manufacturer's proprietary-restrained joint.
 2. Restraint joints to have a minimum pressure rating of 250 psi.

2.06 POLYETHYLENE PIPE ENCASEMENT MATERIAL (DUCTILE IRON PIPE AND FITTINGS)

- A. Polyethylene encasement manufactured in accordance with AWWA C105.
- B. Linear low-density polyethylene film.
- C. Minimum thickness of be 8 mils.
- D. Color: Blue.

- E. Physical Properties:
1. Tensile strength 3600 psi, minimum.
 2. Elongation 800 percent, minimum.
 3. Dielectric strength 800 V/mil, minimum.
 4. Impact resistance 600 g, minimum.
 5. Propagation tear resistance 2550 gf, minimum.

F. Use flat-width tubing of the following sizes:

<u>Pipe Size</u>	<u>Tubing Width</u>
3 inches	14 inches
4 inches	14 inches
6 inches	16 inches
8 inches	20 inches
12 inches	27 inches
16 inches	34 inches
20 inches	41 inches
24 inches	54 inches
30 inches	67 inches
36 inches	81 inches

G. Provide markings containing the following information spaced every 2 feet apart:

1. Name of manufacturer.
2. Year of manufacture.
3. ANSI/AWWA C105-A21.5.
4. 8 mil linear low-density polyethylene (LLDPE).
5. Applicable range of nominal pipe diameter.
6. Warning – Corrosion Protection – Repair Any Damage.

H. Sheet material can be used to wrap irregular-shaped valves and fittings.

I. Use 2-inch-wide, 10-mil-thick pressure-sensitive polyethylene tape to close seams and hold overlaps.

2.07 TRACER SYSTEM

A. Tracer Wire:

1. Open Cut:
 - a. No. 12 AWG Solid Single Copper Conductor
 - (1) Insulation: 45 mil, high-density, high molecular weight polyethylene (HDPE) and rated for direct burial at 30 volts.
 - (2) Tensile Strength: 150 pounds, minimum.
 - (3) Color: Blue.
2. Directional Drilling/Boring:
 - a. No. 12 AWG extra-high-strength copper clad steel conductor (EHS-CCS).
 - (1) Insulation: 45 mil, high-density, high molecular weight polyethylene (HDPE) and rated for direct burial at 30 volts.
 - (2) EHS-CCS Conductor: 21 percent conductivity for locating purposes with a minimum 1150 pounds break load.
 - (3) Origin of copper clad steel manufacture is required and steel core must be manufactured in the United States.
 - (4) Color: Blue.
 - b. Install tracer wire on pipe installations with a combination of open cut and directional drilling to meet directional drilling requirements.

B. Ground Rod: 3/8-inch minimum diameter, 8-foot minimum length steel rod uniformly coated with metallically bonded electrolytic copper.

C. Ground Rod Clamp: High-strength, corrosion-resistant copper alloy.

- D. Wire Splice Connector:
1. Tracer wire splices shall only be used to connect the anode ground rod to the tracer wire, at tees/crosses and at places where tracer wire has been damaged during construction. All splices must be brought to the attention of inspector and a GPS shot recorded for DMWW records.
 2. Tracer wire splices will not be allowed for:
 - a. Splices between the end of a roll of wire and the beginning of a new roll. If wire roll does not contain enough wire to reach next required splice point or a Triview connection terminal, contractor shall start a new wire roll.
 - b. Between anode ground rods and Triview connection terminal.
 - c. At hydrant tees.
 3. Splices used for tracer wire repair must be approved by Engineer.
 - a. Splice Kit: 3M Scotchcase 3832 Buried Service Wire Splice Kit with Burndy KS15 8-14 AWG Splice Bolt.
 - b. Splice Kit: DryConn Direct Bury Lug Aqua (SKU 90220)
 - c. Or approved equal.
- E. Tracer Wire Connection:
1. Rhino TriView TracerPed, or approved equal.
 - a. Three internal terminals with two shunts.
 - b. 5-foot white plastic triangular post.
 - c. Removable top cap with lock.
 - d. Three 2-7/8-inch by 14-inch custom vinyl decals No. SD-5594K.
 - e. Tri-grip anchor.

PART 3 EXECUTION

3.01 HANDLING, STORAGE, AND SHIPPING

- A. Handle pipe carefully.
- B. Use blocking and hold-downs during shipment to prevent movement or shifting.
- C. Pipe with damage to cement mortar lining will be rejected with field-patching not permitted.
- D. Do not telescope small pipe inside larger pipe for shipment and storage.
- E. Handle pipe materials by use of nylon straps, wide canvas or padded slings, wide-padded forks and skids, or other approved means designed to prevent damage to the polyethylene encasement. Unpadded chains, sharp edges or buckets, wire ropes, narrow forks, hooks, and metal bars are unacceptable.
- F. Dropping or rolling of pipe material is not permitted.
- G. Do not store PVC pipe in direct sunlight for prolonged periods of time.
- H. Protect pipe to prevent dirt entering the pipe.

3.02 GENERAL PIPE INSTALLATION

- A. Protect pipe joints from injury while handling and storing.
- B. Use no deformed, defective, gouged, or otherwise impaired pipe.
- C. Excavate and prepare trench as specified in Section 02 22 00.
- D. Install ductile iron pipe in accordance with AWWA C600.
- E. Install PVC pipe in accordance with AWWA C605.

- F. Prepare trench bottom with sufficient exactness before pipe is installed so that only minor movement of the pipe will be necessary after installation.
- G. Clean pipe interior prior to placement in trench.
- H. Install pipe to line and grade shown on plans with an allowable tolerance of 6 inches, plus or minus.
- I. Maintain uniform bearing along full length of pipe barrel at all times. Blocking the pipe up will not be acceptable. Excavate trench bottoms deeper at location of bell joints to permit body of pipe to rest uniformly supported upon trench bottom. Use bell holes no longer than is necessary for practical installation of the pipe.
- J. Clean joint surfaces of dirt and foreign matter using a wire brush before jointing pipe.
- K. Lubricate gasket and pipe bell. Provide food grade lubricant meeting manufacturer's recommendations. Use lubricant approved for use with potable water.
- L. Make joints in strict accordance with manufacturer's recommendations.
- M. Deflect joints within manufacturer's specifications for maximum deflections.
- N. Tighten bolts on mechanical joints evenly around pipe by alternating from one side of the pipe to the other.
- O. Cut pipe in a neat manner, without damage to pipe or cement mortar lining, if any. Leave a smooth end at right angles to axis of pipe. Bevel cut pipe ends for push-on-type joints in accordance with manufacturer's recommendations.
- P. Do not install pipe in water, nor allow water to rise in trench above bottom of pipe.
- Q. Place watertight bulkheads on exposed ends of pipe at all times when pipe installation is not actually in progress.
- R. Backfill and compact around pipe as outlined in Section 02 22 00.

3.03 INSTALLATION OF POLYETHYLENE PIPE ENCASEMENT MATERIAL

- A. Use polyethylene encasement material on buried ductile iron pipe, fittings, rods, and appurtenances in accordance with AWWA C105, Method A.
- B. Use polyethylene tubing to encase pipe.
- C. Cut tubing 2 feet longer than pipe section. Overlap tubing one (1) foot at each end of pipe.
- D. Gather and lap tubing to provide a snug fit.
- E. Secure lap at quarter points with polyethylene tape. Secure each end of tube with a complete wrap of polyethylene tape.
- F. Use polyethylene encasement to prevent contact between the pipe and bedding material. The polyethylene encasement is not intended to be a completely airtight and watertight enclosure.
- G. Repair damaged polyethylene encasement material using polyethylene tape or replace damaged section(s).
- H. Pick and move polyethylene-encased pipe with nylon slings; wire rope is not permitted.

3.04 THRUST BLOCKS

- A. Provide concrete thrust blocks or collars at changes in alignment, tees, and dead ends.
- B. Carry thrust blocks or collars to undisturbed soil that will provide adequate bearing.
- C. The bearing area of thrust blocks or collars, in square feet, to be as shown on plans. Minimum thickness for thrust block to be 1.5 times outside pipe diameter or 18 inches, whichever is greater.
- D. Hold thrust blocks or collars back 3 inches from all bolts, nuts, glands, or other jointing materials. Ensure joints could be remade without disturbing thrust block or collar.
- E. Provide bond breaker between thrust block or collar and pipe. Polyethylene encasement material will be considered an acceptable bond breaker.
- F. Provide thrust blocks at all connections to existing water mains.

3.05 TRACER SYSTEM INSTALLATION

- A. Install tracer wire with buried piping.
- B. Duct tape tracer wire to pipe every 5 feet in the 5 or 7 o'clock position to prevent damage to wire during backfill and future construction exposure.
- C. Tracer wire installation shall be performed in such a manner that allows proper access for connection of line tracing equipment, and proper locating of wire without loss, deterioration, or migration of the signal for distances in excess of 1,000 linear feet.
- D. Install ground rods as follows:
 - 1. At the starting point and ending point of each direct run of pipe, regardless of the length of the pipe segment.
 - 2. At select hydrants, approximately every 1,000 feet.
 - 3. Adjacent to tee or cross fittings. Tracer wire would typically not be spliced together at these fittings.
 - 4. At connection fittings to existing water main installed without tracer wire. Where minor alterations to existing water main installed without tracer wire are being performed, no tracer system will be installed.
- E. Terminate tracer wire in tracer wire connection next to each fire hydrant or other locations noted in paragraph D.
- F. Wire splice connectors are not allowed unless approved by Engineer. Provide long enough roll of tracer wire to not need the use of wire splice connectors.
- G. Allow Engineer to inspect underground splices prior to backfilling.
- H. Tracer wire installation is considered incidental to water main installation.

3.06 TESTING AND CHLORINATION

- A. Perform hydrostatic and leakage tests in accordance with Section 02 67 40.
- B. Disinfect all water mains in accordance with Section 02 67 50.
- C. A tracer wire test will be conducted by Owner prior to acceptance. The tracer wire system including terminations at all TriViews, anode ground rods, and splice kits are to be completely installed prior to tracer wire test. Any deficiency found in tracer wire system to be corrected by Contractor at Contractor's expense.

**** END OF SECTION ****

PART 1 GENERAL

1.01 SUMMARY OF WORK

- A. This Section includes valves and hydrants as shown on the plans, complete with accessories.

1.02 RELATED SECTIONS

- A. Section 02 22 00 – Excavating, Backfilling, and Compacting for Water Mains.
- B. Section 02 60 00 – Protection of Water Supply.
- C. Section 02 61 00 – Ductile Iron and Polyvinyl Chloride Pipe for Water Mains.
- D. Section 02 67 40 – Pressure Testing
- E. Section 02 67 50 – Disinfection

1.03 REFERENCES

- A. American National Standards Institute (ANSI) B16.1 – Cast Iron Pipe Flanges and Flanged Fittings.
- B. American Society for Testing and Materials (ASTM) A320 – Alloy-Steel and Stainless-Steel Bolting for Low-Temperature Service.
- C. American Society for Testing and Materials (ASTM) A536 – Standard Specification for Ductile Iron Castings.
- D. American Society for Testing and Materials (ASTM) B584 – Copper Alloy Sand Castings for General Applications.
- E. American Water Works Association (AWWA) C105 – Polyethylene Encasement for Ductile-Iron Pipe Systems.
- F. American Water Works Association (AWWA) C111 – Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings.
- G. American Water Works Association (AWWA) C115 – Flanged Ductile-Iron Pipe with Ductile-Iron or Gray-Iron Threaded Flanges.
- H. American Water Works Association (AWWA) C153 – Ductile Iron Compact Fittings.
- I. American Water Works Association (AWWA) C502 – Dry-Barrel Fire Hydrants.
- J. American Water Works Association (AWWA) C509 – Resilient-Seated Gate Valves for Water Supply Service.
- K. American Water Works Association (AWWA) C515 – Reduced-Wall, Resilient-Seated Gate Valves for Water Supply Service.
- L. American Water Works Association (AWWA) C550 – Protective Interior Coatings for Valves and Hydrants.
- M. American Water Works Association (AWWA) C600 – Installation of Ductile-Iron Water Mains and Their Appurtenances.

1.04 SUBMITTALS

- A. Submit manufacturer's certification that materials furnished are in compliance with applicable requirements of referenced standards and this Section.
- B. Provide dimensional drawings, fabrication details, functional description, and properly identified catalog data on all items to prove complete compliance with Drawings and Specifications.

1.05 MEASUREMENT AND PAYMENT

- A. All material, equipment, and labor necessary to comply with this Section incidental to unit price bids on the Proposal.

PART 2 PRODUCTS

2.01 GATE VALVES

- A. Provide resilient-seated gate valves manufactured in accordance with AWWA C509 or AWWA C515.
 - 1. Type of service: buried service handling potable water with a pH range of 9.5 to 9.8.
 - 2. Minimum pressure rating: 250 psi.
 - 3. Provide valves with non-rising stem.
 - 4. Provide 2-inch by 2-inch wrench operating nut that opens valves when turned in clockwise direction (open to the right), unless noted otherwise on Drawings.
 - 5. Valve gearing for 20-inch to 48-inch valves:
 - a. Provide valve with gear box.
 - b. Provide vertical valve unless otherwise specified on Drawings.
 - c. Use the following gear ratios for the corresponding sizes:

Valve Size (inches)	Gear Ratio
20	3 to 1
24	3 to 1
30	6 to 1
36	6 to 1
42	8 to 1
48	8 to 1

- d. Totally enclosed type, oil-filled, and designed for buried and submerged service.
 - e. Materials of construction:
 - (1) Gear housing: ductile iron.
 - (2) Gears: carbon steel.
 - (3) Pinion shaft: 304 stainless steel.
 - (4) Design input shaft with a ball bearing and sealed with O-rings.
 - (5) Exposed hex nuts and bolts: 304 stainless steel.
- B. Materials of Construction:
 - 1. Body and bonnet: ductile iron.
 - 2. Gate: cast or ductile iron fully encapsulated with synthetic rubber.
 - 3. Stem and stem nut: bronze.
 - 4. O-rings: Buna-N.
 - 5. Exposed hex bolts and nuts: 304 stainless steel.
 - 6. Joints:
 - a. Mechanical in accordance with AWWA C111.
 - (1) Gaskets: Buna-N or nitrile.
 - (2) Nuts and bolts:
 - (a) All T-bolts and hex-head nuts for mechanical joints in accordance with AWWA C111.
 - (b) Material: low carbon alloy weathering Cor-Ten steel.
 - (c) Coating: Cor-Blue fluorocarbon resin.
 - (d) Color: Blue.
 - (e) Approved Manufacturers:
 - 1) Birmingham Fastener Manufacturing Fluorocarbon Coated T-Head Bolt.
 - 2) Or approved equal.

- b. Flanged in accordance with AWWA C115, as indicated on the plans, with ANSI Class 125 full-faced flange.
 - (1) Gaskets: Buna-N or nitrile, of thickness compatible with machining tolerances of flange faces. Minimum thickness: 1/8-inch.
 - (2) Nuts and bolts: 304 stainless steel.
- C. Design valve to:
 - 1. Allow replacement of upper O-ring while valve is under pressure in the full-open position.
 - 2. Not permit metal-to-metal contact between gate and body.
 - 3. Accommodate full-size tapping machine shell cutter.
- D. Horizontal valves are required to have a cleaning system on both sides of the gate consisting of materials that are non-corrosive.
- E. Interior and exterior valve coating minimum of 10-mil-thick fusion-bonded epoxy per AWWA C550.
- F. Operating valve through 500 cycles at rated pressure must not result in disbondment or degradation of the coating. Certification will be required for manufacturers not listed below.
- G. Indicate manufacturer, casting year, size, working pressure, and body material (ductile iron) in valve casting.
- H. Manufacturers' Models for 4-inch to 16-inch valves:
 - 1. Clow Model 2638.
 - 2. American Flow Control Series 2500.
 - 3. Mueller 2300 Series.
 - 4. M & H Style 4067.
 - 5. EJ Flowmaster.
 - 6. Approved equal.
- I. Manufacturers' Models for 20-inch to 48-inch valves:
 - 1. Clow Model 2638.
 - 2. American Flow Control Series 2500.
 - 3. Mueller 2300 Series.
 - 4. EJ Flowmaster.
 - 5. Approved equal.

2.02 SWING CHECK VALVE

- A. Provide swing check valves manufactured in accordance with AWWA C508.
 - 1. Type of service: buried service handling potable water with a pH range of 9.5 to 9.8.
 - 2. Minimum pressure rating: 250 psi.
- B. Materials of Construction:
 - 1. Body and cover: ductile iron per ASTM A536.
 - 2. Disc: molded Buna-N (NBR) per ASTM D2000-BG.
 - 3. Disc accelerator: Type 302 stainless steel.
 - 4. Exposed hex bolts and nuts: stainless steel.
 - 5. Joints:
 - a. Flanged in accordance with AWWA C115, as indicated on the plans, with ANSI Class 125 full-faced flange.
 - (1) Gaskets: Buna-N or nitrile, of thickness compatible with machining tolerances of flange faces. Minimum thickness: 1/8-inch.
 - (2) Nuts and bolts: Conform to ASTM A320, Type 304.
- C. Provide full-size top access port to allow removal of the disc without removing the valve from the line.
- D. Provide one-piece disc with alloy steel and nylon reinforcement.

- E. Provide one-piece disc accelerator, enclosed within the valve, field adjustable, and replaceable without removing the valve from the line.
- F. Interior and exterior valve coating shall be ANSI/NSF approved fusion-bonded epoxy.
- G. Manufacturers:
 - 1. Val-Matic Series #7200 Surgebuster Swing Check Valve.
 - 2. Approved equal.

2.03 HYDRANTS (DES MOINES/WINDSOR HEIGHTS)

- A. Hydrants manufactured in accordance with AWWA C502.
- B. Use dry-barrel, breakaway type hydrants designed to break near ground line on impact. The breaking ring consists of a full circumference one piece or split contact retaining ring.
- C. Provide flanged connections for head and base to hydrant barrel.
- D. Provide 6-inch mechanical joint shoe with harnessing lugs.
- E. Provide 4-1/2-inch-minimum-diameter main valve with bronze seat ring. Thread seat ring directly to bronze bushing or drain ring that is securely locked to hydrant shoe.
- F. Provide pentagon-shaped operating nut with weather cap. Dimension from point to flat at top of operating nut: 1-3/16-inch.
- G. Provide two 2-1/2-inch hose nozzles and one 4-inch pumper nozzle with caps having nut with dimensions identical to operating nut:
 - 1. Hose nozzle threads
 - a. Outside diameter of male thread: 3-1/16 inches
 - b. Diameter at root of male thread: 2-7/8 inches
 - c. Threads per inch: 7-1/2
 - d. Length of nozzle threads: 1 inch
 - e. Cut off at top of threads: 1/4 inch
 - 2. Pumper nozzle threads
 - a. Outside diameter of male thread: 4-31/32 inches
 - b. Diameter at root of male thread: 4-19/32 inches
 - c. Threads per inch: 4
 - d. Length of nozzle threads: 1-1/2 inches
 - e. Cut off at top of threads: 1/4 inch
- H. Provide markings cast-in-bonnet that indicate direction of opening. Hydrants to open clockwise (to the right).
- I. Provide anti-thrust washers for ease of operation.
- J. Provide grease chamber or oil reservoir, sealed by means of O-rings, for lubrication of operation threads. Provide lubricant suitable for contact with potable water.
- K. Painting:
 - 1. Prepare surfaces to be coated according to SSPC-SP6, commercial blast cleaning.
 - 2. Coat hydrant in accordance with AWWA C502 and coating manufacturer's instructions.
 - 3. Tnemec epoxy paint system (Alternative 1)
 - a. Coat interior surfaces, other than machined surfaces, with asphaltic coating.
 - b. Coat exterior surfaces below grade with two coats of asphaltic coating.
 - c. Prime exterior surfaces above grade using an aromatic urethane, zinc-rich system with 2.5 to 3.5 mils dry film thickness. Tnemec Series 90-97.
 - d. Paint exterior surfaces above grade using an aliphatic acrylic polyurethane system at 2.5 to 3.5 mils dry film thickness. Tnemec Series 73.

- e. Apply a 2 to 3 mils dry film thickness of high gloss clear coat to exterior surfaces above grade after paint has been allowed to dry thoroughly. Tnemec Series 1079.
 - f. Color:
 - (1) Asphaltic coating: Black.
 - (2) Primer: Reddish-gray.
 - (3) Body: Bright Yellow (03SF).
 - (4) Bonnet: Safety Green (09SF).
 - (5) Caps: Bright Yellow (03SF).
 - 4. Tnemec epoxy paint system (Alternative 2)
 - a. Coat interior surfaces, other than machined surfaces, with asphaltic coating.
 - b. Coat exterior surfaces below grade with two coats of asphaltic coating.
 - c. Prime exterior surfaces above grade using a polyamide epoxy system, Tnemec Series 20, FC20 or 66, and paint using an aliphatic acrylic polyurethane system, Tnemec Series 75, or approved equal. Provide total dry mil thickness of 5 to 7 mils.
 - d. Apply a 2 to 4 mils dry thickness of clear coat to exterior surfaces above grade after paint has been allowed to dry thoroughly.
 - e. Color:
 - (1) Asphaltic coating: Black.
 - (2) Primer: White (AA83).
 - (3) Paint: Bright Yellow (SC02).
 - (4) Bonnet: Safety Green (SC07).
 - (5) Caps: Bright Yellow (SC02).
 - 5. Approved equal.
 - a. System must be approved by DMWW prior to bid opening.
- L. Materials of Construction:
- 1. Breakaway stem coupling: steel, cast iron, or stainless steel.
 - 2. Bonnet barrel, shoe, gate, and nozzle caps: cast iron.
 - 3. Threaded internal components exposed to water, valve seats, and nozzles: bronze.
 - 4. Cotter pins, drive pins, bolts, and screws exposed to water: stainless steel or brass.
 - 5. Exterior bolts, nuts, set screws, and other miscellaneous fasteners: stainless steel or bronze. Metal components in contact with water to comply with requirements of ASTM B584 copper alloy UNS No. C89520 or UNS No. C89833. Residual lead levels of the metal not to exceed 0.25 percent by weight as cast or extruded.
- M. Manufacturers:
- 1. Clow Medallion.
 - 2. Mueller Centurion.
 - 3. Approved equal.

2.04 JOINTS FOR VALVES AND HYDRANTS

- A. Use mechanical joints in accordance with AWWA C111, or restrained as indicated on plans.
- B. Use ductile iron follower glands for mechanical joints.
- C. Bolts:
 - 1. All T-bolts and hex-head nuts for mechanical joints in accordance with AWWA C111.
 - a. Material: low carbon alloy weathering Cor-Ten steel.
 - b. Coating: Cor-Blue fluorocarbon resin.
 - c. Color: Blue.
 - d. Approved Manufacturers:
 - (1) Birmingham Fastener Manufacturing Fluorocarbon Coated T-Head Bolt.
 - (2) Or approved equal.
 - 2. All bolts and hex nuts for flanged joints of 304 stainless steel.
- D. Use flange joints having 1/8-inch rubber ring gaskets for nominal diameters of 24 inches or less and 1/8-inch rubber ring gaskets for nominal diameter greater than 24 inches.
- E. Use elastomeric or nitrile gaskets in accordance with AWWA C111.

2.05 RETAINER GLANDS

- A. Incorporate restraint for all mechanical joints into design of follower gland.
- B. Use a retainer gland design imparting multiple wedging actions against the pipe, increasing its resistance as pressure increases.
- C. Restrained joints to consist of a mechanical joint with retainer gland or manufacturer's proprietary-restrained joint.
- D. Dimensions conforming to the requirements of AWWA C111 and AWWA C153.
- E. Pressure rating:
 - 1. Minimum of 235 psi for PVC pipe.
 - 2. Minimum of 350 psi for ductile iron pipe for sizes 16-inch and smaller.
 - 3. Minimum of 250 psi for ductile iron pipe for sizes 18-inch and larger.
- F. Color:
 - 1. Red for PVC pipe.
 - 2. Black for ductile iron pipe.
- G. Materials for construction:
 - 1. Body, wedge segments, and break-off bolt assemblies: Grade 65-45-12 ductile iron as specified by ASTM A536.
 - 2. Coating to be electrostatically applied and heat cured.
 - a. Approved manufacturers:
 - (1) MEGA-BOND by EBAA Iron, Inc.
 - (2) CORRSafe by Sigma.
 - (3) Starbond by Star Products.
 - (4) Resicoat R2-ES by Tyler Union.
 - (5) EZ Shield by SIP Industries.
 - (6) Or approved equal.
- H. Minimum factor of safety of 2.
- I. Use ductile iron retainer wedge segments heat-treated to a minimum Brinell hardness number of 370.
- J. Incorporate twist-off nuts, the same size as hex-head nuts for T-bolts, into the design to ensure proper actuating torque is applied during installation.
- K. Approved manufacturers for PVC pipe:
 - 1. Megalug by EBAA Iron Inc. Series 2000PV.
 - 2. One-Lok by Sigma Series SLCE.
 - 3. Stargrip by Star Products Series 4000.
 - 4. TUFGRip by Tyler Union Series 2000.
 - 5. EZ Grip by SIP Industries Series EZP.
 - 6. Or approved equal.
- L. Approved manufacturers for ductile iron pipe:
 - 1. Megalug by EBAA Iron Inc. Series 1000.
 - 2. One-Lok by Sigma Series SLDE.
 - 3. Stargrip by Star Products Series 3000.
 - 4. TUFGRip by Tyler Union Series 1000.
 - 5. EZ Grip by SIP Industries Series EZD.
 - 6. Or approved equal.

2.06 VALVE BOXES

- A. Provide cast iron screw-type adjustable heavy-duty valve box with cast iron stay-put cover marked "WATER" for each buried valve.
- B. Minimum inside diameter of valve boxes of 5-1/8 inches.
- C. Weight of valve box assembled, top and bottom sections, without valve box lid as follows:

Extension Height (inches)	Weight (pounds)
27-37	71
33-43	78
39-50	85
36-52	93
39-60	100

- D. Tyler No. 6850 29-U Domestic, or approved equal.
- E. For an approved equal, provide proof that all parts of proposed valve box can be interchangeable with Tyler No. 6850 29-U Domestic.
- F. Install valve boxes upon valve with use of a rubber Valve Box Adapter II as manufactured by Adaptor Inc., or approved equal.

2.07 POLYETHYLENE ENCASEMENT MATERIAL

- A. Polyethylene encasement manufactured in accordance with AWWA C105.
- B. Linear low-density polyethylene film.
- C. Minimum thickness of 8 mils.
- D. Color: Blue.
- E. Physical Properties:
 - 1. Tensile strength 3600 psi, minimum.
 - 2. Elongation 800 percent, minimum.
 - 3. Dielectric strength 800 V/mil, minimum.
 - 4. Impact resistance 600 g, minimum.
 - 5. Propagation tear resistance 2550 gf, minimum.
- F. Sheet material can be used to wrap irregular-shaped valves and fittings.
- G. Use 2-inch-wide, 10-mil-thick pressure-sensitive polyethylene tape to close seams and hold overlaps.

PART 3 EXECUTION

3.01 HANDLING, STORAGE, AND SHIPPING

- A. Handle valves and hydrants carefully.
- B. Use blocking and hold-downs during shipment to prevent movement or shifting.

3.02 GENERAL INSTALLATION REQUIREMENTS

- A. Protect valves and hydrants from injury while handling and storing.
- B. Use no defective, damaged, or otherwise impaired materials.

- C. Prepare excavation as outlined in Section 02 22 00.
- D. Install valves and hydrants in accordance with AWWA C600.
- E. Clean interior of valve or hydrant prior to placement in trench.
- F. Install valves and hydrants to line and grade as shown on plans.
- G. Install valves and hydrants plumb.
- H. Clean joint surfaces of dirt and foreign matter using a wire brush before jointing.
- I. Lubricate gasket and bell. Provide food grade lubricant meeting manufacturer's recommendations. Use lubricant approved for use with potable water.
- J. Make joints in strict accordance with manufacturer's recommendations.
- K. Evenly tighten bolts on mechanical joints or flanged joints around pipe by alternating from one side of pipe to the other. Follow manufacturer's installation specifications for electrical isolation flanges to prevent damage during bolt torquing.
- L. Backfill and compact around hydrants and valves as outlined in Section 02 22 00.

3.03 VALVE INSTALLATION

- A. Do not support valves off of piping.
- B. Ensure valve box is centered over operating nut.
- C. Install rubber Valve Box Adapter II as manufactured by Adapter Inc., or approved equal, inside of valve box centered on valve.
- D. If located within pavement, the top of valve boxes shall be installed 1/4 inch below the pavement surface.

3.04 HYDRANT INSTALLATION

- A. Anchor auxiliary valve to hydrant tee.
- B. Install hydrant with break flange more than 1 inch and less than 7 inches above finished grade.
- C. The use of hydrant extensions will not be allowed to set hydrant to appropriate height, unless approved by Engineer. Hydrant extensions, if approved, must be from same manufacture as the fire hydrant.
- D. Use restrained joints in hydrant branch.
- E. Set hydrant on a solid concrete cinder block not smaller than 8-inch by 16-inch by 4-inch.
- F. Provide poured concrete thrust blocks behind hydrant and hydrant tee.
- G. Ensure hydrant drain is free-flowing and unobstructed in areas where normal groundwater level is below drain opening.
- H. Provide not less than one (1) cubic yard of open-graded granular fill around base of hydrant for drainage.
- I. Lubricate and exercise each of the three (3) hydrant caps to prevent seizing. Provide food grade grease lubricant meeting manufacturer's recommendations. Use lubricant approved for use with potable water.

3.05 INSTALLATION OF POLYETHYLENE PIPE ENCASEMENT MATERIAL

- A. Use polyethylene encasement material on buried valves and buried portion of hydrants in accordance with AWWA C105.
- B. Wrap valves using polyethylene sheet material to prevent contact with bedding. Secure sheet to adjacent pipe and just below valve operation nut using polyethylene tape.
- C. Wrap buried portions of hydrants using 24-inch flat-width polyethylene tubing. Secure tubing to hydrant barrel just below grade using polyethylene tape.
- D. The polyethylene encasement preventing contact with bedding material is not intended to be an airtight and watertight enclosure.
- E. Repair damaged polyethylene encasement material using polyethylene tape, or replace the damaged section.

3.06 THRUST BLOCKS

- A. Provide concrete thrust blocks at hydrants and hydrant tees.
- B. Carry thrust blocks to undisturbed soil that will provide adequate bearing.
- C. The bearing area of thrust blocks, in square feet, as shown on the plans. Minimum thickness for thrust block of 1.5 times outside pipe diameter or 18 inches, whichever is greater.
- D. Hold thrust blocks back 3 inches from bolts, nuts, glands, or other jointing materials. Ensure joints could be remade without disturbing thrust block.
- E. Provide bond breaker between thrust block and pipe or hydrant. Polyethylene encasement material will be considered an acceptable bond breaker.

3.07 REMOVAL OF ABANDONED FIRE HYDRANTS AND VALVE BOXES

- A. Surface restoration items including pavement removal and replacement, seeding, or sodding, needed to remove abandoned fire hydrants or valve boxes to be paid in accordance with appropriate bid item in Contract.
- B. All other items related to removal of abandoned fire hydrants and valve boxes including repairs to traffic loops and lawn irrigations systems incidental to Contract.
- C. Remove abandoned fire hydrants by disconnecting pipe from fire hydrant at the shoe.
- D. Return abandoned fire hydrants to Des Moines Water Works at 408 Fleur Drive, unless Engineer approves their disposal.
- E. Backfill and restore all excavations for fire hydrant removals according to Sections 02 22 00 and 02 50 00 of these Specifications.
- F. Remove abandoned valve box and entire top section, backfill the lower section and excavation, and restore according to Sections 02 22 00 and 02 50 00 of these Specifications.

**** END OF SECTION ****

PART 1 GENERAL

1.01 SUMMARY OF WORK

- A. Transferring existing water services from existing water mains to new water mains to the extent shown in the Plans.

1.02 RELATED SECTIONS

- A. Section 02 22 00 – Excavating, Backfilling, and Compacting for Water Mains.
- B. Section 02 60 00 – Protection of Water Supply.
- C. Section 02 61 00 – Ductile Iron and Polyvinyl Chloride Pipe for Water Mains.
- D. Section 02 64 00 – Valves and Hydrants.
- E. Section 02 67 40 – Pressure Testing Water Mains.
- F. Section 02 67 50 – Disinfection of Water Distribution Systems.

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM) B62 – Composition Bronze or Ounce Metal Castings.
- B. American Society for Testing and Materials (ASTM) B88 – Seamless Copper Water Tube.
- C. American Society for Testing and Materials (ASTM) B584 – Copper Alloy Sand Castings for General Applications.
- D. American Water Works Association (AWWA) C800 – Underground Service Line Valves and Fittings.
- E. Federal Register – Occupational Safety and Health Administration (OSHA), Occupational Safety and Health Standards – Excavations.

1.04 SUBMITTALS

- A. Submit the following items for materials provided by the Contractor:
 - 1. Manufacturer's certification that materials furnished are in compliance with the applicable requirements of the referenced standards and this Section.
 - 2. Drawings and manufacturer's data showing details of pipe and fittings to comply with this Section.
- B. Provide dimensional drawings, fabrication details, functional description, and properly identified catalog data on all equipment to prove complete compliance with Drawings and Specifications.

1.05 MEASUREMENT AND PAYMENT

- A. Payment for installation of 1-inch to 2-inch water service transfer is made as a unit, including the connection to new water main with insulated corporation and corporation 90, installation of new curb stop and stop box, installation of pipe, connection to existing water service, excavation, backfill, and compaction.
- B. Payment for installation of 4-inch and larger water service transfer is made as a unit, including the tee, valve, DI pipe, valve box, valve box adapter, needed fittings, poly wrap, bonded joints, and thrust restraint.
- C. All work related to water service transfer is considered incidental to the installation of the water service transfer.

PART 2 PRODUCTS

2.01 CORPORATION VALVES

- A. Type: one-quarter-turn ball valve in accordance with AWWA C800.
- B. Inlet Threads: standard AWWA corporation valve inlet threads.
- C. Outlet Threads: flared copper connection.
- D. Provide corporations to be used on iron pipe with a dielectric insulator that prevents the passage of electric current.
- E. Metal components in contact with water to comply with the requirements of ASTM B584 copper alloy UNS No. C89520 or UNS No. C89833. Residual lead levels of the metal not to exceed 0.25 percent by weight as cast or extruded.
- F. Metal components not in contact with water to comply with the requirements of ASTM B62 copper alloy UNS No. C38600 or the material as described in Part 2.01.E.
- G. Meet Des Moines Water Works Rules and Regulations for Water Services.
- H. Approved Manufacturers for Corporation Valves on Non-iron Pipe:
 - 1. A.Y. McDonald Mfg. Co., Model No. 74701B.
 - 2. The Ford Meter Box Company, Inc., Catalog No. FB600-NL.
 - 3. Mueller Co., Model No. 300 Catalog No. B-25000N.
- I. Approved Manufacturers for Corporation Valves on Iron Pipe:
 - 1. A.Y. McDonald Mfg. Co., Model No. 74701BDB.
 - 2. The Ford Meter Box Company, Inc., Catalog No. SI-FB600-NL.
 - 3. Mueller Co., Model No. 300 Catalog No. N-35000N.

2.02 COPPER PIPE

- A. Copper Tubing: ASTM B88, Type K, annealed.
- B. Joints: flared.
- C. Meet Des Moines Water Works Rules and Regulations for Water Services.

2.03 FITTINGS (2-INCH AND SMALLER)

- A. Joints: flared.
- B. Metal components in contact with water to comply with the requirements of ASTM B584 copper alloy UNS No. C89520 or UNS No. C89833. Residual lead levels of the metal not to exceed 0.25 percent by weight as cast or extruded.
- C. Metal components not in contact with water to comply with the requirements of ASTM B62 copper alloy UNS No. C38600 or the material as described in Part 2.03.B.
- D. Meet Des Moines Water Works Rules and Regulations for Water Services.

2.04 CURB STOP

- A. Type: "T" handle, quarter-turn, ball pattern valves conforming to AWWA C800, with flared copper inlet and outlet connections.
- B. Provide pre-drilled valve head for attaching stationary shutoff rod.

- C. Provide valve head checks that limit rotation to 90 degrees. Valve head to be parallel to valve body when open; valve head to be perpendicular to valve body when closed (Operate right to shutoff).
- D. Metal components in contact with water to comply with the requirements of ASTM B584 copper alloy UNS No. C89520 or UNS No. C89833. Residual lead levels of the metal not to exceed 0.25 percent by weight as cast or extruded.
- E. Metal components not in contact with water to comply with the requirements of ASTM B62 copper alloy UNS No. C38600 or the material as described in Part 2.04.D.
- F. Meet Des Moines Water Works Rules and Regulations for Water Services.
- G. Approved Manufacturers:
 - 1. A.Y. McDonald Mfg. Co., Model No. 76100.
 - 2. A.Y. McDonald Mfg. Co., Model No. 76104.
 - 3. The Ford Meter Box Company, Inc., Catalog No. B22-444M-NL or B22-777M-NL.
 - 4. The Ford Meter Box Company, Inc., Catalog No. B22-444-NL or B22-777-NL.
 - 5. Mueller Co., Model No. 300 Catalog No. B-25204N.
 - 6. Mueller Co., Model No. 300 Catalog No. B-25154N.

2.05 CURB BOX

- A. Body:
 - 1. Upper section: 1-inch-inside-diameter steel pipe.
 - 2. Base section: arch base pattern, with telescoping 1-inch upper section, stainless steel rod and pin, and lid.
 - 3. Adjust to accommodate:
 - a. 5-foot-minimum service depth.
 - b. 7-foot-maximum service depth.
 - 4. Provide a positive means of preventing rotation of upper section during removal of lid.
- B. Lid:
 - 1. Material: cast iron.
 - 2. Style: two-hole Erie pattern, to fit spanner wrench.
 - 3. Provide 1-inch NPT female-threaded brass bushing to screw onto curb box with 1-inch-diameter upper section. Bushing shall be secure and rotate integrally with lid.
 - 4. Acceptable lids:
 - a. A.Y. McDonald Mfg. Co., Model No. 5601L.
 - b. The Ford Meter Box Company, Inc., Type HS.
 - c. Mueller Co., Model Part No. 89982.
 - d. Or approved equal.
- C. Stationary Shutoff Rod
 - 1. Material: 304 stainless steel, single-piece construction.
 - 2. Diameter: approximately 1/2-inch.
 - 3. Rod:
 - a. Self-centered in curb box.
 - b. Extending above curb box joint. Distance between top of rod and top of box to be:
 - (1) No less than 12 inches.
 - (2) No greater than 24 inches.
 - 4. Provide a blade at the upper end of rod in a plane parallel to the curb stop valve head with thickness appropriate for operation using a stationary rod key.
 - 5. Provide a fork at the lower end of rod to fit over and operate the valve head of a standard curb stop. Provide holes in fork to align with hole in curb stop valve head.
 - 6. Connect rod to curb stop using stainless steel cotter pin, or approved equal, inserted through holes in rod fork and curb stop valve head.

- D. Meet Des Moines Water Works Rules and Regulations for Water Services.
- E. Approved Manufacturers:
 - 1. A.Y. McDonald Mfg. Co., Model No. 5601.
 - 2. The Ford Meter Box Company, Inc., Catalog No. EA1- #1 -40- #2 R, with #1 being extended length of stop box housing and #2 being rod length.
 - 3. Or approved equal.

2.06 LARGE WATER SERVICE TRANSFERS (4-INCH AND LARGER)

- A. Use products listed in Sections 02 61 00 and 02 64 00.
- B. Use ductile iron for all pipe.

PART 3 EXECUTION

3.01 GENERAL

- A. Qualifications:
 - 1. Plumbing work covered by this Section to be completed by a plumber who is bonded with Des Moines Water Works and licensed in accordance with local plumbing codes.
 - 2. Contractors will not be permitted to make their own 1-inch direct taps on mains installed under this Contract. Contact Des Moines Water Works 24 hours in advance to schedule taps.
- B. Plumbing Permits and Inspections:
 - 1. Obtain permits necessary for service transfers.
 - 2. Arrange for and schedule required plumbing inspections in accordance with local plumbing codes.
- C. Scheduling:
 - 1. Install services only after the new water main passes pressure test per Section 02 67 40 and disinfection per Section 02 67 50.
 - 2. The Contractor is to notify residential customers 24 hours in advance when their water service will be interrupted for service transfer.
 - 3. The Contractor is to notify commercial and industrial customers a minimum of 24 hours in advance when water service will be interrupted for service transfer and to coordinate the interruption completely with the customer. Commercial and industrial service transfers may need to be completed outside normal working hours to minimize impact on the affected customers. No additional compensation will be paid for work outside normal working hours.

3.02 EXAMINATION

- A. Confirm location, elevation, and orientation of existing utilities and modify elevation of new water services to omit conflicts with utilities while maintaining 5-foot-minimum cover.
- B. Verify location and size of existing service line prior to excavation and installation of new tap.

3.03 SIZE OF SERVICE LINES AND TAPS

- A. Transfer water service lines according to Plans and Specifications as follows:
 - 1. Complete 1/2-inch, 3/4-inch, and 1-inch service transfers with 1-inch taps and 1-inch pipe needed to make connection.
 - 2. Complete 1-1/2-inch and 2-inch service transfers with 2-inch taps and pipe same size as existing.
- B. Complete 4-inch and larger service transfers with valve, pipe, and fittings needed to make connection.

3.04 PREPARATION

- A. Excavate in accordance with Section 02 22 00.
- B. Cut pipe ends square, ream tube ends to full pipe diameter, and remove burrs.
- C. Remove scale and dirt on inside and outside before assembly.

3.05 INSTALLATION

- A. Schedule taps to be made by Owner a minimum of 24 hours in advance. Such taps will be made only between the hours of 8 a.m. and 3:30 p.m. and only on the Owner's normal work days.
- B. Shore excavations for taps to be made by Owner according to OSHA Trench Shoring Standards.
- C. Provide 12-inch clear area behind and below main and 48-inch clear area in front of main to be tapped.
- D. Install service lines in accordance with local plumbing codes.
- E. Use trenchless construction methods when installing water service lines underneath roads, driveways, shoulders, or other traffic-carrying surfaces.
- F. Corporation:
 - 1. Install corporations no closer than 18 inches from a pipe joint, another corporation, or side of excavation.
 - 2. One-inch corporations will be installed at a 45-degree angle above horizontal; 2-inch corporations will be installed horizontal.
 - 3. Corporation to face the property to be served.
 - 4. Corporation taps will not be allowed on dry mains.
- G. Pipe:
 - 1. Maintain minimum separation between water piping and sewer piping in accordance with IDNR requirements as described in Section 02 60 00.
 - 2. Maintain 5-foot-minimum cover below final grade. Do not exceed 7-foot cover without Owner's authorization.
- H. Curb Stop:
 - 1. Set curb stop on solid bearing.
 - 2. Center and plumb curb box over curb stop.
 - 3. Install stationary shutoff rod. Attach shutoff rod to curb stop as specified above.
 - 4. Set box cover flush with finished grade and plumb.
 - 5. Location:
 - a. In public right-of-way.
 - b. 1 to 6 feet from property line in the City of Des Moines.
 - c. 1 foot from property line in Polk County.
 - d. Not within driveway or sidewalk.
- I. Repair leaks that develop in new service lines or water mains due to water service installation operations.
- J. Coordinate necessary inspections to satisfaction of jurisdictional authority for water service lines.
- K. Install large service transfers in accordance with Section 02 61 00.

3.06 RETIREMENT OF EXISTING SERVICE LINES

- A. Effectively cap existing service stub after service is transferred to new main.
- B. Repair of leaks that develop in existing service lines or mains due to service transfer operations are the responsibility of the Contractor and costs are incidental to service line transfer.

3.07 BACKFILL, COMPACTION, AND RESTORATION

- A. Backfill and compact excavations as specified in Section 02 22 00 for trenches.
- B. Restore affected areas as specified elsewhere and as shown on Plans.

**** END OF SECTION ****

PART 1 GENERAL

1.01 SUMMARY OF WORK

- A. Pressure test water mains in accordance with this Section.

1.02 RELATED SECTIONS

- A. Section 02 61 00 – Ductile Iron and Polyvinyl Chloride Pipe for Water Mains.
- B. Section 02 64 00 – Valves and Hydrants

1.03 REFERENCES

- A. American Water Works Association (AWWA) C600 – Installation of Ductile Iron Water Mains and Their Appurtenances.
- B. American Water Works Association (AWWA) C605 – Underground Installation of Polyvinyl Chloride (PVC) Pressure Pipe and Fittings for Water.

1.04 SUBMITTALS (NOT USED)

1.05 MEASUREMENT AND PAYMENT

- A. Work under this Section incidental to Contract.

PART 2 PRODUCTS

NOT USED.

PART 3 EXECUTION

3.01 PRESSURE TESTING

- A. Perform Work in accordance with AWWA C600 and AWWA C605.
- B. Test piping at 150 psi or as indicated on plans for 2 hours.
- C. Fill and flush new piping with potable water, ensuring that all trapped air is removed.
- D. Isolate new piping from the existing system.
- E. Pressure test new piping in sections by isolating each section using in-line gate valves. Relieve pressure on non-test side of gate valve.
- F. Pressurize new piping to test pressure at lowest point in the isolated system. Do not pressurize to more than 5 psi over test pressure at lowest point in the isolated system.
- G. Monitor pressure in line being tested for a period of not less than 2 hours.
- H. If at any point during that 2-hour period the pressure drops to 5 psi below test pressure, re-pressurize by pumping water into the line in sufficient quantity to bring pressure back to between test pressure and 5 psi above test pressure. Accurately measure the quantity of water required to re-pressurize the main.
- I. At the end of the 2-hour period, if pressure in the line has dropped below test pressure, re-pressurize to test pressure. Accurately measure the quantity of water required to re-pressurize the main.

- J. Allowable leakage, in gallons, per hour of testing shall equal $(LD(P)^{1/2}) / 148,000$.
L = length of pipe section being tested in feet
D = nominal diameter of pipe in inches
P = average test pressure in psig
- K. Leakage equals total quantity of water required to keep line pressurized during the 2-hour test period and re-pressurize line at the end of the test period.
- L. If average leakage per hour is less than allowable leakage, the pressure test is acceptable.
- M. If average leakage per hour is more than allowable leakage, the pressure test is not acceptable.
Locate and make approved repairs as necessary until leakage is within specific allowance.
- N. If pressure in the isolated line never drops to test pressure, having started no more than 5 psi above test pressure, the pressure test is acceptable.
- O. Repair visible leaks regardless of the quantity of leakage.

**** END OF SECTION ****

PART 1 GENERAL

1.01 SUMMARY OF WORK

- A. Disinfect water mains and 2-inch and larger water services in accordance with this Section.

1.02 RELATED SECTIONS

- A. Section 02 22 00 – Excavating, Backfilling, and Compacting for Water Mains.
- B. Section 02 22 80 – Horizontally Directional Drilled Water Main.
- C. Section 02 61 00 – Ductile Iron and Polyvinyl Chloride Pipe for Water Mains.
- D. Section 02 64 00 – Valves and Hydrants
- E. Section 02 66 00 – Water Service Transfers.

1.03 REFERENCES

- A. American Water Works Association (AWWA) B300 – Hypochlorites.
- B. American Water Works Association (AWWA) B301 – Liquid Chlorine.
- C. American Water Works Association (AWWA) C651 – Disinfecting Water Mains.

1.04 SUBMITTALS (NOT USED)

1.05 MEASUREMENT AND PAYMENT

- A. Work under this Section incidental to Contract.

PART 2 PRODUCTS

2.01 CHLORINE

- A. Calcium hypochlorite granules conforming to AWWA B300.
- B. Liquid chlorine conforming to AWWA B301.

2.02 DE-CHLORINATION CHEMICALS

- A. Vita-D-Chlor (Ascorbic Acid) by Integra Chemical Company.
- B. Vita-D-Chlor, Neutral (Sodium Ascorbate) by Integra Chemical Company.
- C. No-Chlor (Ascorbic Acid) by Measurement Technologies.
- D. Approved equal.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Water for disinfection will be provided by Owner for two disinfection attempts. If additional attempts are necessary, the Contractor will be billed for water used at the normal rate set for industrial customers.
- B. Perform disinfection of piping and appurtenances only after satisfactory pressure testing.
- C. Ensure piping to be disinfected is isolated from portion of distribution system that is in service.
- D. Review procedures and coordinate disinfection with Owner.
- E. Perform Work in accordance with AWWA C651.
- F. Bacteriological samples shall be taken and tested by Owner to ensure satisfactory disinfection.

3.02 CHLORINATION OF PIPING

- A. Provide equipment and materials necessary to complete chlorination.
- B. Use continuous feed method as outlined in AWWA C651.
- C. Prior to feeding chlorine, fill and flush new piping to remove trapped air and particulates. Provide equipment and materials necessary to obtain a minimum flushing velocity of 3.0 fps in piping to be disinfected. When flushing velocities of 3.0 fps cannot be obtained, swab pipe until pipe is free of debris. Type of swab and procedures for use shall be approved by Owner prior to its use.
- D. Induce flow of potable water through new piping at required flushing velocity. Make provisions for diverting and disposing of flushing water that does not damage surroundings. Repair damage caused by flushing activities.
- E. At a point within five pipe diameters of connection to existing distribution system, introduce highly chlorinated water in sufficient quantity to provide at least 25 mg/L free chlorine in the new piping. Provide all metering and feed equipment and temporary chlorination taps. Remove temporary chlorination taps and cap the main once the main passes.
- F. Introduce highly chlorinated water continuously until entire section of new piping contains a minimum of 25 mg/L free chlorine. Do not exceed 100 mg/L free chlorine.
- G. Isolate newly chlorinated piping for a contact period of at least 24 hours, and not more than 48 hours, taking care not to backflow chlorinated water into existing potable water system.
- H. After the contact period, water in new piping must have a residual-free chlorine content of not less than 10 mg/L. If residual is less than 10 mg/L, rechlorinate as outlined above.

3.03 FLUSHING CHLORINATED PIPING

- A. After the contact period, flush recently chlorinated piping with potable water.
- B. Continue flushing until chlorine residual in new piping is equal to chlorine residual in existing distribution system.
- C. Isolate new piping from existing distribution system for a period of not less than 24 hours.

- D. Chlorinated water, flushed from new piping, shall be dechlorinated and disposed of so not to cause damage to the environment. Conform to state and federal requirements.
- E. De-chlorinate all water from flushing activities and testing before it is released into the ground, stream, or storm sewers. Method to be approved by Owner prior to any flushing activities.

3.04 BACTERIOLOGICAL TESTING

- A. Immediately following flushing of pipelines and again at least 24 hours after flushing pipelines, samples will be taken and tested by Owner.
- B. The Owner reserves the right to take and test additional samples 48 hours after flushing.
- C. Approximately one sample will be taken for each 1,200 feet of new water main.
- D. Additional samples may be taken at the discretion of Owner.
- E. Samples must show the absence of coliform organisms and other contaminants and meet requirements of the Iowa Department of Natural Resources to be considered acceptable.
- F. If any sample is not satisfactory with either sampling, the piping represented by that sample must be flushed and rechlorinated by the Contractor at the discretion of, and as directed by, the Owner.

**** END OF SECTION ****

GENERAL NOTES - BORING LOG DESCRIPTIONS

Soil descriptions stated on the Boring Logs are based on the Unified Soil Classification System as stated in ASTM Designations D-2487 and D-2488. The Unified Soil Classification group symbol listed in the table below correlate to the group symbols listed on the Boring Logs. The classification is mainly based on visual observations to define the soil characteristics. If a more detailed soil description is required, additional soil testing will be conducted to better define the soil characteristics.

Group Symbol	Group Name	Group Symbol	Group Name	Group Symbol	Group Name	Group Symbol	Group Name
SW	Well-graded Sand	GW	Well-graded Gravel	CL	Lean Clay	CH	Fat Clay
SP	Poorly-graded Sand	GP	Poorly-graded Gravel	ML	Silt	MH	Elastic Silt
SM	Silty Sand	GM	Silty Gravel	OL or OH	Organic Silt	Pt	Peat
SC	Clayey Sand	GC	Clayey Gravel		Organic Clay		

RELATIVE DENSITY OF COARSE-GRAINED SOILS		CONSISTENCY OF FINE-GRAINED SOILS		
SPT, bpf	Relative Density	Unconfined Compressive Strength, Q_u , psf	Consistency	SPT, bpf
0-3	Very Loose	< 500	Very Soft	0 – 2
4-9	Loose	500 - 1,000	Soft	2 – 4
10-29	Medium Dense	1,001 - 2,000	Medium Stiff	4 – 8
30-49	Dense	2,001 – 4,000	Stiff	8 – 15
50-80	Very Dense	4,001 – 8,000	Very Stiff	15 – 30
80+	Extremely Dense	8,001 – 16,000	Hard	30 – 100
		>16,000	Very Hard	>100

GRAIN SIZE TERMINOLOGY		RELATIVE PROPORTIONS		
Major Component of Sample	Size Range	Descriptive Terms(s) (of components also present in sample)	Fines Percent of Dry Weight	Sand and Gravel Percent of Dry Weight
Cobbles	12 in. to 3 in. (300 mm to 75 mm)	Trace	< 5	< 15
Gravel	3 in. to #4 sieve (75 mm to 4.75 mm)	With	5 – 12	15 – 29
Sand	#4 to #200 sieve (4.75 mm to 0.074 mm)	Modifier	> 12	> 30
Silt or Clay	Passing #200 sieve (> 0.074 mm)			

DRILLING AND SAMPLING ABBREVIATIONS

Drilling Methods

CFA – Continuous Flight Auger; typically, 4, 6, or 8 inches in diameter (ASTM D 1452)

HSA – Hollow Stem Auger; 6 or 8 inches in diameter, continuous flight auger remains in bore hole with undisturbed soil samples obtained from center of auger.

HA – Hand Auger; typically with a 4 inch or less diameter auger

Sample Types

SS - Split Spoon; samples obtained with a 140 lb manual hammer in accordance with ASTM D1586.

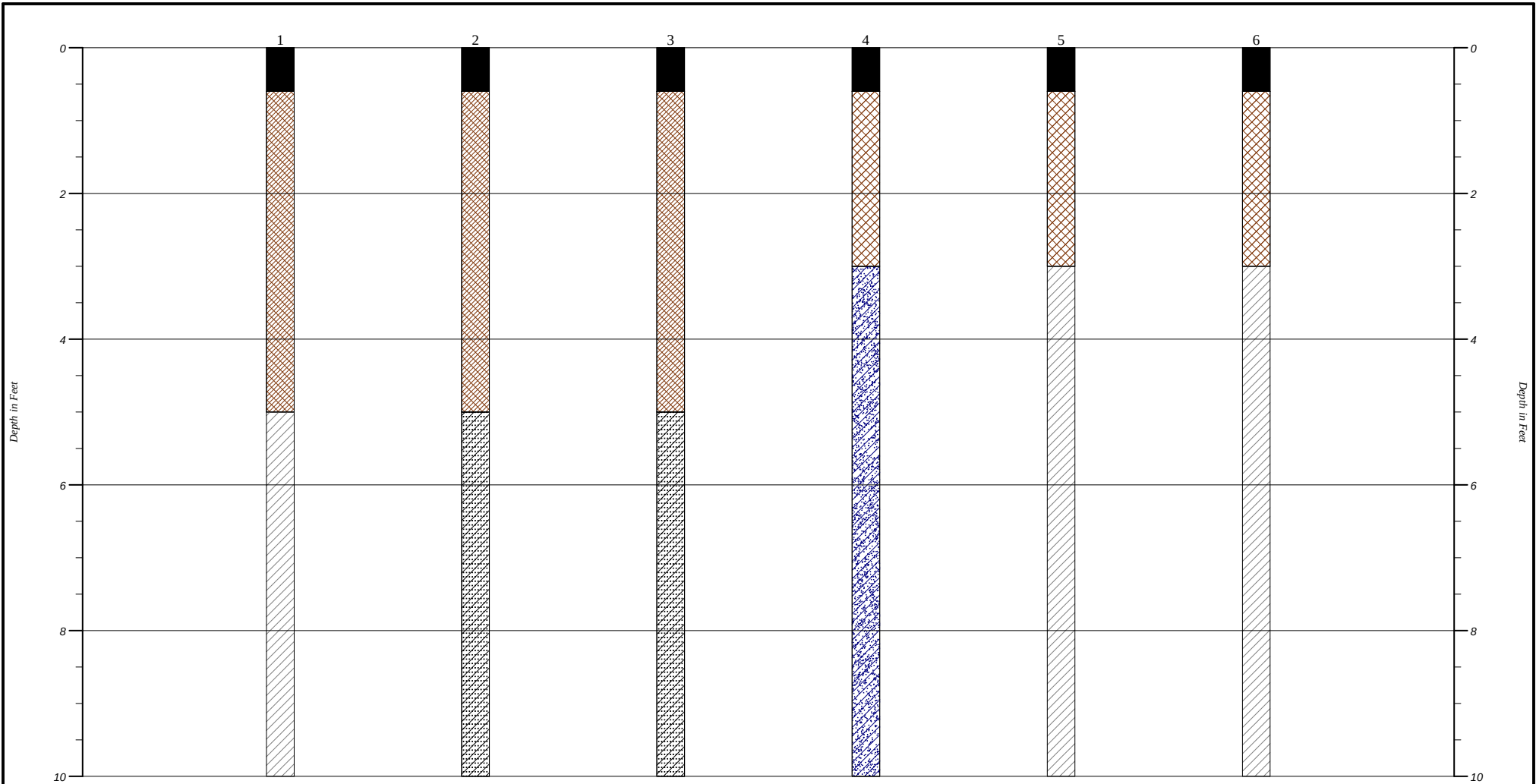
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ST – Shelby Tube; thin walled tube samples, typically for cohesive soils, in accordance with ASTM D1587.

SPT- Standard Penetration Test: The number of blows required to drive a sampler, either split spoon or drive cone, into the soil with a 140 lb mass dropped a distance of 30 inches, in accordance with ASTM D 1586, and the number of blows are recorded in each 6 inch interval over a distance of 18 inches. Blow counts are reported for each 6 inch interval or the sum of the last two intervals is reported. The sum of the last two intervals is referred to as N, in blows per foot.

BS – Bulk Disturbed Sample

CPT – Cone Penetration Test; A device in which a 60° cone is pushed continuously into the soil and the cone end resistance is measured for skin friction and end bearing (ASTM D3441).



Plan View

Strata symbols

-  Paving
-  Fill
-  Lean clay
-  Clayey sand

 Sandy lean clay

CONSTRUCTION MATERIALS TESTING GENERALIZED SOIL PROFILE

HORIZONTAL
SCALE:

DRAWN BY/APPROVED BY

DATE DRAWN

VERTICAL
SCALE: 1"=2'

3/26/2024

68th Street Reconstruction

PROJECT NO. 242018CWH

FIGURE NUMBER



Project 68th Street Reconstruction

Boring # 1

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±2.0 inches HMA, ±5.0 inches PCC		
2								Dark brown very sandy lean clay, moist to very moist	CL	
4	1	CS		26.8		2,000**		EXISTING FILL		
6								Very dark brown silty lean clay, trace sand, moist	CL	
8								COHESIVE ALLUVIUM		
10	2	CS		23.7		3,000**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

Boring # 2

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±1.5 inches HMA, ±6.0 inches PCC		
2								Dark yellowish brown very sandy lean clay, moist	CL	
4	1	CS		20.9		2,500**		EXISTING FILL		
6								Yellowish brown clayey sand, moist	SC	
8								GRANULAR ALLUVIUM		
10	2	CS		15.8		3,500**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

Boring # 3

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±1.5 inches HMA, ±5.0 inches PCC		
2								Dark yellowish brown very sandy lean clay, moist	CL	
4	1	CS		18.3		3,000**		EXISTING FILL		
6								Rusty-brown clayey sand, moist	SC	
8								GRANULAR ALLUVIUM		
10	2	CS		11.0		4,000**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

Boring # 4

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±1.5 inches HMA, ±5.0 inches PCC		
								Gray-rusty-brown sandy lean clay, moist	CL	
2								EXISTING FILL		
								Gray-rusty-brown sandy lean clay, trace gravel, moist	CL	
4	1	CS		21.6		2,000**				
6								COHESIVE ALLUVIUM		
8										
10	2	CS		22.9		2,000**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

Boring # 5

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±1.0 inches HMA, ±5.5 inches PCC		
								Dark yellowish brown sandy lean clay, moist	CL	
2								EXISTING FILL		
								Gray-rusty-brown silty lean clay, trace sand, moist	CL	
4	1	CS		20.7		3,000**				
6								COHESIVE ALLUVIUM		
8										
10	2	CS		22.1		2,500**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

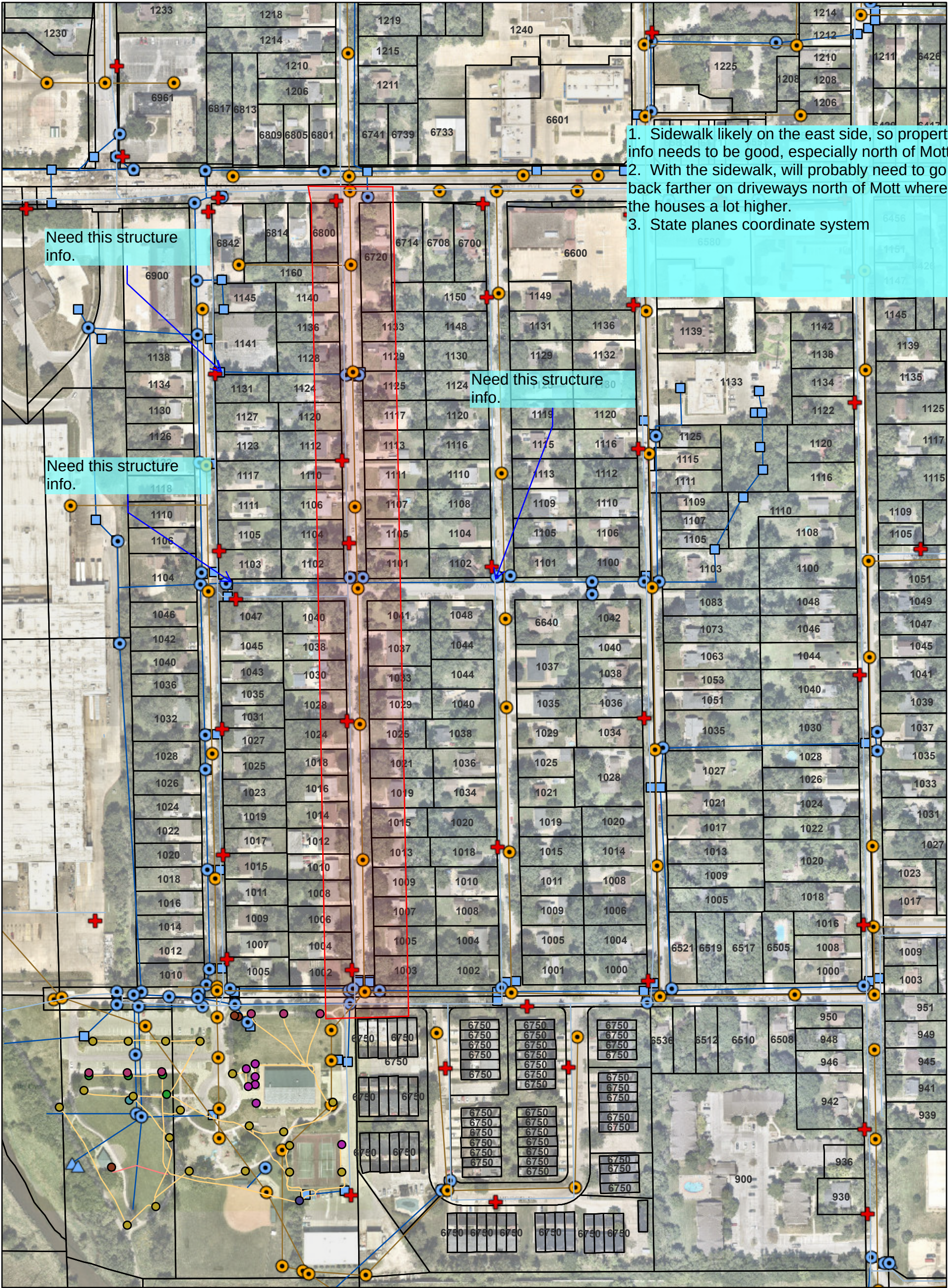
Boring # 6

Client City of Windsor Heights

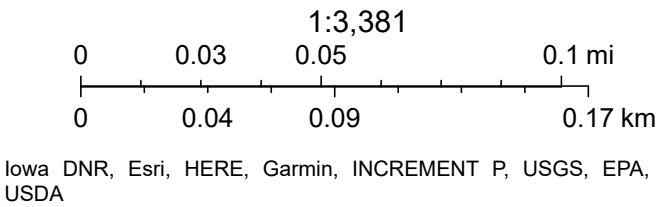
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8										
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Windsor Heights Utility Viewer



2/8/2024



APPENDIX
FOR
68TH STREET IMPROVEMENT PROJECT
CITY OF WINDSOR HEIGHTS
WINDSOR HEIGHTS, IOWA

GENERAL NOTES - BORING LOG DESCRIPTIONS

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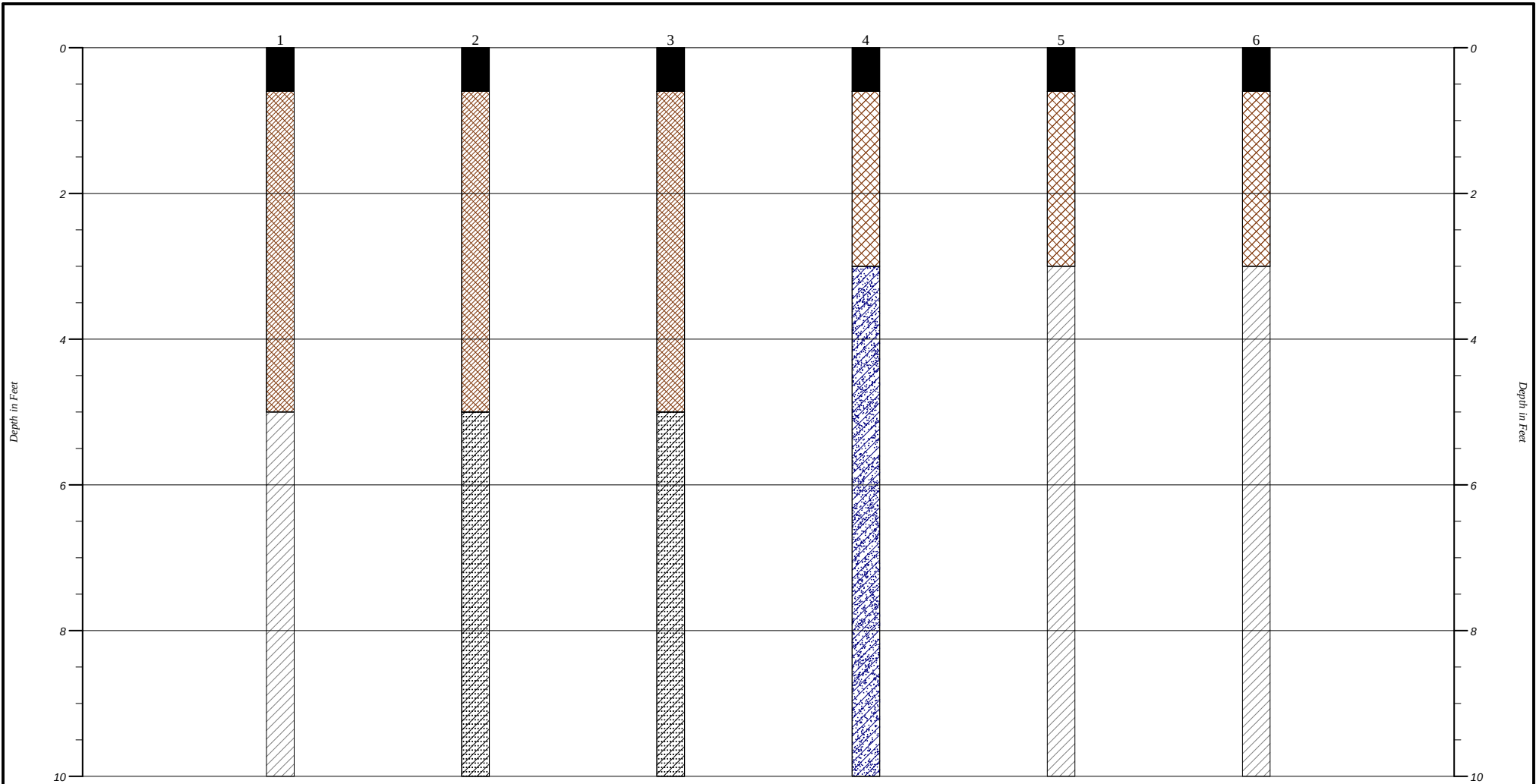
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Plan View

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-  Lean clay
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 Sandy lean clay

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HORIZONTAL
SCALE:

DRAWN BY/APPROVED BY

DATE DRAWN

VERTICAL
SCALE: 1"=2'

3/26/2024

68th Street Reconstruction

PROJECT NO. 242018CWH

FIGURE NUMBER



Project 68th Street Reconstruction

Boring # 1

Client City of Windsor Heights

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6								Very dark brown silty lean clay, trace sand, moist	CL	
8								COHESIVE ALLUVIUM		
10	2	CS		23.7		3,000**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		

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(515) 263-0794 • www.cmt-iowa.com



Project 68th Street Reconstruction

Boring # 2

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
0								±1.5 inches HMA, ±6.0 inches PCC		
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12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

Boring # 3

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
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8								GRANULAR ALLUVIUM		
10	2	CS		11.0		4,000**				
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Project 68th Street Reconstruction

Boring # 4

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
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8										
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12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		



Project 68th Street Reconstruction

Boring # 5

Client City of Windsor Heights

Surface Elev. Existing Ground Surface

Depth Ft.	Sample #	Method	SPT bpf	Moisture %	Dry Density pcf	Unconfined Compressive Strength	Cross Section	Material Description *	USCS	Water Level
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2								EXISTING FILL		
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Project 68th Street Reconstruction

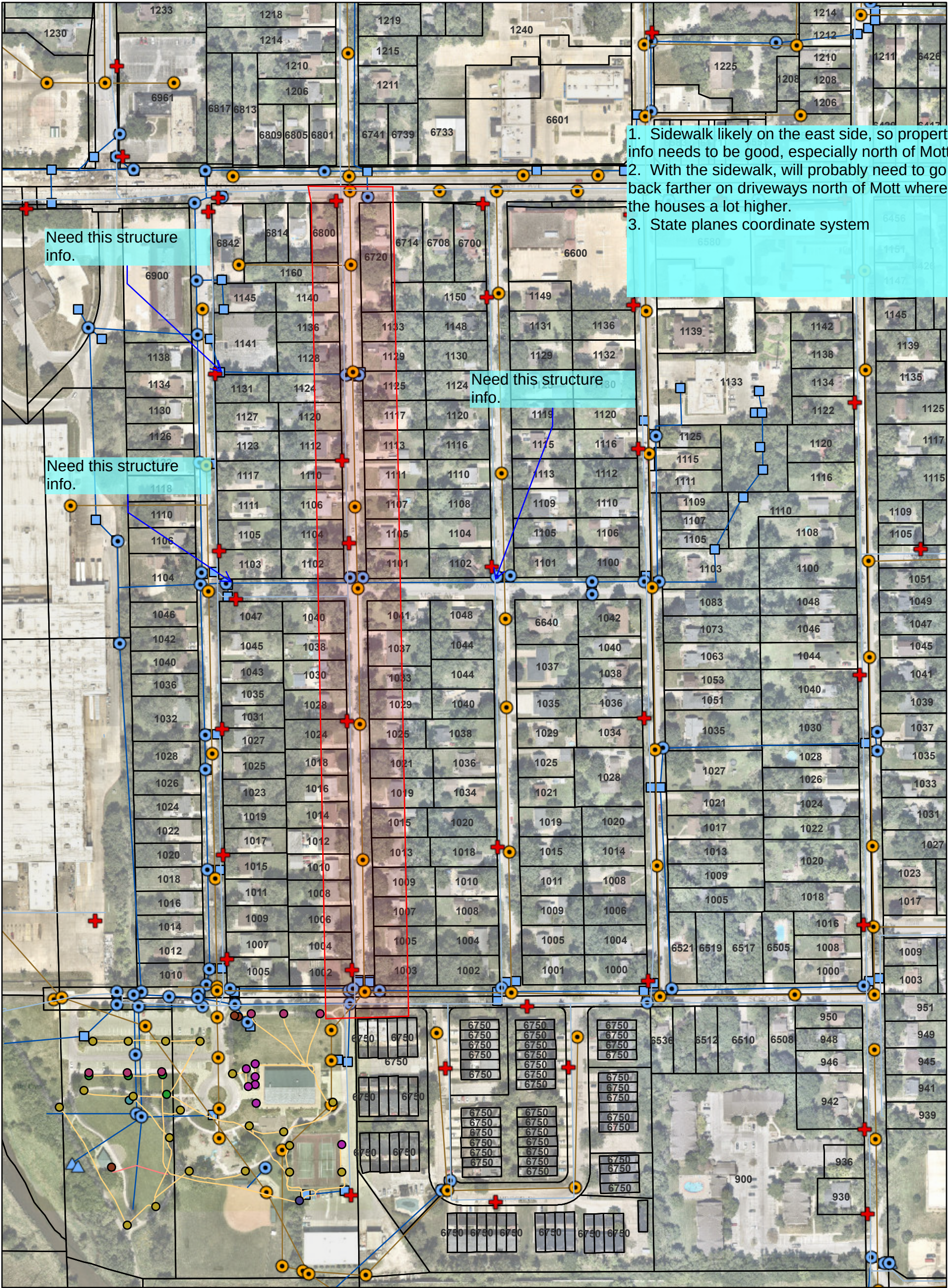
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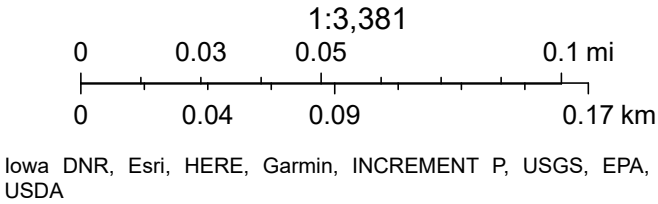
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8										
10	2	CS		23.1		3,000**				
12								End of Boring No groundwater noted during drilling operations. **Estimated using calibrated penetrometer.		

Windsor Heights Utility Viewer



2/8/2024





**STAFF REPORT
CITY COUNCIL**
February 3, 2025

TO: CITY COUNCIL

FROM:

SUBJECT: Consideration of Resolution No. 2025-11 - A Resolution Awarding the 68th Street South Reconstruction Project to Shekar Engineering, P.L.C.

GENERAL INFORMATION

ATTACHMENTS

1. Resolution No. 2025-11 Awarding the 68th Street Reconstruction Project

RESOLUTION NO. 2025-11

A RESOLUTION AWARDDING THE 68TH STREET SOUTH RECONSTRUCTION PROJECT TO SHEKAR ENGINEERING, P.L.C.

WHEREAS, it is deemed advisable and necessary to construct certain public improvements described in general as the 68th Street South Reconstruction Project, hereafter referred to as “the project” is and;

WHEREAS, the City Council has held a public hearing on awarding the project on February 3, 2025.

NOW THEREFORE BE IT RESOLVED by the City Council of the City of Windsor Heights, Polk County, Iowa, that:

1. The City Council, hereafter referred to as “the Council”, believes the project is in the best interest of the City of Windsor Heights, Iowa, and the residents thereof.
2. The Council has sought appropriate professional guidance for the concept and planning for the project and followed the steps as required by the Code of Iowa for notifications, hearings, and bidding/letting.
3. The Council approves the plans and specifications prepared by the Bolton and Menk, the City’s engineering firm.
4. The Council hereby accepts the bid from Shekar Engineering, P.L.C. in the amount of \$1,878,164.17 (One Million Eight Hundred Seventy-Eight Thousand One Hundred Sixty-Four Dollars and Seventeen Cents) and awards the associated contracts to the same.
5. The Council finds this resolution appropriate and necessary to protect, preserve, and improve the rights, privileges, property, peace, safety, health, welfare, comfort, and convenience of the City of Windsor Heights and its citizens, all as provided for in and permitted by Chapter 364 of the Code of Iowa.
6. All other resolutions or parts of resolutions in conflict with this resolution are hereby repealed. If any part of this resolution is adjudged invalid or unconstitutional, such adjudication shall not affect the validity of the resolution or action of the Council as a whole or any part thereof not adjudged invalid or unconstitutional. This resolution shall be in full force and effect from and after the date of its approval as provided by law.

NOW, THEREFORE BE IT FURTHER RESOLVED by the City Council of the City of Windsor Heights, Polk County, Iowa, that, after receiving the necessary contract documents, including but not limited to, the contractor’s bond and certificate of insurance that the City Administrator of Windsor Heights, Polk County, Iowa or City Clerk of Windsor Heights, Polk County, Iowa, be and is hereby designated, authorized, and empowered on behalf of the

City Council of the City of Windsor Heights, Polk County, Iowa to execute the contracts in connection with the afore awarded construction project.

Passed and approved this 3rd Day of February, 2025.

Mike Jones, Mayor

ATTEST:

Adam Strait, City Clerk



**STAFF REPORT
CITY COUNCIL**
February 3, 2025

TO: CITY COUNCIL

FROM:

SUBJECT: Approve Minutes of the Regular Council Meeting on January 23, 2025

GENERAL INFORMATION

ATTACHMENTS

1. 1.23.25 Regular City Council Meeting Minutes

City of Windsor Heights Regular Business Meeting Minutes
Thursday, January 23, 2025 - 6:00 PM
WINDSOR HEIGHTS COUNCIL CHAMBERS - 1133 66th ST

1. Call to Order/Roll Call/Pledge of Allegiance

Mayor Mike Jones called the meeting to order at 6:00 PM. Members present: Susan Skeries, Michael Libbie, Lauren Campbell, Joseph Jones, and Threase Harms Staff present: City Administrator Adam Plagge, City Attorney Erin Clanton, City Clerk Adam Strait, Finance Director Rachelle Swisher, Police Chief Pete Roth, Fire Chief Jim Mease, Public Works Director Andy Larson, City Engineer Justin Ernst

2. Approval of the Agenda

Motion by Threase Harms to APPROVE. Seconded by Joseph Jones. Motion passed 5-0.

3. Public Forum: This is time set aside for comments from the public on topics of City business other than those listed on the agenda. No action may be taken. Please come to the podium, state your name and address for the record and keep your comments to no more than 5 minutes.

No public comment given.

4. Consent Agenda: Any item on the Consent Agenda may be removed for separate consideration.

Mayor Mike Jones sought clarification on Item I and the fund obligations for the City as the City is applying for a RAISE grant as well to fund the 73rd Street project. Justin Ernst provided clarification that the City has options of when the funds can be used if the grant is awarded. Motion by Threase Harms to APPROVE. Seconded by Joseph Jones. Motion passed 5-0.

- A. Approve Minutes of the Regular Council Meeting on December 16, 2024
- B. Approve Financial Reports
- C. Approve Liquor License - Wal-Mart Supercenter #1764 - 1001 73rd St
- D. Approve Liquor License - Kum & Go # 4098 - 7229 University Ave
- E. Approve Liquor License - Sam's Club #6344 - 1101 73rd St
- F. Approve Resolution No. 2025-01 - A Resolution Naming City Depositories and Deposit Limits
- G. Approve Resolution No. 2025-02 - A Resolution Naming the Des Moines Register as the City's Official Newspaper
- H. Approve Resolution No. 2025-03 - A Resolution Authorizing The City Of Windsor Heights To Submit An Application For Funding From The Federal Surface Transportation Block Grant Set-Aside Program To The Des Moines Area Metropolitan Planning Organization (MPO) For The Partial Funding Of The Construction Of The Windsor Trail Reconstruction And Further Approving The Application Which Obligates The City Of Windsor Heights To Matching Funds For The Construction Of Said Project
- I. Approve Resolution No. 2025-04 - A Resolution Authorizing The City Of Windsor Heights, Iowa To Submit An Application For Funding From The Federal Surface Transportation Block

Grant Program (STBG) To The Des Moines Area Metropolitan Planning Organization (MPO) For The Partial Funding Of The Construction Of 73rd Street Phase 1 And Further Approving The Application Which Obligates The City Of Windsor Heights To Matching Funds For The Construction Of Said Project

- J. Approve 73rd Street Phase 1 STP-U-8477(615)—70-77 Pay Request 8
- K. Approve Proclamation for Slavery and Human Trafficking Prevention Month January 2025
- L. Approve Resolution No. 2025-08 - A Resolution Establishing A Policy For Sharing Third Party Messaging
- M. Approve City Administrator to Execute YMCA - Windsor Heights Colby Park Use Agreement
- N. Approve Resolution No. 2025-09 - A Resolution Approving the 28E Agreement For Assistance For Polk County Area Fire and Rescue Services
- O. Approve Purchase of Replacement CEC Tables

5. **Action Items:**

- A. Consideration of Resolution No. 2025-06 - A Resolution Authorizing The City To Submit To The Us Department Of Transportation A Rebuilding American Infrastructure With Sustainability And Equity (RAISE) Grant Application & Commitment To Fund 20% Of The Project
Adam Plagge presented the item. No discussion. Motion by Joseph Jones to APPROVE.
Seconded by Threase Harms. Motion passed 5-0.
- B. Consideration of Resolution No. 2025-05 - A Resolution For Adopting 2024 Polk County Hazard Mitigation Plan
Adam Plagge and Jim Mease presented the item. Susan Skeries questioned if there were still outstanding changes to be made. Mease confirmed that all changes the City desired have been submitted. Motion by Threase Harms to APPROVE. Seconded by Joseph Jones. Motion passed 5-0.
- C. Consideration of Equipment Revolving Program (ERP) Ambulance Acquisition
Jim Mease presented the item. Discussion centered on how the ambulance recommended to purchase would set the City up to collaborate with other communities. Mease confirmed discussion happened with other Chiefs and that ambulances vary among communities so the City is still in a good place to partner with other communities. Communities purchase based on their needs. Mease noted the recommended ambulance is not the lowest quote however the company is Iowa based just north of Norwalk where maintenance can be performed and a loaner ambulance can be acquired providing additional value at a higher cost. Mease asked to table the item until the next meeting to provide a more in depth presentation by Fire Lt. Jones who was out on a call. Motion by Michael Libbie to TABLE. Seconded by Threase Harms. Motion passed 5-0.
- D. Consideration of Resolution No. 2025-07 - A Resolution Accepting The Acquisition Of Real Estate Interests And Authorizing Acquisition Of Such Real Property
Adam Plagge presented the item. Discussion centered on if discussion and interest was still on

going with community partners to use the home until redevelopment could occur. Plagge confirmed they are still interested and noted that should there be no interest that staff would recommend to demolish the property instead of taking on maintenance or potentially renting the property. Discussion also took place on the Economic Development Fund which was being used to purchase the home. Plagge confirmed there would still be funds available to move forward with currently planned projects should they come to fruition and there are plans to replenish the fund for future projects. Motion by Threase Harms to APPROVE. Seconded by Joseph Jones. Roll call vote: Aye - Michael Libbie, Joseph Jones, Lauren Campbell, Threase Harms, Nay - Susan Skeries. Motion Passed 4-1.

E. Consideration of Resolution No. 2025-10 - A Resolution Approving FY26 Non-Union Salary Ranges

Adam Plagge presented the item. No discussion. Motion by Threase Harms to APPROVE. Seconded by Joseph Jones. Motion passed 5-0.

F. Discuss the Capital Improvement Plan (CIP)

Adam Plagge presented the item. Plagge went through the details of the projects within the CIP. Susan Skeries asked what grants have been submitted for public art. Plagge confirmed no applications have been submitted for public art outside of the master plan. Staff will look into the Iowa Foundation For Parks and Recreation Mini Grant.

6. **Reports:**

A. Mayor, Council Reports and Committee Updates, and Administration Reports

Mike Jones - The next meeting will include a written report. The president has issued executive orders focused on unleashing energy and pausing the infrastructure act, which impacts the distribution of STBG funding for all MPOs. There's some confusion about the implications of this, and clarification is expected soon. RAISE funding may also be affected. MPO had requests up to \$46 million last year and \$17 million disbursed. The same amount is likely for this year. The MPO approved an RFP for a multimodal economic impact study, mostly for DART, which will contribute. The RFPs should be returned by next month, with an update to follow.

Threase Harms - At the January 9th communication committee meeting, planning for 2025 was discussed, with a focus on ensuring effective communication with businesses and conducting business surveys. These efforts are also happening on the MAC side. The personal and finance committee met last week. Discussed property taxes during the West Side Legislative Breakfast. The Central IA Tax Association is asking the legislature to slow down and consult with local leaders on property tax issues. The MAC meeting on Tuesday morning included Mike Jones and four new area legislators. There will be another meeting at the capital soon, with a focus on property tax education through the Residence Engagement Committee in MAC, helping people understand how property taxes are applied and used in the community, especially in the context of efforts to reduce them. The goal is long-term, with an emphasis on identifying communication opportunities and broad engagement efforts. The MWA meeting is Tuesday and a debrief on Windsor Wonderland tomorrow morning. Feedback is encouraged.

Lauren Campbell - Attending the Reimagine DART workshops, with a particularly good session last week. Special event planning for 2025 is underway, and sponsorships will open tomorrow. A thank you to Susan for her hard work in securing sponsorships.

Michael Libbie - Had a Public Work Committee meeting on January 8 and a Communications Committee meeting on January 9. Attend the Legislative event at the Community Center on January 10. On January 25 is Talk with Officials hosted by the Chamber and will be in Urbandale followed by a Coffee with Council.

Joseph Jones - The Westside Legislative Breakfast in Windsor Heights was well-received. Lauren mentioned getting back on track with DART. Emphasizing that after ending the year by addressing concerns, the focus is now on moving forward with transit solutions. There's satisfaction that everyone is on the same page and appreciation for the support of passionate individuals working on solutions. Since 2009, the budget has grown by only 1%, while the population has grown by 24%. An interactive workshop with a large number of staff and admins helped educate attendees on the variety of transit options available, including city touch and ridership. Six groups were formed to build their own transit systems, helping participants understand DART's choices. The discussions were encouraging and led to informed decision-making. A sheet detailing the Reimagine process will be sent out, and in April, there will be a council meeting to discuss future directions and decide where to focus efforts, ensuring everyone is involved.

Susan Skeries - It's been a busy month. The West Side Legislative Breakfast was a success and great to have in the community, with positive feedback about the Community Center. Special events planning for the year is underway, and it's time to start planning Fall Fest. The goal is to get things done early, and there's good progress. Cumulus is on board with special events again, and a "Where's Danger?" promotion is being created to build excitement, with videos being created. Thanks to those who attended the MWA event on Tuesday, which was a great success. It was encouraging to see so many people passionate about sustainability, with the Mayor of Clive complimenting Windsor Heights for the best attendance. Attended a Catch DSM meeting today and the City will be featured by Catch DSM soon. Showcasing pictures of events and drone shots of the area, with a teaser about what's to come before the park ribbon-cutting.

Adam Plagge - There's a draft ERP in the reports to review prior to the budget kickoff meeting with department heads providing presentations at a future meeting. The Sanitary and Sewer District meet yesterday. There was a discussion of a large fee increase over the coming years for WRA improvements.

B. Equipment Revolving Program (ERP) Draft

C. Iowa DOT Notification of Work at 63rd and University Ave.

7. **Adjourn** Immediately following the regular Council meeting, Council will have an exempt session pursuant to Iowa Code section 20.17(3)—Negotiating sessions, strategy meetings of public employers, mediation, and the deliberative process of arbitrators shall be exempt from the provisions of chapter 21.

Motion by Threase Harms to adjourn at 7:08 PM. Seconded by Lauren Campbell. Motion passed 5-0

Mike Jones, Mayor

Adam Strait, City Clerk



**STAFF REPORT
CITY COUNCIL**
February 3, 2025

TO: CITY COUNCIL
FROM: Rachelle Swisher, Finance Director
SUBJECT: Approve Financial Reports

GENERAL INFORMATION

ATTACHMENTS

1. Claims Report Summary
2. Vendor Detail Bankers Trust



CITY OF WINDSOR HEIGHTS

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*Check Summary Register©

Batch:

1/1/25 - 1/29/25

Includes 1/31/25 Payroll

	Name	Check Date	Check Amt	
1110	CASH			
1e	DAIDA	1/9/2025	\$545.53	RADIX MONTHLY SUBSCRIPTION
2e	FEDERAL TAX DEPOSIT	1/14/2025	\$33,280.70	Vendor Liability
3e	ISOLVED BENEFIT SERVICES	1/14/2025	\$1,714.00	Vendor Liability
4e	IPERS	1/14/2025	\$19,206.60	Vendor Liability
5e	STATE OF IOWA	1/14/2025	\$4,756.58	Vendor Liability
6e	ISOLVED BENEFIT SERVICES	1/24/2025	\$50.45	FSA FEES
7e	FEDERAL TAX DEPOSIT	1/29/2025	\$29,632.15	Vendor Liability
8e	ISOLVED BENEFIT SERVICES	1/29/2025	\$1,799.90	Vendor Liability
9e	IPERS	1/29/2025	\$18,153.11	Vendor Liability
10e	STATE OF IOWA	1/29/2025	\$2,741.24	Vendor Liability
57905	BULLZEYE, INC	1/7/2025	\$1,903.00	CEC DEC CLEANINGS
57906	CONTRACTORS RENTAL CO.	1/7/2025	\$210.00	
57907	ROTARY CLUB OF WAUKEE	1/7/2025	\$225.00	QRTLY MEMBERSHIP DUES
57908	TRANSUNION RISK & ALTERNAT	1/7/2025	\$75.00	MONTHLY SUBSCRIPTION
57909	AMAZON CAPITAL SERVICES	1/9/2025	\$597.72	CEC SHELIVING
57910	ARNOLD MOTOR SUPPLY	1/9/2025	\$599.50	ICE MELT
57911	BAKER ELECTRIC INC.	1/9/2025	\$9,448.16	SERVICE
57912	BANYON DATA SYSTEMS	1/9/2025	\$11,800.00	ACCOUNTING SOFTWARE
57913	BLUESTONE ENGINEERING	1/9/2025	\$927.34	CEC SOLAR DESIGN SERVICES
57914	BOLTON & MENK	1/9/2025	\$50,535.50	COLBY PARK DESIGN
57915	BOUND TREE MEDICAL LLC	1/9/2025	\$211.01	MEDICAL SUPPLIES
57916	BRICK GENTRY PC	1/9/2025	\$5,640.00	NOV LEGAL FEES
57917	CAPITAL ONE TRADE CREDIT	1/9/2025	\$429.76	SUPPLIES
57918	CAPITAL SANITARY SUPPLY	1/9/2025	\$38.00	SUPPLIES
57919	CATCH DES MOINES	1/9/2025	\$356.69	DEC 24 HOTEL/MOTEL TAX
57920	CENTRAL IOWA EMS DIRECTOR	1/9/2025	\$175.00	EMS CONF JONES
57921	CENTRAL SALT	1/9/2025	\$0.00	Reissued as Check #57964
57922	CINTAS	1/9/2025	\$78.07	FIRST AID CABINET SUPPLIES
57923	CITY OF URBANDALE	1/9/2025	\$137.33	HICKMAN ROAD TRAFFIC SIGNALS
57924	CITY OF WEST DES MOINES	1/9/2025	\$15,886.19	STREET SWEEPING
57925	CIVIC PLUS	1/9/2025	\$13,033.02	CIVICREC & CP PAY ANNUAL FEE
57926	CLIVE POWER EQUIP.	1/9/2025	\$1,481.52	PRUNER HEAD ADAPTER
57927	COOK PLUMBING CORP	1/9/2025	\$1,956.50	WATER HEATER REPLACEMENT
57928	CRYSTAL CLEAR WATER CO.	1/9/2025	\$9.99	WATER
57929	DORSEY & WHITNEY LLP	1/9/2025	\$29,000.00	2024A BONDS DISCLOSURE
57930	ELECTRICAL ENG.& EQUIPMENT	1/9/2025	\$396.85	BUILDING REPAIR
57931	FAST SIGNS	1/9/2025	\$102.00	CLOTHING ALLOWANCE
57932	FOLAND TOOLS LLC	1/9/2025	\$674.05	TOOLS
57933	GALLS INC	1/9/2025	\$29.20	TRAINING OC SPRAY
57934	GODDARD, NATE	1/9/2025	\$65.51	REIMBURSEMENT - CLOTHING ALLOWANC
57935	GREATMATS.COM CORP	1/9/2025	\$13,718.06	68TH ST SOUTH RECONSTRUCTION
57936	GRIMES ASPHALT & PAVING	1/9/2025	\$144.15	COLD MIX
57937	HAWKEYE TRUCK EQUIPMENT	1/9/2025	\$598.31	SUPPLIES
57938	HOME DEPOT CREDIT SERVICE	1/9/2025	\$552.92	SUPPLIES
57939	IMWCA	1/9/2025	\$5,255.00	WORKERS COMP INSTALL 7 OF 7
57940	IOWA ONE CALL	1/9/2025	\$21.00	LINE LOCATES
57941	IOWA SOLUTIONS INC	1/9/2025	\$4,050.35	IT SERVICES
57942	LOGAN CONTRACTORS SUPPLY	1/9/2025	\$1,067.13	WATER REPELLENT
57943	LOWE'S	1/9/2025	\$86.56	QUIKRETE
57944	METRO WASTE AUTHORITY	1/9/2025	\$31,475.80	CURB IT FEE
57945	METRONET	1/9/2025	\$599.96	INTERNET
57946	MID-IOWA TOWING	1/9/2025	\$425.00	TOWING



CITY OF WINDSOR HEIGHTS

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*Check Summary Register©

	Name	Check Date	Check Amt	
57947	MUNICIPAL EMERGENCY SERVI	1/9/2025	\$1,169.62	SCBA FLOW TESTING
57948	NICHOLS EQUIPMENT LLC	1/9/2025	\$1,405.50	SUPPLIES
57949	POLICE LEGAL SCIENCES INC	1/9/2025	\$2,080.00	MONTHLY ON-LINE TRAINING
57950	PREMIER AUTOMOTIVE	1/9/2025	\$777.77	CAR 20 REPAIRS
57951	PROFESSIONAL PRODUCTS	1/9/2025	\$486.00	BULK STOCK ORDER - CLOTHING ALLOWA
57952	QPS EMPLOYMENT GROUP	1/9/2025	\$806.40	HANKINS 1/4/25
57953	SAFE BUILDING COMPLIANCE	1/9/2025	\$2,339.44	DEC RENTAL INSPECTIONS
57954	SAM'S CLUB DIRECT	1/9/2025	\$60.86	HYDRATION SUPPLIES
57955	SECURITY EQUIPMENT INC	1/9/2025	\$880.00	PSB EAST ENTRY DOOR LOCK
57956	SIMMERING-CORY, INC	1/9/2025	\$500.00	ANNUAL WEB HOSTING
57957	SPRAYER SPECIALTIES INC.	1/9/2025	\$2,543.84	SUPPLIES
57958	STANDARD INSURANCE COMPA	1/9/2025	\$2,612.95	LIFE/LTD/STD
57959	TOMPKINS INDUSTRIES INC.	1/9/2025	\$672.30	SUPPLIES
57960	ULINE	1/9/2025	\$476.82	SUPPLIES
57961	CAPITAL ONE	1/9/2025	\$109.40	SUPPLIES
57962	WEST DES MOINES TRUE VALU	1/9/2025	\$193.09	SUPPLIES
57963	WRIGHT OUTDOOR SOLUTIONS	1/9/2025	\$1,360.00	TREE REMOVAL
57964	CENTRAL SALT	1/15/2025	\$17,733.05	Was Ck#57921
57996	A KING'S THRONE	1/24/2025	\$1,080.00	10/2/25 FALL FESTIVAL WINDSOR HEIGHTS
57997	ABSOLUTE CONCRETE CONSTR	1/24/2025	\$249,971.00	73RD ST PHASE 1 PAY REQUEST #8
57998	AIRGAS	1/24/2025	\$7.44	OXYGEN
57999	AMAZON CAPITAL SERVICES	1/24/2025	\$969.61	PRINTER INK
58000	AMERICAN ALARMS	1/24/2025	\$303.65	ALARM TESTING
58001	AUREON IT	1/24/2025	\$640.00	MANAGED SERVICES
58002	BANKERS TRUST COMPANY	1/24/2025	\$5,295.32	GINGERBREAD HOUSES
58003	BOLTON & MENK	1/24/2025	\$8,428.00	PLANNING SERVICES
58004	BOUND TREE MEDICAL LLC	1/24/2025	\$711.09	MEDICAL SUPPLIES
58005	BRICK GENTRY PC	1/24/2025	\$4,245.00	DEC LEGAL FEES
58006	BULLZEYE, INC	1/24/2025	\$319.30	CITY HALL SUPPLIES
58007	CAPITAL SANITARY SUPPLY	1/24/2025	\$235.05	SUPPLIES
58008	CATCH DES MOINES	1/24/2025	\$594.43	OCT HOTEL TAX DISB
58009	CINTAS	1/24/2025	\$31.77	FIRST AID CABINET
58010	CITY OF URBANDALE	1/24/2025	\$1,058.09	CROSSING GUARD REIMBURSEMENT
58011	CITY OF WEST DES MOINES	1/24/2025	\$2,338.54	CROSSING GUARD Q2 FY25
58012	CIVIC PLUS LLC	1/24/2025	\$4,770.87	WEBSITE HOSTING/SUPPORT
58013	CLIVE POWER EQUIP.	1/24/2025	\$103.44	K SAW MAINTENANCE
58014	DENTONS DAVIS BROWN PC	1/24/2025	\$7,720.00	ATE LAWSUIT
58015	DEPT OF HUMAN SERVICES	1/24/2025	\$2,585.84	FEB 25 STATE SHARE OF GEMT
58016	DES MOINES PRINTING	1/24/2025	\$687.50	EXTREME WEATHER CENTER SIGNS
58017	DES MOINES REGISTER	1/24/2025	\$91.98	NEWSPAPER DELIVERY
58018	DES MOINES WATER WORKS	1/24/2025	\$45.17	1145 66TH ST
58019	DIAMOND OIL CO.	1/24/2025	\$1,096.40	FUEL
58020	DINGES FIRE COMPANY	1/24/2025	\$447.35	PPE HOOD
58021	DWYER, STEFFI	1/24/2025	\$15.00	REFUND FOR WH ORNAMENT
58022	ELITE GLASS AND METAL LLC	1/24/2025	\$0.00	GLASS INTALL AT CEC
58023	EO JOHNSON	1/24/2025	\$972.28	CH COPIER
58024	FELD EQUIP. CO. INC., ED M.	1/24/2025	\$652.00	SCBA MASKS
58025	GALLS LLC	1/24/2025	\$371.79	CLOTHING ALLOWANCE
58026	GANNETT IOWA LOCALIQ	1/24/2025	\$693.20	PUBLICATIONS
58027	GRIMES ASPHALT & PAVING	1/24/2025	\$153.45	COLD MIX
58028	HARMS, THREASE	1/24/2025	\$1,159.42	WINDSOR WONDERLAND REIMBURSEMEN
58029	HELIX PEST SOLUTIONS LLC	1/24/2025	\$30.00	PEST CONTROL
58030	HY-VEE ACCOUNTS RECEIVABL	1/24/2025	\$11.98	SUPPLIES



CITY OF WINDSOR HEIGHTS

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	Name	Check Date	Check Amt	
58031	INDEPENDENT PUBLIC ADVISO	1/24/2025	\$2,250.00	QTRLY RETAINER
58032	INTERSTATE ALL BATTERY	1/24/2025	\$55.80	BATTERIES FOR GUN LIGHTS
58033	IOWA FIRE EQUIPMENT	1/24/2025	\$365.00	BACKFLOW INSPECTIONS
58034	IOWA SOLUTIONS INC	1/24/2025	\$105.00	IT SERVICES
58035	JEO CONSULTING GROUP	1/24/2025	\$2,357.50	PROFESSIONAL SERVICES CRS
58036	LIZ LIDGETT GALLERY & DESIG	1/24/2025	\$6,000.00	PUBLIC ART PLAN
58037	MANHATTANLIFE	1/24/2025	\$99.77	BENEFITS
58038	MENARDS	1/24/2025	\$362.88	SUPPLIES
58039	METRONET	1/24/2025	\$622.49	INTERNET
58040	MIDAMERICAN ENERGY CO	1/24/2025	\$1,191.60	TRAIL/BRIDGE LIGHTS
58041	MID-IOWA PLANNING ALLIANCE	1/24/2025	\$36,726.00	PROGRAM MATCH - METRO HOME
58042	OMNI BILLING	1/24/2025	\$126.13	DECEMBER RECEIPTS
58043	OPN ARCHITECTS	1/24/2025	\$553.68	FACILITY ASSESSMENT
58044	POLK COUNTY EMERG MGMT	1/24/2025	\$2,626.00	28E AGREEMENT
58045	PORTER DO-IT BEST HARDWAR	1/24/2025	\$190.97	TRAILER RENTAL FOR BRINE TANK
58046	PREMIER AUTOMOTIVE	1/24/2025	\$1,400.88	CAR 29 REPAIRS
58047	QPS EMPLOYMENT GROUP	1/24/2025	\$921.60	HANKINS 1/18/25
58048	SECURITY EQUIPMENT INC	1/24/2025	\$198.00	E ENTRY DOOR REPAIR
58049	SMITH'S SEWER SERVICE	1/24/2025	\$225.00	1151 65TH ST SEWER TELEWISE
58050	SPRAYER SPECIALTIES INC.	1/24/2025	\$1,682.18	PUMP
58051	STIVERS FORD	1/24/2025	\$325.00	CAR 25 SWITCH INSTALL
58052	THE BANCORP BANK, N.A.	1/24/2025	\$80.00	SUBPOENA
58053	UNITYPOINT HEALTH	1/24/2025	\$203.34	ACCT: 402683029-0004882040
58054	UPHDM Occupantional Medicine	1/24/2025	\$810.29	DOT DRUG SCREEN
58055	WEST SIDE MECHANICS	1/24/2025	\$9,235.50	553 EXHAUST LEAK
58056	WEX FLEET UNIVERSAL	1/24/2025	\$2,315.36	FUEL
58057	ELITE GLASS AND METAL LLC	1/24/2025	\$4,600.00	GLASS INSTALL CEC
58058	BANKERS TRUST COMPANY	1/27/2025	\$0.00	Reissued as Check #58059
58059	BANKERS TRUST COMPANY	1/27/2025	\$81.03	Was Ck#58058
58060	Keller Williams Trust Account	1/27/2025	\$1,000.00	1151 65th Street, Windsor Heights
500043e	Bi-Weekly ACH	1/17/2025	\$85,275.41	
500084e	Bi-Weekly ACH	1/31/2025	\$82,410.24	
500087e	Bi-Weekly ACH	1/29/2025	\$2,231.10	
Total Checks			\$896,567.16	



CITY OF WINDSOR HEIGHTS

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*Check Stub

BANKERS TRUST COMPANY

Check# 58002
1/24/2025

PO BOX 1991
DES MOINES

IA 50305-1991

Vendor Act

Invoice	Amount	PO	Comments	Discount	Invoice Total
01242025 1054	\$150.00		GINGERBREAD HOUSES		\$150.00
	\$276.00		LASERFICHE CONF AIRFARE		\$426.00
	\$55.60		BACKGROUND CHECKS		\$481.60
	\$25.75		GCMOA LUNCHEON		\$507.35
01242025 3526	\$41.99		STORAGE UNIT		\$549.34
	\$31.98		ZOOM		\$581.32
	\$668.52		ANNUAL MEETING		\$1,249.84
	\$413.91		ADOBE		\$1,663.75
01242025 8417	\$250.00		ANNUAL DUES POLICE EXEC RESEARCH		\$1,913.75
	\$220.00		IACP ANNUAL DUES		\$2,133.75
01242025 8425	\$15.00		BACKGROUND CHECK		\$2,148.75
	\$7.78		MINOR HARDWARE		\$2,156.53
01242025 8433	\$41.99		MINOR EQUIPMENT		\$2,198.52
	\$89.99		PUMP KIT		\$2,288.51
	\$101.65		PUMP KIT		\$2,390.16
	\$1,225.00		ARCGIS SUBSCRIPTION		\$3,615.16
01242025 9969	\$845.63		MICROSOFT CHARGES		\$4,460.79
	\$24.00		MICROSOFT CHARGES		\$4,484.79
	\$30.00		LEGISLATIVE BREAKFAST		\$4,514.79
	\$3.03		POSTAGE		\$4,517.82
01242025 9977	\$12.90		CODE ENFORCEMENT MTG		\$4,530.72
01242025 9985	\$519.60		TASER CARTRIDGES		\$5,050.32
01242025 9993	\$95.00		TRAINING COURSE		\$5,145.32
	\$150.00		TRAINING		\$5,295.32
Check Total					\$5,295.32



**STAFF REPORT
CITY COUNCIL**
February 3, 2025

TO: CITY COUNCIL

FROM:

SUBJECT: Approve Liquor License - Hy-Vee Fast and Fresh - 7220 Hickman Rd.

GENERAL INFORMATION

ATTACHMENTS

1. IA ABD Application



State of Iowa

Alcoholic Beverages Division

Applicant

NAME OF LEGAL ENTITY

Hy-Vee, Inc.

NAME OF BUSINESS(DBA)

Hy-Vee Fast and Fresh

BUSINESS

(515) 267-2800

ADDRESS OF PREMISES

7220 Hickman Rd.

PREMISES SUITE/APT NUMBER

CITY

Windsor
Heights

COUNTY ZIP

Polk 50324

MAILING ADDRESS

5820 Westown Pkwy

CITY

West Des Moines

STATE

Iowa

ZIP

50266

Contact Person

NAME

Katie Nylen

PHONE

(515) 267-2800

EMAIL

knylen@hy-vee.com

License Information

LICENSE NUMBER

LE0003430

LICENSE/PERMIT TYPE

Class E Retail Alcohol License

TERM

12 Month

STATUS

Submitted
to Local
Authority

EFFECTIVE DATE

Mar 17, 2025

EXPIRATION DATE

Mar 16, 2026

LAST DAY OF BUSINESS

SUB-PERMITS

Class E Retail Alcohol License

PRIVILEGES



Status of Business

BUSINESS TYPE

Corporation

Ownership

• Individual Owners

NAME	CITY	STATE	ZIP	POSITION	% OF OWNERSHIP	U.S. CITIZEN
Katie Nylen						
Andrew Schroeder	Johnston	Iowa	50131	Vice President, Accounting	0.00	Yes
Jeremy Gosch	Urbandale	Iowa	50323	CEO	0.00	Yes
Michael Jurgens	Des Moines	Iowa	50312	Vice President, Secretary	0.00	Yes
Morgan Beier						
Kelly Palmer						
Owen Turk						

Insurance Company Information

INSURANCE COMPANY

POLICY EFFECTIVE DATE

POLICY EXPIRATION DATE



State of Iowa

Alcoholic Beverages Division

DRAM CANCEL DATE

OUTDOOR SERVICE EFFECTIVE
DATE

OUTDOOR SERVICE EXPIRATION
DATE

BOND EFFECTIVE DATE

TEMP TRANSFER EFFECTIVE
DATE

TEMP TRANSFER EXPIRATION
DATE



**STAFF REPORT
CITY COUNCIL**
February 3, 2025

TO: CITY COUNCIL

FROM:

SUBJECT: Approve Maintenance Agreement with Carol J. Langeness Revocable Trust at
7609 Marilyn Drive

GENERAL INFORMATION

ATTACHMENTS

1. Langeness Maintenance Agreement

MAINTENANCE AGREEMENT

THIS MAINTENANCE AGREEMENT is made and entered into this ___ day of _____, 2024 (hereinafter referred to as the Effective Date) by and between the City of Windsor Heights (hereinafter referred to as the “City”), an Iowa municipal corporation, and the Carol J. Langeness Revocable Trust (hereinafter referred to as “Property Owners”), owner of real property located at 7609 Marilyn Drive, Windsor Heights, Iowa (hereinafter referred to as “Property”). Collectively the City and Property Owner shall be referred to as the “Parties.”

WHEREAS, Property Owner is the record owner of the real property situated in the City of Windsor Heights, commonly known as 7609 Marilyn Drive, and legally described as follows:

The East 45 feet of Lot 30 and Lot 31 EXCEPT as follows: Beginning at a point on the North line of said Lot 31, said point being 10 feet Westerly from the Northeast corner of said Lot 31, thence Southerly to the Southeast corner of said Lot 31, thence Northeasterly along the East line of said Lot 31 to the Northeast corner, thence Westerly along the North line of said Lot 31, 10 feet to the point of beginning, all in PLAZA HILLS, PLAT 5, an Official Plat, now included in and forming a part of the City of Windsor Heights, Iowa

WHEREAS, the City owns property abutting the Property Owner’s Property, as shown on the Survey attached hereto as Figure 1; and

WHEREAS, it was discovered that Property Owner has a previously constructed fence which encroaches upon the City’s property;

WHEREAS, the Parties have agreed that, in lieu of the City requiring the Property Owner to immediately remove the fence structure from its property, the City would allow the fence to remain subject to the terms and conditions of this Agreement.

NOW THEREFORE, in consideration of the mutual promises and undertakings of the Parties as hereinafter recited and for other good and valuable consideration, the Parties agree as follows:

RECITALS

1. Allowed Encroachment. The Property Owner is hereby allowed to keep the currently-existing fence (the “Encroachment”) located on the City’s property, as legally described and shown in the attached Figure 1. City, its representatives, permittees and franchisees shall have the right to enter upon all or any part of the Encroachment Area at any time for any purpose necessary to further the City's general use and maintenance of city property.

2. No Other Encroachment Allowed. Except for the Encroachment set forth in Section 1 above, Property Owner shall not create, erect, or construct any other encroachment on, above, or below the surface of the ground on City’s property, or cause or permit any of these to be done by others, without the express prior written consent of the City.

3. Maintenance. Property Owner shall be responsible for maintaining the Encroachment in a safe and nuisance-free condition at all times, and shall assume and be

responsible for all risks, costs, and expenses in any way connected to or arising out of the Encroachment. In the event the currently-existing fence is reconstructed or rebuilt by 50% or more, it shall not be reconstructed or rebuilt upon City property.

4. Removal. The City reserves the right to require the removal of the allowed encroachment or to remove or cause the Encroachment to be removed if the City reasonably determines at any time that removal is in the best interest of the public, including but not limited to, at any time the City determines the Encroachment is not properly maintained, creates a public nuisance or safety hazard, or that the Encroachment impedes the City's general use and maintenance of its property, or the Encroachment impedes the installation, restoration, or maintenance of any public improvement or infrastructure.

5. Non-relinquishment of City Interest. Property Owner agrees that the allowance of the Encroachment shall not in any way waive, relinquish, or diminish the City's rights in and to the Encroachment Area.

6. Hold Harmless. The Property Owner shall indemnify, save and hold harmless the City, its elected and appointed officials, attorneys, administrators, consultants, agents, and employees from and against all claims, damages, losses, fees and expenses direct, indirect, or arising out of or resulting from breach of this Agreement.

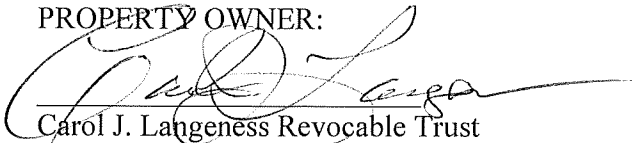
7. Recording. This Agreement shall be recorded among the land records of Polk County, Iowa. The provisions of this Agreement shall run with Property Owner's land and shall be binding on Property Owner and their assigns or successors in interest. No conveyance of Property Owner's property or any part thereof shall relieve Property Owner or their assigns or successors of their liability for full performance of this Agreement unless the City expressly releases the Property Owner in writing.

8. Amendments. Any amendments to this Agreement shall be made in writing. No agreement other than those outlined herein has been entered into by the Parties.

9. Applicable Law. This Agreement shall be governed by the laws of the State of Iowa.

IN WITNESS WHEREOF, the parties have executed this Agreement on the day and the year first written above.

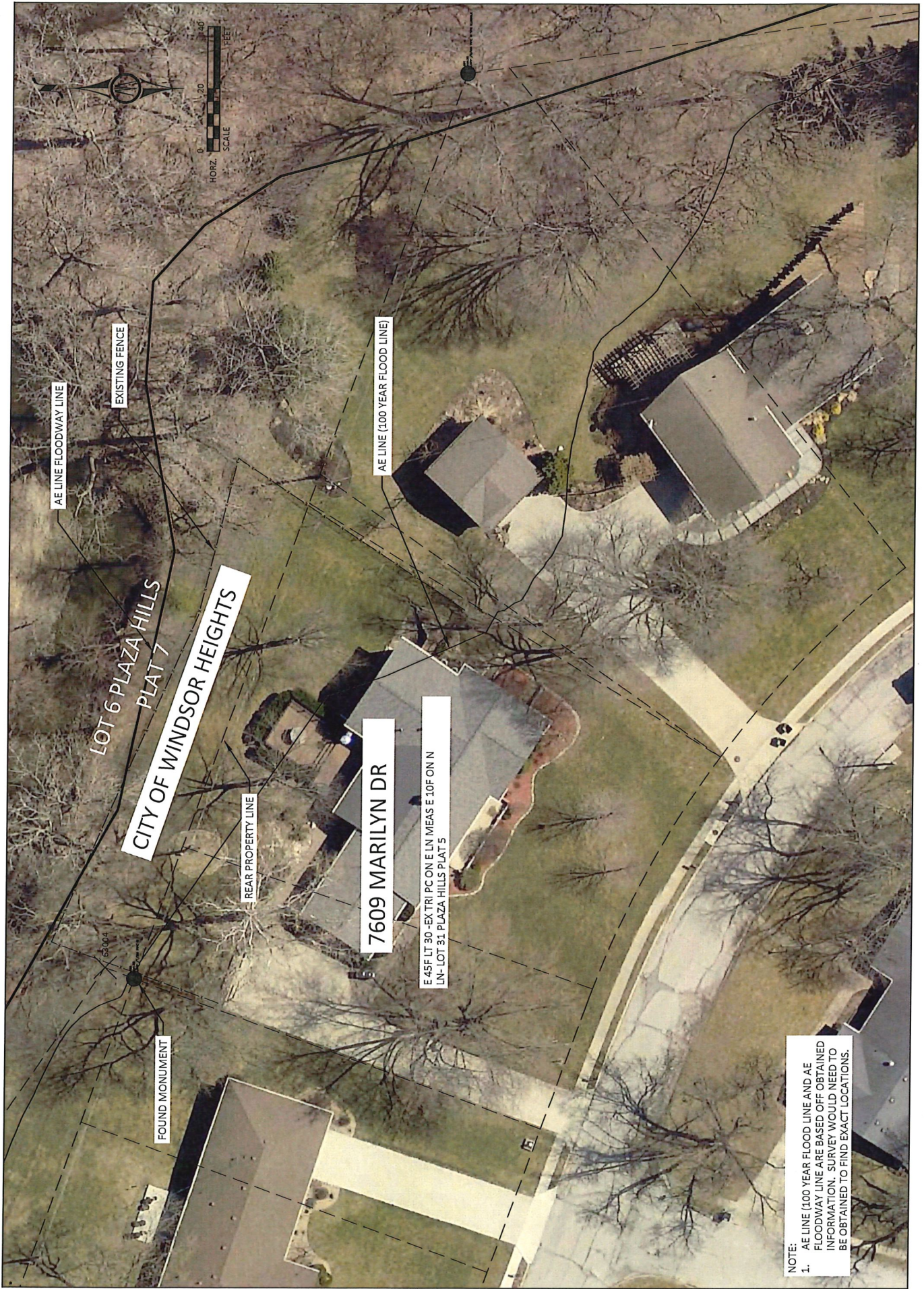
PROPERTY OWNER:


Carol J. Langeness Revocable Trust
By: Carol J. Langeness, Trustee

CITY

Adam Plagge, City Administrator

Mike Jones, Mayor





STAFF REPORT
CITY COUNCIL
February 3, 2025

TO: CITY COUNCIL

FROM: Adam Strait, City Clerk

SUBJECT: Approve Resolution No. 2025-12 - A Resolution Approving Mid-Iowa Planning Alliance Primary Board and Alternate Board Appointments

GENERAL INFORMATION

ATTACHMENTS

1. Resolution No. 2025-12 A Resolution Approving Mid-Iowa Planning Alliance Primary Board and Alternate Board Appointments

RESOLUTION NO. 2025-12

A RESOLUTION APPROVING MID-IOWA PLANNING ALLIANCE PRIMARY BOARD AND ALTERNATE BOARD APPOINTMENTS

WHEREAS, the City of Windsor Heights, Iowa is a duly organized municipality within Polk County; and

WHEREAS, each year the Mayor shall appoint or reappoint individuals as members to various boards, commissions, and committees-including, but not limited to, the Mid-Iowa Planning Alliance.

NOW, THEREFORE BE IT HEREBY RESOLVED by the City of Windsor Heights City Council that it hereby approves the Mayor's appointments of Adam Plagge as Primary Board Member and Adam Strait as Alternate Board Member.

Passed and Approved this 3rd Day of January, 2025.

Mike Jones, Mayor

Adam Strait, City Clerk



STAFF REPORT
CITY COUNCIL
February 3, 2025

TO: CITY COUNCIL
FROM: Jim Mease

SUBJECT: Consideration of Equipment Revolving Program (ERP) Ambulance Acquisition

GENERAL INFORMATION

To meet the reasonable timeline as set forth by the ERP, the Fire Department formed an Ambulance Committee. This committee was comprised of both FT and PT staff to gain a broad perspective of ideas and collaboration to ensure an appropriate recommendation was made. Many hours over the last 4 months have been spent discussing, evaluating, and building an emergency vehicle that will serve our residents and neighbors. The recommendation presented will take into consideration overall cost, projected delivery timeline, Iowa preference (as outlined in the Purchasing Policy and Procedures Manual), and services offered post purchase.

Recommendations:

1: Legacy Emergency Vehicles

- \$389,460.00
- Price includes new cot
- Delivery expected 18 to 24 months
- Iowa Company
- Option for free loaner ambulance if needed

2. North Central Emergency Vehicles

- \$382,905.00
- Price includes new cot
- Options not included with last quote, final cost as shown above
- Delivery expected: Possible October 2025, Probable July 2026

3. Foster Coach Sales, Inc.

- \$399, 135.00
- Price includes new cot
- Delivery expected 36 months

ATTACHMENTS

1. Foster Coach Quotation
2. Legacy Emergency Vehicles Quotation
3. Osage Ambulances Quotation

FOSTER COACH SALES, INC.

903 Prosperity Drive Street P.O. Box 700
Sterling, Illinois 61081

Phone: (815) 625-3276
(800) 369-4215
Fax: (815) 625-7222
Web site: www.fostercoach.com

AF01375

QUOTATION

TO: WINDSOR HEIGHTS FIRE DEPARTMENT
1133 66TH ST
WINDSOR HEIGHTS, IA 50324

DATE: 01/07/25

ATTN: BOARD MEMBERS

REFERENCE: NEW AMBUALNCE

We are pleased to submit the following quotation in accordance with your request and subject to the Terms and Conditions listed below and on the reverse side hereof.

QTY.	DESCRIPTION	EACH	NET PRICE
1	2026-27 FORD F550 4X4 GAS CHASSIS CUSTOM BUILT ON A HORTON 623 ALL ALUMINUM CONVERSION PER ATTACHED BUILD SPECIFICATIONS AND PROPOSAL DRAWINGS. NOTE: LETTERING AND STRIPING ARE NOT INCLUDED IN THE FINAL COST OF THE AMBULANCE.	\$ 365,635.00	\$ 365,635.00
		\$ Total	\$ 365,635.00
	ACCEPTED BY: _____ TITLE: _____ Date: _____		

ESTIMATED DELIVERY:
30 MONTHS PENDING CURRENT BACKLOG

PROPOSED BY: 
ANDREW FOSTER, VICE PRESIDENT

LEGACY EMERGENCY VEHICLES

FORMAL QUOTE

#197-0001

Dalton Jacobson

Owner/Sales/Service

319-269-9232

dalton.j@legacyemergencyvehicles.com

2453 East Kenyon Ave.

Des Moines, IA 50320

Attention: Jim Mease

Company Name: Windsor Heights Fire Dept.

Address: 1133 66th St.

Windsor Heights, IA 50324

Reference Quote #: 197-0001 4th Draft

Date: 9/23/24

Exp. Date: 1/31/2025

Quantity	Description	Each	Extended
1	LIFE LINE 171" X 96" SUPERLINER TYPE I PASS-THRU ON A 2024 FORD F-450 4WD GAS ENGINE WITH INCLUDED OPTIONS IN FULL QUOTE	\$364,249.00	\$364,249.00
1	LEGACY EMERGENCY VEHICLES DISCOUNT FOR 10% DEPOSIT OF TOTAL COST OF AMBULANCE ORDER	(\$5,000.00)	(\$5,000.00)
1	ADDITIONAL OPTION: STRYKER POWER PRO1 COT (HIGH CONFIG.)	\$30,211.00	\$30,211.00
	NOTE TO CUSTOMER: YOU DO NOT HAVE TO PAY A DEPOSIT. THIS IS ONLY AN OPTION PROVIDED TO THE CUSTOMER. IF YOU ELECT TO NOT PAY A 10% DEPOSIT THEIR WILL BE NO DISCOUNT AND PAYMENT IS DUE IN FULL UPON DELIVERY.		\$0.00
	NOTE: LEGACY EV WILL TAKE CARE OF THE \$1,000 PRICE INCREASE IN JANUARY SO THAT WE ARE ABLE TO EXTEND THE EXPIRATION DATE.		\$0.00
		Total	\$389,460.00

Date:

Title:

Accepted By:

By signing the customer is agreeing to purchase the products or ambulance conversion as stated in the work order/quote with options agreed upon by customer and dealer. Signing this document gives the dealer permission to submit a PO in order to process that quote/work order. Payment is due upon delivery.

In the event that the customer is trading in a used ambulance they reserve the right to not accept the trade in offer we provided up until delivery of the new unit ordered.

Thank you for your business. It's a pleasure to work with you on your order.

Sincerely yours,
Dalton Jacobson
Legacy Emergency Vehicles
2453 East Kenyon Ave.
Des Moines, IA





Windsor Heights Fire/EMS Department
Chief Jim Mease
1133 66th St.
Windsor Heights, IA 50324

December 26, 2024

Thank you for allowing North Central Emergency Vehicles and Osage Ambulances the opportunity to provide a proposal for a new 2028 F 550 Gas Ambulance. We remain very interested in earning your trust and your business.

Since 2021 the world has seen an unprecedented change in supply chain and pricing.

The industry has seen Ford continuing to increase prices on the chassis that we ordered last year. The Ford rebates are not being confirmed and Osage, while they will honor their pricing, they will not honor Ford's pricing. We are estimating all proposals and not including the Ford rebate in the totals. (We do think there will be some rebate from Ford, but we have no idea how much).

Stryker Products have announced a large increase (10%) as well and new freight charges.

Ambulance Proposal

2027-2028 F 550 4 x 4 GAS Chassis with custom Osage Super Warrior Body; \$ 328,540.00

Please note Ford Chassis pricing is subject to change.

See attached memo for additional options.

Less Ford GPC - Any Rebates will be used to reduce final invoice

This proposal shall be honored for thirty days and may be extended if approved by Osage.

Delivery time shall be the first quarter 2028 Or sooner depending on order date.

Stryker Power Load – installed – estimated price for 2027 --- \$ 33,500.00

Thank you.

Respectfully,

David B. Cole

Iowa Sales Rep



STAFF REPORT
CITY COUNCIL
February 3, 2025

TO: CITY COUNCIL

FROM: Rachelle Swisher, Finance Director

SUBJECT: Discuss FY26 City Budget Including Equipment Replacement Plan

GENERAL INFORMATION

ATTACHMENTS

1. FY26 PROPOSED BUDGET BINDER DRAFT
2. FY26 DOM Budget DRAFT 2.3.25
3. FY26 ERP DRAFT
4. DRAFT FY2026 CIP12-31-24



WINDSOR
HEIGHTS
the heart of it all

FY26 PROPOSED BUDGET

February 3, 2025

WINDSOR HEIGHTS MAYOR & CITY COUNCIL



Mayor
Mike Jones



Mayor Pro-Tem
Susan Skeries



Councilor
Threase Harms



Councilor
Lauren Campbell



Councilor
Joseph Jones



Councilor
Michael Libbie

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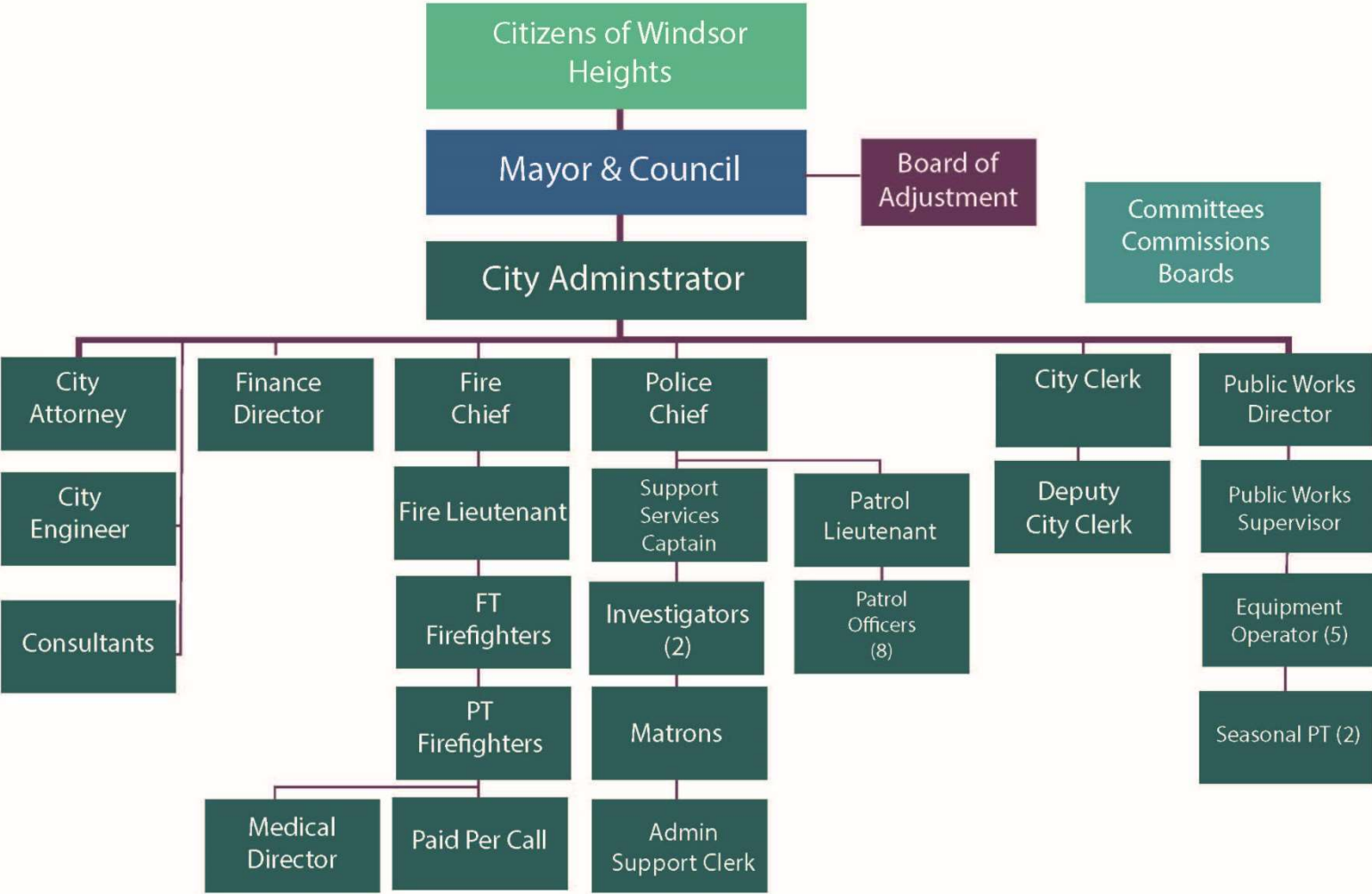
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EQUIPMENT REPLACEMENT PLAN (APPENDIX B)

CAPITAL IMPROVEMENT PLAN (APPENDIX C)

ORGANIZATION CHART

City of Windsor Heights Organization Chart



BUDGET SCHEDULE

FY26 BUDGET CALENDAR

State Law requires reporting of the FY26 City Budget by 4/30/25.

January 2025

- 1/9/25 Personnel & Finance Committee review draft CIP/ERP
- 1/23/25 Draft ERP discussion at Council meeting

February 2025

- 2/3/25 Budget Kickoff Meeting (w/updated CIP/ERP) to Council & Public Forum held
- 2/4/25-2/12/25 Individual meetings with Council (if requested)
- Week of 2/10/25 Personnel & Finance Committee review proposed budget
- 2/17/25
 - A. City Council Budget/CIP/ERP Review Work Session
 - B. Council sets Capital Improvement Plan Public Hearing (to be held on 3/3)

March 2025

- 3/3/25
 - A. Capital Improvement Plan Public Hearing
 - B. Resolution for Capital Improvement Plan approved
 - C. Council sets Proposed Tax Rate Levy Public Hearing (to be held on 4/7)

April 2025

- 4/7/25
 - A. Public Hearing held on Proposed Tax Levy (Special Council meeting)
 - B. Set a date for the Budget Adoption Hearing (Regular Council meeting)
- 4/21/25
 - A. Hold Public Hearing on Budget Adoption
 - B. Adopt the FY26 Budget
- 4/30/25 Approved Budget certified to Iowa Dept. of Mgmt. and Polk County Auditor

COUNCIL GOALS & OBJECTIVES

Community Mission Statement

The mission of Windsor Heights is to provide our residents, businesses, and visitors with a safe environment and exceptional city services through a team-oriented and fiscally responsible approach in order to create a unique, sustainably vibrant community.

(Adopted December 18, 2023).

Goal #1 – Focus City services, resources, and cooperative partnerships on creating and maintaining a safe community for all residents, businesses, and visitors.

Objective A: Recruit and train quality staff while maintaining adequate staffing levels in all departments, including 24/7 paramedic staffing.

Objective B: Implement policies and practices leading to clean air and protection of water resources – i.e. expanding anti-smoking initiatives and membership in Central Iowa Water Trails efforts.

Objective C: Replace aging vehicles and equipment and continue the transition to fuel efficient vehicles as practical.

Objective D: The City should work to become the employer of choice for our employees, and perspective employees, by ensuring alignment of wages, benefits, and employee support to create a positive and engaging work environment.

Goal #2 – Develop and implement processes to ensure delivery of exceptional City services.

Objective A: Pursue shared and contracted services with neighboring community partners in service delivery on recreational programming, and traffic signal operation and maintenance.

Objective B: Revise the City's code of ordinances to address outdated regulations.

Objective C: Improve the City's enforcement of nuisance violations in an effort to cleanup properties throughout the community.

Goal #3 – Protect the financial future of the City through reasonable and well-thought-out fiscal policies and adherence to generally accepted government finance practices.

Objective A: Update the Equipment Replacement Plan (ERP) annually.

Objective B: Update the Capital Improvement Program (CIP) annually and periodically review and adjust utility capital improvement fund rates to generate sufficient revenue to implement scheduled CIP projects.

Objective C: Establish a standard budgeting process that will institute continuity that will allow multi-year analysis and decision-making.

Objective D: Receive a clean fiscal year audit report.

Objective E: Investigate and pursue new revenue streams.

Goal #4 – Create and maintain a high-functioning City team of elected officials, professional staff and volunteer board members via regular and pertinent training and continuing education opportunities.

Objective A: Review and revise the Council and employee handbooks.

Objective B: Identify and allocate resources to support ongoing employee training focused upon improving customer service.

Objective C: Develop a retention and succession plan to prepare for future employee turnover.

COUNCIL GOALS & OBJECTIVES

Goal #5 – Build a unique and sustainably vibrant community that contributes to the overall character of the Greater Des Moines region.

Objective A: Invest in art and culture opportunities unique to the region in cooperation with Bravo.

Objective B: Continue to invest in community events with community partners, including the Chamber of Commerce and provide funding to the Windsor Heights Foundation.

Objective C: Invest in community artwork.

Objective D: Continue implementation of the Colby Park plan; make decisions regarding what to do with Lions Park; pursue new trails and bike hub facility; and initiate discussion for establishing a new northeast park amenity.

Objective E: Consider policies and programs to expand and diversify the tree canopy of Windsor Heights both on public and private property.

Goal #6 – Pursue a comprehensive economic development strategy that supports a healthy business sector and contributes to a better overall quality of life.

Objective A: Explore partnership opportunities with the Chamber to attract and retain businesses aligned with feedback from the community survey.

Objective B: Build on the existing partnership with local development partners.

Objective C: Establish a source of funding in support of property redevelopment and rehabilitation. Specifically focus resources in support of minority-owned business grants.

Goal #7 – Plan and invest in City infrastructure to ensure the long-term viability of the community's roadways, utilities, parks, IT infrastructure and public facilities.

Objective A: Continue to update the Capital Improvement Plan for streets, sewers, parks, storm sewers, city facility improvements, sidewalks/trailways, flood mitigation and other large scale investments.

Objective B: Expand existing community recreation options and pursue partnerships with the schools and other community organizations.

Objective C: Complete a long-term public facilities plan.

Objective D: Implement a plan to address Walnut Creek bank stabilization.

Objective E: Focus capital resources on improving safety and availability of pedestrian facilities.

Objective F: Research and identify green technologies that could be made available to residents and businesses as a way of addressing environmental concerns.

COUNCIL GOALS & OBJECTIVES

Goal #8 – Pursue initiatives aimed at growing Windsor Heights as a diverse and inclusive community.

Objective A: Identify new and emerging housing sector needs and develop strategies to pursue.

Objective B: Continue to plan and hold new multi-cultural special events with community partners.

Objective C: Maintain City's commitment to unbiased policing and equal treatment of all residents regardless of age, race, sexual orientation, or physical disability.

Objective D: Pursue grant opportunities to encourage the growth of minority-owned businesses.

Goal #9 – Continually strive to better communicate with Windsor Heights residents to achieve the most transparent government and understand citizen viewpoints.

Objective A: Continue to communicate with residents through newsletters and look at other opportunities to communicate that will best serve the community.

Objective B: Maximize the use of social media to offer multiple methods of disseminating information to the public.

Objective C: Utilize marketing initiatives to show Windsor Heights is a destination for visitors in the Des Moines Metro.

Objective D: Continuously improve the City's website and data management processes to ensure relevant information is accessible to staff, elected officials and the public.

Objective E: Highlight programs in the metro area that can benefit Windsor Heights' residents; Metro Home Program, Storm Water Best Management Reimbursement Program, Neighborhood Finance Corporation, etc.

EXECUTIVE SUMMARY

The FY26 proposed budget has a focus on sustained investment in infrastructure projects and providing our staff with the tools they need to continue the excellent services they provide.

Highlights:

Proposed decrease of three cents (\$.03) to the Total Tax Levy Rate

The City has been actively working to decrease operational costs while appropriating funds for future capital needs. The city's FY26 general levy is proposed to decrease by three cents (\$.03) to \$14.20958 per thousand of taxable valuation.

Change to FY26 Revenues (Figures 1 & 3)

Property tax valuations increased by 2.30%. Revenue increased by 1.2% This is based on House File 718, which established the consolidated general fund levy - which constrains revenue increases based on taxable valuation growth, created the exemption for 65+ homeowners and doubled the exemption for veterans.

It is estimated that the LOST revenues will increase to \$1,540,800. All other major revenue streams are expected to increase in FY26. See Figure 1 for a breakdown.

Total FY26 revenues are estimated at \$11,620,120.

City Controlled Enterprise & Capital Improvement Fees

On July 1, 2024, Storm Water fees increased from \$5.5 per Equivalent Residential Unit (ERU) to \$9 per ERU to self-fund scheduled CIP storm water projects.

The water Capital Improvement Fee is set at \$2 per 1,000-gallon.

Franchise Fees are unchanged at 5% residential and 5% commercial.

The Annual Fee Schedule for calendar year 2025 went into effect on January 1, 2025.

Change to FY26 Expenses (Figures 2 & 4)

Total FY26 expenses (excluding Capital Projects, the ERP and Debt Service) are estimated at \$8,116,503. FY25 expenses were estimated at \$7,848,807. This is an increase of 3.41%. See Figure 2 for a breakdown of the expenses. Of note:

- The TIF Rebates line increased the budget by \$325,000. This line item will be reimbursed by TIF revenues.
- The Storm Water fund shows an increase of \$150,000 to account for the Wilshire Boulevard storm water project.
- Wages and Benefits show increases in all departments. Union employee wages are set to increase as per applicable labor contracts.

EXECUTIVE SUMMARY

Capital Investment Projects

The proposed new Capital Projects for FY26 include street reconstruction/mill & overlay projects, a storm water project, and the Equipment Replacement Plan purchases.

- 68th Street South (full reconstruction) – Bond funds already received will fund the project.
- 74th Street (full reconstruction) – Cash on hand will fund the project.
- Forest Court (mill and overlay) - Cash on hand will fund the project.
- University Avenue (sealing and striping) – TIF on hand will fund the project.
- Wilshire Boulevard (storm water project) – Storm water funds on hand will fund the project.

ERP Purchases for FY26

The City's Equipment Replacement Plan (ERP) is a part of the FY26 budget which details plans for equipment needs for Police, Fire/EMS, Streets, IT and the Community Center. Included are the following:

Police

• Hybrid Investigation Fleet Vehicle	\$ 65,000
• Laptop Replacement (2) for Mobile Use	<u>\$ 15,000</u>
Total	\$ 80,000

Fire/EMS

• Turnout Gear (2)	\$ 7,750
• Ambulance	\$ 400,000
• Fire Hose	\$ 3,000
• Mobile Data Terminal (2)	<u>\$ 15,000</u>
Total	\$ 425,750

Streets

• Dump Truck #6 (20% Deposit)	\$ 50,000
• Class Five Pickup Truck	\$ 120,000
• PW Shop Floor Repairs	<u>\$ 65,000</u>
Total	\$ 235,000

Systems & Technology

• Software - Workstations	\$ 7,500
• Workstations	\$ 10,000
• BodyCam Hard Drives	\$ 2,000
• Firewall Software	\$ 1,200
• City Hall Conf Room Camera/Microphone	<u>\$ 3,000</u>
Total	\$ 23,700

EXECUTIVE SUMMARY

Community Center

• Appliance/Equipment Replacement	\$ 8,000
• Table Replacement – Phase 2	<u>\$ 20,000</u>
Total	\$ 28,000

Local Option Sales Tax (LOST)

LOST funds are to be dedicated 50% to reducing property taxes and 50% for any other use. For FY26, these funds have been allocated as follows:

• Community Center	\$ 30,000
• Library	\$ 69,560
• Funding the Equipment Replacement Plan	\$ 225,000
• DART	\$ 16,874
• 74 th Street Reconstruction Project	<u>\$ 1,199,366</u>
Total	\$ 1,540,800

Future Street Project Funds

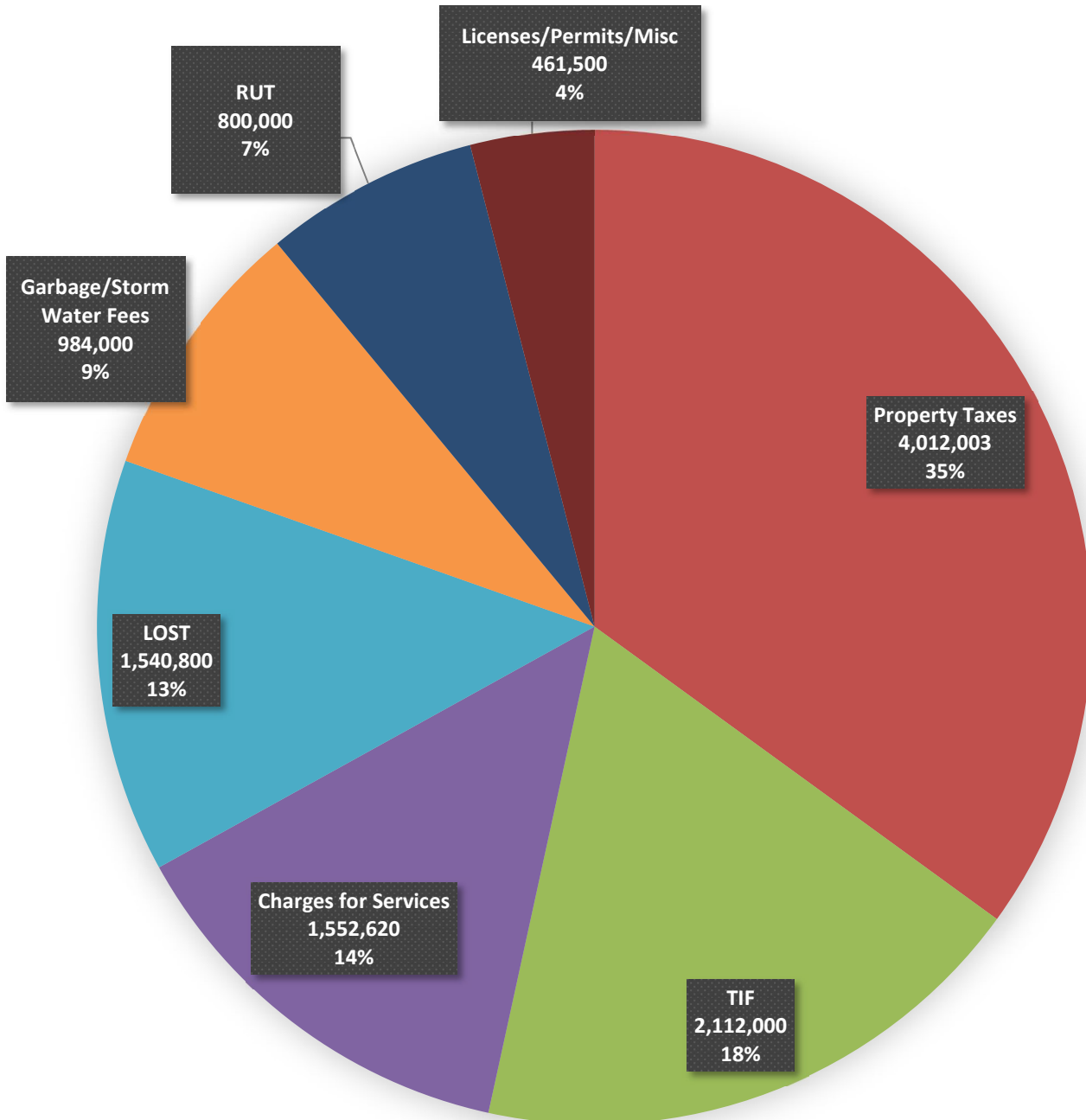
Funds received and put in reserve for future street projects will remain unallocated until the Council approves their use. These funds must be used for Street Infrastructure Projects.

Unallocated Balance in the Fund	\$ 4,298,868
Proposed uses - Forest Court Mill and Overlay Project, 74 th Street, Patio/Street Redesign Project	

FINANCIAL SNAPSHOTS

FY26 Budgeted Revenues

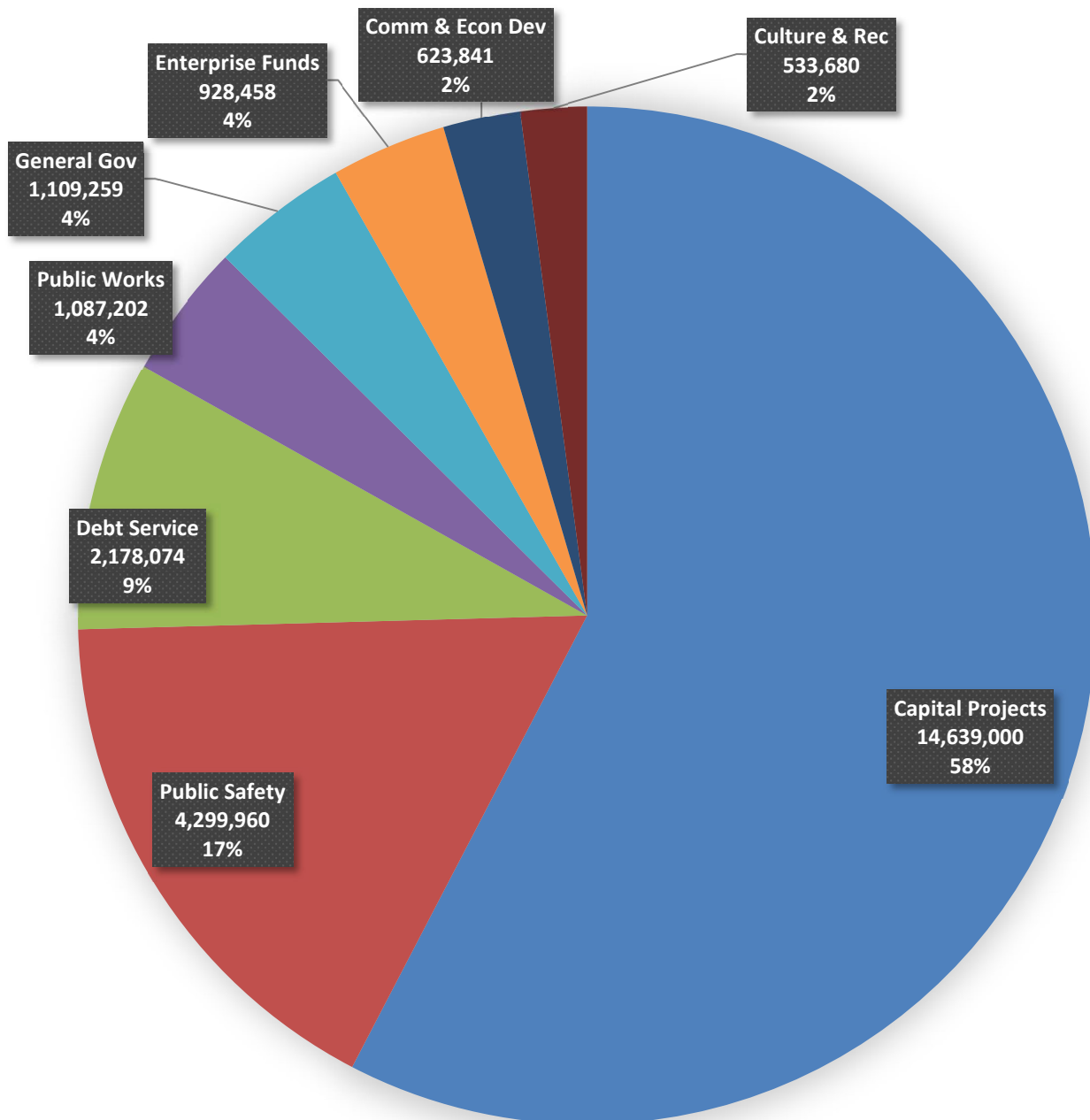
Figure 1



FINANCIAL SNAPSHOTS

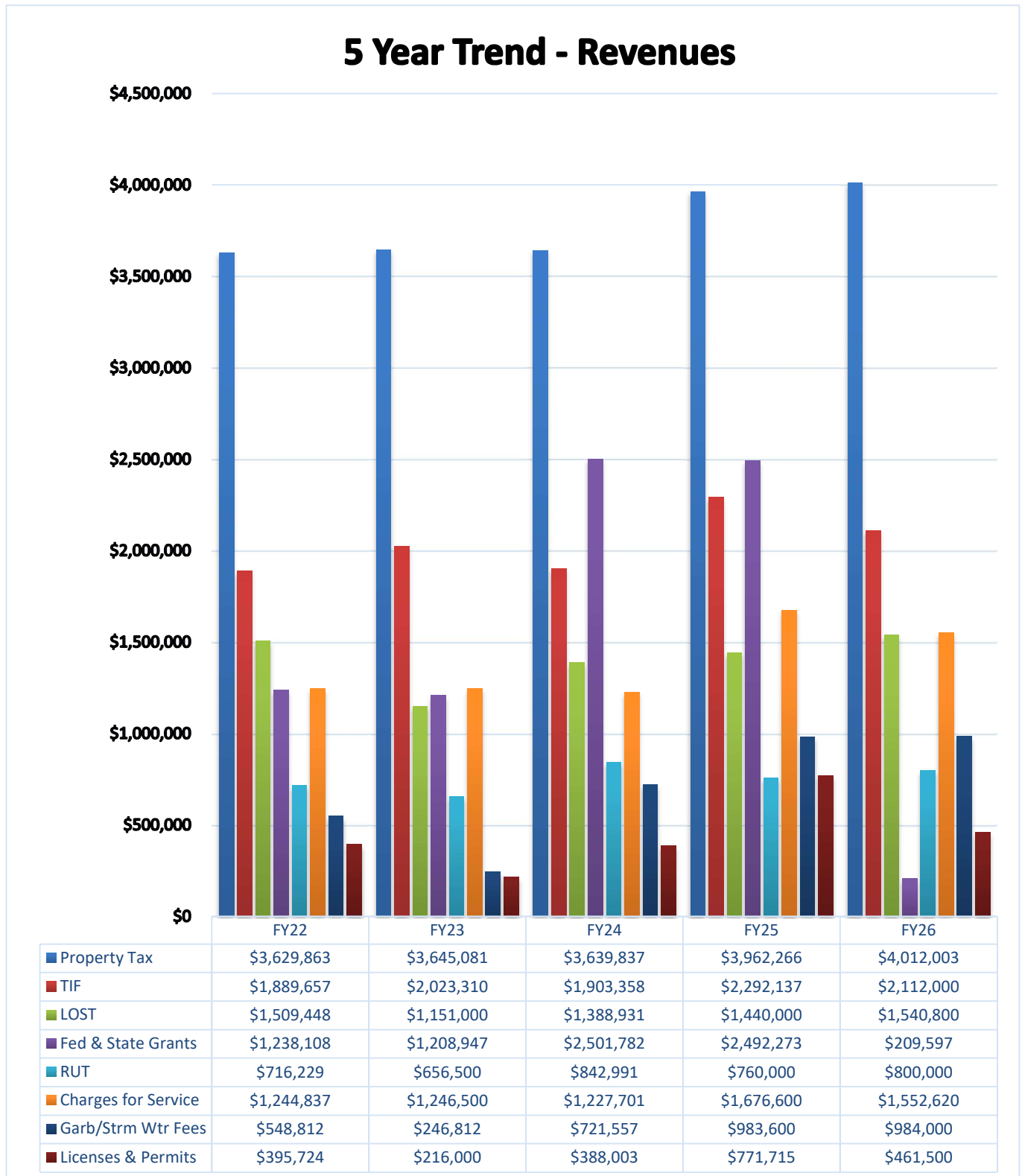
FY26 Budgeted Expenses

Figure 2



FINANCIAL SNAPSHOTS

Figure 3

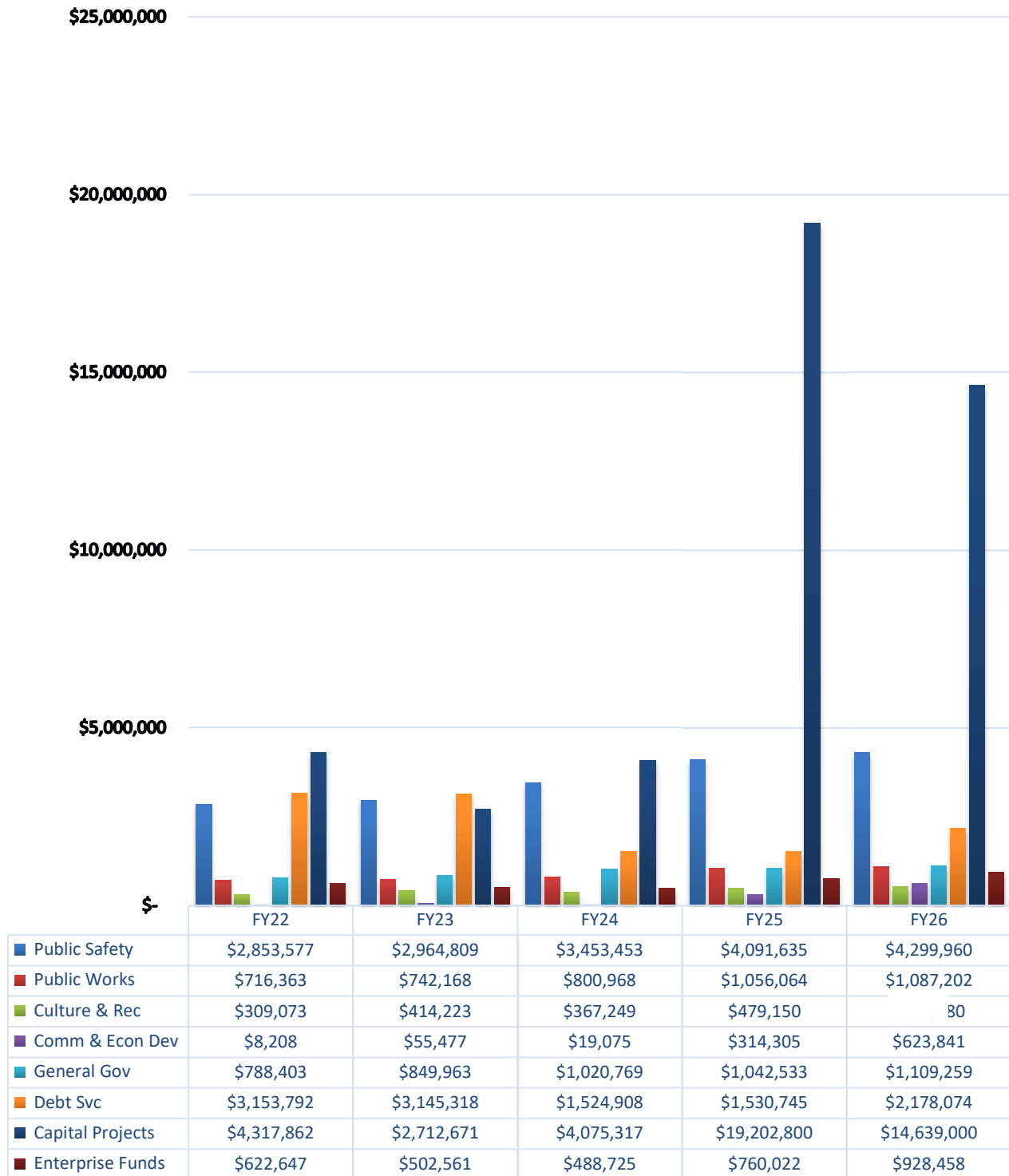


Notes: FY22, FY23 & FY24 are Actual; FY25 is as Budgeted; FY26 is as Proposed

FINANCIAL SNAPSHOTS

Figure 4

5 Year Trend - Expenses



Notes: FY22, FY23 & FY24 are Actual; FY25 is as Budgeted; FY26 is as Proposed

DEPARTMENTAL EXPENDITURES

Public Safety

The Police and Fire Chiefs manage five budgets combined, including Police, Fire, EMS, Emergency Management, and Animal Control. These budgets support the City's public safety operations and provide funding for 28E agreements related to Emergency Management and Animal Control.

The Police Department employs 14 full-time employees and 1 part-time officer. The Fire/EMS Department has 7 full-time employees, 19 part-time employees, and 5 paid-on-call employees.

Activity	FY24	FY25	FY26	Change(%)
	Actual	Budgeted	Proposed	
Salaries and Benefits	\$2,651,967.11	\$3,223,841	\$3,356,595	4.11%
Training/Allowances/Dues	\$72,769	\$80,910	\$74,910	(7.42%)
Building/Vehicle Repair & Maintenance/Communications	\$345,589	\$409,410	\$421,255	2.89%
Professional Fees/Contributions & Payments	\$138,906	\$198,000	\$243,000	22.73%
Operating Supplies	\$78,455.49	\$86,850	\$87,800	1.09%
Emergency Management	\$9,497	10,700	\$10,700	0.00%
Building Inspections	\$103,064	\$100,000	\$100,000	0.00%
Animal Control	\$3,541	\$5,500	\$5,500	0.00%
Total	\$3,403,788.60	\$4,115,211	\$4,299,760	4.48%

- The FY26 Police Department budget includes increases in salaries and benefits that are in line with the collective bargaining contract. Moderate increases were requested in other areas due to the increased costs of goods and services.
- Within the Professional Fees line is the proposed Crisis Intervention Partnership with the City of Urbandale. The department would have access to social workers and specially trained law enforcement officers to respond to calls related to people in crisis, to assist unhoused individuals, to provide better follow-up, and to connect with other external resources on these types of incidents.
- The FY26 Fire Department budget includes increases in salaries and benefits in accordance with the collective bargaining contract. Also, as a reminder, salaries and benefits for Fire/EMS are split 10% to the Fire Department budget and 90% to the EMS budget to mirror actual job duties and significantly reduce worker compensation costs for the city. Please note that Ground Emergency Medical Transport (GEMT) costs are a "pass-through." The department recovers those expenditures in the GEMT revenues.

DEPARTMENTAL EXPENDITURES

Public Works

The Public Works budget includes expenditures for streets, right-of-way forestry, and snow removal. The equivalent of 4.25 FTEs is funded out of the Public Works Department. Also included in the Public Works operating budget is money for fuel and motor vehicle operations, repair for vehicles and equipment, minor contracted services, operating supplies, and facilities maintenance for the Public Works shop.

Activity	FY24	FY25	FY26	Change(%)
	Actual	Budgeted	Proposed	
Salaries and Benefits	\$479,110	\$589,464	\$588,852	(.10%)
Training/Allowances/Dues	\$7,431	\$12,600	\$15,000	19.04%
Building/Vehicle Repair & Maintenance	\$107,312	\$185,000	\$181,350	(1.97%)
Prof Fees/Contributions & Payments	\$50,827	\$63,000	\$64,500	2.38%
Operating Supplies	\$72,558	\$76,000	\$76,000	0.00%
Street Maintenance	\$36,324	\$75,000	\$80,000	6.67%
Total	\$753,562	\$1,001,064	\$1,005,702	.46%

- Salary allocations were changed to better reflect the percentage of time that City Hall Staff are spending on Public Works functions. This change resulted in a decrease in the Salaries and Benefits line.
- The \$5,000 increase in the Street Maintenance line is to account for additional supplies needed for Public Works staff to provide maintenance services in-house for streets.
- Training/Allowance/Dues increased for additional staff training with the American Public Works Association (APWA) and Snow Plow Operator Training (SPOT).

DEPARTMENTAL EXPENDITURES

Culture & Recreation

Culture & Recreation encompasses a broad range of services within the city. These services include the operation and maintenance of our parks, the Community Event Center, and trails. Funding is also included for library services, outside organizations, the Des Moines Sister City program, and Special Events. The equivalent of 2.10 FTEs is funded out of the Culture & Recreation budget.

Activity	FY24	FY25	FY26	Change(%)
	Actual	Budgeted	Proposed	
Salaries and Benefits	\$117,518	\$160,600	\$189,970	18.28%
Building/Vehicle Repair & Maintenance	\$38,688	\$84,700	\$75,700	(10.63%)
Professional Fees/Contributions & Payments	\$4,002	\$25,700	\$20,900	(18.68%)
Operating Supplies	\$83,561	\$93,000	\$96,000	3.23%
Community Center/Zoo/Marina	\$11,807	\$27,450	\$27,450	0.00%
Special Events	\$43,356	\$50,000	\$55,000	10.00%
Library	\$65,564	\$67,600	\$69,560	2.90%
Total	\$364,496	\$509,050	\$534,580	5.02%

- Salary allocations were changed to better reflect the percentage of time that City Hall and Public Works staff are spending on the CEC. These changes also reflect Public Works staff time spent in Colby Park with the new playground and splash pad operation and maintenance. These changes resulted in an increase in the Salaries & Benefits line.
- Building/Vehicle Repair and Professional Fees/Contributions & Payments were decreased this year to account for more precise budgeting in these line items.
- The Community Center/Zoo/Marina line is where funding resides for outside organization requests. There was no change from last year to this line item.
- The Special Events line was increased by \$5,000 due to current year fundraising by the Special Events Committee, according to the formula determined during the last budget season.

DEPARTMENTAL EXPENDITURES

Community & Economic Development

The Community & Economic Development department contains any activity related to economic development, housing, and transportation initiatives.

Activity	FY24	FY25	FY26	Change(%)
	Actual	Budgeted	Proposed	
Mid-Iowa Planning Alliance - MIPA	\$18,707	\$38,968	\$9,237	(75.60%)
Transportation Funding	\$12,023	\$12,023	\$28,897	140.37%
Economic Development	\$396	\$263,314	\$260,707	3.52%
TIF Reimbursements	\$0.00	\$0.00	\$325,000	100%
Total	\$31,126	\$314,305	\$623,841	98.48%

- The city funds the Mid Iowa Planning Alliance – MIPA (previously the Metro Home program) in collaboration with 7 other Metro cities. The FY26 expenditure includes administrative expenses only. The FY27 expenditure is estimated at \$40,000.
- Request for support of the Des Moines International Airport terminal project was granted through Resolution 2022-03. We have paid \$12,023 per year starting in FY23 and will stop funding in FY26. Also included in the Transportation Funding line is the payment to DART in the amount of \$16,874.
- The Economic Development line has a current balance of \$260,707. This amount has been budgeted for FY26. Expenses incurred through January 30, 2025, are \$2,607.
- TIF Reimbursements is a new line that has been added. This line will house any TIF eligible expenses. Examples would be salaries, attorney's fees and development agreements. All items paid out of this line will be reimbursed by TIF. An amendment to the FY25 Budget will be done for these expenses.

DEPARTMENTAL EXPENDITURES

General Government

The General Government department encompasses many different functions. Included are the wages, benefits, training, and travel for the Mayor, Council, City Administrator, Clerk, Finance Director, and the Deputy Clerk.

This department also budgets for elections, legal services, our annual audit, City Hall operating expenses, repairs, maintenance, and insurance.

IT services are also included in this department, which maintains the citywide information technology infrastructure, including our servers.

Professional Services, such as engineering, bond counsel, financial services, and web hosting are also part of the General Government budget.

The equivalents of 4 FTEs, the Mayor, and Council are funded out of the General Government budget.

Activity	FY24	FY25	FY26	Change(%)
	Actual	Budgeted	Proposed	
Salaries and Benefits	\$496,146	\$517,187	\$573,315	10.85%
Training/Travel/Memberships	\$60,717	\$54,700	\$54,300	(0.73%)
Building Maintenance & Utilities	\$21,644	\$24,600	\$24,300	(1.22%)
Professional Services	\$307,950	\$315,150	\$307,000	(2.59%)
Operating Supplies	\$27,607	\$38,700	\$39,200	1.29%
IT/Communications	\$83,385	\$106,800	\$106,000	(0.75%)
Total	\$997,449	\$1,057,137	\$1,104,115	4.44%

- Salary allocations were changed to better reflect the percentage of time that City Hall Staff spend on Public Works functions, the Community Center, Storm Water, and Garbage. These functions will now be paid for by their respective Enterprise Funds.
- A portion of the increase in the Salaries and Benefits line is for the City Clerk and Finance Director salary changes, after approval of the salary study by Council on 1/17/25.

DEPARTMENTAL EXPENDITURES

Debt Service

The Debt Service fund is where we account for any debt that the city owes. The city currently has five outstanding bonds, all of which are General Obligation Bonds.

Activity	FY24	FY25	FY26	Change(%)
	Actual	Budgeted	Proposed	
2016A Bond	\$135,638	\$138,038	\$135,125	(2.11%)
2016B Bond	\$271,083	\$271,023	\$270,410	(0.23%)
2020A Bond	\$840,430	\$843,840	\$841,776	(0.24%)
2020B Bond	\$277,758	\$277,844	\$277,813	(0.01%)
2024A Bond	-	\$579,799	\$652,950	12.62%
Total	\$1,524,909	\$2,110,544	\$2,178,074	4.20%

- 2016A, 2016B and 2020B are paid utilizing Tax Increment Financing (TIF).
- 2020A is paid utilizing the Debt Service Levy.
- 2024A is paid utilizing a combination of Tax Increment Financing (TIF) and Debt Service Levy.

DEPARTMENTAL EXPENDITURES

Capital Projects

Large-scale projects are accounted for under the Capital Projects fund. This is just the first step in implementing any project the city decides to undertake. All projects must also be included in the Capital Improvement Plan and then approved by Council.

Project	FY26 Proposed	Status	Funding Source
73 rd Street – Phase 1	\$5,101,526	In Progress	Bond & MPO Funds
Colby Park	\$350,000	In Progress	TIF
Colby Park Water Access	\$225,000	FY26	Grant of \$125,000/TIF
University Ave Sealing/Striping	\$255,000	FY25 Start	TIF
68 th Street North	\$150,000	In Progress	Project Funds
68 th Street South	\$3,132,129	FY25 Start	Bond Funds
74 th Street	\$2,684,900	FY26	Future Streets Fund
Forest Court	\$650,000	FY26	Future Streets Fund
Sidewalk Grant Program	\$47,995	Ongoing	Project Funds
Patio/Street Redesign Project	\$50,000	FY26	Future Streets Fund
Public Safety Building Repairs	\$1,200,000	TBD	LOST
Wilshire Blvd Storm Sewer	\$150,000	FY26	Storm Water Fund
Total Capital Projects	\$13,996,550		
Equipment Replacement Plan	FY26 Proposed	Status	Funding Source
Police	\$80,000	FY26	ERP Funds
Fire/EMS	\$425,750	FY26	ERP Funds
Streets	\$235,000	FY26	ERP Funds
IT	\$23,700	FY26	ERP Funds
CEC	\$28,000	FY26	ERP Funds/LOST
Total Equip Replacement Plan	\$792,450		

DEPARTMENTAL EXPENDITURES

- 73rd Street – Phase 1: MPO Funds in the amount of \$2,250,000 have been allocated and bonding occurred in the Spring of FY24 for the project.
- Colby Park: TIF funds will be used for any work left to be done on the project.
- Colby Park ICON Water Access: A grant in the amount of \$125,000 and TIF will be used.
- University Ave: TIF funds will be used for the sealing and striping projects.
- 68th Street North: Project funds already on hand will be used for any work left on the project.
- 68th Street South: Bond funds are in place to pay for the project.
- 74th Street: Future Streets funds will be used to pay for the reconstruction project.
- Forest Court: Future Streets funds will be used to pay for the mill and overlay project.
- The Sidewalk Grant Program: Project funds are in place to pay for any grant requests.
- Patio/Street Redesign: Future Streets Funds will be used for the project.
- Public Safety Building Repairs: LOST will be used once project details are determined.

Funding Sources Available:

TIF: \$1,167,454

Future Street Projects Fund: \$4,298,868

ENTERPRISE FUNDS

Garbage

Garbage and recycling are managed by Metro Waste Authority. They handle all aspects of the collection and then invoice the city for payment. The city receives a check every month from Des Moines Water Works for fees they have collected from residents for garbage and recycling. We then pay Metro Waste Authority for these fees. All rates are set by Metro Waste Authority.

Activity	FY24	FY25	FY26	Change(%)
	Actual	Budgeted	Proposed	
Garbage & Recycling Fees	\$347,030	\$390,152	\$394,000	0.99%
Storm Cleanup	\$23,400	\$0.00	\$30,000	100%
Wages – Fulltime	\$0	\$5,750	\$7,656	33.14%
Total	\$370,430	\$395,902	\$431,656	9.03%

- Storm Cleanup was not budgeted in FY25, but we incurred expenses of \$27,632.45. The proposed amount for FY26 is \$30,000.
- Wages were increased due to the addition of FICA/IPERS being allocated from this fund.

ENTERPRISE FUNDS

Storm Water

The Storm Water operating budget is used to pay for expenses incurred while maintaining the City's storm sewer infrastructure and maintaining compliance with the City's MS4 permit through the Department of Natural Resources. The Storm Water operating budget is used to fund 1.30 FTEs. Examples of work done include reconstruction of intakes, replacement of failed pipes and structures, and street sweeping.

Activity	FY23	FY24	FY25	Change(%)
	Actual	Budgeted	Proposed	
Salaries and Benefits	\$75,663	\$110,220	\$110,352	.11%
Operating Supplies	\$2,748	\$23,750	\$23,750	0.00%
Prof Fees/Contributions & Payments	\$34,004	\$62,000	\$76,200	21.29%
Storm Water Capital Outlay	\$3,543	\$136,500	\$286,500	209.89%
Total	\$115,958	\$332,470	\$496,802	49.42%

- Salary allocations were changed to better reflect the percentage of time that City Hall Staff spend on storm water functions. These changes resulted in a small increase in the Salaries and Benefits line.
- The Prof Fees/Contributions & Payments line was increased by \$13,200 to account for additional engineering and survey work for planned storm sewer replacements.
- Storm Water Capital Outlay was increased by \$150,000 to pay for the Wilshire Boulevard storm sewer project.

STATE BUDGET FORMS (APPENDIX A)

EQUIPMENT REPLACEMENT PLAN (APPENDIX B)

CAPITAL IMPROVEMENT PLAN (APPENDIX C)

FISCAL YEAR JULY 1, 2025 - JUNE 30, 2026
ADOPTION OF BUDGET AND CERTIFICATION OF CITY TAXES

The City of : **WINDSOR HEIGHTS** County Name: **POLK COUNTY**

Adopted On: (entered upon adoption) Resolution: (entered upon adoption)

The below-signed certifies that the City Council, on the date stated above, lawfully approved the named resolution adopting a budget for next fiscal year, as summarized on this and the supporting pages.

Attached is Long Term Debt Schedule Form 703 which lists any and all of the debt service obligations of the City.

		With Gas & Electric		Without Gas & Electric	
Regular	2a	266,441,975	2b	264,422,826	City Number: 77-728 Last Official Census: 5,252
DEBT SERVICE	3a	334,309,622	3b	332,290,473	
Ag Land	4a	0			

Consolidated General Fund Levy Calculation

	CGFL Max Rate	CGFL Max Dollars	Non-TIF Taxable w/ G&E	Taxable Growth %
FY 2025 Budget Data	8.31086	2,164,625	260,457,448	2.30
	Limitation Percentage			
	0			
	CGFL Max Rate	CGFL Max Dollars	Revenue Growth %	
Max Allowed CGFL for FY 2026	8.31086	2,214,362	2.30	

TAXES LEVIED

Code Sec.	Dollar Limit	Purpose	ENTER FIRE DISTRICT RATE BELOW			(A) Request with Utility Replacement	(B) Property Taxes Levied		(C) Rate
384.1	8.31086	Consolidated General Fund			5	2,214,362	2,197,581	43	8.31086
		Non-Voted Other Permissible Levies							
384.12(1)	0.95000	Opr & Maint publicly owned Transit			7		0	45	0.00000
384.12(2)	0.27000	Aviation Authority (under sec.330A.15)			11		0	49	0.00000
384.12(3)	Amt Nec	Liability, property & self insurance costs			14	195,000	193,523	52	0.73187
384.12(5)	Amt Nec	Support of a Local Emerg.Mgmt.Comm.			462	9,500	9,429	465	0.03566
		Voted Other Permissible Levies							
28E.22	1.50000	Unified Law Enforcement			24		0	62	0.00000
		Total General Fund Regular Levies (5 thru 24)			25	2,418,862	2,400,533		
384.1	3.00375	Ag Land			26		0	63	0.00000
		Total General Fund Tax Levies (25 + 26)			27	2,418,862	2,400,533		Do Not Add
		Special Revenue Levies							
384.6	Amt Nec	Police & Fire Retirement			29		0		0.00000
	Amt Nec	FICA & IPERS (if general fund at levy limit)			30	280,000	277,879		1.05089
Rules	Amt Nec	Other Employee Benefits			31	200,000	198,484		0.75063
		Subtotal Employee Benefit Levy (29,30,31)			32	480,000	476,363	65	1.80152
			Valuation						
386	As Req	With Gas & Elec		Without Gas & Elec					
	SSMID 1 (A)	0 (B)		0	34		0	66	0.00000
	SSMID 2 (A)	0 (B)		0	35		0	67	0.00000
	SSMID 3 (A)	0 (B)		0	36		0	68	0.00000
	SSMID 4 (A)	0 (B)		0	37		0	69	0.00000
	SSMID 5 (A)	0 (B)		0	555		0	565	0.00000
	SSMID 6 (A)	0 (B)		0	556		0	566	0.00000
	SSMID 7 (A)	0 (B)		0	1177		0	1179	0.00000
	SSMID 8 (A)	0 (B)		0	1185		0	1187	0.00000
		Total Special Revenue Levies			39	480,000	476,363		
384.4	Amt Nec	Debt Service Levy 76.10(6)			40	1,113,141	1,106,418	70	3.32967
384.7	0.67500	Capital Projects (Capital Improv. Reserve)			41		0	71	0.00000
		Total Property Taxes (27+39+40+41)			42	4,012,003	3,983,314	72	14.20958

COUNTY AUDITOR - I certify the budget is in compliance with ALL the following: Budgets that DO NOT meet ALL the criteria below are not statutorily compliant & must be returned to the city for correction.

(City Representative)

(Date)

(County Auditor)

(Date)

The City Council will conduct a public hearing on the proposed Fiscal Year City property tax levy as follows:

Meeting Date: **Meeting Time:** **Meeting Location:**

At the public hearing any resident or taxpayer may present objections to, or arguments in favor of the proposed tax levy. After the hearing of the proposed tax levy, the City Council will publish notice and hold a hearing on the proposed city budget.

City Website (if available)
www.windsorheights.org

City Telephone Number

Iowa Department of Management	Current Year Property Tax	Certified 2024 - 2025	Budget Year Property Tax	Effective 2025 - 2026	Budget Year Property Tax	Proposed 2025 - 2026
Taxable Valuations for Non-Debt Service		258,423,837		264,422,826		264,422,826
Consolidated General Fund		2,147,724		2,147,724		2,197,581
Operation & Maintenance of Public Transit		0		0		0
Aviation Authority		0		0		0
Liability, Property & Self Insurance		173,632		173,632		193,523
Support of Local Emergency Mgmt. Comm.		9,425		9,425		9,429
Unified Law Enforcement		0		0		0
Police & Fire Retirement		0		0		0
FICA & IPERS (If at General Fund Limit)		277,813		277,813		277,879
Other Employee Benefits		198,438		198,438		198,484
Capital Projects (Capital Improv. Reserve)		0		0		0
Taxable Value for Debt Service		327,656,503		332,290,473		332,290,473
Debt Service		1,106,276		1,106,276		1,106,418
CITY REGULAR TOTAL PROPERTY TAX		3,913,308		3,913,308		3,983,314
CITY REGULAR TAX RATE		14.23846		13.94493		14.20958
Taxable Value for City Ag Land		0		0		0
Ag Land		0		0		0
CITY AG LAND TAX RATE		0.00000		0.00000		0.00000
Tax Rate Comparison-Current VS. Proposed						
Residential property with an Actual/Assessed Valuation of \$100,000/\$110,000	Current Year	Certified	Budget Year	Proposed	Percent Change	
	2024/2025		2025/2026			
City Regular Residential		660		741	12.27	
Commercial property with an Actual/Assessed Valuation of \$300,000/\$330,000	Current Year	Certified	Budget Year	Proposed	Percent Change	
	2024/2025		2025/2026			
City Regular Commercial		2,912		3,313	13.77	

Note: Actual/Assessed Valuation is multiplied by a Rollback Percentage to get to the Taxable Valuation to calculate Property Taxes. Residential and Commercial properties have the same Rollback Percentage at \$100,000 Actual/Assessed Valuation.

Reasons for tax increase if proposed exceeds the current:

Increases in property insurance costs, wages and benefits.

FUND BALANCE

City Name: WINDSOR HEIGHTS
Fiscal Year July 1, 2025 - June 30, 2026

		GENERAL	SPECIAL REVENUES	TIF SPECIAL REVENUES	DEBT SERVICE	CAPITAL PROJECTS	PERMANENT	TOTAL GOVERNMENT	PROPRIETARY	GRAND TOTAL
Annual Report FY 2024										
	Beginning Fund Balance July 1	2,526,925	3,143,163	375,159	450,403	7,672,306	0	14,167,956	1,982,864	16,150,820
	Actual Revenues Except Beg Balance	4,154,131	2,778,821	1,903,450	1,570,587	12,505,235	0	22,912,224	824,181	23,736,405
	Actual Expenditures Except End Balance	4,700,356	2,131,888	683,479	1,524,908	7,162,407	0	16,203,038	488,725	16,691,763
	Ending Fund Balance June 30	1,980,700	3,790,096	1,595,130	496,082	13,015,134	0	20,877,142	2,318,320	23,195,462
Re-Estimated FY 2025										
	Beginning Fund Balance	1,980,700	3,790,096	1,595,130	496,082	13,015,134	0	20,877,142	2,318,320	23,195,462
	Re-Est Revenues	4,722,417	2,742,521	2,317,282	3,130,750	7,965,600	0	20,878,570	983,600	21,862,170
	Re-Est Expenditures	4,418,621	3,427,016	997,203	2,110,544	6,678,041	0	17,631,425	760,022	18,391,447
	Ending Fund Balance	2,284,496	3,105,601	2,915,209	1,516,288	14,302,693	0	24,124,287	2,541,898	26,666,185
Budget FY 2026										
	Beginning Fund Balance	2,284,496	3,105,601	2,915,209	1,516,288	14,302,693	0	24,124,287	2,541,898	26,666,185
	Revenues	4,813,485	2,892,278	2,112,000	2,196,124	2,338,432	0	14,352,319	983,600	15,335,919
	Expenditures	5,536,840	3,732,902	2,100,000	2,178,074	14,639,000	0	28,186,816	928,458	29,115,274
	Ending Fund Balance	1,561,141	2,264,977	2,927,209	1,534,338	2,002,125	0	10,289,790	2,597,040	12,886,830

LOCAL EMC SUPPORT

City Name: WINDSOR HEIGHTS
Fiscal Year July 1, 2025 - June 30, 2026

As provided in Iowa Code Section 384.12, subsection 22, a city may levy the amount necessary in support of a local Emergency Management Commission. In addition to this individual levy, Emergency Management Commission support may also be included as part of the General Fund Levy. Iowa Code Section 29C.17, subsection 6 states that any support from cities or counties must be separately reported on tax statements issued by the county treasurer. Input the amount of General Fund Levy request to be used for support of an Emergency Management Commission. The total below will reflect the total amount of Emergency Management Commission support provided by the City.

	Request with Utility Replacement	Property Taxes Levied
Portion of General Fund Levy Used for Emerg. Mgmt. Comm.		0
Support of a Local Emerg. Mgmt. Comm.	9,500	9,429
TOTAL FOR FY 2026	9,500	9,429

City Name: WINDSOR HEIGHTS
Fiscal Year July 1, 2024 - June 30, 2025

GOVERNMENT ACTIVITIES CONT.	GENERAL	SPECIAL REVENUE	TIF SPECIAL REVENUES	DEBT SERVICE	CAPITAL PROJECTS	PERMANENT	PROPRIETARY	RE-ESTIMATED 2025	ACTUAL 2024
PUBLIC SAFETY									
Police Department/Crime Prevention	1 1,864,036	588,110						2,452,146	2,198,314
Jail	2							0	0
Emergency Management	3 10,700							10,700	9,777
Flood Control	4							0	0
Fire Department	5 228,873	182,440						411,313	414,299
Ambulance	6 826,050	51,926						877,976	724,458
Building Inspections	7 85,231	0						85,231	103,064
Miscellaneous Protective Services	8							0	0
Animal Control	9 5,500	0						5,500	3,541
Other Public Safety	10							0	0
TOTAL (lines 1 - 10)	11 3,020,390	822,476				0		3,842,866	3,453,453
PUBLIC WORKS									
Roads, Bridges, & Sidewalks	12 0	791,160						791,160	600,823
Parking - Meter and Off-Street	13							0	0
Street Lighting	14 0	46,000						46,000	45,884
Traffic Control and Safety	15 0	0						0	0
Snow Removal	16 0	130,660						130,660	141,571
Highway Engineering	17							0	0
Street Cleaning	18							0	0
Airport (if not Enterprise)	19							0	0
Garbage (if not Enterprise)	20							0	0
Other Public Works	21	29,400						29,400	12,690
TOTAL (lines 12 - 21)	22 0	997,220				0		997,220	800,968
HEALTH & SOCIAL SERVICES									
Welfare Assistance	23							0	0
City Hospital	24							0	0
Payments to Private Hospitals	25							0	0
Health Regulation and Inspection	26							0	0
Water, Air, and Mosquito Control	27 0							0	0
Community Mental Health	28							0	0
Other Health and Social Services	29 0							0	0
TOTAL (lines 23 - 29)	30 0	0				0		0	0
CULTURE & RECREATION									
Library Services	31 67,600							67,600	65,564
Museum, Band and Theater	32							0	0
Parks	33 179,233	8,000						187,233	139,878
Recreation	34 130,244	3,000						133,244	149,999
Cemetery	35							0	0
Community Center, Zoo, & Marina	36 27,450							27,450	11,808
Other Culture and Recreation	37 50,000							50,000	0
TOTAL (lines 31 - 37)	38 454,527	11,000				0		465,527	367,249

City Name: WINDSOR HEIGHTS
Fiscal Year July 1, 2024 - June 30, 2025

	GOVERNMENT ACTIVITIES CONT.	GENERAL	SPECIAL REVENUE	TIF SPECIAL REVENUES	DEBT SERVICE	CAPITAL PROJECTS	PERMANENT	PROPRIETARY	RE-ESTIMATED 2025	ACTUAL 2024
	COMMUNITY & ECONOMIC DEVELOPMENT									
	Community Beautification	39	0						0	0
	Economic Development	40	2,607						2,607	368
	Housing and Urban Renewal	41	52,290	0	0				52,290	18,707
	Planning & Zoning	42							0	0
	Other Com & Econ Development	43							0	0
	TIF Rebates	44							0	0
	TOTAL (lines 39 - 44)	45	54,897	0	0		0		54,897	19,075
	GENERAL GOVERNMENT									
	Mayor, Council, & City Manager	46	131,174		0				136,274	144,059
	Clerk, Treasurer, & Finance Adm.	47	698,633	121,220					819,853	836,127
	Elections	48	1,500						1,500	1,503
	Legal Services & City Attorney	49	50,000						50,000	39,080
	City Hall & General Buildings	50							0	0
	Tort Liability	51							0	0
	Other General Government	52	7,500						7,500	0
	TOTAL (lines 46 - 52)	53	888,807	126,320	0		0		1,015,127	1,020,769
	DEBT SERVICE									
	Gov Capital Projects	54							2,110,544	1,524,908
	TIF Capital Projects	55		0		6,664,718			6,664,718	4,075,317
	TOTAL CAPITAL PROJECTS	56			0					0
	TOTAL Governmental Activities Expenditures (lines 11+22+30+38+44+52+53+54)	57	0	0	0	6,664,718	0		6,664,718	4,075,317
	BUSINESS TYPE ACTIVITIES Proprietary: Enterprise & Budgeted ISF	58	4,418,621	1,957,016	0	6,664,718	0		15,150,899	11,261,739
	Water Utility	59							0	0
	Sewer Utility	60						31,650	31,650	7,327
	Electric Utility	61							0	0
	Gas Utility	62							0	0
	Airport	63							0	0
	Landfill/Garbage	64						395,902	395,902	370,430
	Transit	65							0	0
	Cable TV, Internet & Telephone	66							0	0
	Housing Authority	67							0	0
	Storm Water Utility	68						332,470	332,470	110,968
	Other Business Type (city hosp., ISF, parking, etc.)	69							0	0
	Enterprise DEBT SERVICE	70							0	0
	Enterprise CAPITAL PROJECTS	71							0	0
	Enterprise TIF CAPITAL PROJECTS	72							0	0
	TOTAL BUSINESS TYPE EXPENDITURES (lines 59+72)	73						760,022	760,022	488,725
	TOTAL ALL EXPENDITURES (lines 58+73)	74	4,418,621	1,957,016	0	6,664,718	0	760,022	15,910,921	11,750,464
	Regular Transfers Out	75	0	1,470,000		13,323		0	1,483,323	4,257,820
	Internal TIF Loan Transfers Out	76			997,203				997,203	683,479
	Total ALL Transfers Out	77	0	1,470,000	997,203	13,323	0	0	2,480,526	4,941,299
	Total Expenditures and Other Fin Uses (lines 74+77)	78	4,418,621	3,427,016	2,110,544	6,678,041	0	760,022	18,391,447	16,691,763
	Ending Fund Balance June 30	79	2,284,496	3,105,601	2,915,209	14,302,693	0	2,541,898	26,666,185	23,195,462

RE-ESTIMATED REVENUES DETAIL

City Name: WINDSOR HEIGHTS
Fiscal Year July 1, 2024 - June 30, 2025

REVENUES & OTHER FINANCING SOURCES	GENERAL	SPECIAL REVENUE	TIF SPECIAL REVENUES	DEBT SERVICE	CAPITAL PROJECTS	PERMANENT	PROPRIETARY	RE-ESTIMATED 2025	ACTUAL 2024
Taxes Levied on Property	1 2,330,781	476,251		1,106,276				3,913,308	3,639,837
Less: Uncollected Property Taxes - Levy Year	2							0	0
Net Current Property Taxes (line 1 minus line 2)	3 2,330,781	476,251		1,106,276	0			3,913,308	3,639,837
Delinquent Property Taxes	4							0	0
TIF Revenues	5		2,292,137					2,292,137	1,903,358
Other City Taxes:									
Utility Tax Replacement Excise Taxes	6 18,344	3,749		6,865				28,958	24,126
Utility franchise tax (Iowa Code Chapter 364.2)	7 0							0	0
Parimutuel wager tax	8							0	0
Gaming wager tax	9							0	0
Mobile Home Taxes	10							0	0
Hotel/Motel Taxes	11 16,000							16,000	16,326
Other Local Option Taxes									
Subtotal - Other City Taxes (lines 6 thru 12)	13 34,344	1,443,749		6,865	0			1,440,000	1,348,479
Licenses & Permits	14 416,500							1,484,958	1,388,931
Use of Money & Property	15 450,000	215	12,000		0			416,500	388,003
Intergovernmental:								462,215	754,638
Federal Grants & Reimbursements	16 419,000	0			2,717,700		0	3,136,700	10,798
Road Use Taxes	17	760,000						760,000	741,858
Other State Grants & Reimbursements	18 76,619	11,306	13,145	23,203	0		0	124,273	76,652
Local Grants & Reimbursements	19				125,000			125,000	13,683
Subtotal - Intergovernmental (lines 16 thru 19)	20 495,619	771,306	13,145	23,203	2,842,700		0	4,145,973	842,991
Charges for Fees & Service:									
Water Utility	21						0	0	0
Sewer Utility	22						0	0	0
Electric Utility	23							0	0
Gas Utility	24							0	0
Parking	25							0	0
Airport	26							0	0
Landfill/Garbage	27						358,000	358,000	339,164
Hospital	28							0	0
Transit	29							0	0
Cable TV, Internet & Telephone	30							0	0
Housing Authority	31							0	0
Storm Water Utility	32						625,600	625,600	382,393
Other Fees & Charges for Service	33 660,500	11,000			20,000			691,500	506,144
Subtotal - Charges for Service (lines 21 thru 33)	34 660,500	11,000		0	20,000	0	983,600	1,675,100	1,227,701
Special Assessments	35							0	0
Miscellaneous	36 193,750	40,000		0	500		0	234,250	111,482
Other Financing Sources:									
Regular Operating Transfers In	37 140,923	0		997,203	1,342,400		0	2,480,526	4,257,820
Internal TIF Loan Transfers In	38 0	0	0	997,203	0			997,203	683,479
Subtotal ALL Operating Transfers In	39 140,923	0	0	1,994,406	1,342,400	0	0	3,477,729	4,941,299
Proceeds of Debt (Excluding TIF Internal Borrowing)	40 0	0	0	0	3,760,000			3,760,000	8,538,165
Proceeds of Capital Asset Sales	41 0		0					0	0
Subtotal-Other Financing Sources (lines 36 thru 38)	42 140,923	0	0	1,994,406	5,102,400	0	0	7,237,729	13,479,464
Total Revenues except for beginning fund balance (lines 3, 4, 5, 12, 13, 14, 19, 33, 34, 35, & 39)	43 4,722,417	2,742,521	2,317,282	3,130,750	7,965,600	0	983,600	21,862,170	23,736,405
Beginning Fund Balance July 1	44 1,980,700	3,790,096	1,595,130	496,082	13,015,134	0	2,318,320	23,195,462	16,150,820
TOTAL REVENUES & BEGIN BALANCE (lines 41+42)	45 6,703,117	6,532,617	3,912,412	3,626,832	20,980,734	0	3,301,920	45,057,632	39,887,225

City Name: WINDSOR HEIGHTS
Fiscal Year July 1, 2025 - June 30, 2026

GOVERNMENT ACTIVITIES	GENERAL	SPECIAL REVENUES	TIF SPECIAL REVENUES	DEBT SERVICE	CAPITAL PROJECTS	PERMANENT	PROPRIETARY	BUDGET 2026	RE-ESTIMATED 2025	ACTUAL 2024
PUBLIC SAFETY										
Police Department/Crime Prevention	1 2,185,580	552,000						2,737,580	2,452,146	2,198,314
Jail	2							0	0	0
Emergency Management	3 10,700							10,700	10,700	9,777
Flood Control	4							0	0	0
Fire Department	5 247,980	252,000						499,980	411,313	414,299
Ambulance	6 892,200	54,000						946,200	877,976	724,458
Building Inspections	7 100,000	0						100,000	85,231	103,064
Miscellaneous Protective Services	8							0	0	0
Animal Control	9 5,500	0						5,500	5,500	3,541
Other Public Safety	10							0	0	0
TOTAL (lines 1 - 10)	11 3,441,960	858,000				0		4,299,960	3,842,866	3,453,453
PUBLIC WORKS										
Roads, Bridges, & Sidewalks	12 0	812,586						812,586	791,160	600,823
Parking - Meter and Off-Street	13							0	0	0
Street Lighting	14 0	55,000						55,000	46,000	45,884
Traffic Control and Safety	15 0	0						0	0	0
Snow Removal	16 0	181,813						181,813	130,660	141,571
Highway Engineering	17							0	0	0
Street Cleaning	18							0	0	0
Airport	19							0	0	0
Garbage (if not Enterprise)	20							0	0	0
Other Public Works	21	37,803						37,803	29,400	12,690
TOTAL (lines 12 - 21)	22 0	1,087,202				0		1,087,202	997,220	800,968
HEALTH & SOCIAL SERVICES										
Welfare Assistance	23							0	0	0
City Hospital	24							0	0	0
Payments to Private Hospitals	25							0	0	0
Health Regulation and Inspection	26							0	0	0
Water, Air, and Mosquito Control	27 0							0	0	0
Community Mental Health	28							0	0	0
Other Health and Social Services	29 0							0	0	0
TOTAL (lines 23 - 29)	30 0	0				0		0	0	0
CULTURE & RECREATION										
Library Services	31 69,560							69,560	67,600	65,564
Museum, Band and Theater	32							0	0	0
Parks	33 188,217	8,000						196,217	187,233	139,878
Recreation	34 180,953	3,000						183,953	133,244	149,999
Cemetery	35							0	0	0
Community Center, Zoo, & Marina	36 27,450							27,450	27,450	11,808
Other Culture and Recreation	37 56,500							56,500	50,000	0
TOTAL (lines 31 - 37)	38 522,680	11,000				0		533,680	465,527	367,249

City Name: WINDSOR HEIGHTS
Fiscal Year July 1, 2025 - June 30, 2026

	GOVERNMENT ACTIVITIES	GENERAL	SPECIAL REVENUES	TIF SPECIAL REVENUES	DEBT SERVICE	CAPITAL PROJECTS	PERMANENT	PROPRIETARY	BUDGET 2026	RE-ESTIMATED 2025	ACTUAL 2024
	COMMUNITY & ECONOMIC DEVELOPMENT										
39	Community Beautification	0							0	0	0
40	Economic Development	614,604							614,604	2,607	368
41	Housing and Urban Renewal	9,237	0	0					9,237	52,290	18,707
42	Planning & Zoning								0	0	0
43	Other Com & Econ Development								0	0	0
44	TIF Rebates								0	0	0
45	TOTAL (lines 39 - 44)	623,841	0	0			0		623,841	54,897	19,075
	GENERAL GOVERNMENT										
46	Mayor, Council, & City Manager	155,100	4,900	0					160,000	136,274	144,059
47	Clerk, Treasurer, & Finance Adm.	736,009	156,000						892,009	819,853	836,127
48	Elections	1,750							1,750	1,500	1,503
49	Legal Services & City Attorney	48,000							48,000	50,000	39,080
50	City Hall & General Buildings								0	0	0
51	Tort Liability								0	0	0
52	Other General Government	7,500	0						7,500	7,500	0
53	TOTAL (lines 46 - 52)	948,359	160,900	0			0		1,109,259	1,015,127	1,020,769
54	DEBT SERVICE				2,178,074				2,178,074	2,110,544	1,524,908
55	Gov Capital Projects		0			14,639,000			14,639,000	6,664,718	4,075,317
56	TIF Capital Projects			0					0	0	0
57	TOTAL CAPITAL PROJECTS	0	0	0		14,639,000	0		14,639,000	6,664,718	4,075,317
58	TOTAL Government Activities Expenditures (lines 11+22+30+38+45+53+54+57)	5,536,840	2,117,102	0	2,178,074	14,639,000	0		24,471,016	15,150,899	11,261,739
	BUSINESS TYPE ACTIVITIES										
	Proprietary: Enterprise & Budgeted ISF										
59	Water Utility							0	0	0	0
60	Sewer Utility							0	0	31,650	7,327
61	Electric Utility								0	0	0
62	Gas Utility							0	0	0	0
63	Airport								0	0	0
64	Landfill/Garbage							431,656	431,656	395,902	370,430
65	Transit								0	0	0
66	Cable TV, Internet & Telephone								0	0	0
67	Housing Authority								0	0	0
68	Storm Water Utility							496,802	496,802	332,470	110,968
69	Other Business Type (city hosp., ISF, parking, etc.)							0	0	0	0
70	Enterprise DEBT SERVICE								0	0	0
71	Enterprise CAPITAL PROJECTS								0	0	0
72	Enterprise TIF CAPITAL PROJECTS								0	0	0
73	TOTAL Business Type Expenditures (lines 59 - 72)										
74	TOTAL ALL EXPENDITURES (lines 58 + 73)	5,536,840	2,117,102	0	2,178,074	14,639,000	0		25,399,474	15,910,921	11,750,464
75	Regular Transfers Out	0	1,615,800		0	0		0	1,615,800	1,483,323	4,257,820
76	Internal TIF Loan / Repayment Transfers Out			2,100,000					2,100,000	997,203	683,479
77	Total ALL Transfers Out	0	1,615,800	2,100,000	0	0	0	0	3,715,800	2,480,526	4,941,299
78	Total Expenditures & Fund Transfers Out (lines 74+77)	5,536,840	3,732,902	2,100,000	2,178,074	14,639,000	0	928,458	29,115,274	18,391,447	16,691,763
79	Ending Fund Balance June 30	1,561,141	2,264,977	2,927,209	1,534,338	2,002,125	0	2,597,040	12,886,830	26,666,185	23,195,462

REVENUES DETAIL

City Name: WINDSOR HEIGHTS
Fiscal Year July 1, 2025 - June 30, 2026

		GENERAL	SPECIAL REVENUES	TIF SPECIAL REVENUES	DEBT SERVICE	CAPITAL PROJECTS	PERMANENT	PROPRIETARY	BUDGET 2026	RE-ESTIMATED 2025	ACTUAL 2024
REVENUES & OTHER FINANCING SOURCES											
Taxes Levied on Property	1	2,400,533	476,363		1,106,418	0			3,983,314	3,913,308	3,639,837
Less: Uncollected Property Taxes - Levy Year	2								0	0	0
Net Current Property Taxes (line 1 minus line 2)	3	2,400,533	476,363		1,106,418	0			3,983,314	3,913,308	3,639,837
Delinquent Property Taxes	4								0	0	0
TIF Revenues	5			2,100,000					2,100,000	2,292,137	1,903,358
Other City Taxes:											
Utility Tax Replacement Excise Taxes	6	18,329	3,637		6,723	0			28,689	28,958	24,126
Utility franchise tax (Iowa Code Chapter 364.2)	7	0							0	0	0
Parimutuel wager tax	8								0	0	0
Gaming wager tax	9								0	0	0
Mobile Home Taxes	10								0	0	0
Hotel/Motel Taxes	11	24,000							24,000	16,000	16,326
Other Local Option Taxes	12		1,540,800						1,540,800	1,440,000	1,348,479
Subtotal - Other City Taxes (lines 6 thru 12)	13	42,329	1,544,437		6,723	0			1,593,489	1,484,958	1,388,931
Licenses & Permits	14	437,500							437,500	416,500	388,003
Use of Money & Property	15	450,000	370	12,000		0		0	462,370	462,215	754,638
Intergovernmental:											
Federal Grants & Reimbursements	16	107,000	0			0		0	107,000	3,136,700	10,798
Road Use Taxes	17		760,000						760,000	760,000	741,858
Other State Grants & Reimbursements	18	74,439	10,108		18,050				102,597	124,273	76,652
Local Grants & Reimbursements	19								0	125,000	13,683
Subtotal - Intergovernmental (lines 16 thru 19)	20	181,439	770,108	0	18,050	0		0	969,597	4,145,973	842,991
Charges for Fees & Service:											
Water Utility	21							0	0	0	0
Sewer Utility	22							0	0	0	0
Electric Utility	23							0	0	0	0
Gas Utility	24							0	0	0	0
Parking	25							0	0	0	0
Airport	26							0	0	0	0
Landfill/Garbage	27							358,000	358,000	358,000	339,164
Hospital	28							0	0	0	0
Transit	29							0	0	0	0
Cable TV, Internet & Telephone	30							0	0	0	0
Housing Authority	31							0	0	0	0
Storm Water Utility	32							625,600	625,600	625,600	382,393
Other Fees & Charges for Service	33	661,500	11,000			28,000			700,500	691,500	506,144
Subtotal - Charges for Service (lines 21 thru 33)	34	661,500	11,000	0		28,000	0	983,600	1,684,100	1,675,100	1,227,701
Special Assessments	35							0	0	0	0
Miscellaneous	36	198,750	90,000			101,000		0	389,750	234,250	111,482
Other Financing Sources:											
Regular Operating Transfers In	37	116,434				1,499,366			1,615,800	2,480,526	4,257,820
Internal TIF Loan Transfers In	38	325,000			1,064,933	710,066			2,099,999	997,203	683,479
Subtotal ALL Operating Transfers In	39	441,434	0	0	1,064,933	2,209,432	0	0	3,715,799	3,477,729	4,941,299
Proceeds of Debt (Excluding TIF Internal Borrowing)	40	0	0			0		0	0	3,760,000	8,538,165
Proceeds of Capital Asset Sales	41	0						0	0	0	0
Subtotal-Other Financing Sources (lines 38 thru 40)	42	441,434	0		1,064,933	2,209,432	0	0	3,715,799	7,237,729	13,479,464
Total Revenues except for beginning fund balance (lines 3, 4, 5, 13, 14, 15, 20, 34, 35, 36, & 41)	43	4,813,485	2,892,278	2,112,000	2,196,124	2,338,432	0	983,600	15,335,919	21,862,170	23,736,405
Beginning Fund Balance July 1	44	2,284,496	3,105,601	2,915,209	1,516,288	14,302,693	0	2,541,898	26,666,185	23,195,462	16,150,820
TOTAL REVENUES & BEGIN BALANCE (lines 42+43)	45	7,097,981	5,997,879	5,027,209	3,712,412	16,641,125	0	3,525,498	42,002,104	45,057,632	39,887,225

ADOPTED BUDGET SUMMARY

City Name: WINDSOR HEIGHTS
Fiscal Year July 1, 2025 - June 30, 2026

	GENERAL	SPECIAL REVENUES	TIF SPECIAL REVENUES	DEBT SERVICE	CAPITAL PROJECTS	PERMANENT	PROPRIETARY	BUDGET 2026	RE-ESTIMATED 2025	ACTUAL 2024
Revenues & Other Financing Sources										
Taxes Levied on Property	1 2,400,533	476,363		1,106,418	0			3,983,314	3,913,308	3,639,837
Less: Uncollected Property Taxes-Levy Year	2 0	0	0	0	0			0	0	0
Net Current Property Taxes	3 2,400,533	476,363		1,106,418	0			3,983,314	3,913,308	3,639,837
Delinquent Property Taxes	4 0	0	0	0	0			0	0	0
TIF Revenues	5		2,100,000					2,100,000	2,292,137	1,903,358
Other City Taxes	6 42,329	1,544,437		6,723	0			1,593,489	1,484,958	1,388,931
Licenses & Permits	7 437,500	0					0	437,500	416,500	388,003
Use of Money and Property	8 450,000	370	12,000	0	0	0	0	462,370	462,215	754,638
Intergovernmental	9 181,439	770,108	0	18,050	0		0	969,597	4,145,973	842,991
Charges for Fees & Service	10 661,500	11,000		0	28,000	0	983,600	1,684,100	1,675,100	1,227,701
Special Assessments	11 0	0		0	0		0	0	0	0
Miscellaneous	12 198,750	90,000		0	101,000	0	0	389,750	234,250	111,482
Sub-Total Revenues	13 4,372,051	2,892,278	2,112,000	1,131,191	129,000	0	983,600	11,620,120	14,624,441	10,256,941
Other Financing Sources:										
Total Transfers In	14 441,434	0	0	1,064,933	2,209,432	0	0	3,715,799	3,477,729	4,941,299
Proceeds of Debt	15 0	0	0	0	0		0	0	3,760,000	8,538,165
Proceeds of Capital Asset Sales	16 0	0	0	0	0		0	0	0	0
Total Revenues and Other Sources	17 4,813,485	2,892,278	2,112,000	2,196,124	2,338,432	0	983,600	15,335,919	21,862,170	23,736,405
Expenditures & Other Financing Uses										
Public Safety	18 3,441,960	858,000	0			0		4,299,960	3,842,866	3,453,453
Public Works	19 0	1,087,202	0			0		1,087,202	997,220	800,968
Health and Social Services	20 0	0	0	0		0		0	0	0
Culture and Recreation	21 522,680	11,000	0			0		533,680	465,527	367,249
Community and Economic Development	22 623,841	0	0			0		623,841	54,897	19,075
General Government	23 948,359	160,900	0			0		1,109,259	1,015,127	1,020,769
Debt Service	24 0	0	0	2,178,074		0		2,178,074	2,110,544	1,524,908
Capital Projects	25 0	0	0		14,639,000	0		14,639,000	6,664,718	4,075,317
Total Government Activities Expenditures	26 5,536,840	2,117,102	0	2,178,074	14,639,000	0	928,458	24,471,016	15,150,899	11,261,739
Business Type Proprietary: Enterprise & ISF	27							928,458	760,022	488,725
Total Gov & Bus Type Expenditures	28 5,536,840	2,117,102	0	2,178,074	14,639,000	0	928,458	25,399,474	15,910,921	11,750,464
Total Transfers Out	29 0	1,615,800	2,100,000	0	0	0	0	3,715,800	2,480,526	4,941,299
Total ALL Expenditures/Fund Transfers Out	30 5,536,840	3,732,902	2,100,000	2,178,074	14,639,000	0	928,458	29,115,274	18,391,447	16,691,763
Excess Revenues & Other Sources Over	31									
(Under) Expenditures/Transfers Out	32 -723,355	-840,624	12,000	18,050	-12,300,568	0	55,142	-13,779,355	3,470,723	7,044,642
Beginning Fund Balance July 1	33 2,284,496	3,105,601	2,915,209	1,516,288	14,302,693	0	2,541,898	26,666,185	23,195,462	16,150,820
Ending Fund Balance June 30	34 1,561,141	2,264,977	2,927,209	1,534,338	2,002,125	0	2,597,040	12,886,830	26,666,185	23,195,462

LONG TERM DEBT SCHEDULE - LT DEBT1

GENERAL OBLIGATION BONDS, TIF BONDS, REVENUE BONDS, LOANS, LEASE-PURCHASE PAYMENTS

Debt Name	Amount of Issue	Type of Debt Obligation	Debt Resolution Number	Principal Due FY	Interest Due FY	Total Obligation Due FY	Bond Reg./ Paying Agent Fees Due FY	Reductions due to Refinancing or Prepayment of Certified Debt	Paid from Funds OTHER THAN Current Year Debt Service Taxes	Amount Paid Current Year Debt Service Levy
2016A Bond (Refunding)	1 1,405,000	GO	2016-0651	125,000	9,625	134,625	500		135,125	0
2016B Bond (Refunding)	2 2,815,000	GO	2016-0649	250,000	19,910	269,910	500		270,410	0
2020A Bond Allison/College/69th St	3 8,500,000	GO	2020-66	735,000	106,176	841,176	600			841,776
2020B University Ave	4 7,500,000	GO	2020-67	220,000	57,213	277,213	600		277,813	0
2024A 73rd St/68th St South	5 8,370,000	GO	2024-20	305,000	347,350	652,350	600		381,585	271,365
	6 -	-				0				0
	7 -	-				0				0
	8 -	-				0				0
	9 -	-				0				0
	10 -	-				0				0
	11 -	-				0				0
	12 -	-				0				0
	13 -	-				0				0
	14 -	-				0				0
	15 -	-				0				0
	16 -	-				0				0
	17 -	-				0				0
	18 -	-				0				0
	19 -	-				0				0
	20 -	-				0				0
	21 -	-				0				0
	22 -	-				0				0
	23 -	-				0				0
	24 -	-				0				0
	25 -	-				0				0
	26 -	-				0				0
	27 -	-				0				0
	28 -	-				0				0
	29 -	-				0				0
	30 -	-				0				0
TOTALS				1,635,000	540,274	2,175,274	2,800	0	1,064,933	1,113,141

LONG TERM DEBT SCHEDULE - GRAND TOTALS

GENERAL OBLIGATION BONDS, TIF BONDS, REVENUE BONDS, LOANS, LEASE-PURCHASE PAYMENTS

	Principal Due FY 2026	Interest Due FY 2026	Total Obligation Due FY 2026	Bond Reg./ Paying Agent Fees Due FY 2026	Reductions due to Refinancing or Prepayment of Certified Debt	Paid from Sources OTHER THAN Budget Year Debt Service Levy	Amount Paid Budget Year Debt Service Levy
GO - TOTAL	1,635,000	540,274	2,175,274	2,800	0	1,064,933	1,113,141
NON GO - TOTAL	0	0	0	0	0	0	0
GRAND - TOTAL	1,635,000	540,274	2,175,274	2,800	0	1,064,933	1,113,141

NOTICE OF PUBLIC HEARING -- PROPOSED BUDGET
Fiscal Year July 1, 2025 - June 30, 2026

City of: **WINDSOR HEIGHTS**

The City Council will conduct a public hearing on the proposed Budget at: (entered upon publish) Meeting Date: (entered upon publish) Meeting Time: (entered upon publish)

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				
14.20958				
The estimated tax levy rate per \$1000 valuation on Agricultural property is				
0				
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 (entered upon publish)		City Clerk/Finance Officer's NAME (entered upon publish)		
		Budget FY 2026	Re-estimated FY 2025	Actual FY 2024
Revenues & Other Financing Sources				
Taxes Levied on Property	1	3,983,314	3,913,308	3,639,837
Less: Uncollected Property Taxes-Levy Year	2	0	0	0
Net Current Property Taxes	3	3,983,314	3,913,308	3,639,837
Delinquent Property Taxes	4	0	0	0
TIF Revenues	5	2,100,000	2,292,137	1,903,358
Other City Taxes	6	1,593,489	1,484,958	1,388,931
Licenses & Permits	7	437,500	416,500	388,003
Use of Money and Property	8	462,370	462,215	754,638
Intergovernmental	9	969,597	4,145,973	842,991
Charges for Fees & Service	10	1,684,100	1,675,100	1,227,701
Special Assessments	11	0	0	0
Miscellaneous	12	389,750	234,250	111,482
Other Financing Sources	13	0	3,760,000	8,538,165
Transfers In	14	3,715,799	3,477,729	4,941,299
Total Revenues and Other Sources	15	15,335,919	21,862,170	23,736,405
Expenditures & Other Financing Uses				
Public Safety	16	4,299,960	3,842,866	3,453,453
Public Works	17	1,087,202	997,220	800,968
Health and Social Services	18	0	0	0
Culture and Recreation	19	533,680	465,527	367,249
Community and Economic Development	20	623,841	54,897	19,075
General Government	21	1,109,259	1,015,127	1,020,769
Debt Service	22	2,178,074	2,110,544	1,524,908
Capital Projects	23	14,639,000	6,664,718	4,075,317
Total Government Activities Expenditures	24	24,471,016	15,150,899	11,261,739
Business Type / Enterprises	25	928,458	760,022	488,725
Total ALL Expenditures	26	25,399,474	15,910,921	11,750,464
Transfers Out	27	3,715,800	2,480,526	4,941,299
Total ALL Expenditures/Transfers Out	28	29,115,274	18,391,447	16,691,763
Excess Revenues & Other Sources Over (Under) Expenditures/Transfers Out	29	-13,779,355	3,470,723	7,044,642
Beginning Fund Balance July 1	30	26,666,185	23,195,462	16,150,820
Ending Fund Balance June 30	31	12,886,830	26,666,185	23,195,462

Police

Updated 1/23/2025

		Budgeted	Actual	Running
Revenues				\$135,530.70
	Transfer In			
Expenses				
Auto Equipment	Patrol Marked Vehicle	\$78,000	\$63,577.94	\$146,952.76
Revenues				
	Transfer In			
Expenses				
Auto Equipment	Hybrid Invest Unmarked Vehicle	\$60,000	\$48,600.00	\$173,352.76
Revenues				
	Transfer In			
Expenses				
Auto Equipment	Hybrid Unmarked Fleet Vehicle	\$65,000	\$65,000.00	\$193,352.76
Other Capital Equipment	Laptop replacement (2) for mobile use	\$15,000	\$15,000.00	\$178,352.76
Revenues				
	Transfer In			
Expenses				
Auto Equipment	Hybrid Unmarked Fleet Vehicle	\$70,000	\$70,000.00	\$193,352.76
Other Capital Equipment	Safety/Tactical Helmet Replacement	\$10,000	\$10,000.00	\$183,352.76
Revenues				
	Transfer In			
Expenses				
Auto Equipment	Hybrid Patrol Fleet Vehicle	\$87,000	\$87,000.00	\$196,352.76
Other Capital Equipment	PSB Backup Generator	\$60,000	\$60,000.00	\$136,352.76
Revenues				
	Transfer In			
Expenses				
Auto Equipment	Hybrid Patrol Fleet Vehicle	\$87,000	\$87,000.00	\$164,352.76
Other Capital Equipment	In Car & Body Camera System Upgrade	\$100,000	\$100,000.00	\$64,352.76
Revenues				
	Transfer In			
Expenses				
Auto Equipment	Hybrid Patrol Fleet Vehicle	\$87,000	\$87,000.00	\$102,352.76
Other Capital Equipment	Duty Weapon Replacement	\$15,000	\$15,000.00	\$87,352.76
Revenues				
	Transfer In			
Expenses				
Auto Equipment	Hybrid Patrol Fleet Vehicle	\$87,000	\$87,000.00	\$85,352.76
				\$85,352.76
Revenues				
	Transfer In			
Expenses				
Auto Equipment	Hybrid Patrol Fleet Vehicle	\$87,000	\$87,000.00	\$83,352.76
Other Capital Equipment				\$83,352.76

Fire and EMS

				Budgeted	Actual	Running
						\$1,251,871.54
Revenues				2023-24		
	Transfer In			\$75,000		\$1,326,871.54
Expenses						
Auto Equipment	Pierce Fire Engine			\$700,000	\$705,733.00	\$621,138.54
Other Capital Equipment	Turnout Gear (2)			\$6,000	\$6,950.00	\$614,188.54
	Ballistic PPE			\$7,000	\$7,200.00	\$606,988.54
Revenues				2024-25		
	Transfer In			\$75,000		\$681,988.54
Expenses						
Other Capital Equipment	Turnout Gear (2)			\$7,500	\$7,500.00	\$674,488.54
Revenues				2025-26		
	Transfer In	Proceeds from 2 Engines		\$100,000		\$774,488.54
Expenses						
Auto Equipment	2012 Ford Wheeled Coach Ambulance			\$400,000	\$400,000.00	\$374,488.54
Other Capital Equipment	Turnout Gear (2)			\$7,750	\$7,750.00	\$366,738.54
	Fire Hose			\$3,000	\$3,000.00	\$363,738.54
	Mobile Data Terminal (2)			\$15,000	\$15,000.00	\$348,738.54
Revenues				2026-27		
	Transfer In			\$75,000		\$423,738.54
Expenses						
Auto Equipment	2014 Chevy Tahoe – Paramedic SUV			\$75,000	\$75,000.00	\$348,738.54
Other Capital Equipment	Turnout Gear (2)			\$7,750	\$7,750.00	\$340,988.54
Revenues				2027-28		
	Transfer In			\$75,000		\$415,988.54
Expenses						
Auto Equipment	Shared Resource Ambulance Deposit			\$85,000	\$85,000.00	\$330,988.54
Other Capital Equipment	Turnout Gear (2)			\$8,000	\$8,000.00	\$322,988.54
	Fire Hose			\$3,100	\$3,100.00	\$319,888.54
Revenues				2028-29		
	Transfer In			\$80,000		\$399,888.54
Expenses						
Auto Equipment	Shared Resource Ambulance Balance			\$340,000	\$340,000.00	\$59,888.54
Other Capital Equipment	Turnout Gear (2)			\$8,000	\$8,000.00	\$51,888.54
	Mobile Date Terminal			\$7,500	\$7,500.00	\$44,388.54
Revenues				2029-30		
	Transfer In			\$50,000		\$94,388.54
Expenses						
Auto Equipment	Fire Hose			\$3,200	\$3,200.00	\$91,188.54
Other Capital Equipment	Turnout Gear (2)			\$8,000	\$8,000.00	\$83,188.54
Revenues				2030-31		
	Transfer In			\$50,000		\$133,188.54
Expenses						
Auto Equipment	2019 Ford Expedition			\$75,000	\$75,000.00	\$58,188.54
Other Capital Equipment	Turnout Gear (2)			\$8,000	\$8,000.00	\$50,188.54
	Mobile Data Terminal			\$7,500	\$7,500.00	\$42,688.54
Revenues				2031-32		
	Transfer In			\$50,000		\$92,688.54
Expenses						
Auto Equipment	Fire Hose			\$3,300	\$3,300.00	\$89,388.54

Other Capital Equipment	Turnout Gear (2)		\$8,000	\$8,000.00	\$81,388.54
Fire and EMS Unscheduled					
SCBA Compressor		2034	\$40,000		
Mobile Radios, Phones and Scanners			As needed		
Portable Radios (18)			Every 7 years		
SCBA's and Bottles		2031, 2032	\$180,000		
Primary Engine - E552		2036	\$600,000		
2024 Chevy Paramedic SUV		2034	\$65,000		
2023 Ford Wheeled Coach Ambulance		2033	\$475,000		

Public Works

				Budgeted	Actual	Running
						\$571,500.00
Revenues		2023-2024				
	Transfer in RUT	\$30,000				\$601,500.00
	Transfer In	\$45,000				\$646,500.00
Expenses						
Equipment	End Loader		\$250,000	\$129,259.00		\$517,241.00
		2024-25				
	Transfer in RUT	\$30,000				\$547,241.00
	Transfer In	\$45,000				\$592,241.00
Expenses						
Equipment	Dump Truck #5		\$200,000	\$243,885.65		\$348,355.35
	Tar Machine		\$65,000	\$65,698.82		\$282,656.53
		2025-26				
	Transfer in RUT	\$75,000				\$357,656.53
	Transfer In	\$60,000				\$417,656.53
Expenses						
Equipment	Class 5 Pickup		\$120,000	\$120,000.00		\$297,656.53
	Dump Truck #6 - 20% Deposit		\$50,000	\$50,000.00		\$247,656.53
	PW Shop Floor Repair		\$65,000	\$65,000.00		\$182,656.53
		2026-27				
	Transfer in RUT	\$100,000				\$282,656.53
	Transfer In	\$75,000				\$357,656.53
Expenses						
	John Deere Mower		\$38,000	\$38,000.00		\$319,656.53
	1/2 Ton Pickup #3		\$55,000	\$55,000.00		\$264,656.53
	Dump Truck #6 - Final Payment		\$200,000	\$200,000.00		\$64,656.53
		2027-28				
	Transfer in RUT	\$40,000				\$104,656.53
	Transfer In	\$60,000				\$164,656.53
Expenses						
Equipment	John Deere Z950M Zero Turn Mower		\$22,000	\$22,000.00		\$142,656.53
	1/2 Ton Pickup #2		\$55,000	\$55,000.00		\$87,656.53
	Boom Truck #7		\$80,000	\$80,000.00		\$7,656.53
		2028-29				
	Transfer in RUT	\$40,000				\$127,656.53
	Transfer In	\$60,000				\$187,656.53
Expenses						
Equipment	1 Ton Chevy Truck #8		\$55,000	\$55,000.00		\$132,656.53
	PW Locker Room Remodel		\$100,000	\$100,000.00		\$32,656.53
		2029-30				
	Transfer In RUT	\$40,000				\$72,656.53
	Transfer In	\$60,000				\$132,656.53
Expenses						
	John Deere 1575 Riding Mower		\$40,000	\$40,000.00		\$92,656.53
	Univ. Ave Traffic Signals (\$50,000 TIF Funded)					\$92,656.53
						\$52,656.53
		2030-31				
	Transfer In RUT	\$40,000				\$92,656.53
	Transfer In	\$60,000				\$152,656.53
Expenses						
Equipment	73rd Street Traffic Signals (\$200,000 TIF Funded)					\$152,656.53
	Kubota UTV 1100 with implements		\$40,000	\$40,000.00		\$112,656.53

Systems & Technology

		Budgeted	Actual	Running
				\$49,929.53
Revenues		2023-24		
	Transfer In	\$20,000		\$69,929.53
Expenses				
Office Equipment	UPS 3	\$5,000	\$4,706.25	\$65,223.28
	Workstations	\$10,000	\$7,882.87	\$57,340.41
	Firewall	\$2,500	\$1,500.70	\$55,839.71
	Server	\$15,000	\$15,792.17	\$40,047.54
Revenues		2024-25		
	Transfer In	\$15,000		\$55,047.54
Expenses				
Office Equipment	Firewall	\$10,000	\$5,179.80	\$49,867.74
	Cameras - PSB/CEC	\$7,000	\$8,261.06	\$41,606.68
	Server Upgrades	\$20,000	\$25,210.63	\$16,396.05
Revenues		2025-26		
	Transfer In	\$30,000		\$46,396.05
Expenses				
Office Equipment	Software - Workstations	\$7,500	\$7,500.00	\$38,896.05
	Workstations	\$10,000	\$10,000.00	\$28,896.05
	BodyCam Raid5 Harddrives 6TB	\$2,000	\$2,000.00	\$26,896.05
	Firewall Software	\$1,200	\$1,200.00	\$25,696.05
	City Hall Conf Room Camera/Microphone	\$3,000	\$3,000.00	\$22,696.05
Revenues		2026-27		
	Transfer In	\$30,000		\$52,696.05
Expenses				
Office Equipment	Network Switches	\$2,000	\$2,000.00	\$50,696.05
	Software - Mail	\$3,500	\$3,500.00	\$47,196.05
	Workstations	\$10,000	\$10,000.00	\$37,196.05
	Firewall Software	\$1,200	\$1,200.00	\$35,996.05
Revenues		2027-28		
	Transfer In	\$40,000		\$75,996.05
Expenses				
Office Equipment	CEC Switch	\$1,500	\$1,500.00	\$74,496.05
	Workstations	\$10,000	\$10,000.00	\$64,496.05
	Firewall Software	\$1,200	\$1,200.00	\$63,296.05
	Council AV	\$30,000	\$30,000.00	\$33,296.05
	UPS Replacements	\$2,500	\$2,500.00	\$30,796.05
Revenues		2028-29		
	Transfer In	\$30,000		\$60,796.05
Expenses				
Office Equipment	Phone System Cloud Changeover	\$10,000	\$10,000.00	\$50,796.05
	Workstations	\$10,000	\$10,000.00	\$40,796.05
	Firewall Software and Replacement	\$3,000	\$3,000.00	\$37,796.05
	Camera Replacements & Software Change	\$21,000	\$21,000.00	\$16,796.05
Revenues		2029-30		
	Transfer In	\$30,000		\$46,796.05
Expenses				
Office Equipment	Server NAS	\$3,000	\$3,000.00	\$43,796.05
	UPS 1	\$1,000	\$1,000.00	\$42,796.05
	Workstations	\$10,000	\$10,000.00	\$32,796.05
	Phone Software	\$9,000	\$9,000.00	\$23,796.05
	Access Points Replacements	\$2,500	\$2,500.00	\$21,296.05
	Firewall Software	\$1,200	\$1,200.00	\$20,096.05

Revenues		2030-31		
	Transfer In	\$30,000		\$50,096.05
Expenses				
Office Equipment	UPS Replacements	\$1,000	\$1,000.00	\$49,096.05
	Workstations	\$11,000	\$11,000.00	\$38,096.05
	Server Host Replacement (WHHV CTY 24)	\$15,000	\$15,000.00	\$23,096.05
	Firewall Software & Replacement	\$3,000	\$3,000.00	\$20,096.05
	Phone Software	\$9,000	\$9,000.00	\$11,096.05
Revenues		2031-32		
	Transfer In	\$25,000		\$36,096.05
Expenses				
Office Equipment	Workstations	\$11,000	\$11,000.00	\$25,096.05
	Firewall Software	\$1,200	\$1,200.00	\$23,896.05
	Phone Software	\$9,000	\$9,000.00	\$14,896.05
Revenues		2032-33		
	Transfer In	\$25,000		\$39,896.05
Expenses				
Office Equipment	Workstations	\$11,000	\$11,000.00	\$28,896.05
	Firewall Software	\$1,200	\$1,200.00	\$27,696.05
	Phone Software	\$9,000	\$9,000.00	\$18,696.05
Unscheduled				
Desktops (18)	4 annually	\$3,000		
Laptops (10)	3 annually	\$3,900		
Monitors (31)	6 annually	\$800		
CH Copier		Lease		

Community Event Center

		Budgeted	Actual	Running
				\$118,322.89
Revenues				
		2023-24		
	CEC Revenue (actual)	\$17,870		\$136,192.89
	Transfer In			\$136,192.89
Expenses				
Equipment	Audio/Visual Equipment Final	\$14,153	\$14,152.50	\$122,040.39
Revenues				
		2024-25		
	CEC Revenue (estimated)	\$20,000.00		\$142,040.39
	Transfer In	\$100,000		\$242,040.39
Expenses				
Equipment	Solar Panels	\$100,000	\$100,000.00	\$142,040.39
	Table Replacement - Phase 1	\$40,000	\$40,000.00	\$102,040.39
	Appliance/Equipment Replacement	\$8,000	\$8,000.00	\$94,040.39
Revenues				
		2025-26		
	CEC Revenue (estimated)	\$20,000.00		\$114,040.39
	Transfer In			\$114,040.39
Expenses				
Equipment	Appliance/Equipment Replacement	\$8,000	\$8,000.00	\$106,040.39
	Table Replacement - Phase 2	\$20,000	\$20,000.00	\$86,040.39
Revenues				
		2026-27		
	CEC Revenue (estimated)	\$20,000.00		\$106,040.39
	Transfer In			\$106,040.39
Expenses				
Equipment	Appliance/Equipment Replacement	\$8,000	\$8,000.00	\$98,040.39
	Table Replacement - Phase 3	\$18,000	\$18,000.00	\$80,040.39
Revenues				
		2027-28		
	CEC Revenue (estimated)	\$20,000.00		\$100,040.39
	Transfer In			\$100,040.39
Expenses				
Equipment	Banquet Chair Replacement	\$15,000	\$15,000.00	\$85,040.39
	Solar Invertors	\$5,000	\$5,000.00	\$80,040.39
	Appliance/Equipment Replacement	\$8,000	\$8,000.00	\$72,040.39
Revenues				
		2028-29		
	CEC Revenue (estimated)	\$20,000.00		\$92,040.39
	Transfer In			\$92,040.39
Expenses				
Equipment	Appliance/Equipment Replacement	\$8,000	\$8,000.00	\$84,040.39
Revenues				
		2029-30		
	CEC Revenue (estimated)	\$20,000.00		\$104,040.39
	Transfer In			\$104,040.39
Expenses				
Equipment	Appliance/Equipment Replacement	\$8,000	\$8,000.00	\$96,040.39
Revenues				
		2030-31		
	CEC Revenue (estimated)	\$20,000.00		\$116,040.39
	Transfer In			\$116,040.39
Expenses				
Equipment	Appliance/Equipment Replacement	\$8,000	\$8,000.00	\$108,040.39
	Solar Invertor Replacements	\$5,000	\$5,000.00	\$103,040.39
	Large Kitchen Refresh	\$75,000	\$75,000.00	\$28,040.39

DRAFT WINDSOR HEIGHTS 10 YEAR CIP (FY26-36)

Project Type	Project Name	PCI Rating	Project Description	Project Reasoning	Planned Construction Year (FY) Projects may start/end on adjoining Fiscal Year	Funding Source Estimates						Sewer	Total Estimated Cost	External Funding Sources	Source/Date Information
						Stormwater Funding Source	Storm Water	Water Funding Source	Water	City (GF, TIF, RUT)	Funding Source				
Reconstruction	68th St. South & Mott	38	School St to University Ave. Storm sewer installation, sanitary spot repairs, pedestrian connection to School St and Colby Park.	DMWW priority due to main breaks and need to upsize watermain. Need sidewalk to Colby Park. Poor Pavement Conditions as noted on the PCI. Incorporate recommendations of the Stormwater Management Plan -> portions of Figure #12.	2024-2025	Stormwater/TIF	\$407,571	DMWW/TIF	\$420,300	\$2,872,129	2024 Bond (Debt Levy)		\$3,700,000		Excel Tab 2023
	74th Street	40	74th St Wishire to College. Full depth removal and replacement of the road, replacement of significant storm sewer and subdrains, sanitary sewer spot repairs.	DMWW high priority due to main breaks and need to update main size. Several intakes in need of reconstruciton causing undermining to road. Overlay insufficient.	2025 (storm sewer) 2026 (road reconstruction)	Stormwater	\$630,400	DMWW	\$284,700	\$2,684,900	Cash/LOSST/2024 Bond		\$3,600,000		Excel Tab 2024
	67th Street	33	School St to University Ave. Storm sewer installation, sanitary spot repairs, pedestrian connection to School St and Colby Park.	DMWW upgrade main from 6" to 8". Poor Pavement Conditions as noted on the PCI. Incorporate recommendations of the Stormwater Management Plan -> portions of Figure #12.	2028	Stormwater	\$452,000	DMWW	\$420,300	\$2,927,700	Cash/LOSST		\$3,800,000		Excel Tab 2024
	64th Street - (Forest Ct. to Sunset)	30.5-43	Forest Ct. to Sunset Includes sanitary sewer spot repairs, installation of storm sewer and connections into nearest available structures, and water main replacement.	Poor pavement conditions, lack of storm sewer, resident and council request. Project may be broken up into phases and shall be coordinated with school schedule.	2029	Stormwater	\$307,100	DMWW	\$227,200	\$1,865,700	2029 Bond		\$2,400,000		Excel Tab 2024
	76th Street and Marilyn Drive.	44	76th St. and Marilyn from College to City Limits. Includes sanitary sewer spot repairs, watermain replcement and replacement of storm water and sub drains.	Poor pavement conditions as noted on the PCI. Several intakes on flat spots in need or rebuilding that have caused undermining to road.	2030	Stormwater	\$354,500	DMWW	\$381,800	\$2,963,700	2029 Bond		\$3,700,000		Excel Tab 2024
Reconstruction	Washington Ave. 70th-73rd St.	31	Reconstruction of Washington Ave between 73rd and 70th. Installation of sidewalk and storm sewer to 70th.	Poor pavement conditions noted in PCI.	2033	Stormwater	\$275,900	DMWW	\$266,900	\$2,257,200	TBD		\$2,800,000		Excel Tab 2023
	Carpenter Avenue	44	64th Street to 65th Street. Full depth removal and replacement of the road, installation of some storm sewer and subdrains, sanitary sewer spot repairs.	Pavement conditions as noted on the PCI, shorter section of street that may be able to get completed sooner as funding allows. If paired with Elmcrest Ave, may get more favorable bids.	2034	Stormwater	\$117,214	DMWW	\$16,068	\$863,629	TBD		\$1,200,000		Excel Tab 2020
	73rd Street - (South of University)	17-23	University to Center Street. Includes potential realignment of 73rd St to accommodate pedestrian facilities between Buffalo Road and Center Street, storm sewer improvements, sanitary sewer point repairs. Grant Dependent Signalization Upgrades and potential Ped. Bridge	Poor Pavement Conditions as noted on the PCI. Improve walkability through the corridor. Signal upgrades.	Unscheduled (2030-2031)	Stormwater/RAISE/TIF	\$1,978,630	DMWW	\$0	\$16,321,370	Future Bond (TIF)		\$19,000,000	STBG: 2024\$700,000 STBG 2025 applied. 2025 RAISE Applied	Excel Tab 2020

Reconstruction	Elmcrest Dr - (64th-65th)	42	64th Street to 65th Street. Full depth removal and replacement of the road, installation of some storm sewer and subdrains, sanitary sewer spot repairs.	Pavement conditions as noted on the PCI, shorter section of street that may be able to get completed sooner as funding allows. If paired with Carpenter Ave, may get more favorable bids.	Unscheduled	Stormwater	\$117,214	DMWW	\$16,068	\$863,629	TBD		\$1,200,000		Excel Tab 2020
	Elmcrest Dr - (66th-68th)	45	66th St to 68th St. Full depth removal and replacement of the road, installation of some storm sewer and subdrains, sanitary sewer spot repairs.	Pavement conditions as noted on the PCI, shorter section of street that may be able to get completed sooner as funding allows.	Unscheduled	Stormwater	\$62,521	DMWW	\$10,712	\$971,547	TBD		\$1,200,000		Excel Tab 2020
	Elmcrest Dr - (66th to dead-end)	41	66th Street east to the dead end. Full depth removal and replacement of the road and sanitary sewer spot repairs.		Unscheduled	Stormwater	\$15,600	DMWW	\$16,068	\$620,678	TBD		\$700,000		Excel Tab 2020
	Timmons Ave	32	66th St to 68th St		Unscheduled	Stormwater	\$60,000	DMWW	\$95,500	\$724,500	TBD		\$880,000		Excel Tab 2024
	64th St. - (College to Sunset)	43	College Ave to Sunset		Unscheduled	Stormwater	\$40,000	DMWW	\$250,000		TBD		\$2,000,000		
	64th St. (South of University)	39	South of University to Lamar Place	Pavement conditions as noted on the PCI, creation of storm water connectino from The Windsor.	Unscheduled	Stormwater	\$550,000	DMWW	\$500,000	\$3,170,000	TBD		\$4,220,000		Excel Tab 2024
	79th St.	45	79th St Between College Drive and Marilyn Drive		Unscheduled	Stormwater	\$217,300	DMWW	\$221,700	\$1,751,000	TBD		\$2,190,000		Excel Tab 2024

Project Type	Project Name		Project Description	Project Reasoning	Planned Construction Year (FY)	Stormwater Funding Source	Storm Water	Water Funding Source	Water	City (GF, TIF, RUT)	Funding Source		Total Estimated Cost	External Funding Sources	Source Information
					Projects may start before or be completed after noted Fiscal Year										
Overlays / Mill & Overlay	Forest Court Mill and Overlay (64th to 66th)		From 64th St to 66th St. Mill off the existing road surface and overlay with a 2" asphalt cap. Full depth patches would be completed as needed.	Pavement conditions as noted on the PCI, shorter section of street that may be able to get completed sooner as funding allows. Roads be rerevaluated for full reconstruction as construction date approaches.	2025-2026					\$650,000	RUT/LOST		\$650,000		
	Mott Ave Mill and Overlay (64th to 65th)		64th to 65th Street. Mill off the existing road surface and overlay with a 2" asphalt cap. Full depth patches would be completed as needed.		2028					\$250,000	RUT/LOST		\$250,000		
	77th St. (Marilyn to College)		77th Street from Marilyn Drive to College Drive. Mill and overlay the roadway.		2028					\$650,000	RUT/LOST		\$650,000		
	Luin Lane		Entirety of Luin Lane between both ends of College Drive. Mill and overlay the roadway.		2034					\$400,000	RUT/LOST		\$250,000		
	75th St. (Wilshire to College)		75th St from Wilshire Blvd to College Drive. Mill and overlay the roadway.		2036					\$288,400	RUT/LOST		\$288,400		
	Colby Ave Mill and Overlay (70th to 73rd)		70th to 73rd St. Mill off the existing road surface and overlay with a 2" asphalt cap. Full depth patches would be completed as needed.		Unscheduled					\$741,600	RUT/LOST		\$741,600		
	Plaza Circle Full Depth Asphalt		Plaza Circle south of College Drive to the dead end. Reconstruction		Unscheduled					\$700,000	RUT/LOST		\$700,000		Excel Tab 2024
	Plaza Hills Overlays - Phase 7+		78th St, 79th St, and 80th St between College Drive and Marilyn Drive. 80th Circle north of College Drive. Mill and overlay the roadway. 78th St and 79th St do not require milling, just overlay.		Unscheduled					\$1,545,000	RUT/LOST		\$1,545,000		

Pavement Preservation	Residential Street Cracksealing		Cracksealing of asphalt residential roads		Ongoing					TBD	RUT				
	University Ave Sealing		Sealing along asphalted portions of University Ave to extend life of road		2025					\$120,000	TIF		\$120,000		
	University Ave Striping		Pavement striping within corporate limits		2025					\$120,000	TIF		\$120,000		
	Wilshire Blvd		PCC patching and reconstruction. Primary focus immediately west of 70th St. and immediately west of 73rd.		2027					\$250,000	RUT/LOST		\$250,000		
	Colby Ave (66th to 68th)		66th St to 68th St.Mill out half the depth of existing pavement at failed joints and replace. Similar to work done on 70th Street south of Hickman in 2018.		2027					\$123,600	RUT/LOST		\$123,600		
	66th Street (Forest to Del Matro)		Joint sealing of 66th Street from Forest Court to Del Matro.		2027					\$61,800	RUT/LOST		\$61,800		
	70th St. PCC Patching		Misc PCC Patching		2028					\$500,000	RUT/LOST		\$500,000		
	70th St.Crack Sealing		Crack sealing along entire duration of 70th St.		2029					\$80,000	RUT/LOST		\$80,000		

	Project Name		Project Description	Project Reasoning	Planned Construction Year (FY) Projects may start before or be completed after noted Fiscal Year	Stormwater Funding Source	Storm Water	Water Funding Source	Water	City (GF, TIF, RUT)	Funding Source		Total Estimated Cost	External Funding Sources	Source Information
Storm Water Projects	Wilshire Blvd Storm Sewer		Replace the storm sewer on private property between Wilshire and Sunrise. Abandon the pipe on private property and install new sewer on Wilshire to connect to 73rd St.	Stormwater Management Plan	2026	Stormwater Fund	\$150,000						\$150,000		https://www.windsorheights.org/345/Stormwater-Management
	Storm Sewer Televising		Televis final section of City storm sewer	System maintenance	2026	Stormwater Fund	\$50,000						\$50,000		
	Colby Park Storm Sewer		Installation of storm sewer from School Street to the creek.	Must be completed prior to pickleball phase. Stormwater Management Plan, Figure #11	2027	Stormwater Fund/TIF	\$430,000						\$430,000		
	65th St. Storm sewer addition		Connection from The Windsor storm retention basin, 65th St. and Public Safety Building storm sewer	Provide stormsewer connections on 65th St. and connection to The Windsor overflow	2027	Stormwater Fund	\$670,000						\$670,000		
	Washington Ave, 70th St, and Northwest Drive Storm Sewer Improvements		Installation of storm sewer along Northwest Drive, 69th St, Washington Ave, and 70th Street in order to increase carrying capacity. Can be split into two phases as needed.	Stormwater Management Plan, Figure #2	2032	Stormwater Fund	\$1,500,000						\$1,500,000		
	Colby Avenue and Forest Court Storm Sewer Improvements		Increase size and install new storm sewer on Forest Ct from 68th St to 73rd St. Install storm sewer at the intersection of 70th St. and Colby Ave.	Stormwater Management Plan, Figure #11	2034	Stormwater Fund	\$1,650,000						\$1,650,000		
Streambank Stabilization	North Walnut Creek Streambank Stabilization - Project 1		Protecting storm sewer outfall adjacent to trail west of 1816 75th St. Incorporated in 74th St. project.	Protect public infrastructure and private structures that are at risk of being damaged by continued erosion of the streambank on North Walnut Creek.	2025-2026	Stormwater Fund	\$150,000				74th St. Project Expense		\$150,000		https://windsorheights.org/DocumentCenter/View/1906/Final-Report---North-Walnut-Creek-Stabilization-Study?bidId=
	North Walnut Creek Streambank Stabilization - Project 2		Protect storm sewer and sanitary sewer infrastructure encroaching into creek bank through addition of rip rap.		2029	Stormwater/Sewer Fund	\$100,000						\$100,000		
	North Walnut Creek Streambank Stabilization - Phase 3		Protect public infrastructure and private structures that are at risk of being damaged by continued erosion of the streambank on North Walnut Creek.		Unscheduled	Stormwater Fund	\$500,000						\$500,000		
	North Walnut Creek Streambank Stabilization - Phase 4				Unscheduled	Stormwater Fund	\$500,000						\$500,000		
Flood Reduction	Property buy-outs		Possible result of the flood resiliency study		Unscheduled					TBD			\$4,635,000	Federal monies not currently available	https://www.windsorheights.org/813/Flood-Information
	Levee construction				Unscheduled					TBD			\$6,798,000		
	Creek channel clear and grub				Unscheduled					TBD			\$11,330,000		

					Planned Construction Year (FY) Projects may start before or be completed after noted Fiscal Year	Stormwater Funding Source	Storm Water	Water Funding Source	Water	City (GF, TIF, RUT)	Funding Source		Total Estimated Cost	External Funding Sources	Source Information
Park and Trails	Water Trails Access Point in Colby Park		Construct an interactive and immersive feature along Walnut Creek in Colby Park as part of the Greater Des Moines Water Trails projects.	Park Master Plan	2025-2026					\$150,000	TIF		\$175,000	\$125,000 Grant Awarded	
	Public Art Installation 1		TBD	TBD On Public Art Plan.	2026					TBD	TBD		\$30,000		
	63rd St. Sign and Barrier		City Signage and stone barrier along 63rd St. immediately north of I235	Safety & Signage	2026					\$65,000	TIF		\$65,000		
	Trail Reconstruction adjacent to Colby Park		Replace 2,500' of deteriorated asphalt trail with concrete trail to WalMart Parking lot. Areas north of these will be impacted and replaced by WRA project.	Grant Opportunity	Subject to Grant					\$110,000	TIF		\$220,000	Grant Applied For	
	Parking Parking Lot		Grind and resurface Colby Park parking lot & restore bioswale	Necessary maintenance	2028	Stormwater Fund	\$25,000			\$425,000	TIF		\$450,000		Excel tab 2024
	Public Art Installation 2		TBD	TBD On Public Art Plan.	2029					TBD	TBD		\$30,000		
	Park Tennis Court Phase		Includes the following: Construct new tennis and pickleball courts.	Park Master Plan	2031-32 (Timeline subject to RAISE Grant)					\$1,500,000	TIF		\$1,500,000		
	North of CEC & Fitness Circuit Park Plan		Includes the following: Add north amenity event space; Install landscape improvements; Construct fitness circuit and install equipment.	Park Master Plan	Unscheduled					\$800,000	TIF		\$800,000		
	Sherwood Forest Path Connection		Replacement of grass path to Sherwood Forest.	Subject to Development Agreement on Sherwood Forest	Unscheduled					\$108,000	GF		\$108,000		
	Community Garden		Install a community garden.	Council Input	Unscheduled					TBD	GF		\$20,000		
	Lion's Park Refresh and Reconfigure		Public Works proposing minor improvements 2024-2025	Park Master Plan	Unscheduled					TBD	GF		TBD		
	Trail Connection over Walnut Creek south of I-235		Connect the trail systems between WDM, DSM, and Windsor Heights. This is currently in the feasibility study stage.	Park Master Plan	Unscheduled					TBD	TIF		TBD	Included in RAISE Grant Application	
	Trail Reconstruction Phase 1		I-235 to Center St.	Necessary maintenance	Unscheduled					TBD	GF		\$450,000	TAP Grant Applied For	Excel Tab 2024
	Trail Reconstruction Phase 2		TBD	Necessary maintenance	Unscheduled					TBD	GF		TBD		
Facilities															
	Public Safety Remodel		Repurpose under utilized space and undertake necessary maintenance of existing facilities.	Repurpose under utilized space to accommodate gendered spaces, sleeping quarters and office needs. Replace aging roof and hvac sysyem. Enhance staff safety and improve better employee retention.	Unscheduled					TBD	TBD		In excess of \$1000000		Space Use Analysis



**STAFF REPORT
CITY COUNCIL**
February 3, 2025

TO: CITY COUNCIL

FROM:

SUBJECT: Mayor, Council Reports and Committee Updates, and Administration Reports

GENERAL INFORMATION

ATTACHMENTS

None



**STAFF REPORT
CITY COUNCIL**
February 3, 2025

TO: CITY COUNCIL

FROM:

SUBJECT: Code Enforcement Report - Q4 2024

GENERAL INFORMATION

ATTACHMENTS

1. Code Enforcement Report Q4 2024

To: City Administrator Adam Plagge
From: Deputy City Clerk Nate Leuthold
Date: January 22, 2025
Re: Code Enforcement : Q4 2024 (10/1/24-12/31/24)

CODE ENFORCEMENT

Please see the report below for Q4 of 2024 for code enforcement. Note: some irrelevant sections (e.g. rental inspections) have been removed from this report for simplicity and clarity, but they may appear in future reports.

Code Enforcement Items				
Request Type	Period 10/1/24-12/31/24			
	Total Requests			
	Submitted During Period	Closed During Period	Avg. Days to Close a Request	Total In Progress (as of 12/31/24)
Abandoned / inoperable motor vehicles on private property	9	12	14	0
Building without a permit	0	1	434	0
Dead or diseased trees	4	4	73	6
Nuisance or junk / debris / garbage	11	18	34	4
Other	6	3	5	3
Sidewalks in disrepair	0	1	173	2
Tree trimming or tree removal on private property	0	3	130	0
Unauthorized construction	1	2	120	1
Unsafe building or structure	0	3	131	4
Vehicles parked on grass	13	16	70	7
Weeds / tall grass	2	8	44	3
Total :	48	70	59	30

OVERVIEW

This quarter saw a slowdown in new reports and an increase in closures, including some long-standing issues (which led to an overall increase in average days to close a request). One report of building without a permit was over a year old (progress was being made, but extremely

slowly) and was finally closed out. Dead or diseased trees will be addressed by our 2025 tree removal program.