# **CITY OF DE PERE**

# PROJECT **25-11**

# REDEVELOPMENT STREET AND UTILITY CONSTRUCTION

BID DATE: AUGUST 28, 2025 @ 1:00 PM

Bid documents, including plans and specifications, are available for download at <a href="www.QuestCDN.com">www.QuestCDN.com</a>. The QuestCDN website can also be accessed through the City website at <a href="www.deperewi.gov/projects">www.deperewi.gov/projects</a> or by pressing the <a href="Projects">Projects</a> icon at the bottom of any City website page. Download cost is \$22 for each contract. Bidders will be charged an additional fee of \$42 to submit a bid electronically. Bidding documents may be viewed on the QuestCDN website or at the Municipal Service Center, 925 S. Sixth Street, De Pere, WI 54115.

Bid Tabs must be verified by staff prior to posting and will be available for viewing on the website within 7 days following the bid opening. Award information will be pending until approved by the Common Council.

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# **Redevelopment Street and Utility Construction**

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## **EXHIBITS**

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#### **SECTION 00 11 13**

#### **AUGUST 8, 2025 – AUGUST 15, 2025**

#### **CITY OF DE PERE**

#### **ADVERTISEMENT TO BID**

#### **PROJECT 25-11**

#### REDEVELOPMENT STREET AND UTILITY CONSTRUCTION

Online bids will be received and accepted for Project 25-11 Redevelopment Street and Utility Construction via the online electronic bidding service through QuestCDN.com, until 1:00 PM, Thursday, August 28, 2025, at which time they will be publicly accepted, displayed and read aloud.

Project 25-11 for which proposals are being sought includes the following approximate quantities:

- 1,200 LF New and Relay Sanitary Sewer (8-inch) and Associated Appurtenances
- 850 LF New and Relay Storm Sewer (12-inch to 18-inch) and Associated Appurtenances
- 1,500 LF Relay Water Main (8-Inch to 12-Inch) and Associated Appurtenances
- 800 Tons Asphaltic Concrete Pavement
- 1,000 CY of Crushed Aggregate Base Course of Salvaged Pulverized Asphaltic Concrete Pavement
- 1,400 CY Unclassified Excavation
- 1,500 LF Slip Form Curb and Gutter
- 1,900 SY New and Remove and Replace Concrete Sidewalk, Driveways and Ramps
- 1,400 LF 2" Conduit
- 19 EA Street Lights and Associated Appurtenances

Complete digital project bidding documents are available for viewing and/or downloading at <a href="www.QuestCDN.com">www.QuestCDN.com</a> or may be examined at the office of the Director of Public Works. Digital plan documents may be downloaded for \$22 by inputting Quest project #9628363 on Quest's Project Search page. Project documents must be downloaded from QuestCDN which will add your company to the Planholder List and allow access to vBid online bidding for the submittal of your bid. Bidders will be charged an additional fee of \$42 to submit a bid electronically. The QuestCDN website can also be accessed through the City website at <a href="www.deperewi.gov/projects">www.deperewi.gov/projects</a> or by pressing the <a href="mailto:projects">Projects</a> icon at the bottom of any City website page. Contact QuestCDN Customer Support at 952-233-1632 or <a href="mailto:info@questcdn.com">info@questcdn.com</a> for assistance in membership registration, downloading digital project information and vBid online bid submittal questions.

Each proposal shall be accompanied by a bid bond in an amount equal to five percent (5%) of the bid, payable to the City of De Pere, as a guarantee that if the bid is accepted, the bidder will execute a contract and furnish a contract bond as set forth in the General Conditions of the City of De Pere. In case the bidder fails to file such contract and bond, the amount of the bid bond shall be forfeited to the City of De Pere as liquidated damages.

8/8/2025 00 11 13-1 Advertisement to Bid

#### **Redevelopment Street and Utility Construction**

The letting of the contract is subject to the provisions of the following Wisconsin Statutes:

Section 62.15 regarding Public Works.

Section 66.0901(3) regarding Prequalification of Contractor.

Each bidder shall pre-qualify by submitting proof of responsibility on forms furnished by the Director of Public Works. Such forms shall be filed with the Director of Public Works no later than 4:00 PM, Monday, August 25, 2025. Prospective bidders who have previously submitted such forms subsequent to January 1, 2025 will not be required to separately submit such forms for this project.

The City of De Pere reserves the right to reject any or all bids, to waive any informalities in bidding and to accept any proposal which the Common Council deems most favorable to the interest of the City of De Pere.

Dated this 8th day of August, 2025.

Board of Public Works City of De Pere Eric Rakers, P.E. City Engineer

Project 25-11

8/8/2025 00 11 13-2 Advertisement to Bid

#### **SECTION 00 21 13**

#### INSTRUCTIONS TO BIDDERS

#### ARTICLE 1 - DEFINED TERMS

1.1 Terms used in these Instructions to Bidders have the meanings indicated in the General Conditions. Additional terms used in these Instructions to Bidders have the meanings indicated below: None

#### ARTICLE 2 – COPIES OF BIDDING DOCUMENTS

- 2.1 Complete sets of the Bidding documents in the number and for the deposit sum, if any, stated in the Advertisement to Bid may be obtained as stated in the Advertisement for bids.
- 2.2 Complete sets of Bidding Documents shall be used in preparing Bids; Owner does not assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.
- 2.3 Owner, in providing the Bidding Documents on the terms stated in the Advertisement for Bids, does so only for the purpose of obtaining Bids for the Work and does not confer a license or grant for any other use.

#### ARTICLE 3 - QUALIFICATIONS OF BIDDERS

3.1 In accordance with Section 66.0901(3), each bidder shall pre-qualify by submitting proof of responsibility on forms furnished by the Director of Public Works. Such forms shall be filed with the Director of Public Works as stated in the Advertisement for Bids. Prospective bidders who have previously submitted such forms after January 1<sup>st</sup> of this year will not be required to separately submit such form for this project.

## ARTICLE 4 - EXAMINATION OF BIDDING DOCUMENTS, OTHER RELATED DATA AND SITE

- 4.1 Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with Underground Facilities, and possible changes in the Bidding Documents due to differing or unanticipated conditions appear in the General Conditions.
- 4.2 Underground Facilities
  - A. Information and data shown or indicated in the Bidding Documents with respect to existing Underground Facilities at or contiguous to the Site is based upon information and data furnished to Owner and Engineer by owners of such Underground Facilities, including Owner, or others.

- 4.3 Subsurface and Physical Conditions
  - A. The technical data includes:
    - 1. Those reports known to Owner of explorations and tests of subsurface conditions at or contiguous to the Site; and
    - 2. Those drawings known to Owner of physical conditions relating to existing surface or subsurface structures at the Site (except underground Facilities).
    - 3. In preparation of the Plans and Specifications, Engineer relied upon the following reports of explorations and tests of subsurface conditions at the Site:
      - Employers Boulevard Soil Boring Logs completed by Robert E. Lee & Associates, Inc.
  - B. Limited Reliance by Contractor on Technical Data Authorized: Contractor may rely upon the accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Contractor may not rely upon or make any claim against Owner, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors with respect to:
    - the completeness of such reports and drawings for Contractor's purposes, including but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto; or
    - 2. Other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or
    - 3. Any Contractor interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions, or information.
- 4.4 On request, Owner will provide Bidder access to the Site to conduct such examinations, investigations, explorations, tests, and studies as Bidder deems necessary for submission of a Bid. Bidder shall fill all holes and clean up and restore the Site to its former condition upon completion of such explorations, investigations, tests, and studies. Bidder shall comply with all applicable Laws and Regulations relative to excavation and utility locates.
- 4.5 Reference is made to Section 01 10 00: Summary of Work, for work that will be completed and for the identification of the general nature of other work that is to be performed at the Site by Owner or others (such as utilities and other prime contractors) that relates to the Work contemplated by these Bidding Documents. On request, Owner will provide to each Bidder for examination access to or copies of Contract Documents (other portions thereof related to price) for such other work.
- 4.6 It is the responsibility of each Bidder before submitting a Bid to:
  - A. Examine and carefully study the Bidding Documents, the other related data identified in the Bidding Documents, and any Addenda;
  - B. Visit the Site and become familiar with and satisfy Bidder as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work;

- C. Become familiar with and satisfy Bidder as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work;
- D. Obtain and carefully study (or accept consequences of not doing so) all examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying any specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents, and safety precautions and programs incident thereto;
- E. Agree at the time of submitting its Bid that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of its Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents;
- F. Become aware of the general nature of the work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents;
- G. Correlate the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents;
- H. Promptly give Engineer written notice of all conflicts, errors, ambiguities, or discrepancies, that bidder discovers in the Bidding Documents and confirm that the written resolution thereof by Engineer is acceptable to Bidder; and
- I. Determine that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work.
- 4.7 The submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article 4, that without exception the Bid is premised upon performing and furnishing the Work required by the Bidding Documents and applying any specific means, methods, techniques, sequences, and, procedures of construction that may be shown or indicated or expressly required by the Bidding Documents, that Bidder has given Engineer written notice of all conflicts, errors, ambiguities, and discrepancies that Bidder has discovered in the Bidding Documents and the written resolutions thereof by Engineer are acceptable to Bidder, and that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work.

#### ARTICLE 5 - SITE AND OTHER AREAS

5.1 The Site is identified in the Bidding Documents. Easements for permanent structures or permanent changes in existing facilities are to be obtained and paid for by Owner unless otherwise provided in

the Bidding Documents. All additional lands and access thereto required for temporary construction facilities, construction equipment, or storage of materials and equipment to be incorporated in the Work are to be obtained and paid for by Contractor.

#### ARTICLE 6 - INTERPRETATIONS AND ADDENDA

- 6.1 All questions about the meaning or intent of the Bidding Documents are to be submitted to Engineer in writing. Interpretations or clarifications considered necessary by Engineer in response to such questions will be issued by Addenda mailed or delivered to all parties recorded by Engineer as having received the Bidding Documents. Questions received less than ten days prior to the date for opening of Bids may not be answered. Only questions answered by Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.
- 6.2 Addenda may be issued to clarify, correct, or change the Bidding Documents as deemed advisable by Owner and Engineer.

#### ARTICLE 7 - BID SECURITY

- 7.1 A Bid shall be accompanied by Bid security made payable to Owner in an amount of five percent (5%) of Bidder's maximum Bid price and in the form of a certified check or bank money order or Bid bond (on the form attached) issued by a surety meeting the requirements of the General Conditions. Submittal of a Bid Bond on a form other than the Bid Bond form included in the Bidding Documents may be cause for rejection of Bid. The fully executed bid bond must be uploaded into QuestCDN. If the bidder elects to furnish bid security other than a bid bond, the bid security must be submitted in a sealed envelope enclosed in a separate package plainly marked on the outside with the notation "BID SECURITY" along with the project number and name and addressed to the Board of Public Works of the City of De Pere, Municipal Service Center, 925 S. Sixth Street, De Pere, WI 54115 prior to the deadline for submission of bids.
- 7.2 The Bid security of the Successful Bidder will be retained until such Bidder has executed the Contract documents, furnished the required contract security and met the other conditions of the Notice of Award, whereupon the Bid security will be returned. If the Successful Bidder fails to execute and deliver the Contract Documents and furnish the required contract security within fifteen (15) days after the Notice of Award, Owner may annul the Notice of Award and the Bid security of that Bidder will be forfeited. The Bid security of other Bidders whom Owner believes to have a reasonable chance of receiving the award may be retained by Owner per the General Conditions.
- 7.3 Bid security of other Bidders whom Owner believes do not have a reasonable chance of receiving the award will be returned within seven days after the Bid opening.

#### ARTICLE 8 - CONTRACT TIMES

8.1 The number of days within which, or the dates by which, Milestones are to be achieved and the

#### **Redevelopment Street and Utility Construction**

Work is to be substantially completed and ready for final payment are set forth in the Bid Form and Summary of Work.

#### ARTICLE 9 – LIQUIDATED DAMAGES

9.1 Provisions for liquidated damages are set forth in the General Conditions.

#### ARTICLE 10 – SUBSTITUTE AND "OR-EQUAL" ITEMS

10.1 The Contract, if awarded, will be on the basis of materials and equipment specified or described in the Bidding Documents without consideration of possible substitute or "or-equal" items. Whenever it is specified or described in the Bidding Documents that a substitute or "or-equal" item of material or equipment may be furnished or used by Contractor if acceptable to Engineer, application for such acceptance will not be considered by Engineer until after the Effective Date of the Bid Form and Summary of Work.

#### ARTICLE 11 – SUBCONTRACTORS, SUPPLIERS, AND OTHERS

- 11.1 The Bidder shall submit with the Bid to Owner a list of all such Subcontractors, Suppliers, individuals, or entities proposed for those portions of the Work for which such identification is required. Such list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each such Subcontractor, Supplier, individual, or entity, Owner may, before the Notice of Award is given, request apparent Successful Bidder to submit a substitute, in which case apparent Successful Bidder shall submit an acceptable substitute, Bidder's Bid price will be increased (or decreased) by the difference in cost occasioned by such substitution, and Owner may consider such price adjustment in evaluating Bids and making the Contract award.
- 11.2 If apparent Successful Bidder declines to make any such substitution, Owner may award the Contract to the next lowest Bidder that proposed to use acceptable Subcontractors, Suppliers, individuals, or entities. Declining to make requested substitutions will not constitute grounds for forfeiture of the Bid security of any Bidder. Any Subcontractor, Supplier, individual, or entity so listed and against which Owner makes no written objection prior to the giving of the Notice of Award will be deemed acceptable to Owner subject to revocation of such acceptance after the Effective Date of the Agreement.
- 11.3 Contractor shall not be required to employ any Subcontractor, Supplier, individual, or entity against whom Contractor has reasonable objection.

## ARTICLE 12 - PREPARATION OF BID

- 12.1 The Bid form is included with the Bidding documents.
- 12.2 All blanks on the Bid Form shall be completed by printing in ink or by typewrite and the Bid signed in

#### **Redevelopment Street and Utility Construction**

ink. Erasures or alterations shall be initialed in ink by the person signing the Bid Form. A Bid price shall be indicated for each alternative, and unit price item listed therein, or the words "No Bid," "No Change," or "Not Applicable" entered.

- 12.3 A Bid by a corporation shall be executed in the corporate name by the president or a vice-president or other corporate officer accompanied by evidence of authority to sign. The corporate seal shall be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporations shall be shown below the seal.
- 12.4 A Bid by a partnership shall be executed in the partnership name and signed by a partner (whose title must appear under the signature), accompanied by evidence of authority to sign. The official address of the partnership shall be shown below the signature.
- 12.5 A Bid by a limited liability company shall be executed in the name of the firm by a member and accompanied by evidence of authority to sign. The state of formation of the firm and the official address of the firm shall be shown below the signature.
- 12.6 A Bid by an individual shall show the Bidder's name and official address.
- 12.7 A Bid by a joint venture shall be executed by each joint venture in the manner indicated on the Bid Form. The official address of the joint venture shall be shown below the signature.
- 12.8 All names shall be typed or printed in ink below the signatures.
- 12.9 The Bid shall contain an acknowledgement of receipt of all Addenda, the numbers of which shall be filled in on the Bid Form.
- 12.10 The address and telephone number for communications regarding the Bid shall be shown.
- 12.11 The Bid shall contain evidence of Bidder's authority and qualification to do business in the state where the Project is located or covenant to obtain such qualification prior to award of the Contract. Bidder's state contractor license number, if any, shall also be shown on the Bid Form.

## ARTICLE 13 – BASIS OF BID; COMPARISON OF BIDS

#### 13.1 Unit Price

- A. Bidders shall submit a Bid on a unit price basis for each item of Work listed in the Bid Schedule.
- B. The total of all estimated prices will be the sum of the products of the estimated quantity of each item and the corresponding unit price. The final quantities and Contract Price will be determined in accord with the General Conditions.
- C. Discrepancies between the multiplication of units of Work and unit prices will be resolved in

#### **Redevelopment Street and Utility Construction**

favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between words and figures will be resolved in favor of the words.

#### ARTICLE 14 - SUBMITTAL OF BID

- 14.1 A Bid shall be submitted no later than date and time prescribed and at place indicated in Advertisement for Bids and shall be submitted electronically using the QuestCDN online bidding vBid platform. No paper bids will be accepted.
- 14.2 See Bid Form for a list of documents typically required to be submitted with the Bid.

#### ARTICLE 15 - MODIFICATION AND WITHDRAWAL OF BID

- 15.1 A Bid may be modified or withdrawn by an appropriate document duly executed in the manner that a Bid must be executed and delivered to the place where Bids are to be submitted prior to the date and time for the opening of Bids.
- 15.2 If within 24 hours after Bids are opened, any Bidder files a duly signed written notice with Owner and promptly thereafter demonstrates to the reasonable satisfaction of Owner that there was a material and substantial mistake in the preparation of its Bid, that Bidder may withdraw its Bid, and the Bid security will be returned. Thereafter, if the Work is rebid, that Bidder will be disqualified from further bidding on the Work.

#### ARTICLE 16 - OPENING BIDS

16.1 Bids will be opened as indicated in the Advertisement to Bid. The bid opening can be viewed live via the GoToMeeting information shown below. An abstract of the amounts of the base bids and major alternatives, if any, will be made available to bidders after opening the bids.

The bid opening can be viewed live via GoToMeeting as follows: Please join my meeting from your computer, tablet or smartphone.

https://meet.goto.com/345634277

You can also dial in using your phone. (For supported devices, tap a one-touch number below to join instantly.)

United States (Toll Free): <u>1 877 309 2073</u>

Access Code: 345-634-277

New to GoToMeeting? Get the app now and be ready when your first meeting starts: <a href="https://meet.goto.com/install">https://meet.goto.com/install</a>

#### ARTICLE 17 – BIDS REMAIN SUBJECT TO ACCEPTANCE

17.1 All bids will remain subject to acceptance for the period of time stated in the General Conditions, but Owner may, in its sole discretion, release any Bid and return the Bid security prior to the end of this period.

#### ARTICLE 18 - EVALUATION OF BIDS AND AWARD OF CONTRACT

- 18.1 Owner reserves the right to reject any or all Bids, including without limitation, nonconforming, nonresponsive, unbalanced, or conditional Bids. Owner further reserves the right to reject the Bid of any Bidder whom it finds, after reasonable inquiry and evaluation, to not be responsible. Owner may also reject the Bid of any Bidder if Owner believes that it would not be in the best interest of the Project to make an award to that Bidder. Owner also reserves the right to waive all informalities not involving price, time, or changes in the Work and to negotiate contract terms with the Successful Bidder.
- 18.2 More than one Bid for the same Work from an individual or entity under the same or different names will not be considered. Reasonable grounds for believing that any Bidder has an interest in more than one Bid for the Work may be cause for disqualification of that Bidder and the rejection of all Bids in which that Bidder has an interest.
- 18.3 In evaluating Bids, Owner will consider whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices and other data, as may be requested in the Bid Form or prior to the Notice of Award.
- 18.4 In evaluating Bidders, Owner will consider the qualifications of Bidders and may consider the qualifications and experience of Subcontractors, Supplier, and other individuals or entities proposed for those portions of the Work for which the identify of Subcontractors, Suppliers, and other individuals or entities must be submitted as provided in the Supplementary Conditions.
- 18.5 Owner may conduct such investigations as Owner deems necessary to establish the responsibility, qualifications, and financial ability of Bidders, proposed Subcontractors, Suppliers, individuals, or entities to perform the Work in accordance with the Contract Documents.
- 18.6 Bidder agrees to waive any claim it has or may have against the Owner and the respective employees arising out of or in connection with the administration, evaluation or recommendation of any Bid.
- 18.7 If the Contract is to be awarded, Owner will award the Contract to the lowest responsible responsive Bidder whose Bid is in the best interests of the Project.

#### ARTICLE 19 – CONTRACT SECURITY AND INSURANCE

19.1 The General Conditions set forth Owner's requirements as to performance and payment bonds and

8/8/2025 00 21 13-8 Instructions to Bidders

insurance. When the Successful Bidder delivers the executed Agreement to Owner, it shall be accompanied by such bonds and a certificate of insurance.

#### ARTICLE 20 – SIGNING OF AGREEMENT

20.1 When Owner gives a Notice of Award to the Successful Bidder, it shall be accompanied by the required number of unsigned counterparts of the Agreement with the other Contract Documents which are identified in the Agreement as attached thereto. Within ten (10) days thereafter, Successful Bidder shall sign and deliver the required number of counterparts of the Agreement and attached documents to Owner. Within ten (10) days thereafter, Owner shall deliver one fully signed counterpart to Successful Bidder with a complete set of Drawings with appropriate identification.

**END OF SECTION** 

8/8/2025 00 21 13-9 Instructions to Bidders

Addendum No.

**SECTION 00 41 13** 

#### CITY OF DE PERE

#### **BID FORM**

#### **PROJECT 25-11**

This bid, submitted by the undersigned Bidder to the City of De Pere, in accordance with the Advertisement to Bid, which will be received until 1:00 PM, Thursday, August 28, 2025 is to furnish and deliver all materials, and to perform and do all work on the project designated per Section 01 10 00 Summary of Work.

Bidder has examined and carefully prepared the bid from the plans and specifications and has checked the same in detail before submitting said proposal or bid; and that said bidder or bidder's agents, officer or employees have not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal or bid.

Bidder has examined and carefully studied the Bidding Documents, other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged:

Addendum Date

BASIS (	OF BID:
	Bidder will complete the Work in accordance with the Contract documents for the following price(s):
	As stated in the attached Unit Price Bid Schedule.
	Unit Prices have been computed in accordance with the General Conditions.
	Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

8/8/2025 00 41 13-1 Bid Form

TOTAL BID PRICE: \$\_\_\_\_\_

# **Redevelopment Street and Utility Construction**

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The following documents are submitted with and made a condition of this Bid:

Required Bid Security Unit Price Bid Schedule (Section 00 41 43) В. (Section 00 43 33) C. Proposed Products Form **Tabulation of Subcontractors** (Section 00 43 36) D.

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BID SUBMITTAL
Γhis Bid is submitted by of,
The Bidder, being duly sworn, does dispose that they are an authorized representative of
Bidder, if Bidder is:
An Individual
Name (typed or printed):
Ву:
(Individual's signature)
Doing business as:
<u>A Partnership</u>
Partnership Name:
Ву:
(Signature of general partner – attach evidence of authority to sign)
Name (typed or printed):
A Corporation
Corporation Name:
State of Incorporation:
Type (General Business, Professional, Service, Limited Liability):
Ву:
(Signature – attach evidence of authority to sign)

# **Redevelopment Street and Utility Construction**

Name (typed or printed):	
Title:	
Title:(CORPORATE SEAL)	
Attest	
Date of Qualification to do business in Wisconsin is/	
Joint Venture	
Name of Joint Venture:	
First Joint Venturer Name: (SE)	EAL)
By:	
By: (Signature of first joint venture partner – attach evidence of authority to sign)	
Name (typed or printed):	
Title:	
Cocond Joint Venturer Name	- ^ 1 \
Second Joint Venturer Name: (SE)	<u> </u>
By:	
(Signature of second joint venture partner – attach evidence of authority to sig	gn)
Name (typed or printed):	
Title:	
(Each joint venturer must sign. Manner of signing for each individual, partnership, at that is a party to joint venture should be in manner indicated above.)	
's Business Address	
No Fax No	
TTED on, 20	
Contractor License No(if applicable)	

## **SECTION 00 41 43**

## **CITY OF DE PERE**

## **PROJECT 25-11**

## **BID SCHEDULE – UNIT PRICE**

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID	
SANITARY SEWER						
SS-01	Remove and Relay 8" PVC Sanitary Sewer	LF	60	\$	\$	
SS-02	Provide 8" PVC Sanitary Sewer	LF	1,100	\$	\$	
SS-03	Remove and Replace 4' Diameter Sanitary Sewer Manhole	VF	20	\$	\$	
SS-04	Provide 4' Diameter Sanitary Sewer Manhole	VF	100	\$	\$	
SS-05	Provide 8" PVC Sanitary Sewer Lateral	LF	35	\$	\$	
SS-06	Provide 6" PVC Sanitary Sewer Lateral	LF	200	\$	\$	
SS-07	Provide 8"x6" Sanitary Sewer Wye	EA	3	\$	\$	
SS-08	Connect to Existing Sanitary Sewer Pipe	EA	6	\$	\$	
SS-09	Core Drill and Connect to Existing Sanitary Manhole	EA	1	\$	\$	
SS-10	Dig Down and Verify Sanitary Sewer	EA	3	\$	\$	
SS-11	Abandon/Remove Existing Sanitary Sewer Appurtenances	LS	1	\$	\$	

Project 25-11
Redevelopment Street and Utility Construction

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
STORM	SEWER				
ST-01	Remove and Relay 15" PVC, RCP (Class III) or PP Storm Sewer	LF	15	\$	\$
ST-02	Provide 15" PVC, RCP (Class III) or PP Storm Sewer	LF	260	\$	\$
ST-03	Provide 12" PVC, RCP (Class III) or PP Storm Sewer	LF	560	\$	\$
ST-04	Provide 10" PVC or PP Storm Sewer	LF	15	\$	\$
ST-05	Provide 15"x12" Storm Branch or Inserta Tee	EA	1	\$	\$
ST-06	Provide 4' Diameter Storm Manhole	VF	40	\$	\$
ST-07	Remove and Replace Type B Inlet	EA	1	\$	\$
ST-08	Provide Type B Inlet	EA	7	\$	\$
ST-09	Provide Type B Catch Basin	EA	2	\$	\$
ST-10	Connect to Structure and/or Existing Pipe	EA	13	\$	\$
ST-11	Storm Sewer Dig Down and Repair 15" Storm Sewer (5-foot Repair)	EA	1	\$	\$
ST-12	Storm Sewer Dig Down and Repair 21" Storm Sewer (5-foot Repair)	EA	1	\$	\$
ST-13	Abandon/Remove Existing Storm Sewer Appurtenances	LS	1	\$	\$
WATER	MAIN				
W-01	Provide 12" PVC Water Main Natural Backfill	LF	800	\$	\$
W-02	Provide 12" PVC Water Main Granular Backfill	LF	15	\$	\$

Project 25-11
Redevelopment Street and Utility Construction

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
WATER	WATER MAIN (Continued)				
W-03	Provide 10" PVC Water Main Granular Backfill	LF	720	\$	\$
W-04	Provide 8" PVC Water Main Granular Backfill	LF	40	\$	\$
W-05	Provide 6" PVC Water Main Granular Backfill	LF	150	\$	\$
W-06	Provide 2" HDPE Water Service – Open Cut	LF	35	\$	\$
W-07	Provide 1" HDPE Water Service – Open Cut	LF	30	\$	\$
W-08	Provide 2" Corporation and Curb Stop	EA	1	\$	\$
W-09	Provide 2" Corporation with Plug/Saddle with 2" Galvanized Pipe	EA	3	\$	\$
W-10	Provide 1" Corporation and Curb Stop	EA	1	\$	\$
W-11	Provide Valve Cover for Curb Stops in Concrete	EA	2	\$	\$
W-12	Provide 12" Gate Valve	EA	3	\$	\$
W-13	Provide 10" Gate Valve	EA	2	\$	\$
W-14	Provide 8" Gate Valve	EA	3	\$	\$
W-15	Provide 6" Gate Valve	EA	8	\$	\$
W-16	Provide Connection to Existing Water Main	EA	8	\$	\$
W-17	Provide Hydrant (7.5' Bury)	EA	2	\$	\$
W-18	Provide Hydrant (6.5' Bury)	EA	2	\$	\$

Project 25-11
Redevelopment Street and Utility Construction

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
WATER	WATER MAIN (Continued)				
W-19	Provide 6" PVC Hydrant Lead	LF	60	\$	\$
W-20	Provide 1/2 Vertical Water Main Offset	EA	1	\$	\$
W-21	Abandon/Remove Water Main and Appurtenances	LS	1	\$	\$
STREET	AND DRAINAGE				·
SD-01	Provide Clearing and Grubbing	LS	1	\$	\$
SD-02	Remove Concrete Planters, Bollards, and Light Poles/Bases	LS	1	\$	\$
SD-03	Remove and Salvage Existing Plantings	LS	1	\$	\$
SD-04	Unclassified Excavation	CY	1,400	\$	\$
SD-05	Remove 24" Concrete Curb and Gutter	LF	1,300	\$	\$
SD-06	Remove Concrete Sidewalk and Driveway	SY	810	\$	\$
SD-07	Remove Asphaltic Concrete Pavement	SY	750	\$	\$
SD-08	Provide 1-1/4" Crushed Aggregate Base Course	СУ	1,300	\$	\$
SD-09	Provide Asphaltic Concrete Pavement Type 4 LT 58-28 S, 1-3/4" Upper Layer	TON	350	\$	\$
SD-10	Provide Asphaltic Concrete Pavement Type 3 LT 58-28 S, 2-1/4" Lower Layer	TON	450	\$	\$
SD-11	Provide Asphaltic Concrete Pavement Patch Type 4 LT 58- 28 S, 2" Upper Layer (Employers Boulevard)	SY	800	\$	\$

Project 25-11
Redevelopment Street and Utility Construction

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
STREET	AND DRAINAGE (Continued)				
SD-12	Provide 24" Concrete Curb and Gutter (Slip Form)	LF	1,550	\$	\$
SD-13	Provide 24" Concrete Curb and Gutter (Hand Form)	LF	100	\$	\$
SD-14	Provide Asphalt Curb Head (Employers Boulevard)	LF	180	\$	\$
SD-15	Provide 8" Concrete Sidewalk and Driveway	SY	50	\$	\$
SD-16	Provide 6" Concrete Sidewalk, Ramp, and Driveway	SY	90	\$	\$
SD-17	Provide 4" Concrete Sidewalk	SY	760	\$	\$
SD-18	Provide 6" Concrete Sidewalk, Ramp and Driveway (Stamped DOT Red)	SY	75	\$	\$
SD-19	Provide 4" Concrete Sidewalk (Stamped DOT Red)	SY	950	\$	\$
SD-20	Provide 4" Concrete Sidewalk (Charcoal)	SY	55	\$	\$
SD-21	Provide Thickened Edge Concrete at Tree Grate	LF	80	\$	\$
SD-22	Provide #4 Reinforcement Bars for Curb and Sidewalk	LF	400	\$	\$
SD-23	Drilled Tie Bars (Existing Sidewalk, Driveway, and Curb and Gutter)	EA	40	\$	\$
SD-24	Provide Detectable Warning Field (Natural Patina)	EA	17	\$	\$
SD-25	Pavement Marking Epoxy 6- Inch White	LF	650	\$	\$
SD-26	Landscaping – Topsoil, Seed, Fertilizer and Mulch	SY	80	\$	\$

Project 25-11
Redevelopment Street and Utility Construction

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
SPECIAL	CONSTRUCTION				
SC-01	Pipe Foundation Stabilization	CY	10	\$	\$
SC-02	Installing Bollards	EA	8	\$	\$
SC-03	Inlet Protection Type D	EA	17	\$	\$
SC-04	Adjust Inlet	EA	2	\$	\$
SC-05	Adjust Manhole	EA	7	\$	\$
SC-06	Adjust Water Valve Box	EA	2	\$	\$
SC-07	Polystyrene Insulation Board	LF	20	\$	\$
SC-08	Provide and Install Stop Sign Assembly	EA	5	\$	\$
SC-09	EJ 4'x4' Tree Grate with 2' Opening	EA	2	\$	\$
SC-10	EJ 5'x5' Tree Grate with 2' Opening	EA	16	\$	\$
SC-11	True North Coffee Tree 2" Caliper Trunk	EA	6	\$	\$
SC-12	Autumn Gold Gingko 2" Caliper Trunk	EA	6	\$	\$
SC-13	Street Keeper Honey Locust 2" Caliper Trunk	EA	6	\$	\$
SC-14	Traffic Control (Wisconsin St and William St)	LS	1	\$	\$
SC-15	Traffic Control (Employers Boulevard)	LS	1	\$	\$

Project 25-11
Redevelopment Street and Utility Construction

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
ELECTR	ICAL				
E-01	Conduit Rigid Nonmetallic Schedule 40, 2-Inch	LF	2,200	\$	\$
E-02	Pull Box 24"x24" (Nonconductive)	EA	4	\$	\$
E-03	Concrete Base, Type 5	EA	19	\$	\$
E-04	Poles, Type 5-Aluminum Anodized Black	EA	3	\$	\$
E-05	Decorative Poles, Spring City Hancock With Ladder Rest, 9'- 2" Lamp Post	EA	16	\$	\$
E-06	Luminaire Arms Single Member Mast Arm 4-1/2 Inch Clamp, 8-foot, Anodized Black	EA	3	\$	\$
E-07	Luminaires Utility LED for Type 5 Pole	EA	3	\$	\$
E-08	Luminaires Utility LED for Spring City Decorative Lights	EA	16	\$	\$
E-09	Electrical Wire Lighting 12 AWG	LF	400	\$	\$
E-10	Electrical Wire Lighting 4 AWG	LF	6,600	\$	\$
E-11	Relocate Existing Pull Box	EA	2	\$	\$
E-12	Connect to Existing Light	EA	1	\$	\$
			TO	TAL AMOUNT BID	\$

# **SECTION 00 43 13**

## **CITY OF DE PERE**

## **BID BOND**

KNOW ALL MEN BY THESE PRESENT	S: That		_
as Principal, hereinafter called Princ	ipal, and		
as Surety, hereinafter called Sure corporation of the State of Wiscons payment whereof Principal and Surand assigns, jointly and severally, fir	rety bind themselves, th	r called City, in the amo	ount of) for the
WHEREAS, Principal has made a pro incidentals necessary to complete the prepared by the Director of Public W is hereinafter referred to as the BID	posal to the City for furn he work of Project 25-11 Orks of said City, which p	in accordance with dra	wings and specifications
NOW, THEREFORE, THE CONDITION contract for said project and Prince obligation shall be null and void; other	ipal shall enter into a c	ontract in accordance	with the BID, then this
1. The liability of Surety	shall in no event exceed	the penalty of this bon	d.
·	oceedings, in equity bro shall be executed within	•	<u> </u>
Signed and sealed this da	y of	_, 20	
In the presence of:			
WITNESS	PRINCIPAL	(SEAL)	-
WITNESS	SURETY	(SEAL)	-

## **SECTION 00 43 33**

## PROPOSED PRODUCTS FORM

The following is a list of material, type or model numbers and manufacturers used in the preparation of this proposal and to be used on this project:

ITEM	MATERIAL	SUPPLIER
Valves		
Hydrants		
Manholes	CONCRETE	
Inlets & Catch Basins	CONCRETE	
Storm Sewer (PVC) List Proposed Sizes	PVC	
Storm Sewer (RCP) List Proposed Sizes	REINFORCED CONCRETE	
Storm Sewer (PP) List Proposed Sizes	POLYPROPYLENE	
Sanitary Sewer	PVC	
Water Main	PVC	

8/8/2025 00 43 33-1 Proposed Products Form

#### **SECTION 00 43 36**

#### **TABULATION OF SUBCONTRACTORS**

The following information is submitted which gives the name, business address, and portion of work for each subcontractor that will be used in the work if the bidder is awarded the contract, and no subcontractor doing work in excess of one-half of one percent of the total amount of the bid and who is not listed will be used without the written approval of the Engineer. Additional numbered pages outlining this portion of the proposal may be attached to this page.

PORTION OF WORK	BUSINESS NAME	BUSINESS ADDRESS
Asphaltic Concrete Pavement		
Concrete Driveways, Ramps, and Sidewalk		
Concrete Curb and Gutter		-
Utility Work		
Electrical and Lighting		
Landscaping		
Traffic Control		
Road Excavation		
Pavement Markings		

8/8/2025 00 43 36-1 Tabulation of Subcontractors

#### **SECTION 00 51 00**

#### **NOTICE OF AWARD**

Contract	<mark>or)</mark>
Contract	<mark>or Name</mark>
( <mark>Address)</mark>	
(Address)	

Project Description: 25-11 Redevelopment Street and Utility Construction

The City has considered the proposal submitted by you dated (BID DATE) for the above-described project in response to its Advertisement for Bids dated August 8, 2025 and August 15, 2025.

You are hereby notified that the Common Council of the City of De Pere has accepted your bid of (Contract Amount \$ .00).

You are required to execute the Contract and furnish the required Performance Bond, Payment Bond and Certificates of Insurance within ten (10) calendar days from the date of this notice to you.

If you fail to execute said Agreement and to furnish said bonds within ten (10) days from the date of this notice, said City will be entitled to consider all your rights arising out of the City's acceptance of your bid as abandoned and as a forfeiture of your Bid Bond. The City will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the City.

Dated this	day of	2025.	
		DEPARTMENT OF I	PUBLIC WORKS
		BY: Eric P. Rakers, P.E. City Engineer	
		ACCEPTANCE OF NOTICE	
Receipt of the a	above NOTICE OF A	WARD is hereby acknowledged b	ру:
		, this the day of	, 20
Ву:			
Title:			

## **Redevelopment Street and Utility Construction**

#### **SECTION 00 52 13**

#### **CONTRACT**

This Contract, made and entered into this day (date to be affixed by City), by and between (Contractor Name), hereinafter called Contractor, and the City of De Pere, a municipal corporation of the State of Wisconsin, hereinafter called City.
WITNESSETH: That, in consideration of the covenants and agreements herein contained, to be performed by the parties hereto, and of the payments hereinafter agreed to be made, it is mutually agreed as follows:
ARTICLE I - SCOPE OF WORK
The Contractor shall furnish all materials and all equipment and labor necessary, and perform all work shown on the drawings and described in the specifications for the project entitled Project 25-11 Redevelopment Street and Utility Construction, all in accordance with the requirements and provisions of the following documents, which are hereby made a part of this Contract:
(a) Advertisement for Bids, dated August 8, 2025 and August 15, 2025.
(b) Drawings designated for Project 25-11 Redevelopment Street and Utility Construction dated August 8 2025.
(c) City of De Pere 2025 Construction Specifications.
(d) Special Provisions dated August 8, 2025
(e) Proposal submitted by (Contractor Name) dated Bid Date.
(f) Addenda No. dated

#### **ARTICLE II - TIME OF COMPLETION**

- (a) The work to be performed under the Contract shall be commenced within (number spelled out) (\_\_) calendar days after receipt of written notice to proceed. The work shall be completed within (Number spelled out) (\_\_) calendar days) or (specific calendar dates) after receipt of Notice to Proceed.
- (b) Time is of the essence with respect to the date of completion herein above stated. Failure to complete the work within the number of calendar days stated in this Article, or interim dates included in the work sequence in Section 01 10 00, Summary of Work, including any extensions granted thereto, shall entitle the City to deduct from the monies due the Contractor an amount equal to Update based on 00 70 00 General Conditions (Page 26)(\$) per day for each calendar day of delay in the completion of the work. Such amount shall be considered and treated not as a penalty but as liquidated damages, which the City will sustain, by failure of the Contractor to complete the work within the time stated.

#### ARTICLE III - PAYMENT

- (a) The Contract Sum. The City shall pay to the Contractor for the performance of the Contract the amounts determined for the total number of each of the following units of work completed at the unit price stated thereafter. The number of units contained in this schedule is approximate only, and the final payment shall be made for the actual number of units that are incorporated in or made necessary by the work covered by the Contract.
- (b) Progress Payments. The City shall make payments on account of the Contract as follows:
  - 1. On not later than the fourth Friday of every month the Contractor shall present to the City an invoice covering an estimate of the amount and proportionate value of the work done as verified by the City under each item of work that has been completed from the start of the job up to and including the fourth Friday of the preceding month, and the value of the work so completed determined in accordance with the schedule of unit prices for such items, together with such supporting evidence as may be required. This invoice shall also include an allowance for the cost of such materials and equipment required in the permanent work as have been delivered to the site but not as yet incorporated in the work.
  - 2. On not later than the third week of the following month, the City shall, after deducting previous payments made, pay to the Contractor 95% of the amount of the approved invoice, retaining 5% of the estimate of work done until 50% of the work has been completed. At 50% completion of the work, the previous retainage shall not yet be paid, but further partial payments shall be made in full to the contractor without additional retainage being taken unless the engineer certifies that the work is not proceeding satisfactorily. If the work is not proceeding satisfactorily, additional amounts may be retained. After substantial completion, an amount retained may be paid to the contractor, keeping retained only such amount as is needed for the remaining work.
  - 3. The Contractor shall notify the City in writing when all work under this Contract has been completed. Upon receipt of such notice the City shall, within a reasonable time, make the final inspection and issue a final certificate stating that the work provided for in this Contract has been completed and is accepted under the terms and conditions thereof, and that the entire balance due the Contractor as noted in said final certificate is due and payable. Before issuance of the final certificate the Contractor shall submit evidence satisfactory to the City that payrolls, material bills, and other indebtedness connected with the work under this Contract have been paid. The City shall make final payment as soon after issuance of the final certificate as practicable.

#### ARTICLE IV - CONTRACT DOCUMENTS

#### (a) Contents

- 1. The Contract documents consist of the following:
  - a. This Contract (pages 00 52 13-1 to 0052-13-3, inclusive).
  - b. Payment bond (pages 00 61 13-1 to 00 61 13-2, inclusive).
  - c. Performance bond (page 00 61 16-1).
  - d. General Conditions (pages 00 70 00-1 to 00 70 00-27, inclusive).

# **Redevelopment Street and Utility Construction**

f. Drawings consisting of sheets with each sheet bearing the following general title: (or) the Drawings listed on attached sheet index.  g. Addenda (numbers to inclusive), dated (n. Exhibits to this Agreement (enumerated as follows):  1) Contractor's Bid (pages 00 41 13-1 to 00 41 13-3, inclusive). 2) Bid Schedule — Unit Prices (Pages 00 41 43-1 to 00 41 43-, inclusive). 3) Proposed Products Form (Page 00 43 33-1). 4) Tabulation of Subcontractors (page 00 43 36-1). 5) Documentation submitted by Contractor prior to Notice of Award (00 51 00-1). i. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto: 1) Notice to Proceed (Page 00 55 00-1). 2) Change Orders.  2. The documents listed in Paragraph (a) Contents, are attached to this Agreement (except as expressly noted otherwise above).  3. There are no Contract Documents other than those listed above in this Article IV.  IN WITNESS WHEREOF, the parties hereto have executed this Contract, the day and year first written above  (WITNESS)  (CONTRACTOR) (SEAL)  BY:		e.	Specifications as listed in the ta	ble of c	ontents of the Projec	t Manual.		
g. Addenda (numbers to inclusive), dated h. Exhibits to this Agreement (enumerated as follows): 1) Contractor's Bid (pages 00 41 13-1 to 00 41 13-3, inclusive). 2) Bid Schedule – Unit Prices (Pages 00 41 43-1 to 00 41 43-3, inclusive). 3) Proposed Products Form (Page 00 43 33-1). 4) Tabulation of Subcontractors (page 00 43 36-1). 5) Documentation submitted by Contractor prior to Notice of Award (00 51 00-1). i. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto: 1) Notice to Proceed (Page 00 55 00-1). 2) Change Orders.  2. The documents listed in Paragraph (a) Contents, are attached to this Agreement (except as expressly noted otherwise above).  3. There are no Contract Documents other than those listed above in this Article IV. IN WITNESS WHEREOF, the parties hereto have executed this Contract, the day and year first written above  (WITNESS)  (CONTRACTOR) (SEAL)  BY:  (TITLE)  BY:  (TITLE)  CITY OF DE PERE (SEAL)  Approved as to Form By:  (CITY ATTORNEY)  Sufficient funds are available to provide for the payment of this obligation.  (COMPTROLLER)		f.				he following general title: _	[or] the	
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2) Change Orders.  2. The documents listed in Paragraph (a) Contents, are attached to this Agreement (except as expressly noted otherwise above).  3. There are no Contract Documents other than those listed above in this Article IV.  IN WITNESS WHEREOF, the parties hereto have executed this Contract, the day and year first written above  (WITNESS)  (CONTRACTOR)  (SEAL)  BY:  (TITLE)  BY:  (TITLE)  CITY OF DE PERE (SEAL)  Approved as to Form By:  (CITY ATTORNEY)  Sufficient funds are available to provide for the payment of this obligation.  (COMPTROLLER)				55 NN_1	1			
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IN WITNESS WHEREOF, the parties hereto have executed this Contract, the day and year first written above  (WITNESS)  (CONTRACTOR)  (SEAL)  BY:  (TITLE)  (TITLE)  CITY OF DE PERE (SEAL)  Approved as to Form By:  (CITY ATTORNEY)  Sufficient funds are available to provide for the payment of this obligation.  (COMPTROLLER)		no	ted otherwise above).					
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(WITNESS)  (CONTRACTOR) (SEAL)  BY:  (TITLE)  (TITLE)  CITY OF DE PERE (SEAL)  Approved as to Form By:  (CITY ATTORNEY)  Sufficient funds are available to provide for the payment of this obligation.  (COMPTROLLER)								
(WITNESS)  BY:	IN WI	TNES	SS WHEREOF, the parties hereto	have ex	ecuted this Contract	, the day and year first writ	ten above.	
(WITNESS)  BY:								
(WITNESS)  (TITLE)  BY:		(W	'ITNESS)		(CONTRACTOR)	(SEAL)		
(WITNESS)  (TITLE)  BY:				RY:				
BY:		(W	'ITNESS)			<del></del>		
BY:				-				
(TITLE)  CITY OF DE PERE (SEAL)  Approved as to Form By: (CITY ATTORNEY)  Sufficient funds are available to provide for the payment of this obligation.  (COMPTROLLER)					(TITLE)			
(TITLE)  CITY OF DE PERE (SEAL)  Approved as to Form By: (CITY ATTORNEY)  Sufficient funds are available to provide for the payment of this obligation.  (COMPTROLLER)				BY:				
CITY OF DE PERE (SEAL)  Approved as to Form By: (CITY ATTORNEY)  Sufficient funds are available to provide for the payment of this obligation.  (COMPTROLLER)				_				
Approved as to Form By: (CITY ATTORNEY)  Sufficient funds are available to provide for the payment of this obligation.  (COMPTROLLER)				_	(TITLE)	<del></del>		
Approved as to Form By: (CITY ATTORNEY)  Sufficient funds are available to provide for the payment of this obligation.  (COMPTROLLER)				CITY (	OF DE PERE (SEAL)			
Sufficient funds are available to provide for the payment of this obligation.  (COMPTROLLER)						A. (5) (1)		
(COMPTROLLER)	Appro	ved	as to Form By:		(CITY ATTOR	NEY)		
	Suffici	ent	funds are available to provide fo	r the pa	nyment of this obligat	ion.		
					(COMPTROLLER)			
(CITY MANAGER) (CITY CLERK)	RV·			R۷۰				
	51	(CI	TY MANAGER)	D1.	(CITY CLERK)	<del></del>		

# **SECTION 00 55 00**

## **NOTICE TO PROCEED**

Date:	
(CONTRACTOR NAME)	
(ADDRESS)	
(ADDRESS)	
Project Description: 25-11 Redevelopment Street and Utility Construction	
You are hereby notified to commence work in accordance with the CONTRACT dated	
, within ten (10) days of this Notice. All work under this contract shall be comple	ted
within (NUMBER IN WORDS) (#) consecutive days from the start of construction or	
(DATE) whichever comes first.	
(DATE) Whichever comes hist.	
Department of Public Works	
Department of Fubile Works	
Dur Frie D. Dakore D. E	
By: Eric P. Rakers, P.E.	
Title: City Engineer	
ACCEPTANCE OF NOTICE	
ACCEPTANCE OF NOTICE	
Receipt of the above NOTICE TO PROCEED is hereby acknowledged by	
Receipt of the above NOTICE TO PROCEED is hereby acknowledged by	
, this day of, 20	
Company Name	
Company Name	
Cimpature.	
Signature	
DV.	
BY:	
Printed Name	
TITLE:	

however, to the following conditions.

**SECTION 00 61 13** 

#### CITY OF DE PERE

#### **PAYMENT BOND**

KNOW ALL MEN BY THESE PRESENTS: That (CONTRACTOR NAME),	as Principal, hereinafter called Contractor, and
	, as Surety, hereinafter called Surety, are held
and firmly bound unto the City of De Pere, a municipal corporation o	f the State of Wisconsin, as Obligee, hereinafter
called the City, for the use and benefit of claimants as herein bel	low defined in the <mark>amount of</mark>
(CONTRACT AMT. SPELLED OUT) (\$	for the payment whereof Contractor and
Surety bind themselves, their heirs, executors, administrators, succes	ssors and assigns, jointly and severally, firmly by
these presents.	
WHEREAS, Contractor has by written agreement dated	(date to be affixed by City) entered into
a contract with City for Project 25-11, in accordance with drawings and	I specifications prepared by the Director of Public
Works of said City, which contract is by reference made a part hereof,	and is hereinafter referred to as the CONTRACT.
NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that	, if Contractor shall promptly make payments to

all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the CONTRACT, then this obligation shall be null and void; otherwise it shall remain in full force and effect, subject,

- 1. A claimant is defined as one having a direct contract with Contractor or with a subcontractor of Contractor for labor, material, or both, used or reasonably required for use in the performance of the contract, labor and material being construed to include that part of water, gas, power, lights, heat, oil, gasoline, telephone service,
- 2. The above named Contractor and Surety hereby jointly and severally agree with the City that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant may sue on this bond for the use of such claimant in the name of the City, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon, provided, however, that the City shall not be liable for the payment of any costs or expenses of any such suit.
- 3. No suit or action shall be commenced hereunder by any claimant:

or rental of equipment directly applicable to the contract.

- a. Unless claimant shall have given written notice to any two of the following: The Contractor, the City, or the Surety above named, within ninety (90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail, postage prepaid, in an envelope addressed to the Contractor, City, or Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the State of Wisconsin, save that such service need not be made by a public officer.
- b. After the expiration of one (1) year following the date on which Contractor ceased work on said CONTRACT.

## **Redevelopment Street and Utility Construction**

c. Other than in a state court of competent jurisdiction in and for the County or other political subdivision of the state in which the project, or any part thereof, is situated, or in the United States District Court for the district in which the project, or any part thereof, is situated, and not elsewhere.

4. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens, which may be filed or recorded against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.

SIGNED AND SEALED THIS	_ DAY OF, 20
In Presence of:	
(WITNESS)	(CONTRACTOR) (SEAL)
(WITNESS)	(SURETY) (SEAL)

8/8/2025 00 61 13-2 Payment Bond

## **SECTION 00 61 16**

## **CITY OF DE PERE**

## **PERFORMANCE BOND**

KNOW ALL MEN BY THESE PRESENTS: The			
firmly bound unto the City of De Pere, a m City, in the amount of	nunicipal corporation of the State of (AMOUNT WRITTEN OUT) (\$	) for the payment wher	lled reof
severally, fiffing by these presents.			
WHEREAS, Contractor has by written agree a contract with the City for Project 25-11, Public Works of said City, which contract CONTRACT.	, in accordance with drawings and $\mathbf{s}_{\parallel}$	pecifications prepared by the Directo	r of
NOW THEREFORE, THE CONDITION OF TO perform said CONTRACT, then this obligation			
Whenever Contractor shall be, and dec performed City's obligations there under,			/ing
1. Complete the CONTRACT in accor	dance with its terms and conditions	or	
contract between such bidder ar default or succession of defaults u sufficient funds to pay the cost including other costs and damage first paragraph hereof. The term	tion by the City and Surety of the Ind City make available as work projunder the contract or contracts of completion less the balance of es for which the Surety may be liable "balance of the contract price" as us actor under the CONTRACT and any	TRACT in accordance with its terms a owest responsible bidder, arrange for gresses (even though there should be impletion arranged under this paragrate the contract price; but not exceed the hereunder, the amount set forth in sed in this paragraph shall mean the toy amendments thereto, less the amount set forth in the sed in this paragraph.	or a be a iph) ing, the otal
Any suit under this bond must be institute under the CONTRACT falls due. No right of other than the owner named herein or th	action shall accrue on this bond to o	r for the use of any person or corporat	
SIGNED AND SEALED THIS DA	AY OF, 20	·	
In the Presence of:			
(WITNESS)	(CONTRACTOR)	(SEAL)	
(WITNESS)	(SURETY)	(SEAL)	

8/8/2025 00 61 16-1 Performance Bond

## **SECTION 00 62 76**

## **APPLICATION FOR PAYMENT**

# **Contractor's Application for Payment No.**

	Application Period:			Application Date:	
	Owner: City of De P	ere		Contractor:	
				Contractor's Project No.:	
APPLICATION FOR	R PAYMENT Change Order Summary	1			
Approved Change C	Orders		TO SEE THE SEE AND ADDRESS OF THE PROPERTY OF THE SECOND S	PRICE:	
Number	Additions	Deductions	2. Net change by Change	Orders and Written Amendments (+ or -):	\$0.00
			3. CURRENT CONTRACT	PRICE (Line 1 plus Line 2):	\$0.00
			4. Total completed and sto	red to date Column H on Progress Estimate:	\$0.00
			5. Retainage (per Agreeme	ent):	
			a. Work Completed - Coli	umn H (95% up to 50% of Contract or 2.5% of	\$0.00
			100% of Contract)		2
Total	\$0.00	\$0.00		DATE (Line 4 minus 5)	\$0.00
		*		MENTS (Line 6 from prior Application)	\$0.00
NET CHANGE BY C	CHANGE ORDERS:	\$0.00	8. AMOUNT DUE THIS AF	PPLICATION (Line 6 minus Line 7)	\$0.00
payments received for ave been applied of applied of applied for Payment; (2) title said Work or otherwill pass to Owner a	certification  Intractor certifies that:(1) all purified of the properties of the count of work account to discharge Contraction connection with Work covered of all Work, materials and equivise listed in or covered by this at time of payment free and clear or the country of t	k done under Contract ctor's legitimate ed by prior Applications uipment incorporated in Application for Payment ar of all Liens, security	Payment of:  is recommended by:  Payment of:	\$ (Line 8 or other - attach explanation of other amount)  (Contractor)	(Date)
acceptable to Owne nterest or encumbra	r indemnifying Owner against a ances); and (3) all Work covere dance with the Contract Docur	any such Liens, security ed by the Application for		(Line 8 or other - attach explanation of other amount)	
Зу:		Date:		(Owner)	(Date)

# **SECTION 00 65 16**

# **CERTIFICATE OF SUBSTANTIAL COMPLETION**

Project:	
Owner:	Owner's Contract No.:
Contractor:	
This [tentative] [definitive] Certificate of Subst	antial Completion applies to:
☐ All Work under the Contract Documents: ☐	·
Marie Work under the contract bocuments.	The following specified portions of the Work.
Date of S	Substantial Completion
• •	been inspected by authorized representatives of Contractor
•	emplete. The Date of Substantial completion of the Project or
warranties required by the Contract Document	eclared and is also the date of commencement of applicable
warranties required by the Contract Document	is, except as stated below.
A [tentative] [definitive] list of items to be cor	npleted or corrected is attached hereto. This list may not be
	s on such list does not alter the responsibility of the Contractor
to complete all Work in accordance with the Co	ontract Documents.
•	ntractor for security, operation, safety, maintenance, heat,
utilities, insurance and warranties shall be as follows:	provided in the Contract Documents except as amended as
Tollows:	
☐ Amended Responsibilities	☐ Not Amended
Owner's Amended Responsibilities:	
Contractor's Amended Responsibilities:	

The following documents are attached to and made part of this Certificate:		
	eptance of Work not in accordance with the Contract Docume n to complete the Work in accordance with the Contract	nts
Executed by Engineer	Date	
Accepted by Contractor		

#### **SECTION 01 10 00**

#### **SUMMARY OF WORK**

PART 1 - GENERAL

#### 1.1 SUMMARY

#### A. Section Includes

- References
- 2. Work Covered by the Contract Documents
- 3. Work Sequence/Schedule
- 4. Use of Premises
- 5. Warranty
- 6. Work by Others
- 7. Project Utility Sources
- 8. Miscellaneous Provisions

#### 1.2 REFERENCES

- A. General Specifications. The work under this contract shall be in accordance with the City of De Pere, 2025 Construction Specifications and these Special Provisions and plans, and the latest edition of the Wisconsin Department of Transportation Standards Specifications for Highway and Structure Construction, where referenced in the City Specifications.
- B. Definitions. Any reference to the "state" or the "department" in said Standard Specifications shall mean the "City of De Pere" for the purposes of this contract.

# C. Industry Standards

- Unless the Contract Documents include more stringent requirements, applicable
  construction industry standards have the same force and effect as if bound or copied directly
  into the Contract Documents to the extent referenced. Such standards are made a part of
  the Contract Documents by reference.
- 2. Comply with standards in effect as of date of the Contract Documents, unless otherwise indicated.
- 3. If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement.
- 4. The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements.

### **Redevelopment Street and Utility Construction**

5. Each section of the specifications generally includes a list of reference standards normally referred to in that respective section. The purpose of this list is to furnish the Contractor with a list of standards normally used for outlining the quality control desired on the project. The lists are not intended to be complete or all inclusive, but only a general reference of standards that are regularly referred to.

6. Each entity engaged in construction on the Project shall be familiar with industry standards applicable to its construction activity. Copies of applicable standards are not bound with the Contract Documents. Where copies of standards are needed to perform a required construction activity, obtain copies directly from the publication source and make them available on request.

#### 1.3 WORK COVERED BY THE CONTRACT DOCUMENTS

#### A. Project Identification

- 1. Project Location
  - a. Employers Boulevard from 800 feet west of Lawrence Drive to 1,600 feet west of Lawrence Drive.
  - b. William Street from N. Wisconsin Street to N. Michigan Street
  - c. N. Wisconsin Street from William Street to James Street
- 2. Work will be performed under the following prime contract:
  - a. Project 25-11 Redevelopment Street and Utility Construction

#### B. The Work includes:

- 1. Sanitary sewer and associated appurtenances relay and new.
- 2. Storm sewer and associated appurtenances relay and new.
- 3. Water main and associated appurtenances relay and new.
- 4. Concrete curb and gutter removal and replacement.
- 5. Concrete driveway aprons, pedestrian ramps, and sidewalk removal and replacement.
- 6. Remove concrete and asphaltic concrete pavement, sidewalks and curb and gutter.
- 7. Unclassified Excavation.
- 8. Manhole, inlet, and catch basin adjustment and repair.
- 9. Asphaltic concrete paving.
- 10. Landscaping.
- 11. Erosion Control.
- 12. Traffic Control.
- 13. Signage, new.
- 14. Pavement Markings.
- 15. Tree and Stump Removal.
- 16. Electrical services and lighting fixtures, new.

# 1.4 WORK SEQUENCE/SCHEDULE

A. Project shall be completed by October 15, 2026.

### **Redevelopment Street and Utility Construction**

- B. Project includes multiple interim dates as follows:
  - Phase 1 Sanitary sewer, water main, and storm sewer work shall commence on/after November 3<sup>rd</sup> and be completed by December 12<sup>th</sup>. This includes Wisconsin Street, William Street, and Employers Boulevard. Only remove hard surface needed to accommodate utility relay work in 2025. Remove remaining asphalt and/or concrete during reconstruction work in 2026.
  - 2. Phase 2 Complete the following work by June 12<sup>th</sup>.
    - a. Concrete curb and gutter on Wisconsin and William Street
    - b. Asphaltic concrete pavement binder course for Wisconsin and William Street.
    - c. Concrete sidewalk and stamped colored concrete on William Street.
    - d. Concrete sidewalk and stamped colored concrete on Wisconsin Street in front of 550 William Street
    - e. Decorative concrete and crosswalk at James Street/Walsh Plaza.
  - 3. Phase 3 Complete the following after August 15<sup>th</sup>, 2026 and by October 15<sup>th</sup>, 2026.
    - a. Concrete sidewalk and stamped colored concrete in front of 550 Wisconsin Street.
    - b. Asphaltic concrete pavement surface course for Wisconsin and William Street.
- C. All trenches within the roadway on Employers Boulevard shall be brought to grade with gravel and a 2-inch asphaltic concrete surface to allow for plowing operations through winter.
- D. Topsoil, seed, and mulch and tree installation shall be completed prior to asphaltic concrete pavement placement.
- E. Install applicable erosion control practices prior to the start of construction.
- F. Project site at N. Wisconsin Street and William Street shall be closed to traffic during construction.
- G. No work shall occur on the following holidays:
  - 1. November 27 & 28, 2025.
  - 2. December 24 through 26, 2025.
  - 3. January 1 & 2, 2026.
  - 4. January 19, 2026.
  - 5. May 25, 2026.
  - 6. July 3, 2026.
  - 7. September 7, 2026.

## 1.5 USE OF PREMISES

A. Contractor shall have full use of the premises for construction operations, including use of the Project Site, as allowed by law, ordinances, permits, easement agreements and the Contract documents.

#### **Redevelopment Street and Utility Construction**

B. Contractor's use of premises is limited only by Owner's right to perform work or to retain other contractors on portions of the Project.

- C. The Project Site is limited to property boundaries, rights-of-way, easements, and other areas designated in the Contract Documents.
- D. Provide protection and safekeeping of material and products stored on or off the premises.
- E. Move any stored material or products which interfere with operations of Owner or other Contractors.

#### 1.6 WARRANTY

- A. The Contractor warrants and guarantees to the City that all work shall be in accordance with the Contract Documents and will not be defective. Prompt notice of all defects will be given to the Contractor. All defective work, whether or not in place, may be rejected, corrected or accepted as provided in this proposal.
- B. If within one (1) year after the date of contract work completion or such longer period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the Contract Documents or by a special provision of the Contract Documents, any work is found to be defective, the Contractor shall comply in accordance with the City's written instructions. These written instructions will include either correcting such defective work or, if it has been rejected by the City, removing it from the site and replacing it with non-defective work. If the Contractor does not promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk or loss or damage, the City may have the defective work corrected or the rejected work removed and replaced. All direct and indirect costs of correction or removal and replacement of defective work, including compensation for additional professional services, shall be paid by the Contractor.

#### 1.7 WORK BY OTHERS

- A. The City of De Pere Park Department will trim trees in conflict with construction if the City receives advanced notification. Questions regarding trees or landscaping that is bid as part of this contract can be directed to the Engineer.
- B. Plants at the Walsh Plaza (James Street) shall be salvaged to the City. City staff will reinstall plants after construction. Coordinate depth of restoration to accommodate plant installation by the City.
- C. Private site development will be occurring at 500 William Street, 230 N. Wisconsin Street, 215 N. Wisconsin Street, and 1100 Employers Boulevard. Cooperate fully with separate contractors and/or Owner so work by others may be carried out smoothly, without interfering with or delaying work under this Contract.

8/8/2025 01 10 00-4 Summary of Work

### **Redevelopment Street and Utility Construction**

#### 1.8 PROJECT UTILITY SOURCES

- A. Green Bay Metropolitan Sewer District (NEW Water), Lisa Sarau, (<u>Isarau@newwater.us</u>) (920-438-1039)
- B. AT&T, Kyle Weber, (kw715w@att.com) (920-221-5969)
- C. Wisconsin Public Service, Bob Laskowski, (<u>rtlaskowski@wisconsinpublicservice.com</u>) (920-617-2775)
- D. Charter, Vince Albin, (vince.albin@charter.com) (920-378-0444)
- E. Nsight, Rick Vincent, (rick.vincent@nsight.com) (920-617-7316)
- F. TDS Metrocom, Steve Jakubiec, (<a href="mailto:steve.jakubiec@tdstelecom.com">steve Jakubiec@tdstelecom.com</a>) (920-882-4166)
- G. Net-Lec (Mi-Tech Services), Dennis Lafave, (<u>dlafave@mi-tech.us</u>) (920-619-9774)
- H. CenturyLink, Relocation Team, (<u>relocations@lumen.com</u>) (800-871-9244)
- Central Brown County Water Authority, Rob Michaelson, (<u>rmichaelson@mpu.org</u>) (920-686-4354)

#### 1.9 MISCELLANEOUS PROVISIONS

- A. Notification to Residents –notify individually all residents and businesses 2-weeks prior to the start of operations, giving an estimated time that vehicle movement will be limited or prohibited. Property owners shall be notified 24-hours prior to closing a drive.
- B. Temporary restoration shall be as follows:
  - 1. Wisconsin and William Street shall be restored as follows:
    - a. The intersection of William and Wisconsin Street and William and Michigan Street may be restored with 2" of asphaltic concrete pavement, cold mix, or asphaltic concrete pavement millings as shown in the plans. These areas shall be maintained throughout construction.
    - b. The remainder of work on Wisconsin and William Street may be restored with gravel. These streets will remain closed to traffic and will not require maintenance during the winter.
  - 2. The James Street sidewalk shall be restored with temporary concrete or asphaltic concrete pavement.
  - 3. Employers Boulevard shall be restored with 2" depth asphaltic concrete pavement once utility work is completed. Removed curb and gutter shall have a curb head formed with asphaltic concrete pavement.

#### **Redevelopment Street and Utility Construction**

- C. Access to the USPS drop box shall remain open until road construction starts in 2026.
- D. All trenches within the traveled lanes on Employers Boulevard will be restored with granular backfill and a two-inch thick asphaltic concrete patch. Any curb and gutter removed as part of the utility relay on Employers Boulevard will be replaced with asphaltic concrete with a hand formed asphaltic concrete curb head.
- E. The existing sanitary sewer service to 1100 Employers Boulevard will temporarily connect to the proposed SANMH 41 at STA 27+49. Once the sanitary sewer is relayed as part of this work and the new sewer service is established at SANMH 47, the temporary connection at SANMH 41 can be capped at the manhole.
- F. Ingress and egress to the site of work for delivery of materials, hauling of excavation, daily construction activities and all vehicular traffic shall be as follows:
  - 1. Employers Boulevard from Lawrence Drive via Scheuring Road.
  - 2. N. Wisconsin Street and William Street shall be accessed off Williams Street via N. Broadway Street. Empty trucks may leave the site on N. Wisconsin Street towards George Street.
- G. City to coordinate USPS drop box removal with the postal service at the intersection of N. Wisconsin Street and James Street.

PART 2 - PRODUCTS

PART 3 – EXECUTION

**END OF SECTION** 

8/8/2025 01 10 00-6 Summary of Work

#### **SECTION 01 22 01**

#### **MEASUREMENT AND PAYMENT SANITARY SEWER**

PART 1 - GENERAL

#### 1.1 SUMMARY

Α.

Section includes:	<u>Bid Item No.</u>
<ol> <li>Sanitary Sewer Mains (Granular Backfill)</li> </ol>	SS-01 & SS-02
2. Sanitary Sewer Manholes	SS-03 & SS-04
3. Sanitary Sewer Laterals	SS-05 & SS-06
4. Sanitary Sewer Service Branches	SS-07
5. Connect to Existing Sanitary Sewer	SS-08 & SS-09
6. Dig Down and Verify Sanitary Sewer	SS-10
7. Abandon/Remove Sanitary Sewer and Appurtenances	SS-11

#### B. Unit Prices include:

- Defined work for each Unit Price Item which will provide a functionally complete Project
  when combined with all unit price items. If there are specific work items which the
  Contractor believes are not identified in any Unit Price Item, but is required to provide a
  functionally complete Project, then the identified specific work items shall be included in the
  appropriate Unit Price Item.
- 2. The method of measurement for payment.
- 3. The price per unit for payment.

## 1.2 GENERAL WORK ITEMS

- A. Include with the appropriate Unit Price Item the following work items which are common to the Unit Price Items for sanitary sewer systems.
- B. If there is a specific Unit Price Item for any of the following items, then the work item shall be included with that specific unit price item.
  - 1. Traffic Control.
  - 2. Sawcutting asphalt and/or concrete.
  - 3. Removal, hauling and disposal of surface materials including road pavement, curb and gutter, sidewalk, driveways and other pavement surfaces in the trench area and as shown on the drawings.
  - 4. Dewatering.
  - 5. Bypass pumping.
  - 6. Excavation.
  - 7. Open Trench installation method (unless bid item specifies other method).
  - 8. Pipe Bedding.
  - 9. Backfilling and compacting native obtained from the excavation.

- 10. Supplying, hauling, backfilling and compacting granular material.
- 11. Loading, hauling and disposing of surplus excavated material.
- 12. Landscaping turf establishment surface restoration and trees and bushes damaged during construction.
- 13. Maintenance, protection, replacement and/or repair of facilities not designated for alteration on the Site beyond the limits identified.
- 14. Site access requirements including temporary aggregate material as required for local traffic access.
- 15. Bulkhead and abandoned existing sanitary sewer with flowable fill as shown on Drawings.
- 16. If crossing or undermining of existing public or private utility, then include:
  - a. Maintaining the utility in service.
  - b. Replacing of existing utilities, if damaged.
  - c. Providing support and bedding material.
- 17. Dust control.
- 18. Remove and replace existing mailboxes and traffic signs.
- 19. Restroom facilities.
- 20. Easement and right-of-way requirements.
- 21. Construction staking and other survey work not provided by the Engineer.
- 22. Regulatory requirements.
- 23. Preconstruction videotaping and video equipment.
- 24. Quality assurance and quality control testing and inspections.
- 25. Shop drawings and other submittals.

#### 1.3 SANITARY SEWER MAINS (GRANULAR BACKFILL)

- A. The unit price for Sanitary Sewer Main (Granular Backfill) work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Sanitary sewer pipe and fittings of material stated in the Unit Price Bid Schedule and installed using the open trench method.
  - 3. Excavation, breakdown and removal of abandoned piping inside the trench area, including plugging of existing connections.
  - 4. Excavation, breakdown and removal of abandoned pipeline structures inside the trench area, including plugging of existing connections.
  - 5. Clay anti-seepage collar around pipe.
- B. Measurement of payment will be the actual horizontal length along the centerline of the installed sewer from centerline of the manhole to centerline of manhole with no deductions for manholes, sewer services branches and other fittings.
- C. The unit of measurement for payment is linear feet.

#### 1.4 SANITARY SEWER MANHOLES

A. The unit price for Sanitary Sewer Manholes work includes:

- 1. General Work Items of Article 1.2.
- 2. Precast reinforced concrete components.
- 3. Joint flexible gasket material.
- 4. Resilient flexible connector between the manhole structure and the sewer pipe.
- 5. Adjusting rings and bituminous plastic cement sealant at chimney.
- 6. Manhole steps.
- 7. Manhole frame and cover (Neenah Foundry R-1500 Manhole Cover with Non-Rocking Lid or equal). Sanitary Sewer manhole covers shall have gaskets and concealed pick holes.
- 8. Bedding material.
- 9. Sewer pipe stub with connections and watertight plug (where required).
- 10. Final casting adjustment.
- B. Measurement for payment will be the distance from the invert of the lowest sewer to the top of the frame and cover as set.
- C. The unit of measurement for payment is vertical feet.

#### 1.5 SANITARY SEWER LATERALS

- A. The unit price for Sanitary Sewer Laterals work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Sanitary sewer lateral pipe and fittings of the material stated in the Unit Price Bid Schedule and installed using the open trench method.
  - 3. Watertight plug in the end of the sewer service lateral or connection including transition coupling to the existing building sewer lateral.
  - 4. Tracer wire.
  - 5. Install an  $8' 4'' \times 4''$  board at the end of the lateral.
- B. Measurement of payment will be the actual horizontal length along the centerline of the installed sewer service lateral pipe (excluding risers) from centerline of the service branch to the end of the pipe at the right of way, easement or existing sewer service lateral with no deductions for fittings.
- C. The unit of measurement for payment is linear feet.

#### 1.6 SANITARY SEWER SERVICE BRANCHES

- A. The unit price for Sanitary Sewer Service Branches work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Sanitary sewer service branches of same material strength or better than sanitary sewer main pipe.
  - 3. Installation along with the sanitary sewer main pipe installation.
  - 4. Plug (where required).

- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

#### 1.7 CONNECT TO EXISTING SANITARY SEWER

- A. The unit price for Reconnect to Connect to Existing Sanitary Sewer work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Sanitary Sewer Pipe same material strength or better than sewer main. Provide Fernco with stainless steel sheer bands and connection water tight seal.
  - 3. Backfilling and compacting.
  - 4. Core drilling into existing sanitary sewer manhole (where required).
  - 5. Reform flow line in existing sanitary manhole (where required).
  - 6. Providing water tight gasket (where required).
  - 7. Installing sanitary sewer pipe into manhole (where required).
- B. Measurement for payment will be the actual number completed.
- C. The unit of measurement for payment is each.

#### 1.8 DIG DOWN AND VERIFY SANITARY SEWER

- A. The unit price for Dig Down and Verify Sanitary Sewer work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Televise or excavate down to existing sanitary sewer to expose the pipe to verify the sewer depth.
  - 3. Assist City staff with televising. City staff will provide a push camera to televise the sewer (if required).
- B. Measurement for payment will be the actual number completed.
  - 1. This item only applies to the sewer verifications shown on Employers Boulevard.
- C. The unit of measurement for payment is each.

#### 1.9 ABANDON/REMOVE SANITARY SEWER AND APPURTENANCES

- A. The unit price for Dig Down and Verify Sanitary Sewer work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Excavating.
  - 3. Install bulkheads and abandon sanitary sewer and/or structures.
  - 4. Removing existing sanitary sewer and/or structures where in conflict with other utilities.
  - 5. Providing and placing flowable fill.
  - 6. Backfilling and compacting.
  - 7. Removal and disposal as shown on the Drawings.

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B. Measurement for payment will not be made. This includes all the project areas.

C. The unit of measurement for payment is lump sum.

**END OF SECTION** 

#### **SECTION 01 22 02**

#### **MEASUREMENT AND PAYMENT STORM SEWER**

PART 1 - GENERAL

#### 1.1 SUMMARY

Α.

Sec	ction includes:	<u>Bid Item No.</u>
1.	Storm Sewer Mains (Granular Backfill)	ST-01, ST-02, ST-03, & ST-04
2.	Storm Sewer Service Branches	ST-05
3.	Storm Sewer Manholes	ST-06
4.	Catch Basin/Inlets	ST-07, ST-08, & ST-09
5.	Connect to Existing Storm Sewer Pipe or Structure	ST-10
6.	Storm Sewer Dig Down Spot Repair	ST-11 & ST-12
7.	Abandon/Remove Storm Sewer and Appurtenances	ST-13

#### B. Unit Prices include:

- Defined work for each Unit Price Item which will provide a functionally complete Project
  when combined with all unit price items. If there are specific work items which the
  Contractor believes are not identified in any Unit Price Item, but is required to provide a
  functionally complete Project, then the identified specific work items shall be included in the
  appropriate Unit Price Item.
- 2. The method of measurement for payment.
- 3. The price per unit for payment.

#### 1.2 GENERAL WORK ITEMS

- A. Include with the appropriate Unit Price Item the following work items which are common to the Unit Price Items for storm sewer systems.
- B. If there is a specific Unit Price Item for any of the following items, then the work item shall be included with that specific unit price item.
  - 1. Traffic Control.
  - 2. Sawcutting asphalt and/or concrete.
  - 3. Removal, hauling and disposal of surface materials including road pavement, curb and gutter, sidewalk, driveways and other pavement surfaces in the trench area and as shown on the drawings.
  - 4. Dewatering.
  - 5. Excavation.
  - 6. Open trench installation method (unless bid item specifies other method).
  - 7. Pipe bedding.
  - 8. Backfilling and compacting native obtained from the excavation.
  - 9. Supplying, hauling, backfilling and compacting granular material.

- 10. Loading, hauling and disposing of surplus excavated material.
- 11. Landscaping turf establishment surface restoration and trees and bushes damaged during construction.
- 12. Maintenance, protection, replacement and/or repair of facilities not designated for alteration on the Site beyond the limits identified.
- 13. Site access requirements including temporary aggregate material as required for local traffic access.
- 14. Bulkhead and abandon existing storm sewer with flowable fill as shown on drawings.
- 15. If crossing or undermining of existing public or private utility, then include:
  - a. Maintaining the utility in service.
  - b. Replacing of existing utilities, if damaged.
  - c. Providing support and bedding material.
- 16. Dust control.
- 17. Remove and replace existing mailboxes and traffic signs.
- 18. Restroom facilities.
- 19. Easement and right-of-way requirements.
- 20. Construction staking and other survey work not provided by the Engineer.
- 21. Regulatory requirements.
- 22. Preconstruction videotaping and video equipment.
- 23. Quality assurance and quality control testing and inspections.
- 24. Shop drawings and other submittals.

# 1.3 STORM SEWER MAINS (GRANULAR BACKFILL)

- A. The unit price for Storm Sewer Main (Granular Backfill) work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Storm sewer pipe and fittings of material stated in the Unit Price Bid Schedule and installed using the open trench method.
  - 3. Excavation, breakdown and removal of abandoned piping inside the trench area, including plugging of existing connections.
  - 4. Excavation, breakdown and removal of abandoned pipeline structures inside the trench area, including plugging of existing connections.
- B. Measurement of payment will be the actual horizontal length along the centerline of the installed sewer from centerline of the manhole to centerline of manhole with no deductions for manholes, sewer services branches and other fittings.
- C. The unit of measurement for payment is linear feet.

# 1.4 STORM SEWER SERVICE BRANCHES/INSERTA TEES

- A. The unit price for Storm Sewer Service Branches/Inserta Tees work includes:
  - 1. General Work Items of Article 1.2.

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2. Storm sewer service branches of same material strength or better than storm sewer main pipe (where required).

- 3. Core drilling into concrete storm sewer main (where required).
- 4. Installation along with the storm sewer main pipe installation.
- 5. Plug (where required).
- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

#### 1.5 STORM SEWER MANHOLES

- A. The unit price for Storm Sewer Manholes work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Precast reinforced concrete components.
  - 3. Joint flexible gasket material.
  - 4. Grout seal between the manhole and structure and the sewer pipe.
  - 5. Adjusting rings and bituminous plastic cement sealant at chimney.
  - 6. Manhole steps.
  - 7. Manhole frame and cover.
  - 8. Bedding material.
  - 9. Sewer pipe stub with connections and watertight plug (where required).
  - 10. Final casting adjustment.
- B. Measurement for payment will be the distance from the invert of the lowest sewer to the top of the frame and cover as set.
- C. The unit of measurement for payment is vertical feet.

#### 1.6 CATCH BASIN/INLETS

- A. The unit price for Catch Basin/Inlets work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Precast reinforced concrete components.
  - 3. Joint flexible gasket material.
  - 4. Grout seal between the catch basin/inlet structure and the sewer pipe.
  - 5. Adjusting rings grouted in place.
  - 6. Casting frame and grate.
  - 7. Bedding material.
  - 8. Supply and install 6 to 10 feet of 4 inch flexible perforated plastic pipe with geotextile wrap subgrade drain.
  - 9. Sand fill and Class "B" concrete floor and flow line.
  - 10. Temporary cover over catch basin/inlet to prevent eroded materials from entering.
  - 11. Final casting adjustment.

- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

#### 1.7 CONNECT TO EXISTING STORM SEWER PIPE

- A. The unit price for Connect to Existing Storm Sewer Pipe work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Storm sewer pipe same material strength or better than sewer main. Provide Fernco with stainless steel sheer bands and connection water tight seal.
  - 3. Bends as required in the field.
  - 4. Backfilling and compaction.
  - 5. Modify existing storm sewer manhole opening (where required).
  - 6. Provide concrete around the pipe, gasket, and manhole opening to form a sediment tight seal.
  - 7. Reform flow line in existing storm manhole.
- B. Measurement for payment will be the actual number complete.
- C. The unit of measurement for payment is each.

#### 1.8 STORM SEWER DIG DOWN SPOT REPAIR

- A. The unit price work for Storm Sewer Dig Down Spot Repair work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Excavation.
  - 3. Exposing storm sewer line for repairs.
  - 4. Sawing existing storm sewer.
  - 5. Remove and replace pipe.
  - 6. Connection to existing storm sewer.
  - 7. Repairing offset joints where present.
- B. Measurement for payment will be the actual number completed.
- C. The unit of measurement for payment is each.

#### 1.9 ABANDON/REMOVE STORM SEWER AND APPURTENANCES

- A. The unit price for Abandon/Remove Storm Sewer and Appurtenances work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Excavating
  - 3. Install bulkheads and abandon storm sewer and/or structures.
  - 4. Removing existing storm sewer and/or structures where in conflict with other utilities.
  - 5. Providing and placing flowable fill.

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- 6. Backfilling and compacting.
- 7. Removal and disposal as shown on the Drawings.
- B. Measurement for payment will not be made. This includes all the project area.
- C. The unit of measurement for payment is lump sum.

**END OF SECTION** 

### **Redevelopment Street and Utility Construction**

#### **SECTION 01 22 03**

### **MEASUREMENT AND PAYMENT WATER SYSTEM**

#### PART 1 - GENERAL

#### 1.1 **SUMMARY**

A. Section includes:	<u>Bid Item No.</u>
1. Water Mains (Natural Backfill)	W-01
2. Water Mains (Granular Backfill)	W-02, W-03, W-04, & W-05
3. Water Services	W-06 & W-07
4. Corporation and Curb Stop	W-08 & W-10
5. 2" Corporation with Plug or Saddle and Galvanized Pipe	W-09
6. Valve Cover for Curb Stop in Concrete	W-11
7. Valves	W-12, W-13, W-14, & W-15
8. Connection to Existing Water Mains	W-16
9. Fire Hydrants	W-17 & W-18
10. Hydrant Leads	W-19
11. Water Main Offset	W-20
12. Abandon/Remove Water Main and Appurtenances	W-21

#### B. Unit Prices include:

- 1. Defined work for each Unit Price Item which will provide a functionally complete Project when combined with all unit price items. If there are specific work items which the Contractor believes are not identified in any Unit Price Item, but is required to provide a functionally complete Project, then the identified specific work items shall be included in the appropriate Unit Price Item.
- 2. The method of measurement for payment.
- 3. The price per unit for payment.

#### 1.2 **GENERAL WORK ITEMS**

- A. Include with the appropriate Unit Price Item the following work items which are common to the Unit Price Items for water systems.
- B. If there is a specific Unit Price Item for any of the following items, then the work item shall be included with that specific unit price item.
  - 1. Traffic Control.
  - 2. Sawcutting asphalt and/or concrete.
  - 3. Removal, hauling and disposal of surface materials including road pavement, curb and gutter, sidewalk, driveways and other pavement surfaces in the trench area and as shown on the drawings.
  - 4. Dewatering.

- 5. Excavation.
- 6. Open Trench installation method (unless bid item specifies other method).
- 7. Pipe Bedding.
- 8. Backfilling and compacting native obtained from the excavation.
- 9. Supplying, hauling, backfilling and compacting granular material.
- 10. Loading, hauling and disposing of surplus excavated material.
- 11. Landscaping turf establishment surface restoration and trees and bushes damaged during construction.
- 12. Maintenance, protection, replacement and/or repair of facilities not designated for alteration on the Site beyond the limits identified.
- 13. Site access requirements including temporary aggregate material as required for local traffic access.
- 14. Bulkhead and abandoned existing water main with flowable fill as shown on Drawings.
- 15. If crossing or undermining of existing public or private utility, then include:
  - a. Maintaining the utility in service.
  - b. Replacing of existing utilities, if damaged.
  - c. Providing support and bedding material.
- 16. Dust control.
- 17. Remove and replace existing mailboxes and traffic signs.
- 18. Restroom facilities.
- 19. Easement and right-of-way requirements.
- 20. Construction staking and other survey work not provided by the Engineer.
- 21. Regulatory requirements.
- 22. Preconstruction videotaping and video equipment.
- 23. Quality assurance and quality control testing and inspections.
- 24. Shop drawings and other submittals.

### 1.3 WATER MAINS (NATURAL BACKFILL)

- A. The unit price for Water Main (Natural Backfill) work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Water pipe and fittings of material stated in the Unit Price Bid Schedule and installed using the open trench method.
  - 3. Ductile or cast iron fittings.
  - 4. Tracer wire.
  - 5. Polyethylene encasement of ductile iron or cast iron pipe and fittings.
  - 6. Blocking and joint restraint.
  - 7. Disinfection of pipelines.
- B. Measurement of payment will be the actual horizontal length along the centerline of the installed water main with no deductions for fittings and valves.
- C. The unit of measurement for payment is linear feet.

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# 1.4 WATER MAINS (GRANULAR BACKFILL)

- A. The unit price for Water Main (Granular Backfill) work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Water pipe and fittings of material stated in the Unit Price Bid Schedule and installed using the open trench method.
  - 3. Ductile or cast iron fittings.
  - 4. Tracer wire.
  - 5. Polyethylene encasement of ductile iron or cast iron pipe and fittings.
  - 6. Blocking and joint restraints.
  - 7. Disinfection of pipelines.
- B. Measurement of payment will be the actual horizontal length along the centerline of the installed water main with no deductions for fittings and valves.
- C. The unit of measurement for payment is linear feet.

#### 1.5 WATER SERVICES

- A. The unit price for Water Services work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Pipe and fittings of material stated in the Unit Price Bid Schedule.
  - 3. Tracer wire.
  - 4. Disinfection of pipelines.
  - 5. Install an 8'- 4"x4" board at the end of the lateral.
- B. Measurement of payment will be the actual horizontal length along the centerline of the installed water service with no deductions for fittings and curb stops.
- C. The unit of measurement for payment is linear feet.

#### 1.6 CORPORATION AND CURB STOPS

- A. The unit price for Corporation and Curb Stops work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Supply curb stops and curb boxes.
  - 3. Connection to existing water service (where required).
  - 4. Installation of curb stops and curb boxes.
  - 5. Tracer wire.
- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

#### 1.7 2-INCH CORPORATION WITH PLUG OR SADDLE AND GALVANIZED PIPE

- A. The unit price for 2-Inch Corporation with Plug or Saddle and Galvanized Pipe work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Provide and install 2-inch corporation with plug or saddle (where required) with 2-inch galvanized pipe.
  - 3. Remove 2-inch corporation with plug/saddle and repair water main.
- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

#### 1.8 VALVE COVER FOR CURB STOP IN CONCRETE

- A. The unit price for Valve Cover for Curb Stop in Concrete work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Provide and install valve cover for curb stop in concrete (where required).
- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

#### 1.9 VALVES

- A. The unit price for Valves work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Valve.
  - 3. Valve box.
  - 4. Polyethylene encasement.
  - 5. Stem.
  - 6. Bedding material.
- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

#### 1.10 CONNECTIONS TO EXISTING WATER MAINS

- A. The unit price for Connection to Existing Water Mains work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Locating existing water main.
  - 3. Connection to the end of existing pipe.
    - a. Remove existing plug.
    - b. Direct connection to end of existing pipe.
    - c. Transition fittings, if required.

- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

#### 1.11 FIRE HYDRANTS

- A. The unit price for Fire Hydrants work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Fire hydrant complete of the specified bury depth.
  - 3. Blocking and joint restraints.
  - 4. Hydrant wrenches.
  - 5. Hydrant markers.
  - 6. Polyethylene encasement.
  - 7. Drainage pit.
  - 8. Disinfection of hydrant.
  - 9. Tracer wire.
  - 10. Tracer wire access box.
- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

#### 1.12 HYDRANTS LEADS

- A. The unit price for Hydrants Leads work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Pipe and fittings of material stated in the Unit Price Bid Schedule.
  - 3. Blocking and joint restraints.
  - 4. Tracer wire.
  - 5. Disinfection of pipeline.
- B. Measurement for payment will be the actual horizontal length along the centerline of the installed from the centerline of the water main to the centerline of the hydrant with no deductions for fittings and valves.
- C. The unit of measurement for payment is linear feet.

# 1.13 WATER MAIN OFFSET

- A. The unit price for Water Main Offset work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Ductile iron fittings and PVC pipe.
  - 3. Tracer wire.
  - 4. Polyethylene encasement of ductile iron pipe and fittings.

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- 5. Blocking and joint restraints.
- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

# 1.14 ABANDON / REMOVE WATER MAIN AND APPURTENANCES

- A. The unit price for Abandon/Remove Water Main and Appurtenances work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Excavating
  - 3. Install bulkheads and abandon water line.
  - 4. Removing existing water main where in conflict with other utilities.
  - 5. Providing and placing flowable fill.
  - 6. Backfilling and compacting.
  - 7. Removal and disposal of appurtenances as shown on the Drawings.
- B. Measurement for payment will not be made. This includes all of the project area.
- C. The unit of measurement for payment is lump sum.

**END OF SECTION** 

#### **SECTION 01 22 04**

#### MEASUREMENT AND PAYMENT STREET AND DRAINAGE CONSTRUCTION

PART 1 – GENERAL

#### 1.1 **SUMMARY**

Α.

Section includes:	<u>Bid Item No.</u>
<ol> <li>Clearing and Grubbing</li> </ol>	SD-01
2. Selective Site Demolition	SD-02
3. Remove and Salvage Plantings	SD-03
4. Unclassified Excavation	SD-04
5. Remove Curb and Gutter	SD-05
6. Remove Pavement, Sidewalk, and Driveway	SD-06 & SD-07
7. Crushed Aggregate Base and Surface Course	SD-08
8. Asphaltic Concrete Pavement	SD-09 & SD-10
9. Asphalt Concrete Pavement Patch	SD-11
10. Portland Cement Concrete Curb and Gutter	SD-12 & SD-13
11. Asphaltic Concrete Pavement Curb Head	SD-14
12. Portland Cement Concrete Driveway and Sidewalk	SD-15, SD-16, SD-17, SD-18,
	SD-19, & SD-20
13. Thickened Concrete Edge	SD-21
14. Deformed Reinforcement Bars	SD-22
15. Drilling Tie Bars and Dowel Bars	SD-23
16. Detectable Warning Field Natural	SD-24
17. Pavement Marking Epoxy Lines	SD-25
18. Landscaping – Topsoil, Seed, Fertilize, and Mulch	SD-26

#### B. Unit Prices include:

- 1. Defined work for each Unit Price Item which will provide a functionally complete Project when combined with all unit price items. If there are specific work items which the Contractor believes are not identified in any Unit Price Item, but is required to provide a functionally complete Project, then the identified specific work items shall be included in the appropriate Unit Price Item.
- 2. The method of measurement for payment.
- 3. The price per unit for payment.

#### 1.2 **GENERAL WORK ITEMS**

A. Include with the appropriate Unit Price Item the following work items which are common to the Unit Price Items for street and drainage systems.

- B. If there is a specific Unit Price Item for any of the following items, then the work item shall be included with that specific unit price item.
  - 1. Traffic Control.
  - 2. Sawcutting asphalt and/or concrete.
  - 3. Removal, hauling and disposal of surface materials including road pavement, curb and gutter, sidewalk, driveways and other pavement surfaces in the trench area and as shown on the drawings.
  - 4. Maintenance, protection, replacement and/or repair of facilities not designated for alteration on the Site.
  - 5. Site access requirements including temporary aggregate material as required for local traffic access.
  - 6. Dust control.
  - 7. Remove and replace existing mailboxes and traffic signs.
  - 8. Restroom facilities.
  - 9. Construction staking and other survey work not provided by the Engineer.
  - 10. Regulatory requirements.
  - 11. Quality assurance and quality control testing and inspections.
  - 12. Final casting and valve box adjustment.
  - 13. Shop drawings and other submittals.

#### 1.3 CLEARING AND GRUBBING

- A. The unit price for Clearing and Grubbing work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Cutting and disposing of trees, brush, windfalls, logs and other vegetation.
  - 3. Grinding down of tree stumps to a depth of one (1') foot.
  - 4. Removing and disposing of roots, stumps, stubs, logs, grindings, and other timber.
  - 5. Stripping and stockpiling topsoil.
- B. Measurement for payment will not be made.
- C. The unit of measurement for payment is lump sum.

## 1.4 SELECTIVE SITE DEMOLITION

- A. The unit price for Selective Site Demolition work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Sawcutting, excavation, removal, and disposal of bollards planters, light poles, and light pole bases as shown on the Drawings.
  - 3. Provide and place salvaged backfill or other approved material in all trenches or holes resulting from removal.
  - 4. Abandonment of electrical conduit and wire as shown on the Drawings.
  - 5. Salvaging and safekeeping of light poles and fixtures in a neat pile outside of the construction limits but within the right-of-way at locations as approved by the Engineer.

- 6. Hauling and disposal of all concrete, stone, conduit, bollards, and other materials not designated for salvage in accordance with all regulations regarding solid waste disposal.
- 7. Delivery of salvaged light poles to the City of De Pere Municipal Service Center at 925 S. Sixth Street.
- 8. Eradicating pavement markings where shown on the Drawings.
- B. Measurement for payment will not be made.
- C. The unit of measurement for payment is lump sum.

#### 1.5 REMOVE AND SALVAGE PLANTINGS

- A. The unit price for Remove and Salvage Plantings work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Excavation and removal plantings as shown on the Drawings.
  - 3. Salvaging, storage, and safekeeping of plantings as shown on the Drawings.
  - 4. Delivery of salvaged plantings to a location designated by the Engineer.
- B. Measurement for payment will not be made.
- C. The unit of measurement for payment is lump sum.

#### 1.6 UNCLASSIFIED EXCAVATION

- A. The unit price for Unclassified Excavation work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Removal of topsoil to depth available.
  - 3. Hauling and stockpiling topsoil.
  - 4. Excavation to subgrades shown on the Drawings.
  - 5. Hauling of unclassified material.
  - 6. Placing unclassified material in fill areas to subgrades shown on the Drawings and the subgrade required for placement of topsoil.
  - 7. Compaction of subgrade and fill areas.
  - 8. Test rolling subgrade.
  - 9. Excavation of undercut areas for placing topsoil.
  - 10. Respreading topsoil to final grades shown on the Drawings.
  - 11. Disposal of surplus topsoil, unclassified material and unsuitable material.
  - 12. Preparation of disposal site and transportation of material over an Engineer approved haul route from the site including all loading and dumping of material.
  - 13. Finish grading.
- B. Measurement of payment will not be made unless there is a change in project scope. The estimated quantity represents the computed volume by comparing the triangulated surfaces and will be the basis for payment.

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C. The unit of measurement for payment is cubic yards.

#### 1.7 REMOVE CURB AND GUTTER

- A. The unit price for Remove Curb and Gutter work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Removal of concrete curb and gutter as shown on the Drawings.
  - 3. Sawcutting.
  - 4. Breaking of curb and gutter.
  - 5. Hauling and disposal of removed concrete material.
- B. Measurement for payment will be along the flow line of the removed gutter and through inlets/catch basins.
- C. The unit of measurement for payment is linear feet.

#### 1.8 REMOVE PAVEMENT, SIDEWALK, AND DRIVEWAY

- A. The unit price for Remove pavement, sidewalk, and driveway work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Removal of asphaltic concrete pavement, concrete sidewalk and concrete driveways as shown on the Drawings.
  - 3. Sawcutting.
  - 4. Breaking of existing pavements sidewalks and driveways.
  - 5. Hauling and disposal of removed asphaltic concrete and concrete material.
- B. Measurement for payment will be the average horizontal length and width of pavement, sidewalk or driveway removed.
  - Only the asphaltic concrete pavement removals shown on sheet G004 at the intersections of N. Wisconsin Street at William Street and N. Michigan Street at William Street will be paid under this item. Asphaltic concrete pavement and concrete sidewalk removals taking place within the excavation areas shown on the Drawings will be paid for under the Unclassified Excavation item as these areas are to be excavated in preparation for the installation of new crushed aggregate base course.
- C. The unit of measurement for payment is square yards.

## 1.9 CRUSHED AGGREGATE BASE AND SURFACE COURSE

- A. The unit price for Crushed Aggregate Base and Surface Course work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Aggregate material.
  - 3. Preparation of foundation.

- 4. Placing and compacting to thickness and width shown on the Drawings or specified elsewhere.
- 5. Maintenance until surface pavement is constructed.
- 6. Preparation of crushed aggregate base for paving.
- 7. Adjustment of manholes and valve boxes to proposed finish road grade.
- B. Measurement of payment will be:
  - 1. Width:
    - a. The width will not be greater than the maximum trench width at the surface which is greater of the pipe outside diameter plus twenty-four (24) inches or the distance from the surface to the top of the pipe embedment; or
    - b. If the surface removal and the replacement limits are shown on the drawings outside the maximum trench width, then the actual average width of the area will be measured.
  - 2. The depth will be the actual measured depth not to exceed the depth shown on the drawings or specified elsewhere.
  - 3. The length will be the actual length measured longitudinally along the installed facility.
- C. The unit of measurement for payment is square yards.

#### 1.10 ASPHALTIC CONCRETE PAVEMENT

- A. The unit price for Asphaltic Concrete Pavement work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Asphaltic concrete mixture, tack coat and other required materials
  - 3. Surface preparation.
  - 4. Provide tack coat on base material.
  - 5. Saw cutting and/or mill adjacent and abutting pavement surfaces.
  - 6. Asphaltic concrete placement and compaction to thickness and width shown on the drawings or specified elsewhere.
  - 7. Tack coat between asphaltic concrete courses and abutting pavements.
- B. Measurement for payment will be the actual amount of material required and incorporated in the work verified by submitting to the Engineer delivery tickets provided with each load showing the weight measured on a certified scale, type of material, the date delivered and the project name.
- C. The Unit Price shall be adjusted for deficiencies for less than minimum density represented by the average lot density of five nuclear density tests of 750 tons of asphaltic concrete placed as shown in the following table:

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Density Deficiency-Percent of Unit Price for Payment

	, , , , , , , , , , , , , , , , , , ,
%Lot Density Below	
Specified Minimum	WisDOT Mixes
From 0.5-1.0 inclusive	98%
From 1.1-1.5 inclusive	95%
From 1.6-2.0 inclusive	91%
From 2.1-2.5 inclusive	85%
From 2.6-3.0 inclusive	70%
More than 3.0	0%

D. The unit of measurement for payment is tons.

#### 1.11 ASPHALTIC CONCRETE PAVEMENT PATCH

- A. The unit price for Asphaltic Concrete Pavement Patch work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Sawcutting.
  - 3. Removal of asphalt.
  - 4. Asphaltic concrete mixture, tack coat and other required materials.
  - 5. Surface preparation.
  - 6. Grading subgrade.
  - 7. Asphaltic concrete placement and compaction to thickness matching surrounding pavements.
  - 8. Tack coat between asphaltic courses and abutting pavement.
- B. Measurement for payment will be the average horizontal length and width of roadway patched.
- C. The unit of measurement for payment is square yards.

#### 1.12 PORTLAND CEMENT CONCRETE CURB AND GUTTER

- A. The unit price for Portland Cement Concrete Curb and Gutter work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing Portland cement concrete mixture of size shown in the drawings or specified elsewhere.
  - 3. Providing expansion joints.
  - 4. Providing curing.
  - 5. Subgrade preparation.
  - 6. Provide crushed aggregate base.
  - 7. Fine grading of subgrade.
  - 8. Providing contraction joints.
  - 9. Driveway entrances and handicap ramp entrances.
  - 10. Adjustment of catch basin/inlets.
  - 11. Finishing.

- 12. Protection.
- 13. Restoration behind the curb.
- B. Measurement for payment will be along the flow line of the gutter and through inlets/catch basins.
- C. The unit of measurement for payment is linear feet.

#### 1.13 ASPHALTIC CONCRETE PAVEMENT CURB HEAD

- A. The unit price for Asphaltic Concrete Pavement Curb Head work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing asphaltic concrete mixture matching abutting asphaltic concrete patch in the drawings or specified elsewhere.
  - 3. Subgrade preparation.
  - 4. Provide crushed aggregate base.
  - 5. Fine grading of subgrade.
  - 6. Adjustment of catch basin/inlets.
  - 7. Finishing.
  - 8. Protection.
  - 9. Restoration behind the curb.
- B. Measurement for payment will be along the flow line of the gutter and through inlets/catch basins.
- C. The unit of measurement for payment is linear feet.

#### 1.14 PORTLAND CEMENT CONCRETE DRIVEWAY AND SIDEWALK

- A. The unit price for Portland Cement Concrete Sidewalk and Driveway work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing Portland cement concrete mixture of thickness shown in the drawings or specified elsewhere.
  - 3. Providing reinforcement.
  - 4. Providing expansion joint.
  - 5. Providing curing.
  - 6. Existing pavement removal.
  - 7. Subgrade preparation.
  - 8. Providing contraction joints.
  - 9. Handicap ramps.
  - 10. Sidewalk steps.
  - 11. Saw cutting adjacent surfaces.
  - 12. Finishing.
  - 13. Protection.

- 14. Restoration.
- B. Measurement for payment will be the average horizontal length and width of the concrete placed.
- C. The unit of measurement for payment is square yards.

#### 1.15 THICKENED CONCRETE EDGE

- A. The unit price for Thickened Concrete Edge work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Furnish all labor, tools, equipment, and services.
  - 3. Providing Portland cement concrete mixture of thickness shown in the drawings or specified elsewhere.
  - 4. Surface preparation.
  - 5. Providing reinforcement including tie bars and dowel bars.
  - 6. Joint sealing.
  - 7. Providing curing.
  - 8. Concrete sealing with linseed oil.
  - 9. Fine grading of subgrade.
  - 10. Providing expansion joints and contraction joints.
  - 11. Adjustment of tree grates to finish grade.
  - 12. Finishing.
  - 13. Protection.
- B. Measurement for payment will be along the outside edge of the thickened concrete.
- C. The unit of measurement for payment is linear feet.

#### 1.16 DEFORMED REINFORCEMENT BARS

- A. The unit price for Deformed Reinforcement Bars work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Supply and install two #4 deformed reinforcement bars over all trenches that fall under any portion of the concrete curb and gutter, sidewalk, and driveway being constructed.
- B. Measurement for payment will be the horizontal length of each bar installed.
  - 1. This item applies to concrete curb and gutter, sidewalk, and driveway.
  - 2. This item does not apply to concrete pavement and patches.
- C. The unit of measurement for payment is linear feet.

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#### 1.17 DRILLING TIE BARS

- A. The unit price for Drilling Tie Bars work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing and installing tie bars, including coating.
  - 3. For drilling holes in concrete not placed under the contract.
  - 4. For epoxying or driving.
- B. Measurement for payment will be the actual number of bars installed.
  - 1. This item applies to concrete curb and gutter, sidewalk, and driveway.
  - 2. This item does not apply to concrete pavement and patches.
- C. The unit of measurement for payment is each.

#### 1.18 DETECTABLE WARNING FIELD NATURAL

- A. The unit price for Detectable Warning Field Natural work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing and installing Detectable Warning Field per ADA requirements.
  - 3. Each detectable warning field shall be two (2) feet by five (5) feet.
- B. Measurement for payment will be the actual number of detectable warning field installed.
- C. The unit of measurement for payment is each.

#### 1.19 PAVEMENT MARKING EPOXY LINES

- A. The unit price for Pavement Marking Epoxy Lines includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing and installing the Pavement Marking Epoxy Lines includes preparing the surface, including brush-off blasting of concrete, for providing all marking, including reflectorization with glass beads, for protecting marking until dry or cured, and for replacing marking improperly constructed or that fails during the warranty period.
  - 3. For remarking if initially applies at less than 90% of the specified rate.
- B. Measurement for payment will be by the linear foot, calculated as follows:
  - 1. For solid lines; by adding the linear feet of solid line measured end to end.
  - 2. For intermittent lines; by multiplying the specified length of the individual marking of the line by the number of markings in the intermittent line end to end.
- C. The unit of measurement for payment is linear feet.

## 1.20 LANDSCAPING- TOPSOIL, SEED, FERTILIZE AND MULCH

A. The unit price for Landscaping-Topsoil, Seed, Fertilize, and Mulch work includes:

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- 1. General Work Items of Article 1.2.
- 2. Provide 4" topsoil or salvaged topsoil.
- 3. Provide seed.
- 4. Provide fertilizer.
- 5. Provide mulch.
- 6. Provide maintenance.
- B. Measurement for payment will be the width and length of areas with landscape restoration as designated on the drawings.
- C. The unit of measurement for payment is square yard.

**END OF SECTION** 

#### **SECTION 01 22 05**

#### MEASUREMENT AND PAYMENT SPECIAL CONSTRUCTION

PART 1 - GENERAL

#### 1.1 SUMMARY

Α.

Section includes:	<u>Bid Item No.</u>
1. Pipe Foundation Stabilization	SC-01
2. Bollards	SC-02
3. Inlet Protection Erosion Control	SC-03
4. Adjusting Existing Structure Frame and Casting	SC-04, SC-05, & SC-06
5. Polystyrene Insulation Board	SC-07
6. Stop Sign Assembly	SC-08
7. Tree Grates	SC-09 & SC-10
8. Tree Plantings	SC-11, SC-12, & SC-13
9. Traffic Control	SC-14 & SC-15

#### B. Unit Prices include:

- Defined work for each Unit Price Item which will provide a functionally complete Project
  when combined with all unit price items. If there are specific work items which the
  Contractor believes are not identified in any Unit Price Item, but is required to provide a
  functionally complete Project, then the identified specific work items shall be included in the
  appropriate Unit Price Item.
- 2. The method of measurement for payment.
- 3. The price per unit for payment.

#### 1.2 GENERAL WORK ITEMS

- A. Include with the appropriate Unit Price Item the following work items which are common to the Unit Price Items for special construction.
- B. If there is a specific Unit Price Item for any of the following items, then the work item shall be included with that specific unit price item.
  - 1. Traffic Control.
  - 2. Loading, hauling and disposing of surplus material.
  - 3. Maintenance, protection, replacement and/or repair of facilities not designated for alteration on the Site beyond the limits identified.
  - 4. Dust control.
  - 5. Restroom facilities.
  - 6. Construction staking and other survey work not provided by the Engineer.
  - 7. Regulatory requirements.
  - 8. Quality assurance and quality control testing and inspections.

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9. Shop drawings and other submittals.

#### 1.3 PIPE FOUNDATION STABILIZATION

- A. The unit price for Pipe Foundation Stabilization work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Excavation below the limits of the pipe bedding with the bottom of the excavation wider than the top with 1:1 side slopes.
  - 3. Dewatering.
  - 4. Soil Class A-7 or A-8 aggregate material.
  - 5. Loading, hauling and disposing of surplus excavated material.
- B. Measurement of payment will be the volume calculated based on:
  - 1. The actual depth from four (4) inches below the bottom of pipe to the bottom of the aggregate material placed.
  - 2. The bottom width is the actual width not to exceed the pipe outside diameter plus twenty-four (24) inches plus1:1 side slopes.
  - 3. The top width is the pipe outside diameter plus twenty-four (24) inches.
- C. The unit of measurement for payment is cubic yards.

#### 1.4 BOLLARDS

- A. The unit price for Bollards work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing any granular backfill for any voids created.
  - 3. Providing 4" diameter, 36" high carbon steel bollard powder coated yellow.
  - 4. Providing and installing all reflective signs as shown in the Drawings.
  - 5. Excavation for bollard installation.
  - 6. Provide concrete footing and encasement.
- B. Measurement for payment will be actual number bollards installed.
- C. The unit of measurement for payment is each.

#### 1.5 INLET PROTECTION EROSION CONTROL

- A. The unit price for Inlet Protection Erosion Control work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Provide geotextile and wood materials for type shown on the Drawings.
  - 3. Placing inlet protection system.
  - 4. Inspection and maintenance of the installed inlet protection.
  - 5. Removal of the inlet protection.
  - 6. Cleaning debris buildup around inlet.

- B. Measurement for payment will be actual number of inlet protection erosion control installed.
- C. The unit of measurement for payment is each.

# 1.6 ADJUST EXISTING STRUCTURE FRAME CASTING

- A. The unit price for Adjusting Existing Structure Frame Casting work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing and installing castings as directed in the Drawings and City of De Pere Standard Specifications.
  - 3. Removal of the casting and existing adjusting rings from the structure as required.
  - 4. Providing concrete adjusting rings and a 2 inch rubber riser ring from the WisDOT approved product list.
  - 5. Bituminous plastic cement sealing the exterior of the adjusting rings and casting.
  - 6. The ring will be secured to the precast section with a 3 ½ inch wide Kent Seal or equal.
  - 7. Above the concrete ring attach  $\frac{1}{4}$  inch thru 3 inch thick ring using two  $\frac{5}{16}$  inch bead above and below the ring of sealant type as recommended by the rubber manufacturer.
  - 8. Initial and final adjustment.
  - 9. Backfilling and compacting.
- B. Measurement for payment will be the actual number of structure frame casting adjusted.
- C. The unit of measurement for payment is each.

## 1.7 POLYSTYRENE INSULATION BOARD

- A. The unit price for Polystyrene Insulation Board work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Supply and install a 2-inch thick insulation per the Standard Specifications along the top of the water main and/or service and 6-inches above the water main and/or service with pipe bedding in between the polystyrene board and pipe.
- B. Measurement for payment will be the horizontal length installed.
- C. The unit of measurement for payment is linear feet.

# 1.8 STOP SIGN ASSEMBLY

- A. The unit price for Stop Sign Assembly work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing and installing stop sign, pole, pole base, sign mounts, and post anchor into concrete per manufacturer's recommendations as shown on the Drawings.
  - 3. Stop sign assembly shall be supplied by TAPCO or approved equal.

- B. Measurement for payment will be the actual number of stop sign assemblies installed.
- C. The unit of measurement for payment is each.

# 1.9 TREE GRATES

- A. The unit price for Tree Grates work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing and installing tree grates into concrete per manufacturer's recommendations as shown on the Drawings.
  - 3. Tree Grates shall be supplied by East Jordan Ironworks or approved equal.
- B. Measurement for payment will be the actual number of tree grates installed.
- C. The unit of measurement for payment is each.

## 1.10 TREE PLANTINGS

- A. The unit price for Tree Plantings work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Excavation.
  - 3. Soil amenities.
  - 4. Providing, hauling, excavating, and placement of identified tree types as detailed in the plans.
  - 5. Provide and installing perennial plants as shown in the Drawings and complying with American Standard for Nursery Stock (ANSI Z60.1-2004) for type, shape and height (if applicable).
  - 6. Staking out location of the plantings for approval.
  - 7. Clean up of planting areas, and all incidental work related to tree installation not specifically included with other items.
  - 8. Watering trimming and fertilizing.
- B. Measurement for payment will be the actual number of trees planted.
- C. The unit of measurement for payment is each.

# 1.11 TRAFFIC CONTROL

- A. The unit price for Traffic Control work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing, installing, maintain, and removing the Traffic Control signing and barricades as shown on the plans and per the MUTCD.
  - 3. Traffic Detour, including covering signs when not in use.
  - 4. Flaggers per the MUTCD.

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- 5. Temporary traffic control signals (activated) per the MUTCD.
- 6. Sidewalk closure.
- B. Measurement for payment will not be made.
  - 1. This item applies to the specific bid items lists. All other traffic control is incidental to other items bid.
- C. The unit of measurement for payment is for each intersection lump sum.

**END OF SECTION** 

#### **SECTION 01 22 10**

## **MEASUREMENT AND PAYMENT ELECTRICAL**

PART 1 - GENERAL

## 1.1 SUMMARY

Α.

Section includes:	<u>Bid Item No.</u>
1. Conduit	E-01
2. Pull Box	E-02
3. Concrete Bases	E-03
4. Poles Type 5-Aluminum Anodized Black	E-04
5. Decorative Poles	E-05
6. Luminaire Arms	E-06
7. Luminaire	E-07 & E-08
8. Electrical Wire	E-09 & E-10
9. Relocate Existing Pull Box	E-11
10. Rewire Existing Light Pole	E-12

#### B. Unit Prices include:

- Defined work for each Unit Price Item which will provide a functionally complete Project
  when combined with all unit price items. If there are specific work items which the
  Contractor believes are not identified in any Unit Price Item, but is required to provide a
  functionally complete Project, then the identified specific work items shall be included in the
  appropriate Unit Price Item.
- 2. The method of measurement for payment.
- 3. The price per unit for payment.

## 1.2 GENERAL WORK ITEMS

- A. Include with the appropriate Unit Price Item the following work items which are common to the Unit Price Items for electric and lighting systems.
- B. If there is a specific Unit Price Item for any of the following items, then the work item shall be included with that specific unit price item.
  - 1. Traffic Control.
  - 2. Sawcutting asphalt and/or concrete.
  - 3. Removal, hauling and disposal of surface materials including road pavement, curb and gutter, sidewalk, driveways and other pavement surfaces in the trench area and as shown on the drawings.
  - 4. Excavation/plowing
  - 5. Backfilling and compacting native obtained from the excavation.
  - 6. Supplying, hauling, backfilling and compacting granular material.

- 7. Loading, hauling and disposing of surplus excavated material.
- 8. Landscaping turf establishment surface restoration and trees and bushes damaged during construction.
- 9. Maintenance, protection, replacement and/or repair of facilities not designated for alteration on the Site beyond the limits identified.
- 10. Restroom facilities.
- 11. Easement and right-of-way requirements.
- 12. Construction staking and other survey work not provided by the Engineer.
- 13. Regulatory requirements.
- 14. Preconstruction videotaping and video equipment.
- 15. Quality assurance and quality control testing and inspections.
- 16. Shop drawings and other submittals.

# 1.3 CONDUIT

- A. The unit price for Electrical Wire includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing and installing conduit for electrical wire.
  - 3. For providing all connectors.
- B. Measurement for payment will be by the length of conduit installed and through pull boxes and bases.
- C. The unit of measurement for payment is linear feet.

# 1.4 PULL BOXES

- A. The unit price for Pull Boxes includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing and installing all materials including drain piping components and aggregate.
  - 3. For providing and installing manhole frames and covers.
  - 4. For all pull box extensions and conduit extensions less than 10 feet long including fittings.
  - 5. For excavating, backfilling, and disposing of surplus materials, and for restoring the site.
- B. Measurement for payment will be as each individual box.
- C. The unit of measurement for payment is by each.

### 1.5 CONCRETE BASES

- A. The unit price for Concrete Bases includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing, installing, and protecting the concrete base.
  - 3. For embedded conduit and electrical components.

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- 4. For furnishing and installing anchor rods, nuts, washers, ground electrodes, connections, conduit and fittings.
- 5. For bar steel reinforcement.
- 6. For excavating, backfilling, and disposing of surplus materials, and restoring the site.
- B. Measurement for payment will be as each individual base.
- C. The unit of measurement for payment is by each.

## 1.6 POLES, TYPE 5-ALUMINUM, ANODIXED BLACK

- A. The unit price for Poles, Type 5-Aluminum, Anodized Black includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing and installing poles including grounding lugs and related mounting hardware.
  - 3. For hardware and fitting necessary to install the poles.
  - 4. For leveling shims, dampeners, and for corrosion protection.
- B. Measurement for payment will be as each individual pole.
- C. The unit of measurement for payment is by each.

# 1.7 POLES, DECORATIVE

- A. The unit price for Poles, Decorative includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing and installing Spring City Hancock with Ladder Rest, 9'-2" lamp post poles including grounding lugs and related mounting hardware.
  - 3. For hardware and fitting necessary to install the poles.
  - 4. For leveling shims, dampeners, and for corrosion protection.
- B. Measurement for payment will be as each individual pole.
- C. The unit of measurement for payment is by each.

# 1.8 LUMINAIRE ARM, ANODIZED BLACK

- A. The unit price for Luminaire Arm, Anodized Black includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing and installing the arm including related mounting hardware and shims.
- B. Measurement for payment will be as each individual arm.
- C. The unit of measurement for payment is by each.

# 1.9 LUMINAIRE

- A. The unit price for Luminaire work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Furnishing and installing all materials, including a 250 watt equivalent LED luminaire with shorting cap, accessories, hardware, and fittings necessary to install the luminaire in workable first class condition for Type 5 pole.
  - 3. Furnishing and installing all materials, including 100 watt equivalent LED luminaire for the Spring City lights for the plans.
  - 4. Providing photometric point-by-point analysis drawings based on the spacing found on the plans using 0.75 as a combined depreciation factor.
  - 5. Provide a minimum warranty of 10 years from the date of installation.
- B. Measurement of payment will be as each individual lighting unit.
- C. The unit of measurement for payment is each.

## 1.10 ELECTRICAL WIRE LIGHTING

- A. The unit price for Electrical Wire Lighting includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing and installing the electrical wire and for making all connections.
  - 3. For providing all connectors, including wire nuts, fuses, fuse holders, splices, tape, insulating varnish or sealant, and for testing circuits.
  - 4. Verify all voltages drops does not exceed 3% and make sure connections meet local, state, and federal codes.
  - 5. Underground wiring shall be sized per load and code requirements.
- B. Measurement for payment will be by the linear foot, measured separately for each conductor.
- C. The unit of measurement for payment is linear feet.

## 1.11 RELOCATE EXISTING PULL BOXES

- A. The unit price for Relocate Existing Pull Boxes includes:
  - 1. General Work Items of Article 1.2.
  - 2. Excavating and removing existing pull box for relocation and adjustment.
  - 3. Providing and installing all materials including drain piping components and aggregate.
  - 4. Salvaging and reinstalling pull box frames and covers.
  - 5. For all pull box extensions and conduit extensions less than 10 feet long including fittings.
  - 6. For excavating, backfilling, and disposing of surplus materials, and for restoring the site.
- B. Measurement for payment will be as each individual box relocated or adjusted.

C. The unit of measurement for payment is by each.

## 1.12 REWIRE EXISTING LIGHT POLE

- A. The unit price for Pull Boxes includes:
  - 1. General Work Items of Article 1.2.
  - 2. Providing and installing electrical wire for making all connections.
  - 3. Providing connectors, including wire nuts, fuses, fuse holders, splices, tape, insulating varnish or sealant, and for testing circuits.
  - 4. Verify all voltage drops do not exceed 3% and make sure connections meet local, state, and federal codes.
- B. Measurement for payment will be for each light pole rewired.
- C. The unit of measurement for payment is by each.

**END OF SECTION** 

#### **SECTION 01 29 00**

#### **PAYMENT PROCEDURES**

PART 1 - GENERAL

#### 1.1 SUMMARY

## A. This section includes:

1. Administrative and procedural requirements necessary to prepare and process Applications for Payment.

# 1.2 SCHEDULE OF VALUES

A. Unit Price work will be the Schedule of Values used as the basis for reviewing Applications for Payment.

## 1.3 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment shall be consistent with previous applications and payments as recommended by the Engineer and approved by Owner.
- B. The date for each progress payment should be the 3<sup>rd</sup> Wednesday of each month. The period covered by each Application for Payment starts on the day following the end of the preceding period and ends the 4<sup>th</sup> Friday of the Month.
- C. Use forms provided by Engineer for Applications for Payment. Sample copy of the Application for Payment and Continuation Sheet is included in Section 00 62 76.

# D. Application Preparation Procedures

- 1. When requested by the Contractor, the Engineer will determine the actual quantities and classifications of Unit Price Work performed.
  - a. Preliminary determinations will be reviewed with the Contractor before completing Application for Payment.
  - b. Engineer will complete the Application for Payment based on Engineer's decision on actual quantities and classifications.
  - c. Engineer will submit three original copies of Application for Payment to Contractor for certification of all three original copies.
  - d. Contractor shall submit signed Application for Payment to Owner for approval within time frame agreed to at the Preconstruction Conference.
- 2. If payment is requested for materials and equipment not incorporated in the Work, then the following shall be submitted with the Application for Payment:
  - a. Evidence that materials and equipment are suitably stored at the site or at another location agreed to in writing.

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b. A bill of sale, invoice, or other documentation warranting that the materials and equipment are free and clear of all liens.

- c. Evidence that the materials and equipment are covered by property insurance.
- 3. Complete every entry on form. Execute by a person authorized to sign legal documents on behalf of Contractor.
- E. With each Application for Payment, submit waivers of liens from subcontractors and suppliers for the construction period covered by the previous application.
  - 1. Submit partial waivers on each item for amount requested before deduction for retainage on each item.
  - 2. When an application shows completion for an item, submit final or full waivers.
  - 3. Owner reserves the right to designate which entities involved in the Work shall submit waivers.
  - 4. Submit final Application for Payment with or preceded by final waivers from every entity involved with performance of the Work covered by the application.
  - 5. Submit waivers of lien on forms executed in a manner acceptable to Owner.
- F. The following administrative actions and submittals shall precede or coincide with submittal of first Application for Payment:
  - 1. List of subcontractors.
  - 2. Schedule of Values (For Lump Sum Work).
  - 3. Contractor's construction schedule.
- G. Submit final Application for Payment with releases and supporting documentation not previously submitted and accepted including, but not limited, to the following:
  - 1. Evidence of completion of Project closeout requirements.
  - 2. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
  - 3. Updated final statement, accounting for final changes to the Contract Sum.
  - 4. Consent of Surety to Final Payment.
  - 5. Final lien waivers as evidence that claims have been settled.
  - 6. Final liquidated damages settlement statement.

PART 2 - PRODUCTS

PART 3 - EXECUTION

**END OF SECTION** 

8/8/2025 01 29 00-2 Payment Procedures

#### **SECTION 01 32 33**

#### CONSTRUCTION PHOTOGRAPHS

PART 1 - GENERAL

## 1.1 SUMMARY

- A. Section Includes:
  - 1. Photographs for utility construction sites.

## 1.2 SUBMITTALS

A. Submit electronic files of each photographic view within seven (7) days of taking photographs.

# 1.3 QUALITY ASSURANCE

A. Photographs are to be submitted to the Engineer for approval prior to the start of construction.

PART 2 - PRODUCTS

PART 3 - EXECUTION

## 3.1 UTILITY AND STREET CONSTRUCTION SITES

- A. Prior to start of construction provide sufficient photographs to adequately show the existing facilities and conditions within and adjacent to the construction Site to serve as a guide for final restoration including:
  - 1. Roads including shoulders and/or curb and gutter.
  - 2. Sidewalks, parking areas, and driveways.
  - 3. Utility structures.
  - 4. Landscaping including signs, plantings, walls, fences, trees, shrubbery, etc.
  - 5. Mailboxes.
  - 6. Drainage facilities including culverts, inlets, ditches.
  - 7. Building structures.
- B. During construction provide sufficient photographs (a minimum of one per 100 feet of installed utility) to adequately show construction means, methods, and Site conditions including:
  - 1. Crossings of other utilities.
  - 2. Exposure of existing structures.
  - 3. Soil conditions.

#### **END OF SECTION**

8/8/2025 01 32 33-1 Construction Photographs

#### **SECTION 01 33 00**

## **SUBMITTALS**

PART 1 - GENERAL

## 1.1 SUMMARY

- A. Section includes administrative and procedural requirements for submittals:
  - 1. Progress Schedule.
  - 2. Schedule of Shop Drawings and Sample Submittals.
  - 3. Shop Drawings.
- B. Failure to meet Submittal requirements to the satisfaction of the Engineer will constitute unsatisfactory performance of the work in accordance with the Contract Documents, therefore, the Engineer may recommend to the Owner that all or a portion of payments requested during the corresponding pay period be withheld until these requirements are met.

### 1.2 SUBMITTAL PROCEDURES

- A. Coordination: Transmit each submittal sufficiently in advance of performance of related construction activities to avoid delay.
  - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
  - 2. Coordinate transmittal of different types of submittals for related elements of the work so processing will not be delayed by the need to review submittals concurrently for coordination.
    - a. The Engineer reserves the right to withhold action on a submittal requiring coordination with other submittals until all related submittals are received.
  - 3. To avoid the need to delay installation as a result of the time required to process submittals, allow sufficient time for submittal review, including time for re-submittals.
    - a. Allow two weeks for initial submittal.
    - b. Allow two weeks for reprocessing each submittal.
    - c. No extension of Contract Time will be authorized because of failure to transmit submittals to the Engineer sufficiently in advance of the work to permit processing.
- B. Submittal Preparation: Place a permanent label or title block on each submittal for identification. Indicate the name of the entity that prepared each submittal on the label or title block.
  - 1. Assign a reference number to each submittal and re-submittal.
  - 2. Provide a space approximately four (4) by five (5) inches (100 by 125 mm) on the label or beside the title block on Shop Drawings to record the Contractor's review and approval markings and the action taken.
  - 3. Include the following information on the label for processing and recording action taken.

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- a. Project name.
- b. Date.
- c. Name and address of the Engineer.
- d. Name and address of the Contractor.
- e. Name and address of the subcontractor.
- f. Name and address of the supplier.
- g. Name of the manufacturer.
- h. Number and title of appropriate Specification Section.
- i. Drawing number and detail references, as appropriate.
- 4. Each submittal shall be stamped by the Contractor indicating that submittal was reviewed for conformance with the Contract Documents. The Engineer will not accept unstamped submittals.
- C. Submittal Transmittal: Package each submittal appropriately for transmittal and handling.

  Transmit each submittal to the Engineer. The Engineer will not accept submittals received from sources other than the Contractor.
  - On the transmittal, record relevant information and requests for Engineer action. On a form, or separate sheet, record deviations from Contract Document requirements, including variations, limitations, and justifications. Include Contractor's certification that information complies with Contract Document requirements.

# 1.3 CONTRACTOR'S PROGRESS SCHEDULE

- A. Prepare and submit to the Engineer within 10 (ten) days after the Effective Date of the Agreement, four copies of a preliminary progress schedule of the work activities from Notice to Proceed until Substantial Completion.
  - Provide sufficient detail of the work activities comprising the schedule to assure adequate
    planning and execution of the work, such that in the judgment of the Engineer, it provides an
    appropriate basis for monitoring and evaluation of the progress of the work. A work activity
    is defined as an activity which requires substantial time and resources (manpower,
    equipment, and/or material) to complete and must be performed before the contract is
    considered complete.
  - 2. The schedule shall indicate the sequence of work activities. Identify each activity with a description, start date, completion date and duration. Include, but do not limit to the following items, as appropriate to this contract:
    - a. Shop drawing review by the Engineer.
    - b. Excavation and grading.
    - c. Asphalt and concrete placement sequence.
    - d. Restoration.
    - e. Construction of various segments of utilities.
    - f. Subcontractor's items of work.
    - g. Allowance for inclement weather.
    - h. Contract interfaces, date of Substantial Completion.
    - i. Interfacing and sequencing with existing facilities and utilities.

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- j. Sequencing of major construction activities.
- k. Milestones and completion dates.
- B. Distribution: Following response to the initial submittal, print and distribute copies of the revised construction schedule to the Engineer, Subcontractors, and other parties required to comply with scheduled dates. When revisions are made, distribute to the same parties. Delete parties from distribution when they have completed their assigned portion of the work and are no longer involved in construction activities.
- C. Schedule Updating: Revise the schedule after each meeting, event, or activity where revisions have been recognized or made. Issue the updated schedule concurrently with the report of each meeting.
- D. Punch List: Prepare and submit to the Engineer within ten (10) days after substantial completion a detailed progress schedule for outstanding work and punch list items.

## 1.4 SCHEDULE OF SHOP DRAWINGS AND SAMPLE SUBMITTALS

- A. Submit electronic or one (1) hard copy of preliminary submittal schedule in accordance with the General Conditions of the Contract and as follows:
  - 1. Coordinate submittal schedule with the subcontractors, Schedule of Values, and of products as well as the Contractor's Progress Schedule.
  - 2. Prepare the schedule in chronological order. Provide the following information:
    - a. Scheduled date for the first submittal.
    - b. Related Section number.
    - c. Submittal category (Shop Drawings, Product Data, or Samples).
    - d. Name of the subcontractor.
    - e. Description of the part of the work covered.
    - f. Scheduled date for the Engineer's final release or approval.
- B. Distribution: Following response to the initial submittal, print and distribute copies of the revised construction schedule to the Engineer, Subcontractors, and other parties required to comply with scheduled dates. Post copies in the field office. When revisions are made, distribute to the same parties. Delete parties from distribution when they have completed their assigned portion of the work and are no longer involved in construction activities.
- C. Schedule Updating: Revise the schedule after each meeting or activity where revisions have been recognized or made. Issue the updated schedule concurrently with the report of each meeting.

## 1.5 SHOP DRAWINGS

A. Submit newly prepared information drawn accurately to scale. Highlight, encircle, or otherwise indicate deviations from the Contract Documents. Do not reproduce Contract Documents or

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copy standard information as the basis of Shop Drawings. Standard information prepared without specific reference to the Project is not a Shop Drawing.

- B. Collect product data into a single submittal for each element of construction of system. Product data includes printed information, such as manufacturer's installation instructions, catalog cuts, standard color charts, roughing-in diagrams and templates, standard wiring diagrams, and performance curves.
  - 1. Mark each copy to show actual product to be provided. Where printed Product Data includes information on several products that are not required, mark copies to indicate the applicable information. Include the following information:
    - a. Manufacturer's printed recommendations.
    - b. Compliance with trade association standards.
    - c. Compliance with recognized testing agency standards.
    - d. Application of testing agency labels and seals.
    - e. Notation of dimensions verified by field measurement.
    - f. Notation of coordination requirements.
- C. Do not use shop drawings without an appropriate final stamp indicating action taken.
- D. Submittals: Submit electronic or one (1) hard copy of each required submittal. The Engineer will scan and return the submittal to the Contractor marked with action taken and corrections or modifications required.
- E. Distribution: Furnish copies of reviewed submittal to installers, subcontractors, suppliers, manufacturers, fabricators, and others required for performance of construction activities. Show distribution on transmittal forms. Maintain one copy at the project site for reference.
  - 1. Do not proceed with installation until a copy of the Shop drawing is in the Installer's possession.
  - 2. Do not permit use of unmarked copies of the Shop Drawing in connection with construction.

# 1.6 ENGINEER'S ACTION

- A. Except for submittals for the record or information, where action and return is required, the Engineer will review each submittal, mark to indicate action taken, and return promptly. The Engineer will stamp each submittal with a uniform action stamp. The Engineer will mark the stamp appropriately to indicate the action taken, as follows:
  - "No Exceptions Taken": The work covered by the submittal may proceed provided it complies with notations or corrections on the submittal and requirements of the Contract Documents.
  - 2. "Make Corrections Noted": The work covered by the submittal may proceed provided it complies with notations or corrections on the submittal and requirements of the Contract Documents.

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3. "Amend and Resubmit": Do not proceed with work covered by the submittal. Resubmit without delay. Do not use, or allow others to use, submittals marked "Amend and Resubmit" at the Project Site or elsewhere where work is in progress.

- 4. "Rejected See Remarks": Do not proceed with work covered by the submittal. Resubmit without delay. Do not use, or allow others to use, submittals marked "Rejected and Resubmit" at the Project Site or elsewhere where work is in progress.
- B. Unsolicited Submittals: The Engineer will return unsolicited submittals to the sender without action.

PART 2 – PRODUCTS

PART 3 – EXECUTION

**END OF SECTION** 

8/8/2025 01 33 00-5 Submittals

#### **SECTION 01 41 00**

# **REGULATORY REQUIREMENTS**

### PART 1 – GENERAL

#### 1.1 SUMMARY

## A. Section Includes:

- 1. Underground Utilities.
- 2. Property Monuments.
- 3. Traffic Control.
- 4. Permits for Project.

# 1.2 UNDERGROUND UTILITIES

A. Under the provisions of Wisconsin Statutes, Section 182.0175, all contractors, subcontractors, and any firm or individual intending to do work on this Contract shall contact all utility firms in the affected area of construction a minimum of three (3) working days prior to beginning construction so that affected utilities will be located and marked.

#### 1.3 PROPERTY MONUMENTS

- A. Protect iron pipe monuments from movement.
- B. The cost of replacement of any monuments moved or destroyed during construction shall be the Contractor's responsibility.
- C. Perpetuation of destroyed or moved monuments shall be performed in accordance with state statutes by a registered land surveyor.

## 1.4 TRAFFIC CONTROL

- A. Provide traffic control facilities including barricades, signs, lights, warning devices, pavement markings, flaggers, etc.
- B. Construct and use traffic control facilities in accordance with the U.S. D. O. T. Federal Highway Administration's Manual on Uniform Traffic Control Devices for Streets and Highways.
- C. Maintain traffic control devices as required to properly safeguard the public travel through final completion, including during periods of suspension of work.

8/8/2025 01 41 00-1 Regulatory Requirements

# 1.5 PERMITS FOR PROJECT

- A. The following permits are being obtained by the Owner:
  - 1. WDNR Water System Plan Review
  - 2. WDNR Sanitary Sewer Extension

PART 2 – PRODUCTS (Not used)

PART 3 – EXECUTION (Not used)

**END OF SECTION** 

8/8/2025 01 41 00-2 Regulatory Requirements

#### **SECTION 01 71 23**

#### FIELD ENGINEERING

PART 1 - GENERAL

## 1.1 SUMMARY

- A. Section Includes:
  - 1. Engineering Surveys Provided by the Engineer.
  - 2. Engineering Surveys Provided by the Contractor.

## 1.2 SUBMITTALS

A. None

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION

#### 3.1 PREPARATION

- A. Investigate and verify the existence and location of site improvements, utilities, and other existing facilities.
- B. Before construction, verify the location of invert elevations at points of connection of sanitary sewer, storm sewer, water piping and underground electrical services.
- C. Furnish information to the Engineer and the appropriate utility regarding conflicts that are necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction.
- D. Provide the Engineer two (2) working days advance notification when ready for engineering surveys for construction to be provided by the Engineer.

#### 3.2 ENGINEERING SURVEYS TO BE PROVIDED BY THE ENGINEER

## A. General

- 1. Establish benchmarks for construction as shown on the drawings.
- 2. Establish control points as shown on the drawings.
- B. Gravity Sewer Systems and Water Distribution Systems
  - 1. Provide construction reference stakes set for pipe construction location at critical changes in horizontal and vertical alignment.

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2. Provide construction stakes for location of pipe at connections.

## C. New Road Construction

- 1. Provide construction slope intercept stakes for horizontal and vertical alignment on each side of the road base on each cross section in the cross section sheets for requests received at least seventy-two (72) hours before the related work begins.
- 2. Provide construction reference stakes for subgrade at a minimum of fifty (50) foot intervals and maximum of one-hundred (100) foot intervals on tangents. Provide construction reference stakes for subgrade at twenty-five (25) foot intervals within vertical and horizontal curves. Provide a reference line stake at each location.
- 3. Provide construction reference stakes for top of crushed aggregate at a minimum of fifty (50) foot intervals and maximum of one-hundred (100) foot intervals on tangents. Provide construction reference stakes for top of crushed aggregate at twenty-five (25) foot intervals within vertical and horizontal curves. Provide a reference or centerline stake.

# 3.3 ENGINEERING SURVEYS TO BE PROVIDED BY THE CONTRACTOR

## A. General

- 1. Locate, preserve and protect established construction reference stakes, benchmarks and control points.
- 2. Locate, preserve and protect property corners and section corner monuments. If moved or destroyed due to Contractor negligence, then replace in accordance with state requirements; some of which are referenced in the "Regulatory Requirements".
- 3. Provide additional construction staking as necessary to complete construction based on the construction reference stakes provided by the Engineer and the Drawings.
- 4. Before beginning with necessary construction staking, verify the information shown on the Drawings, in relation to the established construction reference stakes, bench marks, control points and property corners. Notify the Engineer of any discrepancies.
- 5. Remove construction reference stakes when directed by the Engineer.

# B. Gravity Sewer Systems and Water Distribution Systems

- 1. Provide any intermediate construction reference points as required to verify installation at the line and grade established and locate appurtenant structures.
- 2. Check the line and grade with construction reference stakes at each pipe length.

# C. New Road Construction

1. Provide additional construction reference stakes necessary to establish location and grade in accordance with the plans.

**END OF SECTION** 

#### **SECTION 03 35 33**

#### STAMPED COLORED CONCRETE FINISHING

## 1.1 SUMMARY

- A. Section Includes:
  - 1. Constructing stamped colored concrete.

## 1.2 REFERENCES

A. WisDOT Standard Specification for Highway and Structure Construction, Latest Edition.

# 1.3 SUBMITTALS

- A. Design Mixes
  - 1. Submit copies of the composition and strength testing results for design mix for each type of concrete.
- B. Certificates
  - 1. Manufacturer's certification of the curing compound.
  - 2. Manufacturer's certification of evaporation retarders.
  - 3. Manufacturer's certification of sealer with sure grip.
- C. Samples
  - 1. Provide all material samples needed for the required testing.

### 1.4 QUALITY ASSURANCE

A. Independent testing will be completed by the Owner.

## PART 2 - PRODUCTS

# 2.1 MATERIALS

- A. Concrete shall be in accordance with the Standard Specifications.
- B. The stamping pattern shall be Belgian Basket Weave used brick.
- C. The coloring shall be as listed in the Drawings:
  - 1. Red admixture shall be WisDOT Red, conforming to Section 405 of the WisDOT Standard Specification for Highway and Structure Construction.
  - 2. Grey admixture shall be Charcoal (C-24 Scofield CHROMIX P Admixtures for Color-Conditioned Concrete or approved equal), conforming to Section 405 of the WisDOT

Standard Specifications for Highway and Structure Construction.

- D. The maximum amount of chert allowed shall be less than one percent (1.0%) by weight.
- E. The City of De Pere will provide three sets of six basic concrete stamping and patterning tools. The contractor shall provide other tools necessary to complete the stamping work as shown in the Drawings.
- F. Evaporation retarders: Waterborne monomolecular film forming manufactured for application to fresh concrete, Dayton Superior Day-Chem Sure Film J-74 or equal.
- G. Form Release Agent.
- H. AK-2 ACHRO KURE 1315 sealer with sharp grip added.
- I. Curing and sealing materials shall be compatible with colored concrete as recommended by the manufacturer.

#### PART 3 - EXECUTION

#### 3.1 PLACING AND FINISHING CONCRETE

- A. Construct stamped colored concrete pavement in accordance with the standard specifications and as hereinafter provided. The coloring of the concrete shall be full depth color, not surface application
- B. The City of De Pere will provide the decorative stamping and patterning tools for stamping the concrete. The City has 21 rigid stamps and 3 flexible stamps. The stamps owned by the City are Belgian Basket Weave used brick. If the Contractor needs to purchase more stamps to perform the work, the additional stamps purchased shall be considered incidental to the stamped colored concrete. Return the concrete stamping and patterning tools to the City once work is complete. Return concrete stamping and patterning tools in good condition. If the concrete stamping and patterning tools are not returned to the City in good condition the contractor shall replace the stamping and patterning tools.
- C. Provide all other standard finishing tools for stamping the colored concrete.
- D. Colored concrete shall be produced in one (1) cubic yard increments. No ½ cubic yard loads will be accepted.
- E. Water/cement in mix design shall be consistent to maintain consistent color.
- F. Colored concrete mixes for the entire project shall be consistent. If the mix is started with High Early Strength then all colored concrete shall be provided as High Early Strength. Switching from

- regular colored concrete to High Early Strength colored concrete or High Early Strength colored concrete to regular colored concrete will not be allowed.
- G. Once pouring of the colored concrete on the project has begun, cement switching in the colored concrete will not be allowed because it will affect the color consistency of the colored concrete.
- H. Any additional water added to colored concrete once the truck is on site will be rejected.
- I. Blessing of the colored concrete pavement with water once concrete is in place will not be allowed. If water is added to the surface of the colored concrete surface once concrete is in place, the colored concrete will be rejected and will need to be removed.
- J. Evaporation reducers will be used throughout the construction of the colored concrete.
- K. Cover and protect adjacent construction and concrete from discoloration and spillage during placement of colored concrete, application of release agents, and sealers.
- L. Liquid release agent shall be uniformly applied onto the colored still plastic state concrete to provide clean release of imprinting tools from the concrete surface without lifting imprint or tearing concrete.
- M. While initially finished concrete is in plastic state, accurately align and place imprinting stamps. Monitor the setting up of the concrete. Once the concrete has set to the point it can be stamped the contractor shall begin stamping. Uniformly pound or press imprint tool into concrete to produce required pattern and depth of imprint on concrete surface. Remove platform tools immediately. Hand texture and stamp edges and surfaces unable to be imprinted by stamp mats. Touch up imperfections such as broken corners, double imprints and surface cracks.
- N. Stamp concrete consistently so that stamped concrete does not have a vertical elevation difference of ½ inch or depressions in concrete capable of causing ponding water or ice.
- O. For concrete hand stamp edges and surfaces that are unable to be imprinted by platform tools, use texture mats and single blade hand stamps to match platform tool stamping pattern. Finished imprinting shall match pre-construction mock-up.
- P. After concrete has been stamped and the sheen has left the surface of the colored concrete, the colored concrete shall be sealed with AK-2 ACHRO KURE 1315 with sharp grip added. Apply per manufacturer's recommendations. Two coats of seal shall be applied. Apply second coat after first coat has dried. Do not seal over blemishes or imperfections caused by rainfall or protection materials.
- Q. In general colored concrete must be protected from premature drying and excessive cold or hot temperatures. Apply evaporation retarders to concrete surfaces only if hot, dry, or windy

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conditions causing a moisture loss approaching 0.20lb./sq.ft. x h before and during initial finishing operations. Apply according to manufacturer's written instructions after placing and screeding and during initial floating operations.

- R. Protect the colored concrete from damage.
- S. Adjacent concrete that is discolored shall be removed and replaced to the approval of the engineer.

**END OF SECTION** 

#### **SECTION 10 14 53**

## **TRAFFIC SIGNAGE**

# PART 1 - GENERAL

# 1.1 SUMMARY

A. The work specified in this section consists in furnishing and installing roadside signs as required. All new signs are to be installed on metal poles unless indicated on the plans.

## 1.2 REFERENCES

A. Wisconsin Manual on Uniform Traffic Control Devices.

# 1.3 SUBMITTALS

### A. Product data:

1. Submit complete materials list of items proposed for the work.

#### PART 2 - PRODUCTS

# 2.1 SUPPLIER

A. All signs, posts, brackets, bases, and appurtenant hardware shall be from Traffic and Parking Company (TAPCO) or an Engineer approved alternative.

#### 2.2 STOP SIGN ASSEMBLY

- A. Stop sign assembly shall include the following:
  - 1. V-Loc Post Anchor for 2 3/8-Inch Posts in concrete (TAPCO SKU: 034-00012).
  - 2. Z Bracket Single Sided Round Pole Brackets for 2 3/8-inch Posts (TAPCO SKU: 203-01238BLK)
    - a. Painted black.
  - 3. Mini Americana Decorative Base for 3-inch posts (TAPCO SKU: 151347)
  - 4. STOP Sign (R1-1)
    - a. 30"x30" with Diamond Grade Cubed (DG3) sheeting.
    - b. The backside of the sign shall be painted black.
  - 5. 2 3/8-Inch Diameter Black Aluminum Pole 10-foot length (TAPCO SKU: 203-00210)

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# PART 3 - INSTALLATION

## 3.1 PREPARATION

# A. Care of the product

- 1. Place stop sign assembly components on a non-abrasive surface, such as a drop cloth, to avoid scratching.
- 2. Protect components during transportation to installation site to avoid damage.
- 3. Avoid excessive force when assembling components.
- 4. Avoid overtightening screws.

# 3.2 INSTALLATION

# A. Roadside Signage

- 1. Existing roadside signs and posts shall be removed, salvaged, and delivered to the City of De Pere Municipal Service Center at 925 S. Sixth Street as directed by the Engineer.
- 2. Install proposed sign assemblies per the manufacturer's recommendations.

## 3.3 CLEANING

A. At the completion of installation, clean soiled sign surfaces in accordance with the manufacturer's instructions. Protect units from damage until acceptance by the Engineer.

**END OF SECTION** 

8/8/2025 10 14 53-2 Traffic Signage

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#### **SECTION 12 93 00**

#### SITE FURNISHINGS

# PART 1 - GENERAL

# 1.1 SUMMARY

- A. Section Includes:
  - Tree Grates
  - 2. Bollards

## 1.2 QUALITY ASSURANCE

A. Tree grate manufacturers: East Jordan Ironworks Company

## 1.3 SUBMITTALS

- A. Provide in large-scale detail, drawings of fabricated equipment, type and gage of materials, hardware and fittings, with plan, front elevation, and a minimum of one cross-section.
- B. Submit manufacturer's installation instructions.

# 1.4 DELIVER, STORAGE, AND HANDLING

- A. Deliver, store and handle products to site under provisions of Section 00 70 00 General Requirements.
- B. Lay panels and flat sections, flat and blocked, clear of ground in a manner to prevent damage.
- C. Coordinate size of access and route to place of installation.

## PART 2 - PRODUCTS

# 2.1 TREE GRATES

- A. Manufacturer:
  - 1. EJ Company.
  - 2. No substitutions.
- B. Model: Sunray.
  - 1. 48" Grate: Series #8854 with 24" tree opening.
  - 2. 60" Grate: Series #8855 with 24" tree opening.

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- C. Finish: Supply grates in unfinished natural state.
- D. Provide matching steel angle frames model in accordance with installation detail. Frames to be provided unfinished.

#### PART 3 - EXECUTION

## 3.1 INSTALLATION

- A. Use anchoring devices for materials encountered and usage expected.
- B. Install items in accordance with manufacturers' instructions, including site furnishings purchased by others.
- C. Coordinate with Owner's Representative for delivery and installation of all site furnishings purchased by others.

## 3.2 TREE GRATE INSTALLATION

- A. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.
- B. Restore damaged finishes and test for proper function. Clean and protect work from damage.
- C. Remove or protect tree grates if concrete or pavers around tree well perimeter are chemically treated, acid washed, or if water from new concrete will wash onto grates.
- D. Install grates where indicated on Drawings, flush and level with surrounding pavement surface.
- E. Install steel angle frame, in concrete flush and level with surrounding paving surface, maintain flush and leveled at all times. Frames must not slope in more than one direction.
- F. Use spreaders or stakes to keep frame from being distorted by concrete pressure, and clean concrete and debris from frame prior to tree grate installation.
- G. If needed, grind pads on underside of tree grates to level and prevent rocking.

# **END OF SECTION**

#### **SECTION 26 56 19**

#### **LED STREET LIGHTING**

# PART 1 - GENERAL

### 1.1 SUMMARY

- A. Section Includes:
  - 1. Conduit
  - 2. Pull Box 24x42-Inch
  - 3. Concrete Bases
  - 4. Electrical Wire Lighting
  - 5. Electrical Service Meter Breaker Pedestal (Fortune Avenue)
  - 6. Luminaires LED, 250 Watt equivalent
  - 7. Poles, Type 5-Aluminum Anodized Black,
    Traffic Signal Standards-Aluminum, factory applied black finish
    Luminaire Arms Single Member, 4 ½-inch Clamp 8-FT, anodized
    black Transformer Base Breakaway 11 ½-Inch Bolt Circle, anodized
    black with factory applied black finish
  - 8. Luminaire Fixtures
  - 9. Lighting Control Cabinet (120/240 Volt) (24" Width)

## 1.2 REFERENCES

- A. State of Wisconsin, Department of Transportation, Standard Specification for Highway and Structure Construction, current edition, and all supplemental and interim supplemental specifications, as they may pertain, except the items: method of measurement and basis of payment shall not apply.
- B. American Association of State Highway and Transportation Officials (AASHTO).

## 1.3 SUBMITTALS

- A. Submit manufacturer's certification for each product stated that products delivered comply with the requirements of this section and the referenced standard.
- B. Solid-State Light Fixture Product Checklist (See appendix)
- C. Luminaire specification sheet.
- D. Driver specification sheet.
- E. Surge protection specification sheet.

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F. IES LM-79 test report (include photometry and colorimetry). The photometry should be based on an actual working product, not a prototype or computer model.

- G. Performance (photometric) calculations. Use the following additional design parameters in conjunction with the plan and the information provided on the "Solid-State Light Fixture Product Checklist" to calculate photometric point-by-point analysis drawings for the street. Submit these calculations to the Engineer in a drawing size necessary to ensure legibility of each number on the roadway. These drawings shall accompany the solid-state light fixture specification sheet and driver specification sheet. Be sure to assign the road name to each applicable fixture type. Number all pages for reference during review. A .dwg or point file can be provided on request.
  - 1. Additional Parameters:
    - a) The new pavement is type R1.
    - b) Provide the photometric coverage required based on plan pole locations and spacing. Use .75 as a combined depreciation factor.
- H. Product warranty information identifying a minimum warranty of 10 years.
- I. Light levels anticipated at 30% life in accordance with LM79.

# PART 2 - PRODUCTS

## 2.1 CONDUIT

A. Conform to WisDOT Standard Specification for Highway and Structure Construction Section 652 for electrical conduit. The minimum conduit size is 2-inch.

# 2.2 PULL BOX NON-CONDUCTING 24x42-INCH

A. Conform to WisDOT Standard Specification for Highway and Structure Construction Section 653 for Pull Boxes.

## 2.3 CONCRETE BASES

A. Conform to WisDOT Standard Specification for Highway and Structure Construction Section 654 for Concrete Bases.

# 2.4 ELECTRICAL WIRE LIGHTING

A. Conform to WisDOT Standard Specification for Highway and Structure Construction Section 655 for Electrical Wire Lighting.

# **Redevelopment Street and Utility Construction**

#### 2.5 ELECTRICAL SERVICE METER BREAKER PEDESTAL

A. Furnish a service having a meter breaker pedestal in accordance with section 656.2.3 of the WisDOT specification and as the plans show.

#### 2.6 POLES - STANDARD

- A. Include the following:
  - 1. Poles, Type 5-Aluminum Anodized Black
  - 2. Traffic Signal Standards
  - 3. Luminaire Arms Single Member, 4 ½-Inch Clamp 8-Ft, Anodized Black
  - 4. Transformer Base Breakaway 11 ½-Inch Bolt Circle, Anodized Black with Factory Applied Black Finish
  - 5. Pedestal Base, Anodized Black with Factory Applied Black Finish.
- B. Conform to WisDOT Standard Specification for Highway and Structure Construction Section 657 for poles, arms, standards, and bases. Poles and arms will be aluminum anodized black. Transformer bases and pedestal bases will be anodized black and have a factory applied black finish.

#### 2.7 LUMINARIE FIXTURES - STANDARD

- A. The luminaire fixtures shall be one of the following:
  - RVM-160W96LED4K-R-LE3-(VOLT)-DMG-[API-008]-RCD7-GY3 (0.85 Total LLF for design) from Phillips.
  - 2. BXUL9112& (STR-LWY-3M-HT-10-E-(VOLT)-SV-700-40K-7PIN-UTL(+)) (0.855 Total LLF for design) from CREE.
  - 3. GC1-80F-(VOLT)-NW-3-GY-700-PCR7-WISDOT-C-SC (0.855 Total LLF for design) from Leotek.
  - 4. ATB2-60B-LEDE10-VOLT-R2-P7-SH-RFD189565 (0.846 Total LLF for design) from American Electric Acuity Brands Lighting, Inc.
  - 5. NVN-AE-03-D-VOLT-T3R-10K 4N7-AP-WISDOT (0.85 Total LLF for design) from Cooper.

# **B. LUMINAIRE MATERIALS**

- 1. General Requirements:
  - a. The luminaire manufacturer shall have produced LED street lighting luminaries for a minimum of 3 years at the time of bid.
  - b. Proposed products must be available, in full production, at the time of this project. Prototypes and conceptual products will not be accepted.
  - c. The manufacturer shall provide a warranty for 10 years (beginning on the date of substantial completion) for full replacement of fixture for catastrophic failure, or light levels below 70% of initially documented values excluding labor, tools, and miscellaneous materials with the following exception: Any documented light fixture failures exceeding 5% of the initial installed number of fixtures within the first 5 years shall afford the Owner the right to full replacement (including all necessary tools, labor, materials, traffic

## **Redevelopment Street and Utility Construction**

control, and incidentals necessary to bring the lighting system back to a complete and operable system). The luminaire shall have a minimum 10 year warranty covering the entire luminaire (electronics, mechanical, finish). Knockdowns by the general public are excluded from manufacturer's responsibility. The warranty will begin on the date of substantial completion.

# 2. Mechanical Requirements:

- a. Luminaire housing shall be made of cast or extruded aluminum, with low copper (<0.3%) alloys.
- b. Heat sinking for the LEDs and electrical components shall be integral to the housing, with no moving or active parts (it should be a passive heat sink). It shall be shaped to maximize heat movement, and designed so that dirt and debris will not accumulate between fins or channels.
- c. The luminaire shall include protection to keep birds from entering the housing.
- d. There shall be a four-bolt mounting system accommodating 1.66" to 2.38" OD tenons. The housing shall be designed to allow installations at a tilt angle of +/- 5 degrees.
- e. The luminaire shall have a minimum of 2G vibration rating per ANSI 136C.31. Situations requiring a 3G rating include bridges and overpasses.
- f. The luminaire shall not weigh more than 40 pounds.
- g. The luminaire shall operate in ambient temperatures of -40°C (-40°F) to +40°C (104°F).
- h. The factory finish shall match the pole and may be anodized instead of painted. The finish must withstand extreme weather changes without cracking or peeling and be guaranteed for five full years or more.

# 3. LED (Light Source) Requirements:

- a. The LEDs shall be from Cree, Phillips Lumileds, Nichia, or Osram.
- b. The LED package shall be tested for a minimum of 6000 hours per IES LM-80-08.
- c. The LEDs shall have a nominal correlated color temperature (CCT) between 4000 4500K.
- d. The LEDs shall have a minimum color rendering index (CRI) of 70.
- e. The projected L70 lifetime (the point in time at which the LEDs are expected to produce only 70% of their lumen output) for the luminaire shall be a minimum of 60,000 hours at 25° C.

# 4. Photometric Requirements:

- a. The luminaire optics shall be available with IES Type II and III distributions.
- b. Provide IES TM -15-07 optical precision for backlight, up light, and forward light (glare).
- c. The luminaire shall deliver 65 lumens per watt (LPW) minimum at 530 mA drive current.
- d. The optical portion of the luminaire must be protected to IP65 minimum, per ANSI C136.25, to prevent dirt and water from getting to the LED circuit board.
- e. The luminaire shall have been photometrically tested per IES LM-79-08 by an independent laboratory, or an in-house laboratory with NIST NVLAP accreditation.

## 5. Electrical Requirements:

- a. Provide all miscellaneous electrical components necessary to provide a complete and operable lighting system meeting local and National Electrical Code (NEC) requirements.
   All electrical components shall be UL listed for outdoor use.
- b. Provide 120V system, Power Factor>90%, Total Harmonic Distortion<20%.

# **Redevelopment Street and Utility Construction**

- c. The driver shall be available with input voltages ranges from 120-277 volts. Other installations may need to be available with dimming. Indicate if the fixture is compatible to be able to reduce light output by 50% and if there is an additional cost to provide.
- d. The driver, as operated in the luminaire, must not exceed the driver manufacturer's maximum case temperature limits for a rated life of at least 60,000 hours.
- e. The luminaire shall be protected against surges according to IEEE C62.42 C High (10kA and kV).
- f. The driver electronics shall be encapsulated and sealed to IP 65 rating. Drivers shall be easily accessible and removable without tools.
- g. The luminaire shall have a shorting cap.

## 2.8 DECORATIVE POLE AND LUMINAIRE

- A. Description of Luminaire is ALMSCP-LE100/EVX/X2-22-CN5-TKSF-FAH. Include the following:
  - 1. Spring City Park Luminaire Aluminum
  - 2. Lamping: 100 watt LED
  - 3. Voltage: Electronically Wire @ 120-277V
  - 4. Number of Boards: 2-Boards
  - 5. Color Temp: 2200K (Golden White)
  - 6. Distribution: Type V
  - 7. Globe: Keyslotted Frosted Acrylic
  - 8. Finial: Anaheim
  - 9. Finish: Powder Coat- Gloss Black
  - 10. Pole shall be the Hancock with Ladder Rest, 9'-2" lamp post as Manufactured by Spring City.

# 2.9 LIGHTING CONTROL CABINET

A. Furnish a lighting control cabinet in accordance with section 659 of the WisDOT specification together with the circuit wiring connections, hardware, and fittings as the plans show. Six 20 amp breakers will be required for the 2P branch breakers shown in the control cabinet schematic.

#### PART 3 – EXECUTION

## 3.1 CONSTRUCTION METHODS LUMINARIES

## A. Luminaries

- 1. Furnish and install luminaries and all necessary miscellaneous accessories and hardware to complete the installation of the luminaries.
- 2. Follow manufacturer's instructions regarding luminaire installation.
- 3. Three single-conductor No. 12 stranded wired shall be used to connect he luminaries to their respective brand conductors in the pole base. Each luminaire feeder wire shall be protected by one 5-amp fuse. Fuses and fuse holders shall be as per the details in the Plan.

# **Redevelopment Street and Utility Construction**

4. All exposed threaded equipment mounting hardware shall be stainless steel. All threaded stainless steel hardware and dissimilar metal, threaded hardware shall be coated with an approved zinc-based anti-seize compound (Loctite or Jet-Lube) by the Contractor.

**END OF SECTION** 

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#### **SECTION 32 90 00**

## **PLANTING**

# PART 1 - GENERAL

# 1.1 SUMMARY

## A. Section Includes:

- 1. Plant Materials.
- 2. Soil Amendment Materials.
- 3. Testing of all topsoil to be used for site planting and amending it in accordance with the recommendations of the Soils Analysis.
- 4. Landscape Accessories.
- 5. Planting Soil Preparation.
- 6. Plant Material Schedule.
- 7. Planting Operations.
- 8. Tree and Shrub Planting.
- 9. Inspection and Approvals.

## B. Related Sections:

- 1. Applicable provisions of Section 00 70 00 General Requirements shall govern Work under this Section.
- 2. Section 31 05 10 Soils and Aggregates for Earthwork.

# 1.2 REFERENCES

- A. American National Standards Institute (ANSI):
  - 1. Z60.1 American Standard for Sizing, Handling, and Planting Nursery Stock.
- B. ASTM International (ASTM):
  - 1. ASTM C136 Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
  - 2. ASTM D2487 Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System).
- C. Turf Producers International (TPI):
  - 1. Guideline Specifications for Sodding.

### 1.3 DEFINITIONS

A. Plants: Living trees, shrubs, ground cover, grasses, flowers, and bulbs specified in this Section, and described in ANSI Z60.1.

# **Redevelopment Street and Utility Construction**

B. Clump Form Trees and Shrubs: Plants with a minimum of three and a maximum of five main stems.

- C. Multi-Stem Trees and Shrubs: Plants with multiple stems arising from the root crown in the manner of a shrub.
- D. Weeds: Includes Dandelion, Quack Grass, Morning Glory, Mustard, Chickweed, Crabgrass, Canadian Thistle, and otherwise plants not specified for this project.

## 1.4 QUALITY ASSURANCE

- A. Qualifications of Landscape Contractor:
  - 1. Landscape work is to be provided by a single firm specializing in Landscape work having not less than five (5) years successful experience in Landscape projects of similar scope and location to this proposed project.
  - 2. Provide at least one person, with a minimum of four (4) years similar experience, who shall be present on site at all times during execution of this portion of the work, who shall be thoroughly familiar with the type of materials being installed and the proper methods for their installation, and who shall direct all work performed under this section.
  - 3. Employ only qualified personnel familiar with required work.

# 1.5 SUBMITTALS

- A. Following items require prior authorization; submit to Landscape Architect for written approval prior to use on project:
  - 1. Samples:
    - a. Provide representative sample quantities of the following:
      - Mulching material.
  - 2. Required Landscape Submittals:
    - Topsoil report from soils test analysis and Contractor's own written summary of recommended schedule of amendments for each type of planting application: plant beds and trees.
    - b. Landscape accessories.

# B. Topsoil Report:

- Contractor shall retain the services of an independent testing firm to conduct sampling, testing and analysis of salvaged and imported soil and amendments as required by this section and elsewhere in the Contract Documents. Materials testing firm shall be subject to approval by the Owner.
- 2. Soil-Testing Laboratory Qualifications: An independent laboratory, recognized by the State Department of Agriculture, with experience and capability to conduct testing indicated and that specializes in types of tests to be performed.
- 3. Soil Analysis: For each unamended soil type, furnish Landscape Architect with soil analysis and a written report by a qualified soil-testing laboratory stating percentages of organic

#### **Redevelopment Street and Utility Construction**

matter; gradation of sand, silt, and clay content; cation exchange capacity; sodium absorption ratio; deleterious material; pH; and mineral and plant-nutrient content of the soil.

- a. Testing methods and written recommendations shall comply with USDA's Handbook No. 60. The soil-testing laboratory shall oversee soil sampling, with depth, location, and number of samples to be taken per instructions from Landscape Architect. If sample quantities are not provided, Contractor shall provide a minimum of three (3) representative samples taken from varied locations for each soil to be used or amended for planting purposes.
- b. Report suitability of tested soil for turf, native seeding and plant growth.
- c. Report presence of problem salts, minerals, residual chemicals from agricultural practices (atrazine) or heavy metals, including aluminum, arsenic, barium, cadmium, chromium, cobalt, lead, lithium, and vanadium. If such problem materials are present, provide additional recommendations for corrective action.
- 4. Based on soil analysis and testing laboratory's results, Contractor shall provide their own written summary of recommendations for proposed soil treatment and soil amendments to be incorporated for each type of planting application. State recommendations in weight per 1000 sq. ft. or volume per cu. yd. for macro and micro nutrients, soil particle, and organic matter amendments required to meet soil specifications.
- 5. Collection of soil specimens shall be completed in accordance with accepted practices, and shall be subject to approval by the Owner's Representative.

#### 1.6 DELIVERY, HANDLING, AND STORAGE

#### A. Trees and Shrubs:

- 1. Provide freshly dug trees and shrubs. Do not prune prior to delivery unless otherwise approved by Landscape Architect.
- 2. Do not bend or bind-tie trees or shrubs in such manner as to damage bark, break branches, or destroy natural shape.
- 3. Provide protective covering during delivery to prevent wind burn damage. Do not drop balled, burlapped, or other stock during delivery.
- 4. Deliver trees and shrubs after preparations for planting have been completed and plant immediately.
- 5. If planting is delayed more than six (6) hours after delivery, set trees and shrubs in shade, protect from weather and mechanical damage, and keep roots moist by covering with mulch, burlap or other acceptable means of retaining moisture.
- 6. Do not lift, move, and adjust to plumb, or otherwise manipulate plants by trunks or stems.
- B. Begin plant installation immediately upon delivery. Complete planting within 32 hours after delivery.

#### **Redevelopment Street and Utility Construction**

#### PART 2 - PRODUCTS

#### 2.1 PLANT MATERIALS

- A. Provide trees, shrubs, and plants of size, species, and quantity shown and scheduled for Landscape Work, nursery-grown under similar climatic conditions, and complying with recommendations and requirements of ANSI Z60.1, American Standard for Nursery Stock. Bare root stock is not acceptable.
- B. Deciduous Trees: Provide balled and burlapped trees of height and caliper scheduled and as shown and with branching configuration recommended by ANSI Z60.1 for type and species required. Provide single-stem, well-developed trees for this project.
- C. Undersized, diseased, root bound, or otherwise damaged plants are not acceptable, and shall immediately be returned to grower by Contractor.

#### 2.2 SOIL AMENDMENT MATERIALS

- A. Provide the following chemical or organic amendments to topsoil at site, if recommended, and in the proportions as stated in the "Soils Test Analysis Report" and as directed by the Owner's Representative.
  - Organic Soil Amendments Organic soil amendments shall be capable of passing the 1-inch sieve. The material shall be free of rocks, gravel, wood, debris, and of noxious weeds and their seeds:
    - a. Peat Moss: Shredded, loose, Type 1 sphagnum moss free of lumps, roots, weeds, seeds, inorganic or acidic materials, with a minimum of 85 percent organic material measured by weight.
    - b. Humus: Decomposed animal and plant matter, rich in nutrients with no identifiable fibers and within pH range suitable for intended use.
    - c. Composted Pine Bark Fines: Potting grade with no particles larger than 1/2-inch, less than 10 percent wood fiber.
    - d. Organic compost: Well-aged organic compost of sheep or cow manure.
  - 2. Lime: Natural dolomitic limestone containing not less than 85 percent of total carbonates with a minimum of 30 percent magnesium carbonates, ground so that not less than 90 percent passes a 10-mesh sieve and not less than 50 percent passes a 100-mesh sieve.
  - 3. Aluminum Sulfate: Commercial grade.
  - 4. Bone Meal: Commercial, raw, finely ground; four (4) percent nitrogen and 20 percent phosphoric acid.
  - 5. Fertilizer: 50 percent of elements derived from organic sources, of proportion necessary to eliminate inherent deficiencies of topsoil being not less than 10 percent total nitrogen, 10 percent available phosphoric acid, and five (5) percent soluble potassium.
  - 6. Herbicide: Pre-emergence type herbicide applied per manufacturer's specifications.

#### **Redevelopment Street and Utility Construction**

7. Pesticide: Commercial grade, used at minimum concentrations as recommended by manufacturer and administered only by experienced technical personnel familiar with safe use and handling.

- 8. Water: Clean, fresh, and free of substances or matter that could inhibit vigorous growth of plants. Contractor shall supply and pay for water.
- B. Fertilizer for Bulbs: Two (2) tablespoons of bulb food or bone meal per bulb.

#### 2.3 LANDSCAPE ACCESSORIES

- A. Mulching material shall be natural shredded hardwood bark mulch, free of debris, twigs, leaves, and growth or germination inhibiting ingredients, no larger than four (4) inches in any dimension, and suitable for top dressing of planting saucers and beds. Bark mulch shall not contain any wood, and no artificial coloration shall be added.
- B. Stakes and Guys, if Required by Contractor: One (1) tree staking kit for each tree; including three (3) earth anchors, three (3) rust-proof, heavy-duty tension buckles and UV-coated, flexible tree tie webbing as manufactured by Arborbrace, (561) 628-3591, or approved equal.
- C. Anti-Desiccant: Emulsion type, film-forming agent designed to permit transpiration but retard excessive loss of moisture from plants. Deliver in manufacturer's fully identified containers and mix in accordance with manufacturer's instructions.

#### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Verify that a fully prepared subsoil base is ready to receive topsoil and other work of this Section.
- B. Verify that required underground utilities are available, in proper location, and ready for use.
- C. Saturate soil with water to test drainage.
- D. Report conditions detrimental to plant growth or implementation to Construction Manager and Owner's Representative prior to planting.
- E. Beginning of installation means acceptance of existing site conditions.

#### 3.2 PLANTING OPERATIONS

A. Plant trees and shrubs after final grades are established and prior to planting of lawns, unless otherwise acceptable to Owner's Representative or City Forester. Coordinate with tree grate and electrical improvements as necessary.

#### **Redevelopment Street and Utility Construction**

- B. Recommended Schedule of Implementation:
  - 1. Live Landscape Plant Materials
    - a. Spring: Mid-April through June
    - b. Fall: Mid-August through late October
- C. Make every effort to install plant materials during normal planting season for each type of landscape work required.
- D. If for any reason installation cannot be completed during these times, take extra care to insure healthy growth of plant material.

#### 3.3 TREE AND SHRUB PLANTING

- A. Excavate pits with angled sides.
- B. Scarify side walls to alleviate glazing.
- C. Excavate pit at least three (3) times wider than ball diameter and equal to ball depth. (Note: trees and shrubs planted with crown/root flare of plant lower than adjacent grade will be rejected.) Avoid any damage to tree roots within areas where existing trees are to remain. Refer to Article 3.2 Protection for more information.
- D. For container-grown stock, excavate as specified for balled and burlapped stock, adjusted to two (2) times container width.
- E. Where rubble fill is encountered, notify Owner's Representative and prepare planting pits properly by removal of rubble or other acceptable methods. When conditions encountered are severe and extensive, as determined by Owner's Representative, proceed with additional work at the direction of the Owner's Representative.
- F. Drainage: If subsoil conditions indicate the retention of water in planting areas, as shown by seepage or other evidence indicating presence of underground water, notify the Owner's Representative before backfilling.
- G. For trees and shrubs to be planted in individual holes in areas of good soil that is to remain in place, save the existing soil to be used as backfill.
- H. Backfill excavations for trees and shrubs and allow to percolate before planting. When excavation is approximately 2/3 full, water thoroughly before placing remainder of backfill. Repeat watering until no more is absorbed. Water again after placing final layer of backfill. No settling of root balls will be allowed.
- I. Select best viewing angle and set balled and burlapped stock, plumb, and in center of pit or trench with crown/root flare at or slightly above elevation of adjacent finished grades.

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J. Remove burlap and wire basket from top one-half of ball. When set, place additional backfill and eliminate voids and air pockets.

- K. Encircle planting pit with three (3) inch high earth saucer to allow for mulching and watering during establishment. All trees to have minimum six (6) foot diameter mulch ring.
- L. Mulch tree and shrub planting areas with not less than three (3) inch thickness of mulch, and finish level with adjacent lawn grades as directed in field. Keep mulch minimum six (6) inches away from all stems and tree trunk root flares.
- M. If deciduous trees or shrubs are moved in full leaf, spray with anti-desiccant at nursery before moving, and again two weeks after planting.
- N. Prune only dead or damaged branches in accordance with standard horticultural practice, unless otherwise directed by City Forester and Landscape Architect. Do not cut tree leaders.
- O. Stake and guy trees immediately after planting, if required. Contractor shall be responsible for determining if a tree requires staking or guying. Adverse site conditions such as windy sites, slopes greater than 3:1, shallow or unstable soils, bare root plantings or large specimen plantings may require staking or guying.
- P. Trees to remain staked for one additional full growing season. Contractor shall remove stakes and accessories as a part of this project.

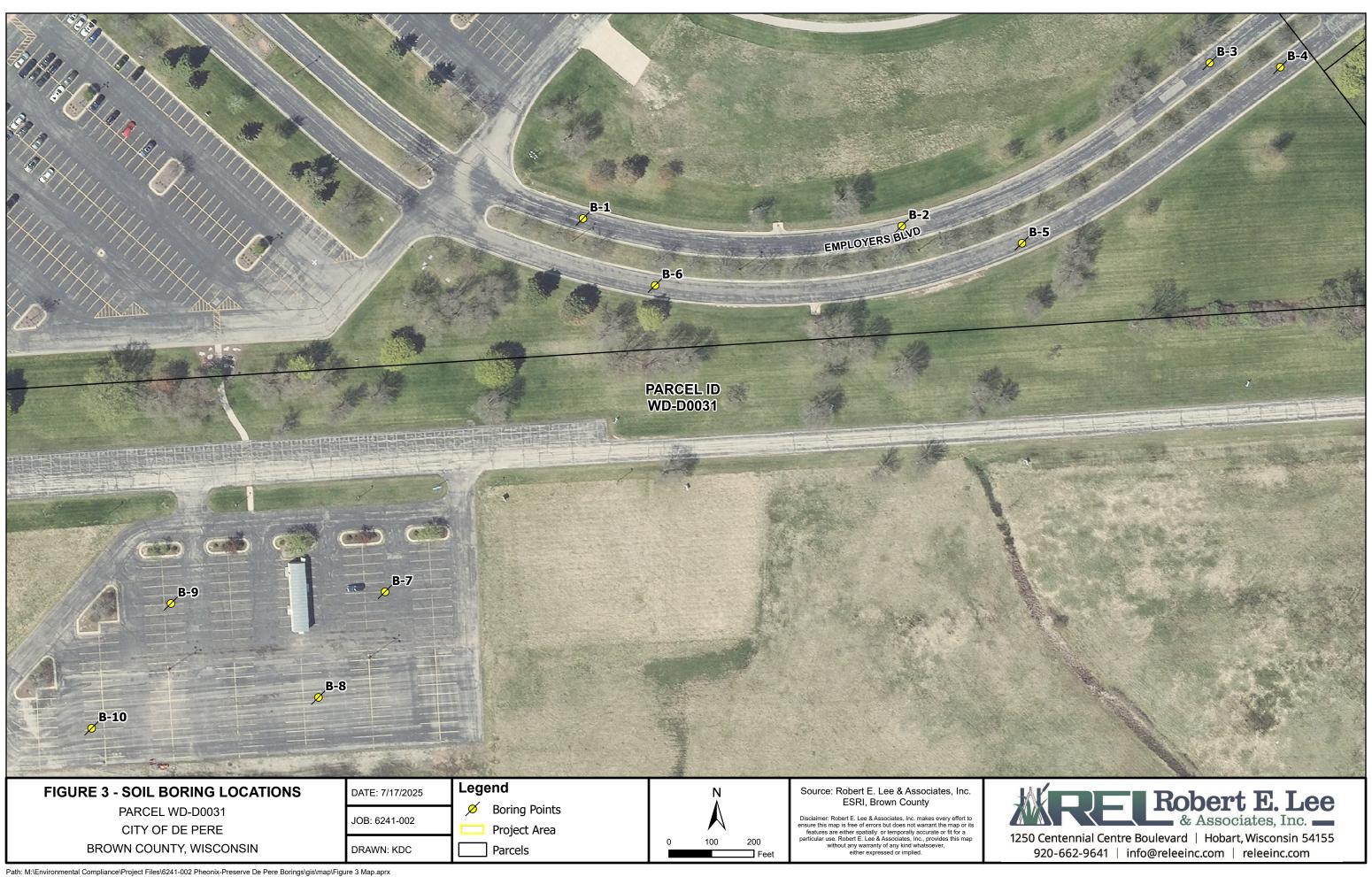
**END OF SECTION** 

8/8/2025 32 90 00-7 Planting

**Redevelopment Street and Utility Construction** 

#### **EXHIBIT A**

SOIL BORING LOGS BY ROBERT E. LEE & ASSOCIATES, INC.



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State of Wis Department		ural	Resou	rces Route			Vastewate on/Redeve			Waste Man Other	agement [				So	oil B m 440	ori 00-12:	ng L Pa	_	Inf	lev, 7	ation -98 1
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State of Wis Department		ıral	Resour	ces Route	Waters	shed/W ediation	astewater n/Redevelo	opment	_ v	Vaste Mana Other	agement				So For	oil B rm 440	orir 00-122	2		I	Rev.	nation 7-98 1
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### **Redevelopment Street and Utility Construction**

#### **EXHIBIT B**

#### CITY OF DE PERE ARBORICULTURAL SPECIFICATIONS MANUAL

## **CITY OF DE PERE**

# ARBORICULTURAL SPECIFICATIONS MANUAL



**Revised: February 2017** 

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#### INTRODUCTION

<u>FUNCTION</u>: The purpose of the Arboricultural Specifications Manual is to enable the City of De Pere to maintain and manage all trees located within the parkways, along City streets, and within the acres of public parks and recreational land by specifying proper treatments. This involves all phases of arboricultural work from planting to maintenance to removal. To carry out these functions, certain guiding policies and procedures have evolved and been adopted. Through these policies, the Parks, Recreation, and Forestry Department makes every effort to produce maximum public service for the City's urban forest.

<u>PURPOSE</u>: The policy of the City is to regulate and control the planting, transplanting, removal, maintenance, and protection of public trees and shrubs in the City in order to maximize utility and function of the urban forest and minimize and guard against dangerous conditions which may result in injury to persons using the streets, alleys, sidewalks, or other property of the City. It is also City policy to promote and enhance the beauty and general welfare of the City, and protect trees and shrubs located in the public areas from undesirable and unsafe planting, removal, treatment, and maintenance practices. (Exceptions - public school sites are not included.)

<u>ORGANIZATION</u>: The City's forestry effort is administered and managed by the City Forester of the Parks, Recreation, and Forestry Department. The City Forester maintains an office at the Municipal Service Center located at 925 S. Sixth Street. The Board of Park Commissioners and the Director of Parks, Recreation, and Forestry oversee and provide urban forestry guidance and input.

<u>PERSONNEL</u>: The City's forestry effort is supervised and managed by the Director of Parks, Recreation and Forestry and City Forester and is staffed by full-time and seasonal employees or contracted out to professional services. Recruiting and utilizing volunteers is also an important part of staffing.

"This document was funded in part by an urban forestry grant from the State of Wisconsin Department of Natural Resources Forestry Program as authorized under Wis. stat. 23.097."

#### I. MASTER STREET TREE PLANTING PLAN

The Master Street Tree Planting Plan covers the street tree planting programs, installation time periods of street tree plantings, planting permits, recommended street tree species selection list, and banned street trees. This document should be referenced for all questions regarding how street tree planting is laid out, paid for, requirements for what trees are allowed and banned from planting in the right-of-way.

#### A. Street Tree Planting Programs:

- 1. Neighborhood Tree Program This program is to allow property owners the opportunity to have the City plant trees along the street in front of their home or business. This is a cost share program where the owner can purchase a tree(s) thru the City at wholesale cost and the City will plant and maintain the tree for life. The City Forester will select and give property owners a choice of bare root trees in a size range of 1.25" 1.75" diameter (caliper) at 6" above the ground line. Trees will only be planted where an established lawn exists.
- 2. Replacement Trees destroyed by vandalism, vehicles, lawn equipment, etc. may be replaced at a cost to the person causing the damage, if known. If such person is unknown, the adjacent homeowner may request and pay for a new tree if conditions and space allow for a replacement planting. The City Forester, the Director of Parks, Recreation and Forestry or the Board of Park Commissioners may also request a new tree to be planted at no cost to the property owner to replace the lost tree.
- 3. <u>Unimproved Streets</u> Trees shall not be planted in the terrace where curbing and/or established lawn area does not exist.
- 4. <u>Memorial Tree Planting</u> Individuals or groups may choose to purchase (on their own or through the City), and have planted by the City, a tree to honor someone special. This planting can take place in a park of their choice if space and conditions allow. Planting can occur at various times of the year if weather and species permit.

#### B. Installation Time Periods:

- Street tree plantings will normally take place during two time periods per year. The first plantings will be in the spring, typically mid-April until the end of May. The other planting period occurs in the fall, approximately from Mid-October to early November.
- 2. Some tree species can only be transplanted in the spring for optimal establishment so these species will only be available once per year.
- 3. Evergreen trees (not an approved street tree, but may be planted in parks) should only be planted in the spring or summer to ensure establishment prior to freezing weather in the fall. Evergreens continue to transpire throughout winter so they should not be planted after October 1st since optimal establishment would not take place.
- C. <u>Planting Permit:</u> Property owners who wish to plant trees themselves in the City right-of-way must first complete a planting permit application (Appendix A). Upon completion, the City Forester will accept or deny this application following a site inspection and administer a planting permit for such plantings (Appendix B). Planting permit recipients must follow the tree planting procedures as outlined in Section III of these specifications.
- D. Recommended Street Tree Planting List: (Appendix E)
- E. Banned Tree List: (Appendix F)

#### II. DIGGERS HOTLINE AND LOCAL UTILITIES

Diggers Hotline and the local utility companies must be notified of all locations before any digging commences including planting, root repair, staking and stump removal. It takes three to ten days for the utilities to locate all facilities. This is required so that no underground utility facilities are damaged. This not only prevents the disruption of service to residents, but it also could prevent a serious accident to employees or property owners.

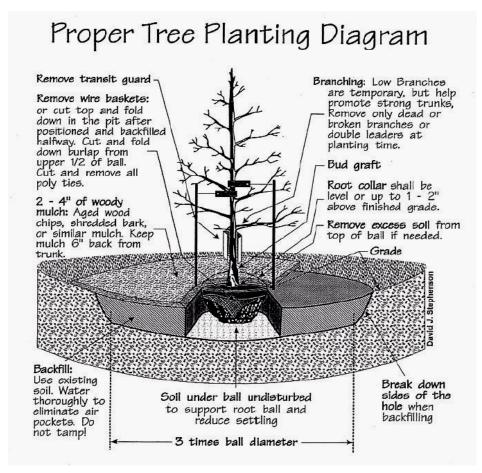
#### **III. TREE PLANTING STANDARDS**

- A. <u>Condition and Recommended Varieties</u>: All trees must be in healthy condition with evidence of vigorous growth during the previous year. Shade trees must have single trunks, with a dominant central leader, which will develop into a desirable crown. Ornamental trees may have multiple leaders, but only in areas of non-street right-of-ways. Varieties must be selected from the recommended tree planting list in Appendix E, unless prior approval is granted from the City Forester.
- B. <u>Diameter of Tree Trunk</u>: All trees planted along public streets must be of sufficient size to absorb the abuse and conditions common to street trees. Unless otherwise permitted for special reasons, the minimum size will be 1 1/4" diameter and may not exceed 3" diameter.
- C. <u>Location</u>: Generally all street trees shall be planted midway between the sidewalk and curb, following all guidelines listed below:
  - 1. 30' in either direction from the street intersection
  - 2. 20' from a street light
  - 3. 10' from a driveway or carriage walk
  - 4. 10' from a fire hydrant
  - 5. 15' from man holes in terrace
  - 6. 10' from underground utility valves and t's
  - 7. 5' from adjacent property lines
  - 8. 25' from an approaching sign (front of sign)
  - 9. 10' from a non-approach sign (back side of sign)
- D. <u>Parkway Width</u>: No trees will be planted where the grassy terrace between the sidewalk and curb is less than 3 feet wide.
- E. <u>Planting Depth</u>: The planting depth is determined by root collar. All new plantings should be placed so that the root collar is even with the soil surface or slightly higher, where conditions and species favor the tree being slightly above grade.
- F. <u>Spacing</u>: All small trees will be planted a minimum of 25' apart. Medium trees will be spaced a minimum of 30' 35' apart and large trees will be spaced a minimum of 35'-40' apart. Greater spacing may be needed depending on each species mature form.
- G. <u>Transplanted Trees</u>: When digging and planting trees bare root, care must be taken to prevent unnecessary injury to roots. All broken roots should be pruned. When digging balled and burlap trees, the following guide should be used to determine the diameter of the ball:

Root Ball Diameter	Approximate Root Ball Weight
22"	270#
24"	350#
28"	625#
32"	850#
38"	1250#
46"	2500#
	22" 24" 28" 32" 38"

#### H. Tree Planting Procedures:

- 1. Select the right tree for the right place:
  - a. Carefully review all aspects of the site.
    - 1. How much physical space is available above ground <u>and</u> below ground? Will the tree you want fit within this space at maturity? Don't plant a tree that will grow to a large size under power lines.
    - 2. Closely review the soil. Find out about the ability of moisture to drain through the soil. What is the pH?
    - 3. Consider environmental factors such as exposure to the sun, drying winds, and pollution.
  - b. Choose a tree species that matches, or is adaptable, to the growing conditions you have found during the site analysis.
- 2. Select a healthy tree from a reputable nursery.
  - Avoid plants that have damaged or broken twigs, branches, trunk, and/or roots.
  - b. Is the tree well anchored in the pot or burlap root ball?
  - c. Don't buy plants that look unhealthy and have dried out roots.
- 3. Plant the tree properly. The following is a diagram of proper installation for a balled and burlapped tree. Potted or bare root trees require similar steps with minor differences.



Wisconsin Dept. Of Natural Resources - Oct. 2000

- a. Prepare the site by digging a hole equal to the depth of the root ball/system and three times as wide. Digging too deeply can cause settling of the root system.
- b. Find the root collar and plant the tree even or slightly higher than this point.
- c. Remove at least ½ of the wire basket and burlap from the top part of the ball on balled and burlap trees. On either balled and burlapped or bare root trees, cleanly prune any torn, jagged or broken roots.
- d. Use the soil removed from the hole as backfill. As a general rule, you should not add any amendments to the backfill. Discard any rocks, sod, and large objects from the soil before backfilling.
- e. Water the soil thoroughly to remove air pockets. Don't pack the soil down (water will do this naturally with the help of gravity). Fill in any voids with more soil after watering.
- f. Create a mulch bed using wood chips that extends approximately 6" from the trunk outward to at least the drip line of the canopy to a depth of 3-4". (Don't pile the woodchips up around the trunk!)
- g. Stake the tree only if it will not remain upright in a moderate wind.
  - 1. If you must stake, use a soft, wide belt-like material when supporting the tree to avoid injuring the bark.
  - 2. Trees need to move in the wind. Make sure there is some play in the support system to allow the trunk to sway without being uprooted.
  - 3. Check tree following one (1) year and remove stakes if tree is stable.
- h. Wrapping the trunk is not necessary. If rodent damage is a concern, place a plastic tile tree protector around trunk.
- i. Prune any broken, dead, or dying limbs without damaging the branch collar at the time of planting. Routine pruning to train branching structure should be started one year after planting. Do not use pruning paint or wound dressing on the pruning cuts.
- j. Wait until one year after planting to fertilize, if needed.
- k. Diggers Hotline and the local utility companies must be notified of all locations before any digging occurs.
- I. <u>Additional Care</u>: Additional care should be given to newly planted trees in the following years, including pruning, mulching and fertilizing as needed.

#### IV. MAINTENANCE OF NEWLY PLANTED TREES

- A. <u>Fertilization & Amendments</u>: Fertilization of newly planted trees in the first year is not recommended. Typically a tree can be fertilized once it has become established, usually 2 or 3 years after planting. Fertilization is typically applied in spring or fall. Sulfur may be applied to bring down soil pH and provide an environment for trees to take up of some nutrients that aren't available in some soils. In addition to general fertilization or sulfur treatments, a micronutrient fertilizer may be used to supplement some specific deficiencies.
- B. <u>Mulching</u>: A layer of wood chip mulch around the drip line of the tree will help conserve the soil moisture, help protect the tree from lawn mower damage, and reduce competition from grass for nutrients and moisture. It will also decompose over the years to provide nutrients, organic matter, and to improve soil structure. Mulch should not be piled around the trunk, most specifically known as "mulch volcanoes". A pile of mulch at the base of trees provides a home for small rodents that may chew bark and can cause damage to the trunk. Mulch holds moisture by the trunk promoting fungal problems and it provides protection for insect pests that could cause structural damage. Mulch belongs on the ground, not on trees!
- C. <u>Tree Pruning</u>: No pruning should occur at the time of planting. Pruning at this time will reduce the amount of stored energy that the tree contains and could cause added stress to the tree. The exceptions to this rule are the pruning of any broken, dead, or dying limbs without damaging the branch collar at the time of planting. Routine pruning to train branching structure should be started one year after planting and continue every 3<sup>rd</sup> year for the first 15 years. Do not use pruning paint or wound dressing on the pruning cuts.
- D. <u>Tree Staking</u>: Stake only trees that will not stand in a moderate wind. If staking is required, use soft, wide bands of nylon strap, carpet, or canvas to support the tree. Make sure that the tree has a small amount of room to move. It is advisable to never use garden hose with wire through it to go around the tree trunk.
- E. <u>Tree Wrapping</u>: Is not normally necessary and should be avoided.
- F. <u>Tree Guards</u>: Plastic tile tree guards may be put on for winter protection from rodents. The guards should be removed in early spring to avoid damage to the tree.
- G. <u>Watering</u>: The City waters all trees at the time of planting. Following planting, the City requests that the homeowner water the tree for at least the first three years and in any period of dry weather thereafter. Trees and shrubs require 1" of water per week for optimal growth and maintenance.

#### V. PRUNING

STREET TREE PRUNING PLAN AND POLICY: The City of De Pere is divided into 10 different management units for management, maintenance, and increased efficiency by reducing crew travel time. To establish an orderly way of pruning street trees for an appearance of uniformity and tree health, a "Rotation Prune Schedule" is in operation.

- A. <u>Training Pruning (Trees up to 15 years of age)</u> These trees are pruned on a rotation of every three years after planting for the following reasons:
  - Develop a central leader
  - 2. Raise the crown
  - 3. Establish good branch structure
  - 4. Eliminate poor branch angles
  - 5. Heading of temporary branches
  - 6. Remove damaged, dead, or diseased branches
- B. Routine Pruning (Trees older than 15 years old) Routine pruning of mature trees on a 6 year cycle. With this pruning system, street trees are thoroughly pruned for low hanging branches, deadwood, and clearance of branches overhanging buildings. Class II type pruning will be used in most cases, which is standard pruning. The selective removal of plant parts for specific reasons, such as:
  - 1. Policy: See Above.
  - 2. Sanitation: Remove dead, dying, or diseased branches.
  - 3. <u>Traffic Clearance</u>: Provide for 12' minimum over sidewalks and at least 14' over streets, along with providing a clear line of site to street signs and intersections.
  - 4. <u>Light Clearance</u>: Remove sufficient branch wood to allow adequate street lighting pattern on pavement.
  - 5. <u>Tree Structure</u>: Remove interfering branches and those that form weak branch unions. Prune for proper balance around the tree and proper branch spacing to equalize wind resistance and weight.
  - 6. <u>Storm Damage Repair</u>: Preserve as much of the tree as possible, and train new growth for the future.
  - 7. <u>Building Clearance</u>: Remove interfering branches extending over buildings, and a minimum of a 10' clearance from buildings.

#### **VI. PRUNING SPECIFICATIONS**

All specifications shall be in accordance with ANSI A300 Standards.

#### A. Pruning Cuts

- 1. All cuts should be made sufficiently close to the trunk or parent limb without cutting into the branch bark ridge or branch collar so that callus growth can readily start under normal conditions.
- 2. Branches too large to support with one hand shall be precut (3 cut method) to avoid tearing or splitting of the bark. (See figure 1)
- 3. Removal of dead branches shall have the final cut outside of the collar of live tissue.
- 4. All limbs 4" in diameter or larger should be lowered to the ground by proper ropes when hazards are present on the ground.
- 5. No more than 1/4 of the foliage on mature trees should be removed within one growing season.
- 6. Heading cuts should consist of cutting the parent branch back to a lateral branch at minimum 1/3 the size of the parent limb.
- 7. Topping of trees shall not be allowed. Topping consists of cutting a branch between lateral branches or pruning the parent limb to a lateral branch that is less than 1/3 the size of the parent limb.

#### B. Wound Treatment

- Pruning paints and wound dressings shall not be used to cover pruning cuts. Research has shown that wound dressings do not improve wound closure and may actually promote disease at site of application. \*The only exceptions to this rule are if oaks or elms need to be pruned in the months of banned activity (as seen in Section IX, DISEASE AND INSECT PROBLEMS); then anything over a 2" cut should be covered with pruning paint to discourage disease-carrying insects. Stumps should also be removed or covered for this same reason.
- 2. Repairing of bark wounds should only include the removal of loose bark, disturbing as little of the live tissue as possible, and using rounded edges.
- 3. Tree cavities shall not be filled with concrete, bricks, wire, or any other non-flexible substances. If cavity filling is required, expandable foam should be used.

#### C. Miscellaneous Specifications

- 1. Climbing spikes or spurs shall not be used during pruning operations.
- 2. Vehicle and pedestrian warning devices shall be properly placed prior to any tree work being performed.
- 3. On thin bark species, just enough limbs are to be removed to obtain necessary results. Sucker growth can result from too much pruning.
- 4. All girdling roots visible to the eye, where practicable, should be treated with one of the following: Cutting of the root at either end, notching of the root in center with chisel, or removing the root without injury to bark or parent stem.
- 5. All wires are to be considered as "HOT" or "LIVE"; any branches that are within 10' should not be pruned. All tree workers shall abide by clearance standards outlined in the ANSI Z133.1 Standards. Call the appropriate utility for assistance if necessary. Any branches that accidentally fall against or hang on wires must be removed by the appropriate utility.
- 6. All cabling, bracing and lightning protection shall be in accordance with ANSI A300 Standards.
- 7. Chainsaws shall be handled in an appropriate manner and as directed in the newest revision of ANSI Z133.1.
- D. <u>Tree Work Permit:</u> Property owners who wish to remove, maintain or protect trees themselves in the City right-of-way, must first complete a tree work permit application (Appendix C). Upon completion, the City Forester will accept or deny this application following a site inspection and administer a tree work permit (Appendix D). Tree work permit recipients must follow the procedures as outlined in Section VI of these specifications.

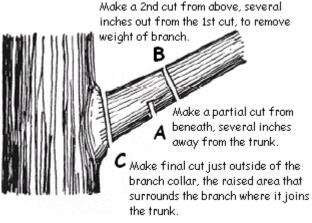


Figure 1

Tree City USA Bulletin #2

#### VII. PRUNING OPERATIONS

#### A. Section Pruning:

- 1. The City is divided into 10 management units. Trees will be pruned on the appropriate cycle (3 or 6 year) depending on age. All public trees are to be inspected at the time of pruning and appropriate maintenance will be performed if needed.
- 2. Vehicle and pedestrian traffic must be adequately warned and controlled during operations.
- 3. Trees found to be in unsafe condition and/or require major repair or maintenance are to be reported immediately to the City Forester.
- 4. All residents and pedestrians are to be treated with respect and courtesy at all times, regardless of conditions.
- 5. At the end of each working day, all limbs, branches, twigs, and debris shall be cleaned up before leaving work area.
- 6. No equipment shall be left at the work site overnight.
- 7. Report all unusual situations or conditions to the City Forester.
- 8. Update tree inventory.

#### B. Spot & Request Pruning:

- 1. Pruning for special purpose: Safety, light clearance, traffic clearance, building clearance, house moving, and construction. These are special assignments and should be handled as such.
- Whenever possible, contact with adjoining property owner should be made before work is assigned. Exceptions may include pruning for immediate public safety, storm damage or construction.
- 3. Homeowner requests for pruning will be inspected by the City Forester and appropriate maintenance will be scheduled at earliest available time.

#### **VIII. TREE PROTECTION**

- A. <u>Bridging, Tunneling, Drilling, Etc.</u>: The protection of trees shall involve bridging, tunneling, drilling or boring underneath the existing trees. The surface area directly adjacent to the tree shall not be disturbed under the following guidelines (where DBH = diameter at breast height):
  - 1. 3" DBH trees or less three feet on either side of tree with a minimum three foot depth
  - 2. 3" to 8" DBH trees six feet on either side of tree with a minimum three foot depth
  - 3. 8" to 14" DBH trees- eight feet on either side of tree with a three foot minimum depth
  - 4. 14" to 19" DBH trees ten feet on either side of tree with a three foot minimum depth
  - 5. 19" DBH trees + fifteen feet on either side of tree with a three foot minimum depth
- B. <u>Depositing Material Near Trees</u>: No person shall place and maintain upon the ground in a public street or right-of-way of the City of De Pere any soil, stone, cement, lumber, or other substance or material which shall impede the free passage of water and air to any tree or shrub without leaving an open space of ground outside of said tree or the base of said shrub of an area as is determined in Section A above. Before depositing any such materials near to trees or shrubs, the person so depositing said material shall place such guards around the trees and shrubs as shall effectively prevent injury to them.
- C. Moving of Buildings: The property owner shall notify the City Forester at least 48 hours in advance of moving any buildings. If any pruning is necessary as the building is being moved or if any plant material is required to be relocated, the City Forester will coordinate the activity and the property owner will incur the costs. Should such pruning or relocating cause the death of such plant material, the property owner shall replace the same at his/her expense.
- D. Root Care: Exposed tree roots shall be covered with backfill as soon as possible following curb and gutter removal. Torn, jagged or broken roots should be cleanly cut with approved root pruning equipment.

#### E. Sidewalk, Driveway, and Curb and Gutter Removal:

- 1. Caution should be used during removal to avoid any unnecessary damage to the tree or its root system.
- 2. Roots requiring removal shall not be cut by means of mechanical root cutting machines. If root removal is essential, roots shall be manually cut with sharp hand implements.
- Root systems on the sidewalk or driveway side of the tree shall be cut no deeper than 9 inches below the finished grade of the new walk and not more than 4 inches from the edge of the new walk or driveway.
- 4. Root systems on the curb side shall be cut not more than 4 inches behind the back of the new curb and not more than 21 inches in depth when constructing new curb and gutter.
- F. <u>Tree Replacement</u>: The City Forester may remove and replace, at the contractor's expense, any tree(s) and/or shrub(s) that has/have been excessively damaged due to construction activities.

#### G. Trunks and Lines:

- At least 48 hours before start of construction, the contractor shall contact the City Forester or engineer to discuss problems with overhanging branches that might be damaged in spite of his/her exercising care in construction.
- Tree trunks shall be enclosed with wood slats, rubber tires, or snow fence wired in place where contractor's operation may scar the trunk or compact the root zone of the tree. The contractor shall exercise care to assure tree trunks, limbs, and roots are not damaged by its operation.
- 3. Damage to branches of the trees due to contractor's negligence will be repaired by the City Forestry Division and may be billed to the contractor by the Parks, Recreation, and Forestry Department.

#### IX. DISEASE AND INSECT PROBLEMS

- A. <u>Dutch Elm Disease</u>: Dutch Elm Disease is caused by the fungus *Ceratocystis ulmi* attacking American elms by infecting the water carrying xylem vessels resulting in wilting and eventual death of the tree. Spread of this disease is either via root grafts or from overland spread via sap feeding elm bark beetles. Stopping the spread is virtually impossible; however, sanitation and removal of dead elms to try and prevent the spread where practical can limit or slow the spread of the disease. Wood from infected trees should either be debarked or destroyed to prevent further spread to new areas. Pruning of all American elms is prohibited in the City of De Pere from **April 1 to September 1**.
- B. <u>Gypsy Moth</u>: The gypsy moth is an exotic insect that feeds on leaves of trees and shrubs and can defoliate many species, most especially oaks. The City of De Pere has been monitoring their numbers and has worked with the WDNR to aerial spray *Bacillus thuringiensis kurstaki (Btk)* on high population areas since 2002. This is a cost share program in which the City is reimbursed a portion of the money spent in monitoring and spraying for the gypsy moth. This insect has become established in our area and we will need to continue to monitor and control pockets of higher populations for a long time. The Forestry Division also applies Golden Natural Pest Spray Oil to egg masses on public trees and burlaps those same trees during the caterpillar stage to aid in the control of the gypsy moth.
- C. <u>Oak Wilt</u>: The City of De Pere has an Oak Wilt Policy that imposes a ban on the pruning or wounding of any Oak trees growing within the City limits during the period from **April 1 to September 1**. This ban is necessary to prevent the further spread of Oak Wilt Disease, which can be spread by sap feeding Picnic Beetles.

D. <u>Emerald Ash Borer</u>: The Emerald Ash Borer (EAB) is an exotic beetle from Asia that has become established in a majority of the states east of the Mississippi and causes damage to all ash (*Fraxinus spp.*) trees. The larvae of the EAB feed in the cambium between the bark and the wood, producing galleries that eventually girdle the branches and/or trunk and in effect kill the tree. In July and October of 2016 the City identified our first cases of Emerald Ash Borer in De Pere. Research has shown that if an infestation breaks out within 15 miles of your property you may reasonably choose to treat your trees. There are numerous options available to you – you can treat yourself with various products (if your tree is less than about 47 inches in circumference [i.e., 15 inches in diameter at breast height (DBH)]) or you can have a professional treat your trees (for trees typically over that size). If you choose to do nothing, unfortunately the ash in your yard are likely to succumb to EAB.

#### X. NUISANCE TREES

- A. Nuisance Tree Policy: Governed by the City of De Pere Ordinance Chapter 78, Nuisances.
- B. Hazardous Tree Policy: See Section XI. Tree Removal Policy, subsection A. Reason for Removal.

#### XI. TREE REMOVAL POLICY

#### A. Reason For Removal:

- Trees located in the City right-of-way, parks, and other public properties are removed only when they are dead, dying, dangerous or condemned (due to insect, disease, storm damage, or construction). The City Forester will make a determination for removal based on a tree evaluation and/or examination from field crews. The cost of removal will be assumed by the City of De Pere.
- The City Forester will determine public trees that must be removed due to street reconstruction and the City of De Pere or that same reconstruction project funding shall assume cost of said removals.
- 3. Damage to any public tree that is determined, by the City Forester, to require removal may be assumed by and charged to the individual causing damage, if known.
- 4. Property owner requests for the removal of any public tree will be evaluated and a determination made by the City Forester and/or the Parks, Recreation & Forestry Director. The decision can also be appealed to the Board of Park Commissioners at the next regularly scheduled meeting.
- 5. The City Forester will determine the removal of any undesirable tree species.
- B. <u>Safety Standards</u>: All safety standards shall be in accordance of, but not limited to, ANSI Z133.1 Standards. Proper PPE shall be worn at all times while performing tree work.

#### C. Site:

- 1. Check location and description of tree on work order before starting removal.
- 2. Vehicle and pedestrian traffic must be adequately warned and controlled prior to and during removal operations according to the Work Zone Safety manual.
- 3. If both lanes of traffic are to be closed in the removal operations, the Public Works Director, Police, and Fire & Rescue must be notified prior to work commencing.
- 4. Note the locations of overhead power lines, utilities, homeowner obstructions, etc. and avoid or take necessary precautions to work around.
- 5. All residents and pedestrians are to be treated with respect and courtesy at all times, regardless of conditions.

#### D. Removal Procedure:

- 1. The tree shall be removed using the safest and most efficient arboricultural procedures.
- 2. All precautions shall be made to prevent damage to any public or private property. A walk around should be conducted before hand to determine any preexisting conditions, problems

- or concerns. Any damage that occurs should be reported to the City Forester immediately.
- 3. To avoid damage to property below, any limb that cannot be appropriately controlled while being cut off shall have a rope or ropes attached.
- 4. No equipment shall be left at the work site overnight.
- 5. Climbing spikes or spurs may be used **only** during the removal of a tree.

#### E. Clean Up:

- 1. At the end of each working day, all limbs, branches, twigs, and debris shall be cleaned up before leaving work area.
- 2. Any wood generated from the removal process can be offered to the property owner at the location where the tree is being removed providing:
  - a. The wood is placed off of the right-of-way.
  - b. The City employee is not to perform extra work for said property owner (i.e. cutting wood into firewood size pieces, stacking wood, etc.)
- 3. If the property owner does not want the wood, then any wood remaining shall be hauled to the City of De Pere compost site prior to the end of the following day, unless circumstances dictate removal on that same day. Large, oversized wood will be hauled on the day of the removal. All wood to be transported, unless in an enclosed box, shall be tied or strapped down to prevent movement.
- 4. At no time is wood to be left in the street or right-of-way without safety cones.
- 5. Report all unusual situations or conditions to the City Forester as soon as possible.

#### XII. STUMP REMOVAL PROGRAM

The City of De Pere's stump removal program consists of removal of stumps where trees were formally standing on the street right-of-way, in City Parks or on other public property within the City.

A. <u>Underground Utilities</u>: Diggers Hotline shall be contacted at least 3 days prior to any stump grinding operations.

#### B. Stump Removal Operations:

- 1. This operation will be performed by qualified City of De Pere employees or will be contracted out to a professional service.
- 2. All precautions shall be made to limit flying debris and damaging private property.
- 3. All stumps are to be removed completely or to a depth of 18", whichever is reached first.
- 4. All surface roots and mounded turf shall be ground down to final grade for a 10' radius around the stump.
- 5. Any stump grindings and holes that are not immediately cleaned up should be barricaded or coned to alert vehicles and pedestrians of a hazardous situation.

#### C. Stump Clean Up Operations:

- 1. All of the debris generated from stump grinding operations located outside of hole and at least ½ of the debris in the hole shall be removed from the site.
- 2. Topsoil is placed in hole and graded to a finish grade.
- 3. Initial seeding of the area is to be done by the City and it is the responsibility of the property owner to water and establish the grass in these locations.

#### XIII. STREET TREE EVALUATION AND ASSESSMENT PLAN

Street trees are recommended, at a minimum, to have an annual inspection to evaluate their condition regarding public safety. Inspections can often identify repairable problems that left unchecked could lead to tree decline or failure. Inspecting will be accomplished during regular Forestry maintenance operations, during a windshield survey by the City Forester and as a walking survey in areas of increased risk. This will be done on a yearly basis. The documentation will be both a page indicating all City trees were inspected and a list detailing each street that may require closer inspection. The

documentation will be signed and dated by inspecting personnel and supervisor. The age, species, and condition of a tree or trees may deem them necessary to provide more frequent inspections.

#### XV. INTER DEPARTMENTAL COORDINATION AND COOPERATION

- A. Due to the complex nature and often conflicting interrelationships between living plants such as trees, shrubs and turf; and public improvements such as streets, sidewalks and underground facilities; it is recognized that there is a need to manage both plants and improvements in a manner that will minimize conflict and maximize the benefits to be realized from each.
- B. Therefore, it is hereby declared to be the intent of the City of De Pere, Wisconsin that there shall exist at all times, a policy of open communication and coordination between the various departments and divisions of city government regarding the management, installation and maintenance of the plants or improvements for which they are each responsible.

# CITY OF DE PERE TREE PLANTING PERMIT APPLICATION

As required by Ordinance # 30-8

A planting permit is required before planting any tree within the City Right-of Way. This is the area from the curb to the back of the sidewalk (or where the sidewalk would be). The location of the sidewalk can often be seen in the driveways. If you are unsure please contact the City Forester.

The City Forester MUST approve tree species and location prior to any planting in the City right-of-way.

Site Address:	
Name of Applicant:	
Street Address:	
City-State-Zip:	Phone:
Estimated date of planting	
Species of tree(s) to be planted (choose from	m recommended street trees on back page).
* * * * * * * * * * * * * * * * * * * *	e. number of feet from property line or driveway, left or ted ½ the distance from the curb to the street side of the ace that is three feet or less in width.
	ace found in Coetion III)
_	nes found in Section III)
Diameter (caliper) at 6" above the grou	and line of the tree(s) to be planted. (1.25"-3")
Signature of Applicant:	Date

PLEASE RETURN TO: CITY OF DE PERE

Attn: City Forester 925 S. Sixth Street De Pere, WI 54115

#### **GUIDELINES:** (keep for your records)

- ❖ There are tree restrictions! Please see "Recommended and Banned Street Tree Planting Lists", Appendix E & F in the Standards and Specifications.
- ❖ Trees must be single stem form. No multi-stem specimens will be allowed.
- Species selection should be based on surrounding space, soil type and microenvironment.
- Minimum Clearances:
  - o 30' in either direction from the street intersection
  - o 20' from a streetlight
  - o 10' from a driveway or carriage walk
  - o 10' from a fire hydrant
  - o 15' from manholes in terrace
  - o 10' from underground utility valves and t's
  - o 5' from adjacent property lines
  - o 25' from an approaching sign (front of sign)
  - o 10' from a non-approach sign (back side of sign)
- ❖ All trees shall be planted in the center of the terrace, ½ the distance between the curb and the street side of the sidewalk (or where the sidewalk would be).
- ❖ The City Forester will mark the planting location with a wooden stake or a paint mark in the terrace.
- ❖ Minimum caliper size is 1.25" at 6" above the root collar.
- Trees shall be planted with root collar at grade; contact City Forester for proper tree planting procedures.
- Trees shall be mulched to a depth of 2 4" and a diameter of 5' with wood mulch following planting. Mulch shall not be mounded around the tree trunk.
- ❖ If trees need to be staked for stability please contact the City Forester.
- ❖ Plastic trunk protectors can be obtained from the City free of charge for street trees.
- Obtain a "post planting care" informational handout from the City Forester following tree planting.
- ❖ Trees become the property of the City of De Pere following planting and will be maintained by the City for the life of the tree.

Before you dig please call Diggers Hotline 1-800-242-8511

## Appendix B

## CITY OF DE PERE RIGHT-OF-WAY PLANTING PERMIT

As required by Ordinanco	e # 30-8	Permit No	•	
Site Address:				
Name of Applicant:				
Street Address:				
City-State-Zip:				
Approved:				
	·			
		ng		
	Tree Caliper	inches		
		- David		
	Allowable Plantin From	g Period to	20	
	110111			
Denied:	Reason for Denial	:		
If work is not completed planting permit must be o		anting period, and plan	ting is still desired, ar	nother
City Forester		Da	te	

#### Appendix C

## CITY OF DE PERE TREE WORK PERMIT APPLICATION

As required by Ordinance #30-8

A permit is required before removing, maintaining or protecting any tree within the City Right-of Way or parkland areas. A City ROW is typically the area from the curb to the back of the sidewalk (or where the sidewalk would be). The location of the sidewalk can often be seen in the driveways. If you are unsure please contact the City Forester.

The City Forester MUST approve tree removal, maintenance or protection prior to any work in the City right-of-way.

Site Address:	
Name of Applicant:	
Street Address:	
City-State-Zip:	Phone:
Estimated date of work:	
Location of proposed work (if different from above):	:
Briefly describe the proposed work to be done (attack	h any blueprints):
Work to be done by whom:	
Signature of Applicant:	Date

PLEASE RETURN TO: CITY OF DE PERE

Attn: City Forester 925 S. Sixth Street De Pere, WI 54115

## Appendix D

## CITY OF DE PERE WORK PERMIT

As required by Ordinance	e # 30-8	Permit No	)
Site Address:			
Name of Applicant:			
Street Address:			
City-State-Zip:		Phone:	
Approved:	-	nd Nature of Allowable V	
	Location of W	ork	
		mments, Directions or Re	
	Allowable Wo	rk Period to	20
Denied:	Reason for Dea	nial:	
If work is not completed be obtained.	within this allowable	e period and is still desired	d, another work permit must
City Forester		Da	nte

## Appendix E

#### Recommended Street Tree Planting List

(Other cultivars/varieties may be acceptable upon City Forester approval)

## $\underline{SMALL\ TREES\ (30'\ Maximum\ Height)}\ - Acceptable\ trees\ for\ terraces\ w/overhead\ power\ lines\ and/or\ if\ terraces$ is 3-5 feet wide. These can be planted in wider terraces.

Scientific Name	Common Name	Cultivars
Acer ginnala	Amur Maple (Tree Form)	
Acer platenoides	Norway Maple	'Crimson Sentry', 'Globosum'
Acer tataricum	Tartarian Maple	
Amalanchier canadensis	Serviceberry	'Autumn Brilliance'
Carpinus caroliniana	American	
	Hornbeam/Musclewood	
Crataegus crusgalli var.	Cockspur Thornless Hawthorn	
inermis		
Ginkgo biloba	Ginkgo (male)	'Saratoga'
Maackia amurensis	Amur Maackia	
Malus spp.	Flowering Crab	'Bob White', 'David', 'Sugar Tyme', 'Prairiefire',
		'Snowdrift', 'Spring Snow', (other
		cultivars/varieties upon approval)
Ostrya virginiana	Ironwood	
Prunus cerasifera	Newport Plum	
Prunus nigra	Princess Kay Plum	'Princess Kay'
Prunus virginiana	Canada Red Chokecherry	'Canada Red'
Syringa pekinensis	Peking Tree Lilac	'China Snow', 'Summer Charm'
Syringa reticulata	Japanese Tree Lilac	'Ivory Silk', 'Summer Snow'

## <u>MEDIUM TREES (30' - 45' Maximum Height)</u> - Acceptable trees for terraces that are 5-6 feet wide. These can be planted in wider terraces if desired. Some species may also be acceptable under power lines.

Acer platenoides	Norway maple	'Cleveland', 'Columnar', 'Crimson King', 'Royal
		Red'
Acer truncatum x platanoides	Shantung Hybrid Maple	'Norwegian Sunset', 'Pacific Sunset'
Corylus colurna	Turkish Filbert	
Phellodendron amurense	Amur Cork Tree	'Macho', 'Shademaster'
Pyrus calleryana	Callery Pear	'Aristocrat', 'Autumn Blaze', 'Bradford', 'Cleveland
	-	Select', 'Chanticleer', 'Red Spire'
Sorbus alnifolia	Korean Mountain Ash	_

#### <u>LARGE TREES (50' Minimum Height)</u> - Acceptable trees for terraces of 6 feet and wider.

Acer x freemanii Freeman Maple 'Armstrong', 'Autumn Blaze', 'Celebration',

'Marmo', 'Sienna Glen'

Acer miyabei State Street Maple 'State Street'

Acer platenoides Norway Maple 'Crystal', 'Deborah', 'Emerald Lustre', 'Emerald

Queen', 'Schwedleri', 'Superform'

Acer sacccharum Sugar Maple 'Green Mountain', 'Fairview', 'Goldspire',

'Legacy'

Aesculus hippocastanum Horsechestnut 'Baumannii', 'Ruby Red'
Celtis occidentalis Hackberry 'Prairie Pride', 'Windy City'

Cercidiphyllum japonicum Katsuratree

Eucommia ulmoides Hardy Rubber Tree
Fraxinus mandshurica Manchurian Ash

Ginkgo biloba Ginkgo (male) 'Autumn Gold', 'Magyar', 'Princeton Sentry'
Gleditsia triacanthos Thornless Honeylocust 'Imperial', 'Moraine', 'Shademaster', 'Skyline',

'Sunburst'

'Mancana'

Gymnocladus dioicus Kentucky coffeetree 'Espresso', 'Prairie Titan'

Liriodendron tulipifera Tuliptree

Tilia americana American Linden 'Redmond', 'Sentry'

Tilia cordata Littleleaf Linden 'Fairview', 'Glenleven', 'Greenspire', 'Prestige'

Tilia tomentosa Silver Linden 'Sterling Silver'

Ulmus x Hybrid Elm 'Accolade', 'Frontier', 'Homestead', 'New

Horizon', 'Pioneer', 'Prospector', 'Regal',

'Triumph', 'Valley Forge'

## **Banned Street Tree Planting List**

#### Nuisance Species - banned from planting in the right-of-way

Scientific Name	Common Name	Reason
	All Evergreen & Coniferous	Obstruct visibility
	Species	
Acer negundo	Boxelder	Weak wooded, attracts boxelder bug
Salix spp.	All Willow Species	Weak wooded, diseased foliage
Juglans nigra	Black Walnut	Undesirable and large fruit
Populus spp.	Cottonwood, Poplar	Weak wooded, heaves pavement, heavy seed crop
Ginkgo biloba	Ginkgo (female)	Messy and smelly fruit
Robinia pseudoacacia	Black Locust	Weak wooded, thorns, spread from root suckers

#### Undesirable Species – unacceptable for planting in the right-of-way

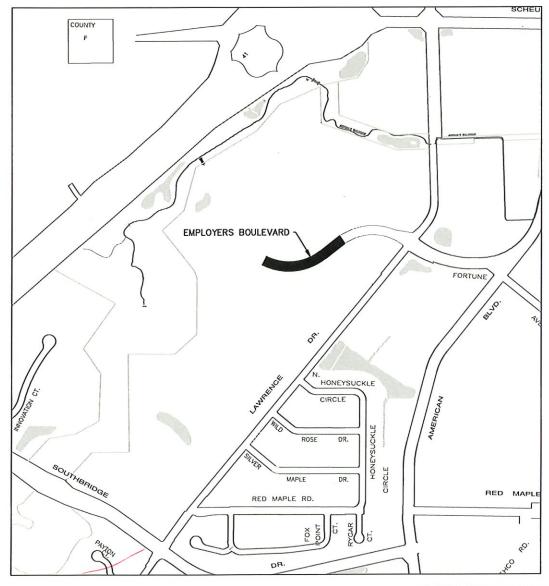
<u>Scientific Name</u>	Common Name	<u>Reason</u>
Acer rubrum	Red Maple	Intolerant of alkaline soils
Acer saccharinum	Silver Maple	Weak wooded, heaves pavement, heavy seed crop
Betula spp	Birch	Susceptible to insect & disease, intolerant of
		disturbed sites, iron chlorosis
Carya spp.	Hickory	Littering fruit
Catalpa spp.	Catalpa	Littering fruit
Malus spp.	Common Apple	Fruit tree
Morus spp.	Mulberry	Littering fruit
Prunus serotina	Black Cherry	Fruit tree
Prunus spp.	Garden Plum, Cherry	Fruit tree
Pyrus communis	Common Pear	Fruit tree
Quercus species	Oak	Undesirable acorn crops
Sorbus americana	American Mountain Ash	Susceptible to disease & fungal rot, heavy fruit set
Sorbus aucuparia	European Mountain Ash	Susceptible to disease & fungal rot, heavy fruit set
Ulmus parvifolia	Chinese Elm	Weak wooded
Ulmus pumila	Siberian Elm	Weak wooded

# PROJECT 25-11 REDEVELOPMENT STREET AND UTILITY CONSTRUCTION

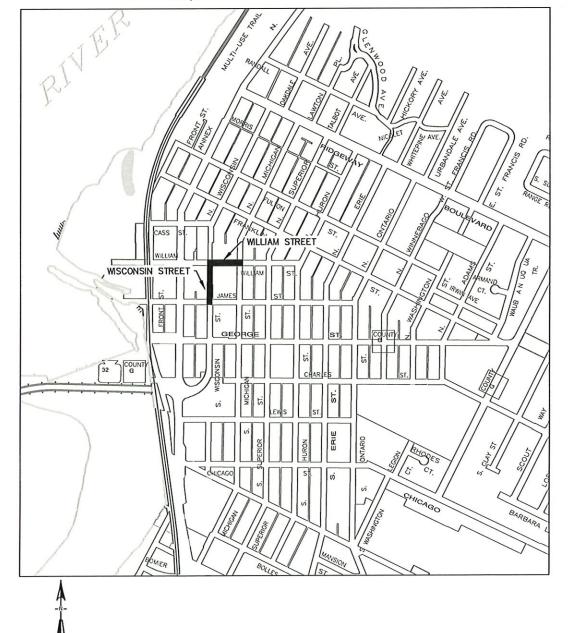
**CITY OF DE PERE** 



925 S. SIXTH ST DE PERE, WI 54115





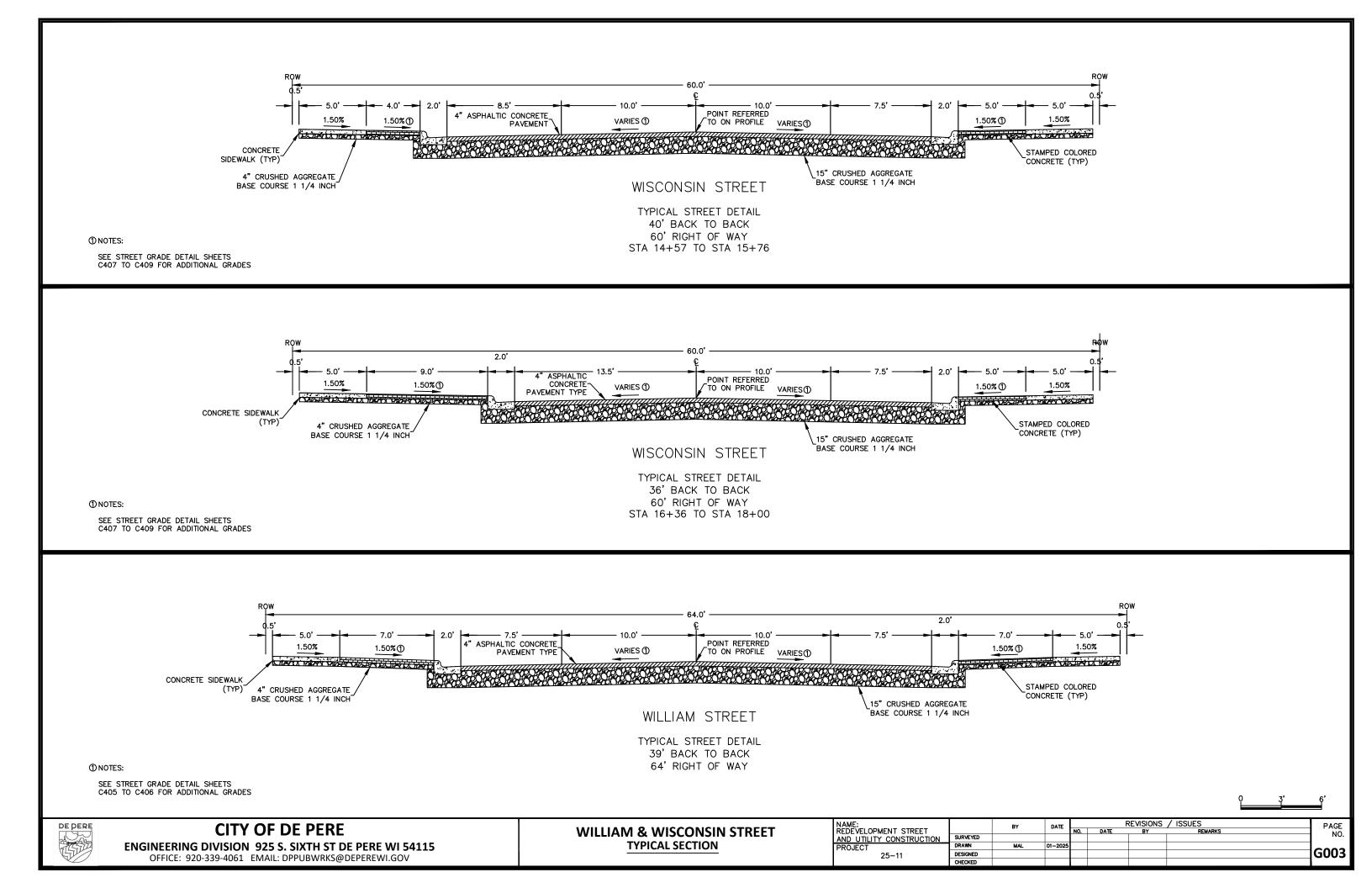


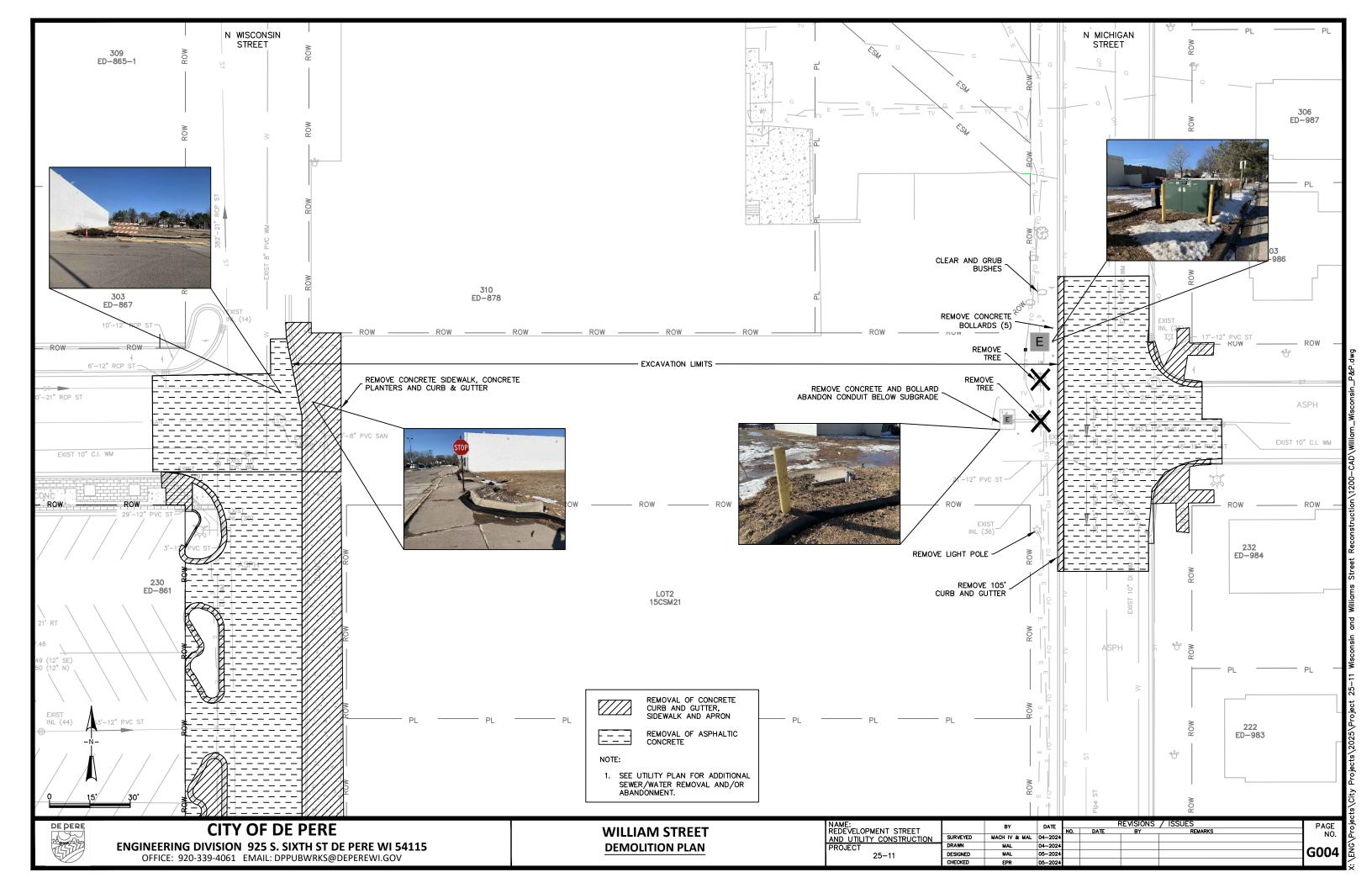
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SHEET NO.	DESCRIPTION					
G001	TITLE SHEET					
G002	STANDARD ABBREVIATION & SYMBOLS					
G003	TYPICAL SECTION					
G004 - G005	DEMOLITION PLANS					
G006	PHASING PLAN					
C101 - C102	SANITARY AND WATER PLAN AND PROFILE SHEETS					
C103 - C104	STORM AND STREET PLAN AND PROFILE SHEETS					
C105 - C106	CURB FLANGE PLAN AND PROFILE SHEETS					
C107 - C108	EMPLOYERS BLVD PLAN AND PROFILE SHEETS					
C301 - C303	CROSS SECTIONS					
C401	PAVEMENT MARKINGS, ALIGNMENT, & BENCHMARK PLAN					
C402 - C403	TRAFFIC AND EROSION CONTROL PLAN					
C404	PAVEMENT SURFACE AND RESTORATION PLAN					
C405 - C409	WILLIAM/WISCONSIN STREET GRADES DETAILS					
C410 - C411	INTERSECTION AND RAMP DETAILS					
C501 - C503	CONSTRUCTION DETAILS					
E101 - E102	STREET LIGHTING AND TREE PLAN					
E501 - E503	ELECTRICAL CONSTRUCTION DETAILS					
	CITY OF DE PERE					
	BOARD OF PUBLIC WORKS					
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	STAMPS:					
	ERIC P. RAKERS E-30929 GREEN BAY,					

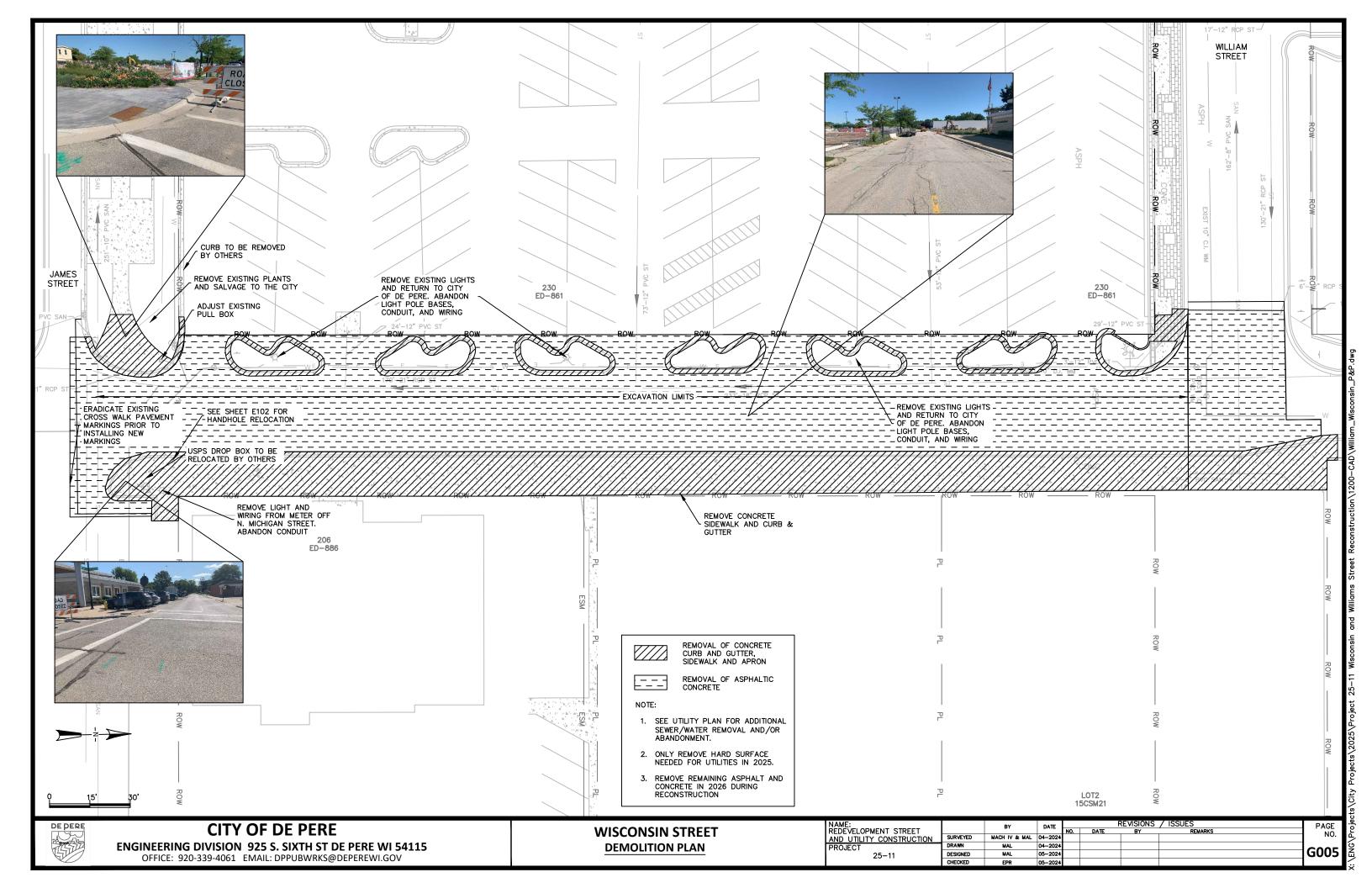
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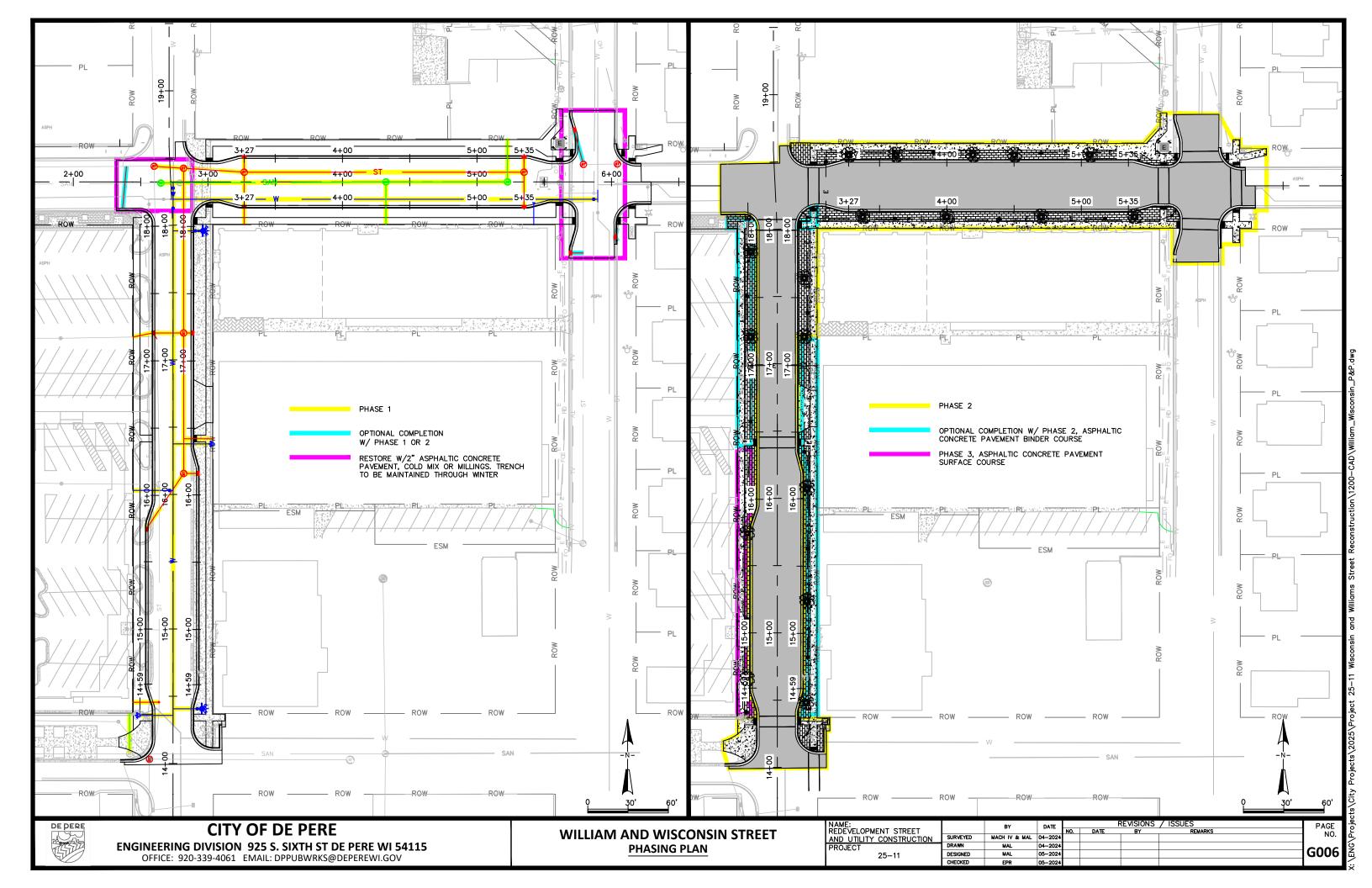
#### LIST OF STANDARD ABBREVIATIONS MAPPING & TOPOGRAPHY SYMBOLOGY MAPPING & TOPOGRAPHY SYMBOLOGY DESCRIPTION DESCRIPTION SYMBOL SYMBOL AVERAGE DAILY TRAFFIC AGGR AGGREGATE **EXISTING** PROPOSED PLAN NORTHBOUND AHFAD **BENCHMARK** ASPH **ASPHALT** NORMAL CROWN (SIZE AND MATERIAL) BACK TO BACK NORTHEAST B/B RUSH EXISTING SANITARY SEWER LINE NO NTS NUMBER 100'-8" PVC SAN NOT TO SCALE BACK OF CURB CATCH BASIN/INLET PROPOSED SANITARY SEWER LINE **BACK** OD PC PCC OUTSIDE DIAMETER BASELINE сту CABLE TV BOX (SIZE AND MATERIAL) POINT OF CURVATURE **BOULEVARD** EXISTING STORM SEWER LINE POINT OF COMPOUND CURVE BL DG **BUILDING** ◬ CONTROL POINT BENCHMARK PORTLAND CEMENT CONCRETE 100'-8" PVC STM PED PLE PEDESTAL BACK OF SIDEWALK E ELECTRICAL BOX PROPOSED STORM SEWER LINE ST PERMANENT LIMITED EASEMENT BSM1 **BASEMENT** PAVEMENT EROSION CONTROL - INLET (SIZE AND MATERIAL) PΕ PRIVATE ENTRANCE EXISTING WATER MAIN LINE Č&G CURB AND GUTTER CENTER TO CENTER POINT OF INTERSECTION FIBER OPTIC PEDESTAL 100'-8" PVC WM (TEE-BEND) PL PROPERTY LINE CRUSHED AGGREGATE BASE COURSE PROPOSED WATER MAIN LINE POC POINT OF CURVE CATCH BASIN FIELD INLET POT POINT ON TANGENT CE CONSTRUCTION ENTRANCE CAST IRON PIPE PP POLYETHYLENE GV EXISTING ELECTRICAL LINE GAS VALVE PRC POINT OF REVERSE CURVATURE CENTERLINE CORRUGATED METAL PIPE **GUY WIRE** EXISTING GAS MAIN LINE PROPOSED PROTECTIVE ROOT ZONE PROP CNTY COUNTY PRZ CLEANOUT $\Box$ HEDGE POUND PER SQUARE INCH PSI PT CONCRETE EXISTING TELEPHONE LINE POINT OF TANGENCY CONSTRUCTION CONSTR **HYDRANT** CONSTRUCTION JOINT PVC POLYVINYL CHLORIDE CONSTR J1 RANGE OR RADIUS EXISTING CABLE TV LINE IRON PIPE CONTROL POINT REBAR REINFORCEMENT BAR CTH COUNTY TRUNK HIGHWAY $\dot{\alpha}$ LIGHTPOLE EXISTING SANITARY LATERAL REL RFI OCATE CTRL CONTROL JOINT REM REMAINING MAILBOX MBI REQD REQUIRED CUBIC YARD EXISTING WATER SERVICE REFERENCE LINE RIGHT OF WAY DEPTH RL ROW (E) MANHOLE ELECTRIC DIAMETER RIGHT OF WAY ROW REFERENCE POINT DUCTILE IRON PIPE (SS) SS MANHOLE SANITARY RAILROAD RR DISCH DISCHARGE PROPERTY LINE RT RW RIGHT (ST) - PL (ST) DRIVEWAY MANHOLE STORM RETAINING WALL EAST (SEE ELEC BELOW) EASEMENT - FSM MONTORING WELL MW SALV SALVAGE **EASTBOUND** EXCAVATION BELOW SUBGRADE SAN SANITARY 9 LANDSCAPE FENCE 0 POWER POLE **FRS** SOUTHBOUND **ELEVATION** SILT FENCE EROSION CONTROL **ELEC** ELECTRIC (E WHEN USED IN LINE STYLE) SIGN SOUTHEAST EMBANKMENT SOLIARE FEET SOIL BORING - FO **FNTR ENTRANCE ⊕**(B−#) EXISTING FIBER OPTIC SHOULDER EDGE OF PAVEMENT SQUARE YARD STUMP \_ \_\_ \_ 615 · \_\_ \_ SS SANITARY SEWER EXISTING MAJOR CONTOUR **EXCAVATION** ST STREET ( ST WHEN USED FOR STORM TELEPHONE MANHOLE (el) EXIS<sub>1</sub> **EXISTING** SEWER LINE) \_\_ 612 -\_ \_ \_ FILL EXISTING MINOR CONTOUR STA TEL STATION TELEPHONE PEDESTAL FACE TO FACE STD STANDARD - 615 -**FOUNDATION** PROPOSED MAJOR CONTOUR STATE HIGHWAY TRUNK FIELD ENTRANCE STM STRUCT STORM TREE **FFRT** FFRTII IZFR **—** 612 **—** STRUCTURE OR STRUCTURAL PROPOSED MINOR CONTOUR FINISHED GRADE SOUTHWEST WELL (W) TAN TANGENT EXISTING OVERHEAD UTILITY FIBER OPTIC FRONT OF SIDEWALK TELEPHONE LINE FOW WATER SERVICE VALVE TEL TELEPHONE FOOT **PROFILE TEMPORARY** FOOTING 08 $\bigcirc$ BUTTERFLY WATER VALVE TEMPORARY LIMITED EASEMENT (SIZE AND MATERIAL) EXISTING SANITARY SEWER LINE TOC GAS VALVE TOP OF CURB $\otimes$ $\otimes$ WATER VALVE TOP OF WATER TOW TRANS TRANSITION HIGH DENSITY POLYETHYLENE TYP UG TYPICAL 100'-8" PVC SAN @ 0.40% HANDICAP RAME PROPOSED SANITARY SEWER LINE UNDERGROUND HSE HOUSE USH US HIGHWAY **GENERAL CONSTRUCTION NOTES:** VC VERT VERTICAL CURVE HYD **HYDRANT** VFRTICAL ALL ELEVATIONS ARE REFERENCED TO NAVD 88. INTERSECTION ANGLE EXISTING STORM SEWER LINE (SIZE AND MATERIAL) VOL VPC VPI VPRC VOLUME INSIDE DIAMETER VERTICAL POINT OF CURVATURE VERTICAL POINT OF INTERSECTION VERTICAL POINT OF REVERSE CURVE THE WORK UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE CITY OF DE PERE, CURRENT CONSTRUCTION SPECIFICATIONS AND INI FT THESE SPECIAL PROVISIONS AND PLANS, AND THE LATEST ADDITION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARDS PROPOSED STORM SEWER LINE 100'-8" PVC STM @ 1.0% INTERS INTERSECTION VERTICAL POINT OF TANGENCY SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION WEST (W WHEN USED FOR WATER LINE) IRON PIPE OR PIN SPECIFICATIONS, LATEST EDITION, WHERE REFERENCED IN THE CITY LENGTH (OF CURVE) WM WATERMAIN SPECIFICATIONS EXISTING WATER MAIN LINE (SIZE AND MATERIAL) LONG CHORD OF CURVE WATER SHUTOFF VALVE WSO LIGHTPOLE WATER VALVE ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO LIFT STATION OR LUMP SUM CONSTRUCTION AND SHALL CONFIRM TO THE WISCONSIN DEPARTMENT PROPOSE 8" PVC WM PROPOSED WATER MAIN LINE OF NATURAL RESOURCES CONSTRUCTION SITE EROSION CONTROL AND MAINTENANCE MAINT TECHNICAL STANDARDS. MATERIAL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE MANHOLE PATCH SYMBOLS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT MARKER POST CRUSHED AGGREGATE BASE COURSE LOCATIONS AND ELEVATIONS OF ALL UTILITIES. WHETHER SHOWN OR ASPHALTIC CONCRETE PAVEMENT NOT, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES OWNERS SHALL BE NOTIFIED BY THE CONTRACTOR 72 HOURS PRIOR TO EXCAVATION. 44 3 PORTLAND CEMENT CONCRETE NAME: REDEVELOPMENT STREET AND UTILITY CONSTRUCTION PROJECT REVISIONS / ISSUES DE PERE **CITY OF DE PERE** DATE PAGE NO. STANDARD ABBREVIATIONS SURVEYED **ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115** DRAWN G002 AND SYMBOLS DESIGNED

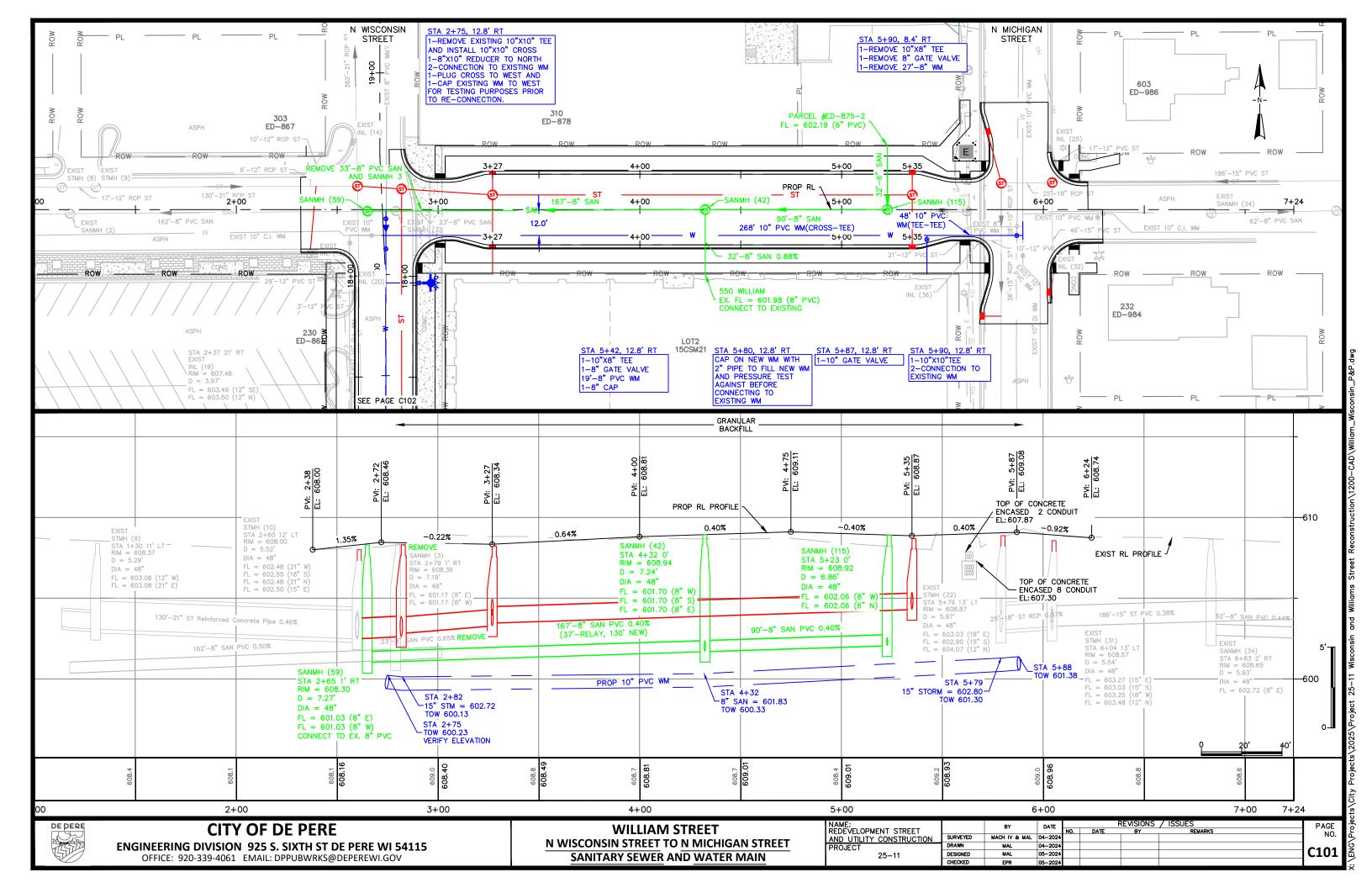
OFFICE 920-339-4060 FAX 920-339-4071

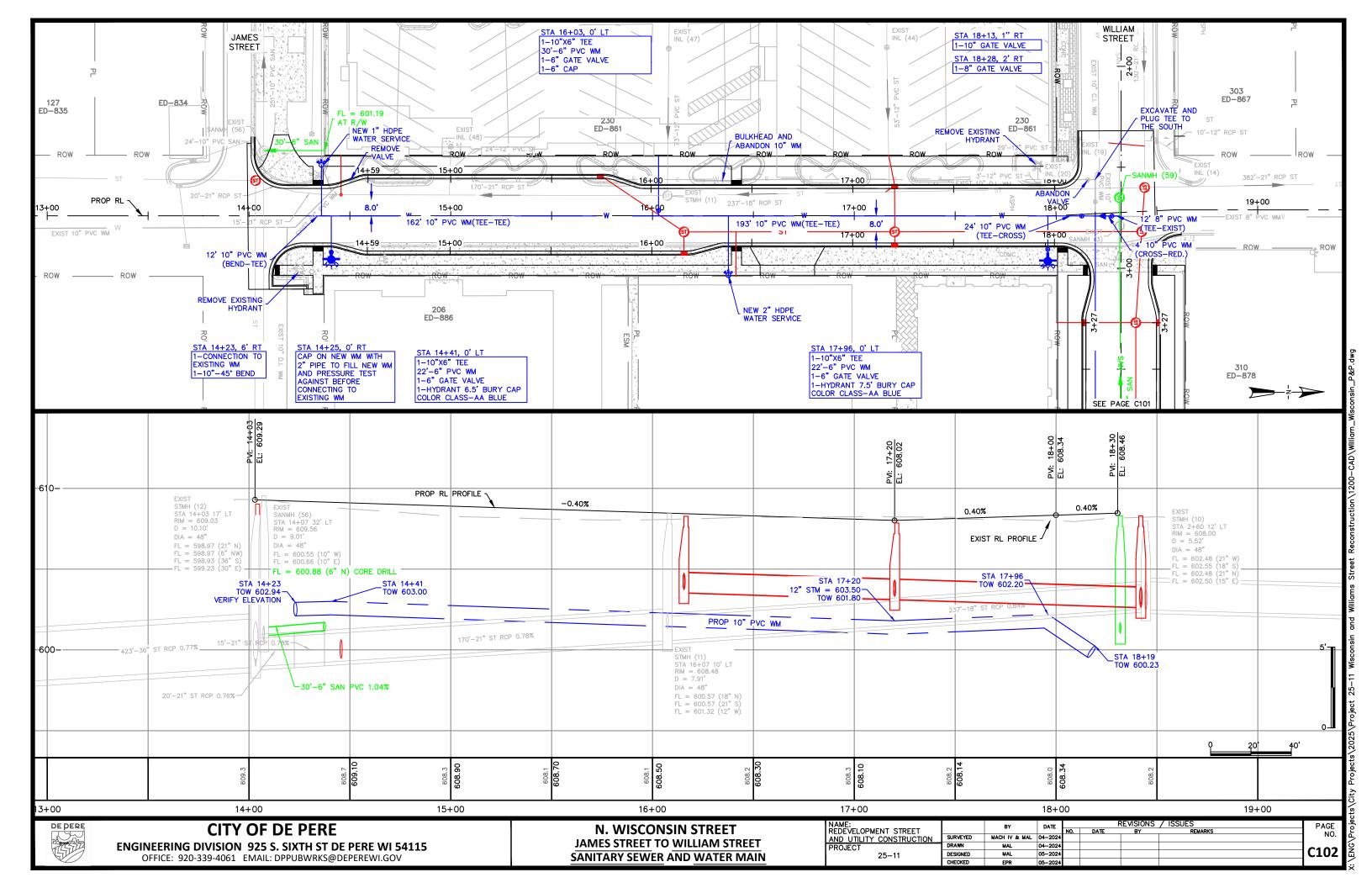


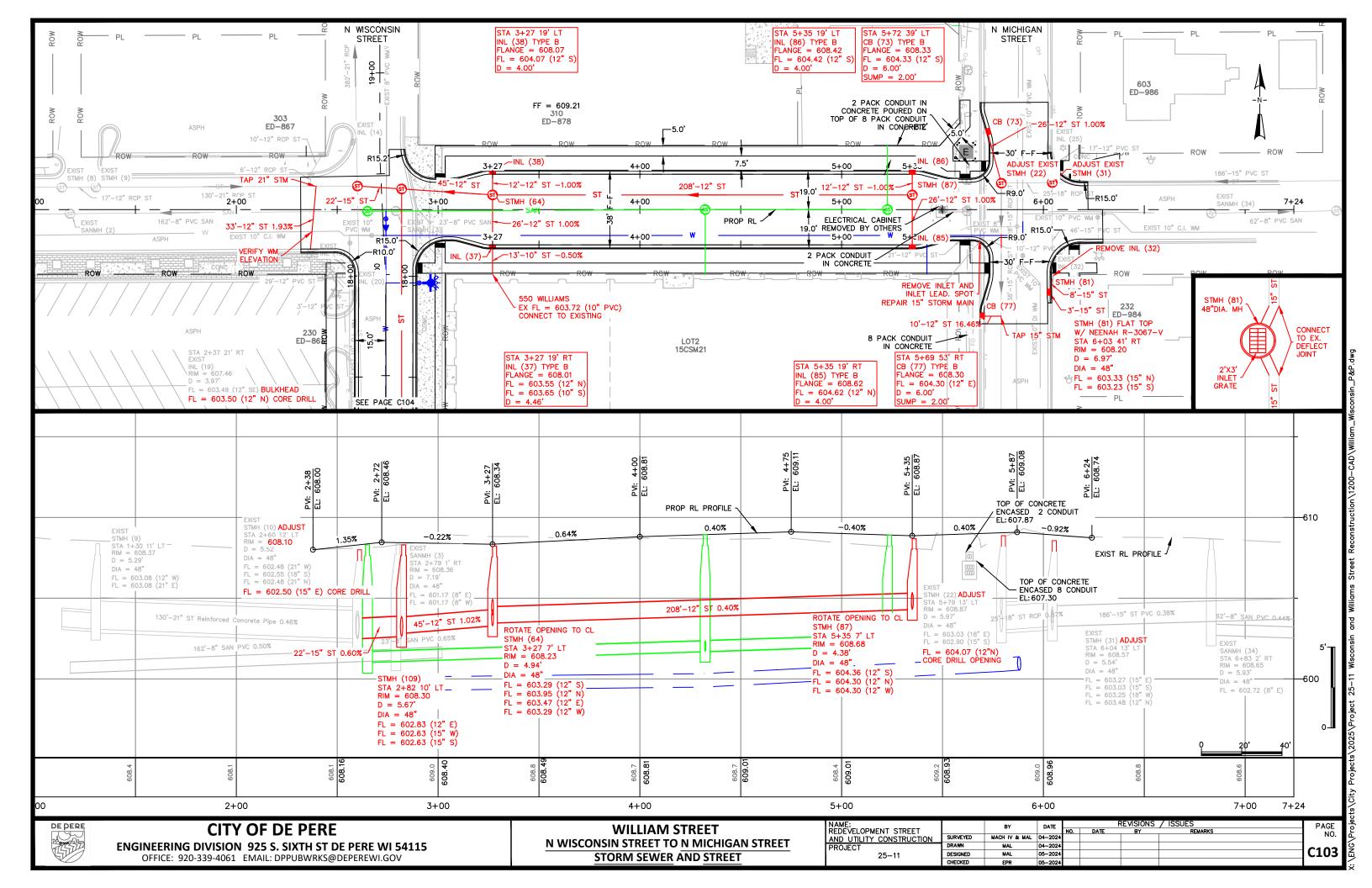


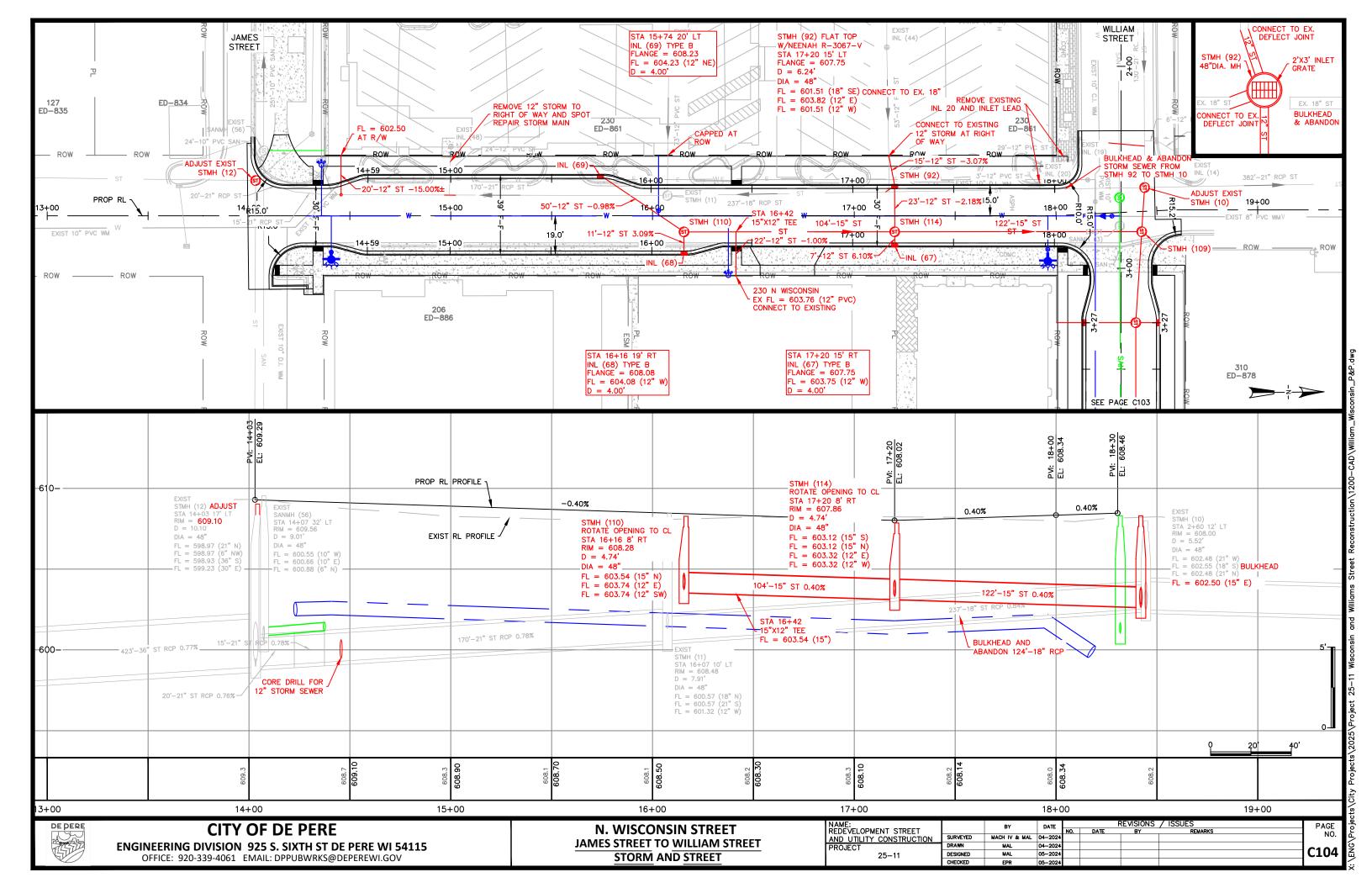


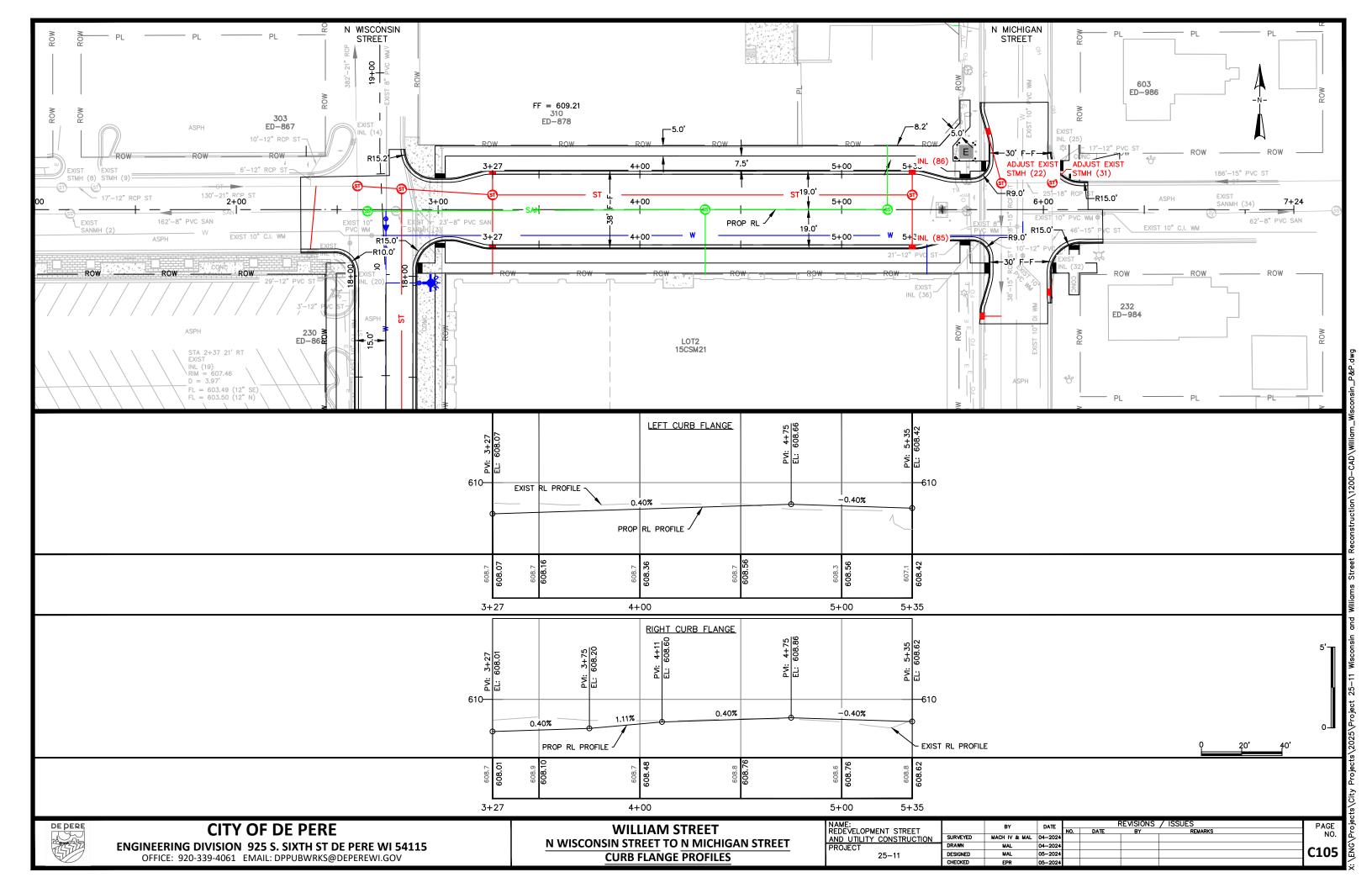


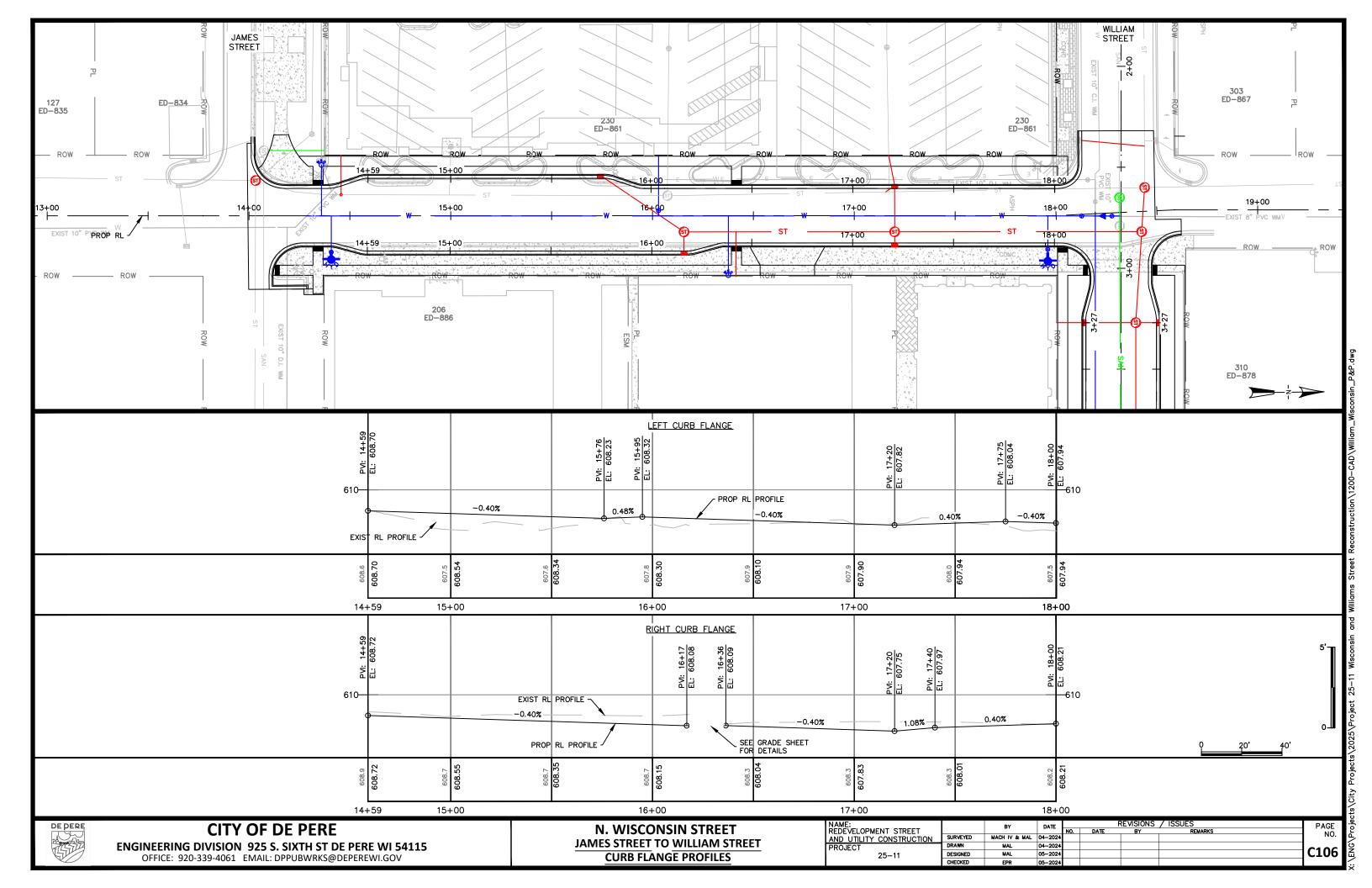


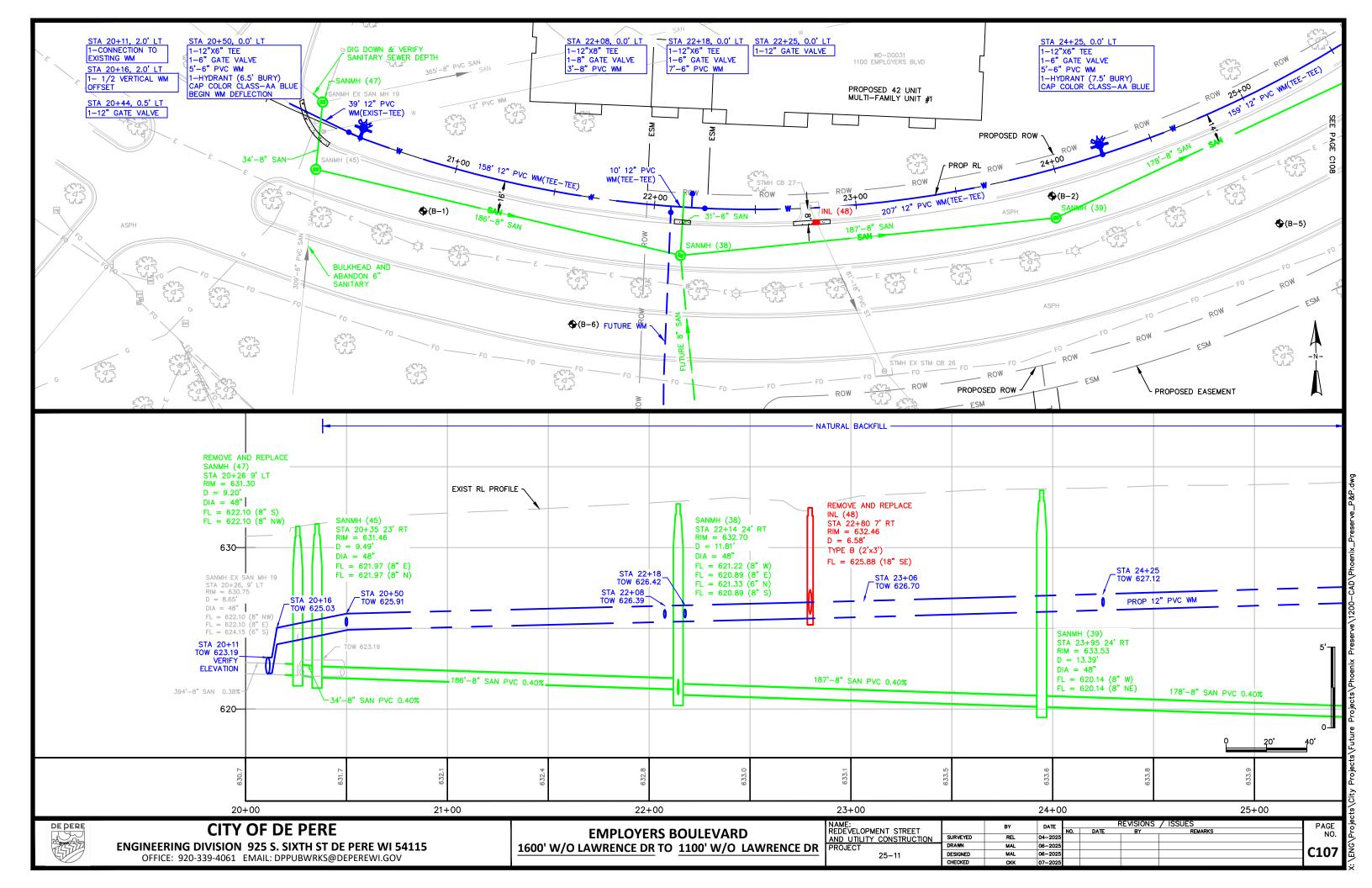


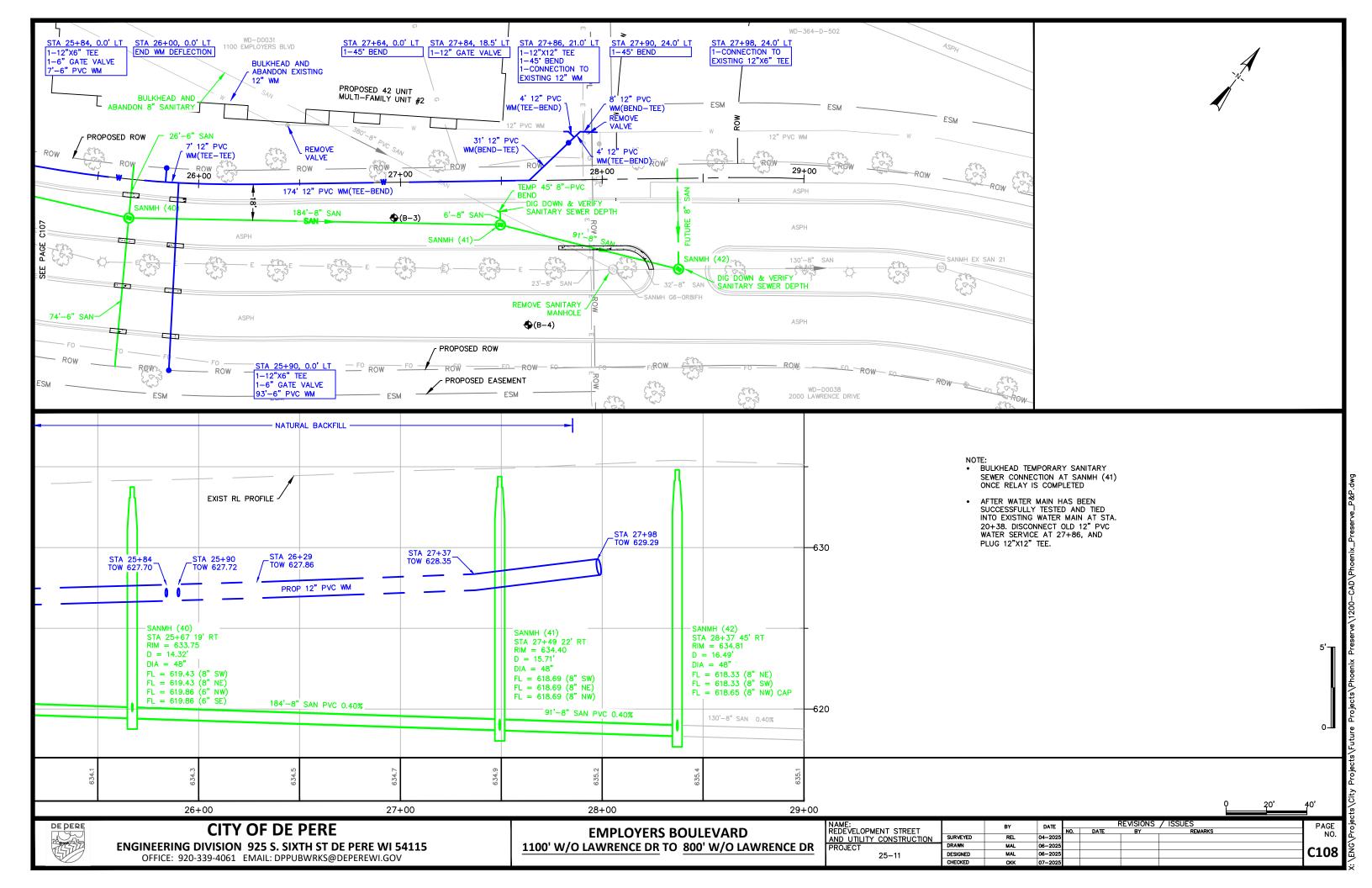


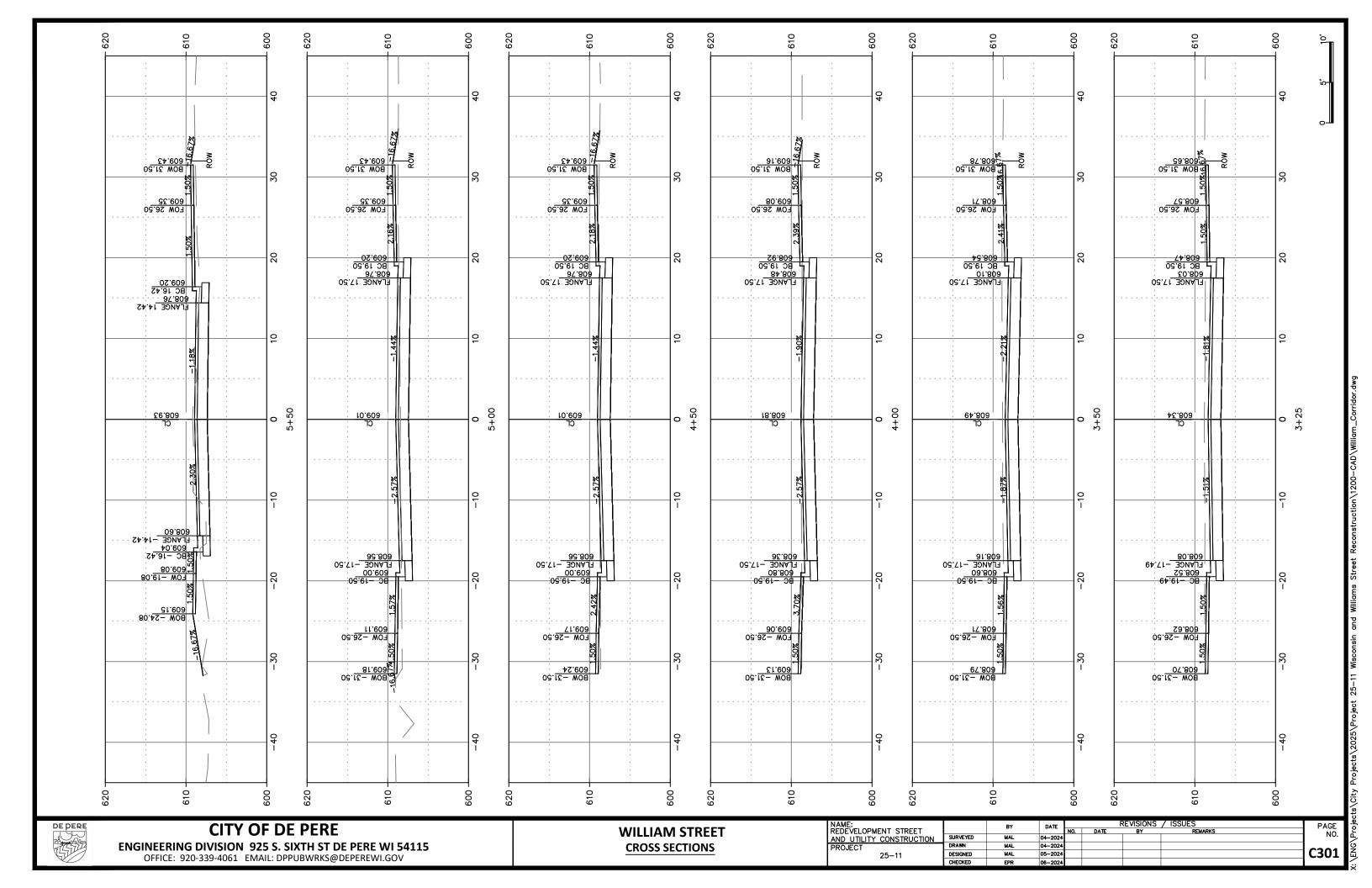


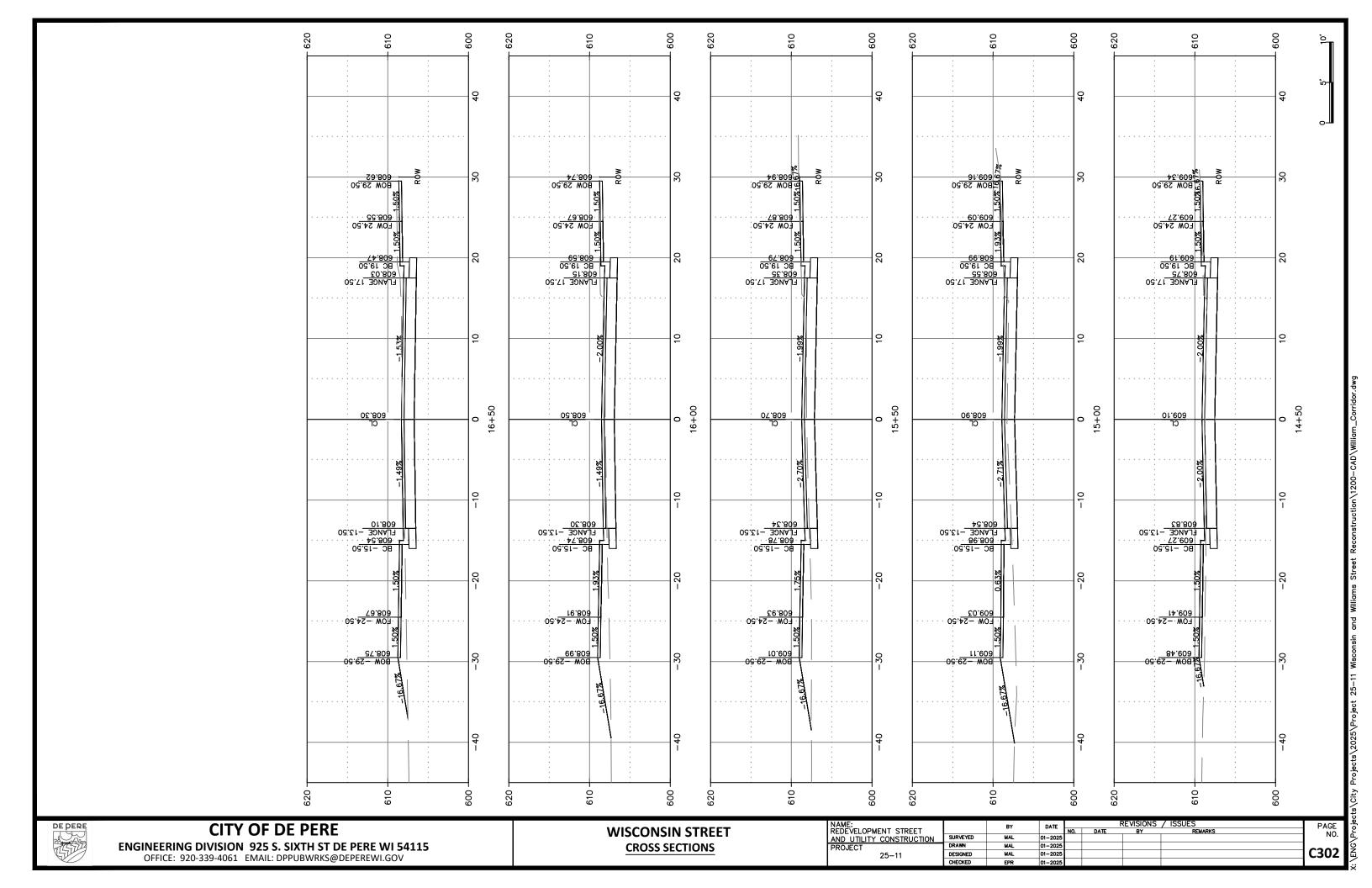


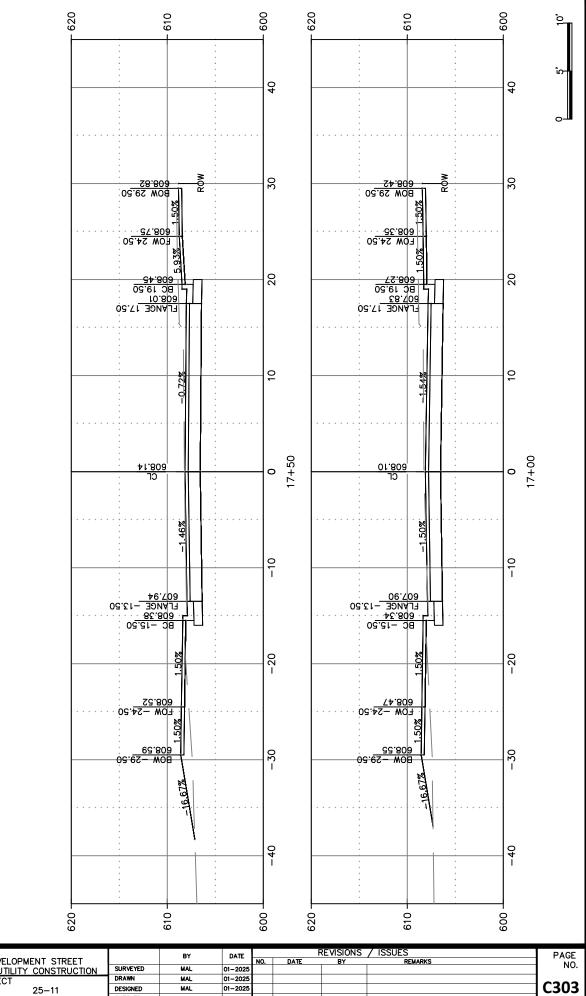










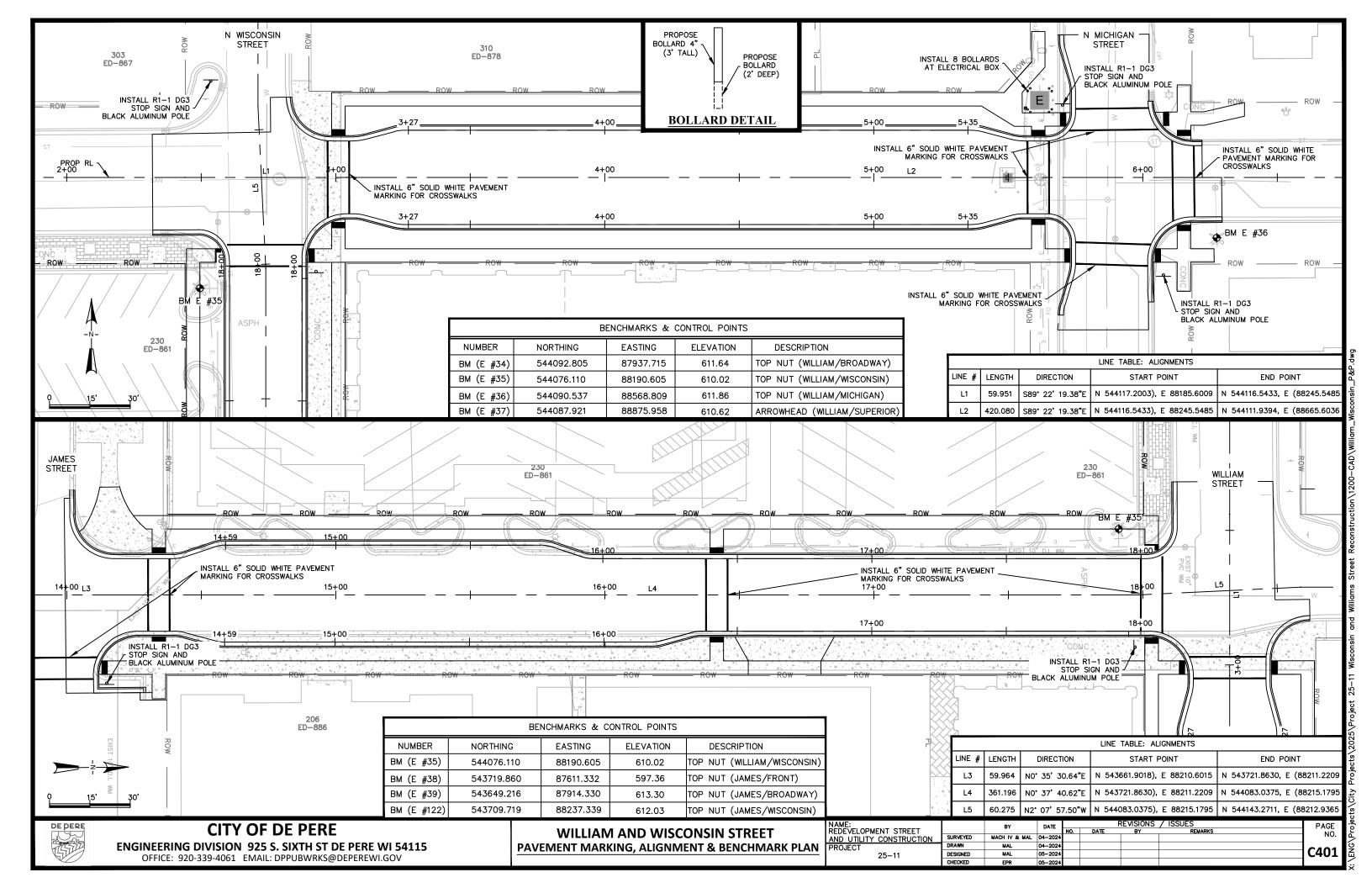


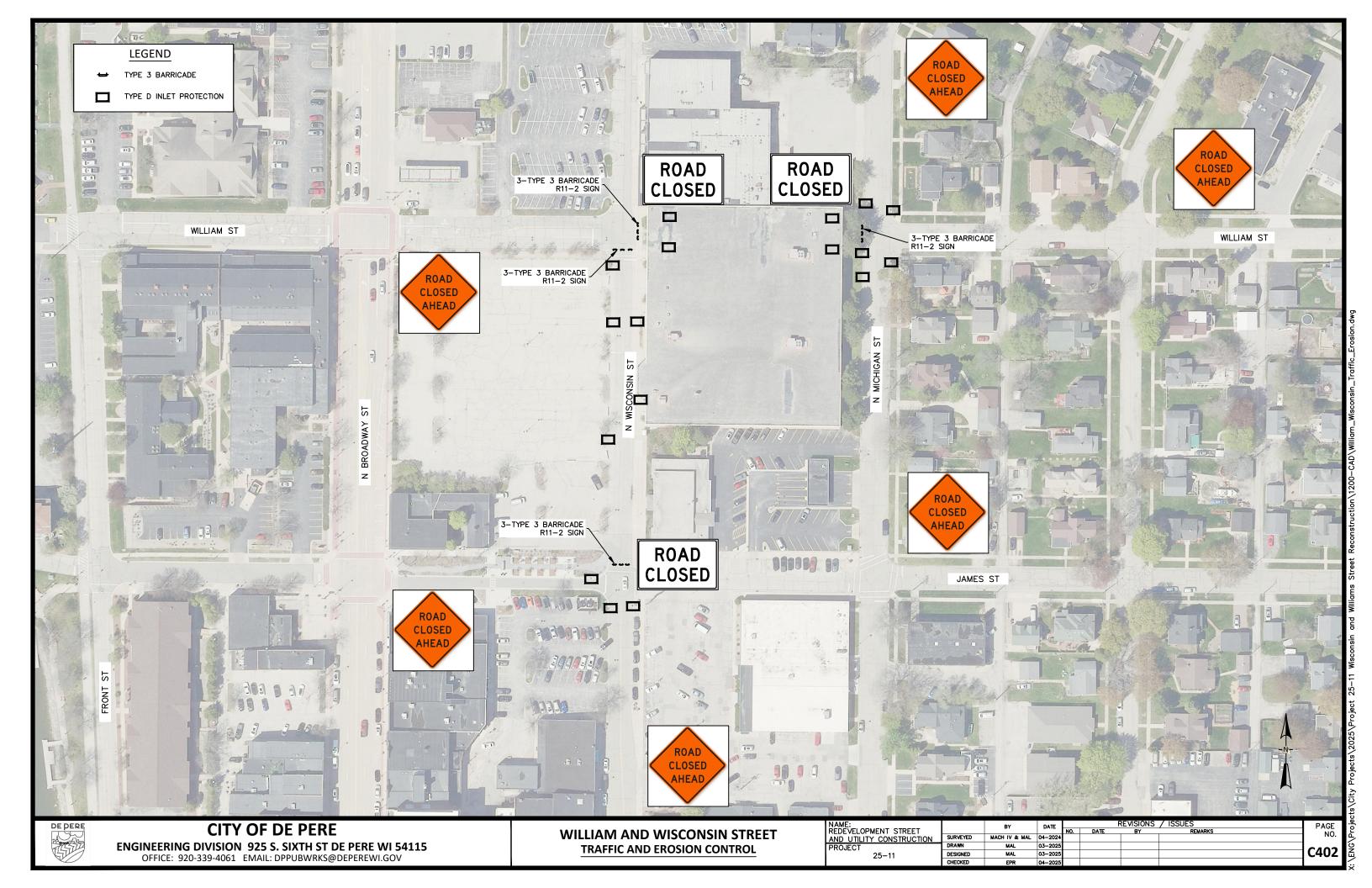
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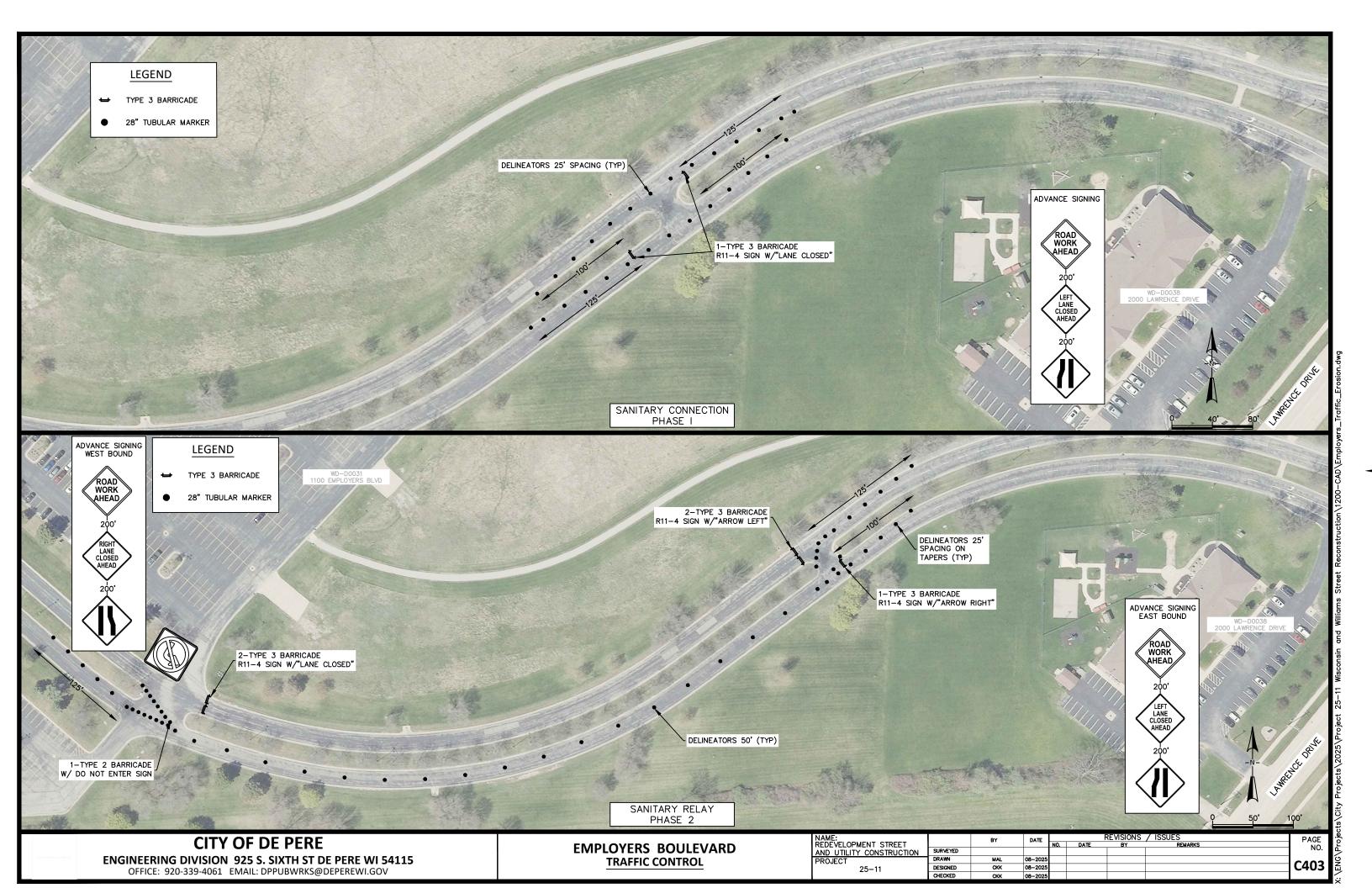
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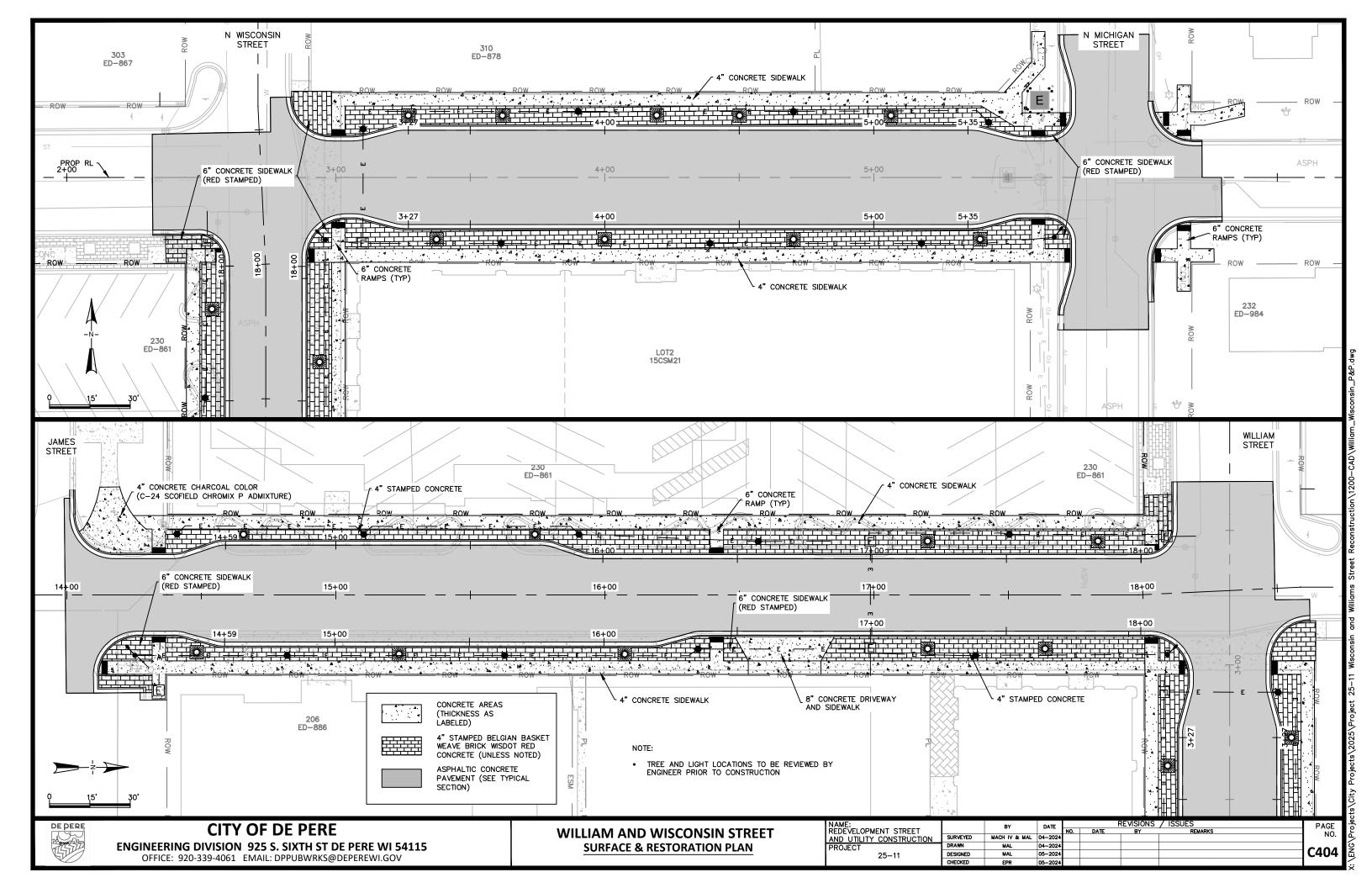
**WISCONSIN STREET CROSS SECTIONS** 

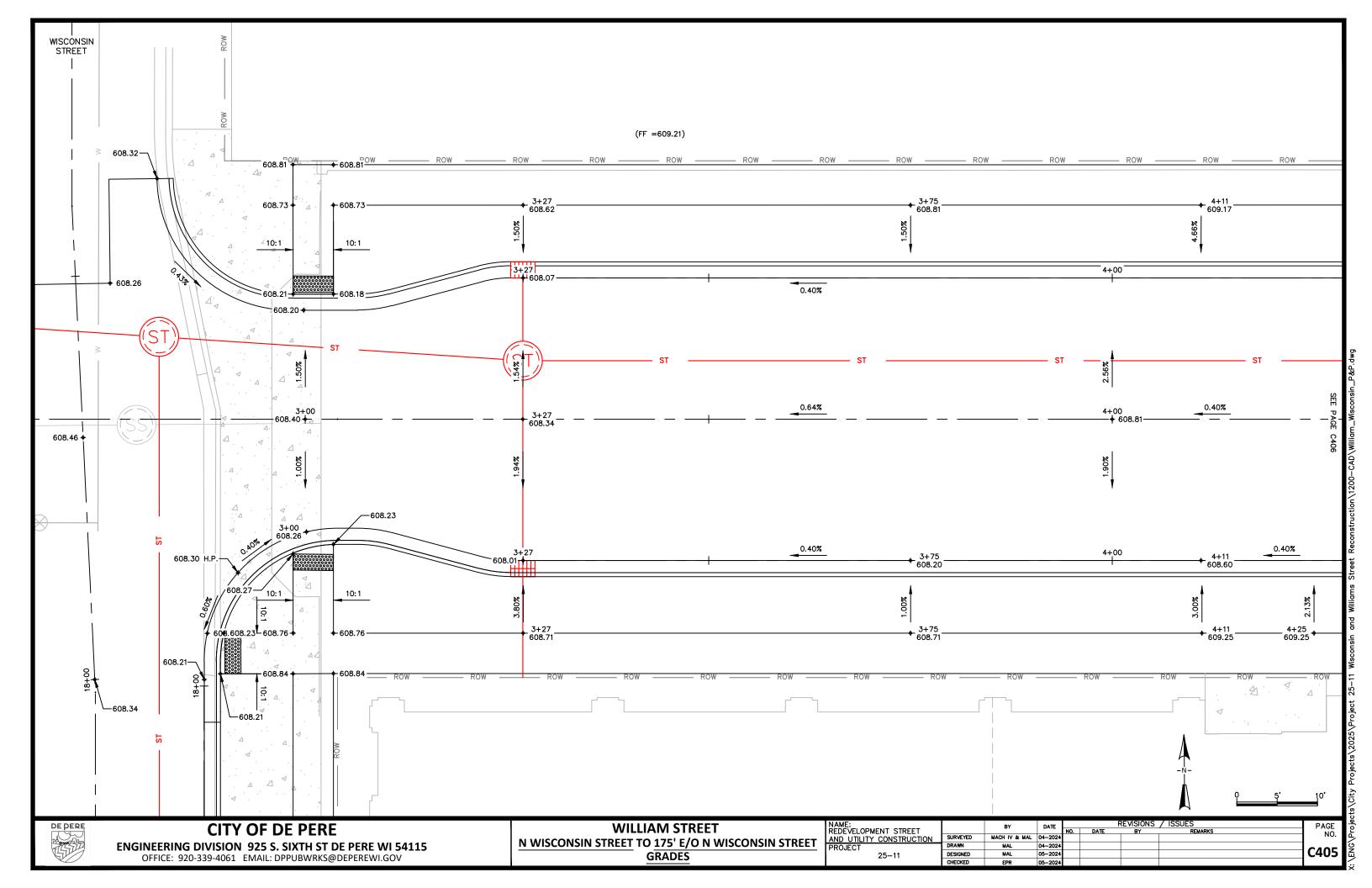
NAME: REDEVELOPMENT STREET AND UTILITY CONSTRUCTION PROJECT 01-2025 01-2025 MAL

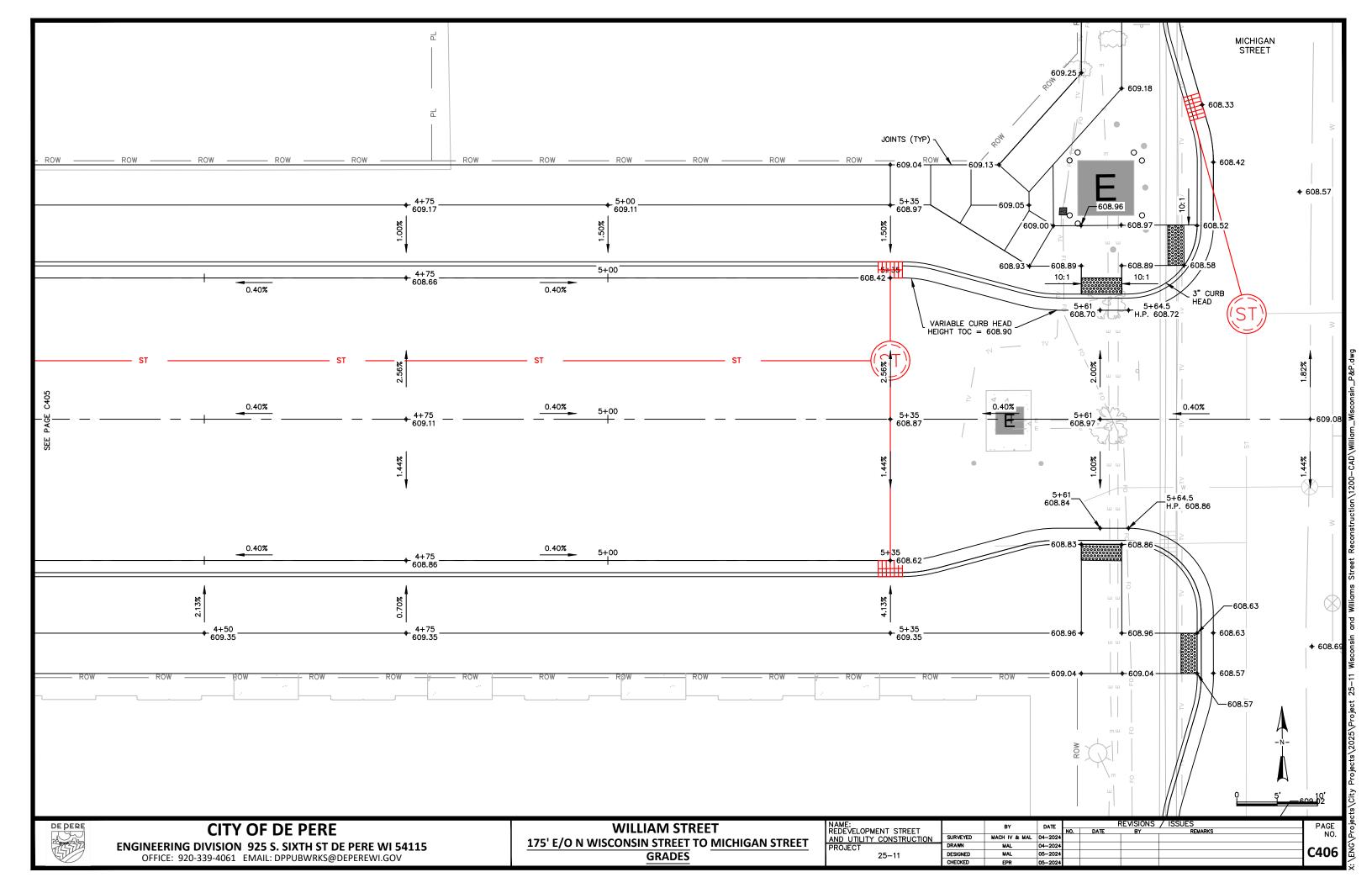


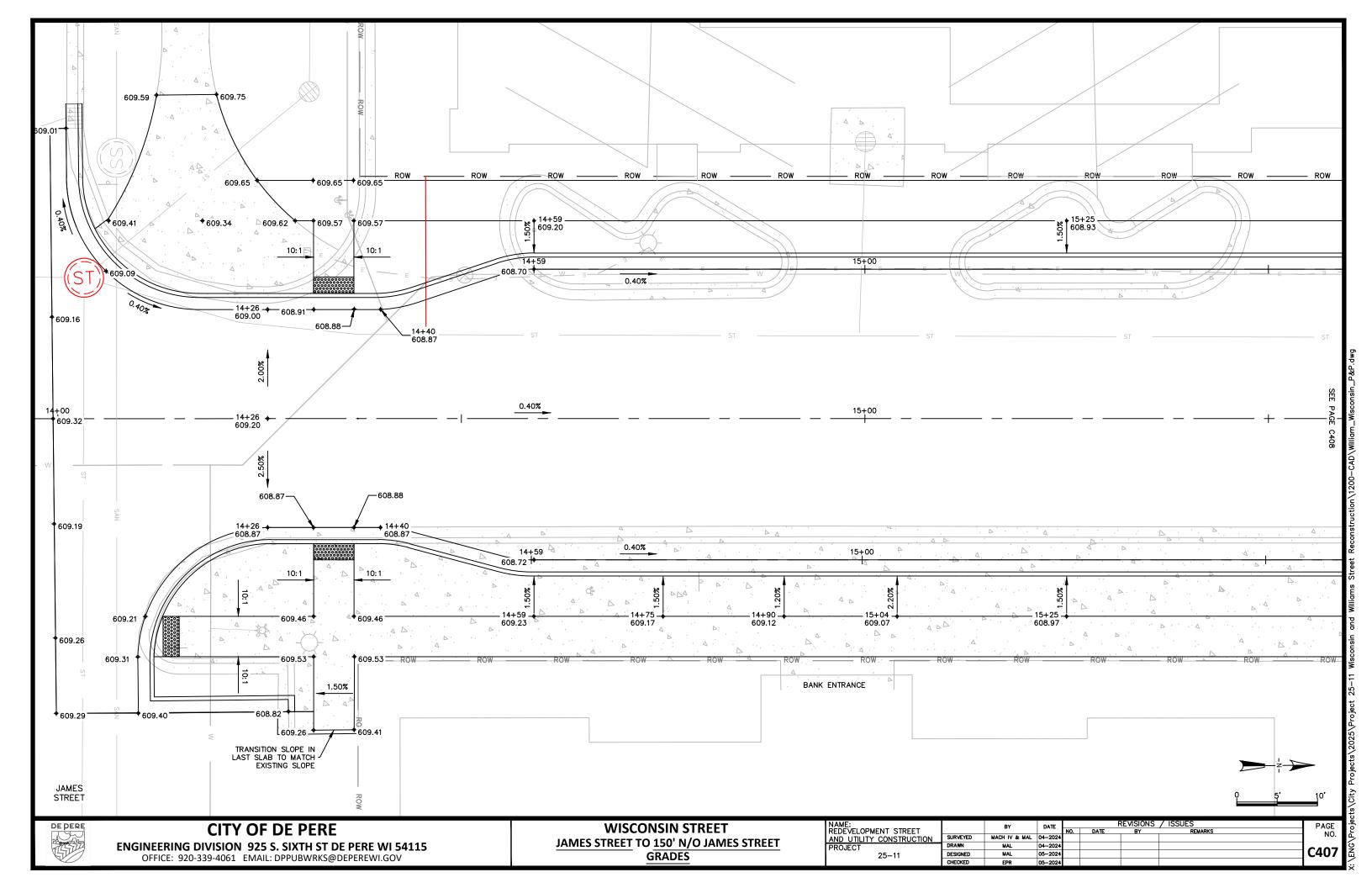


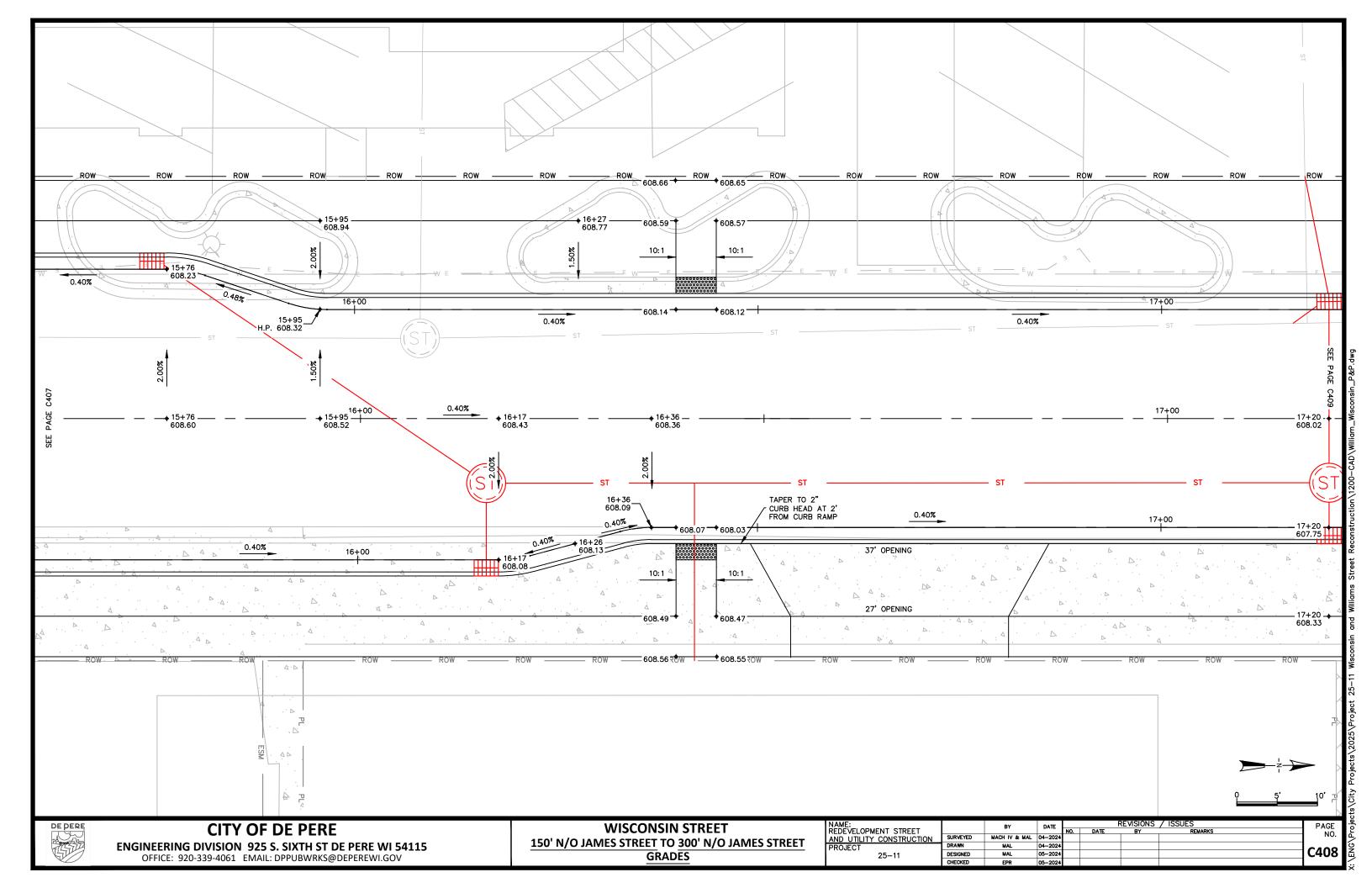


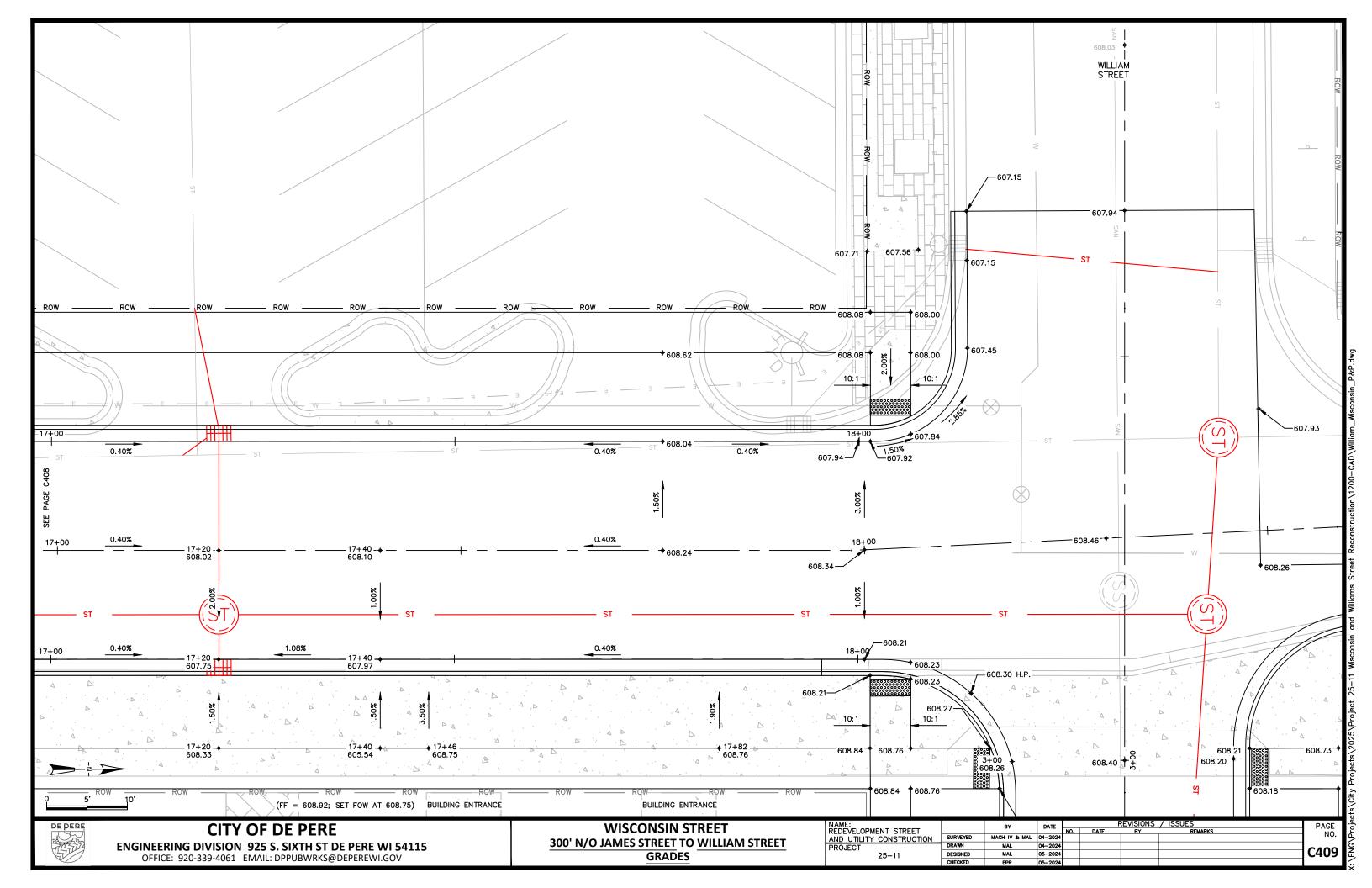


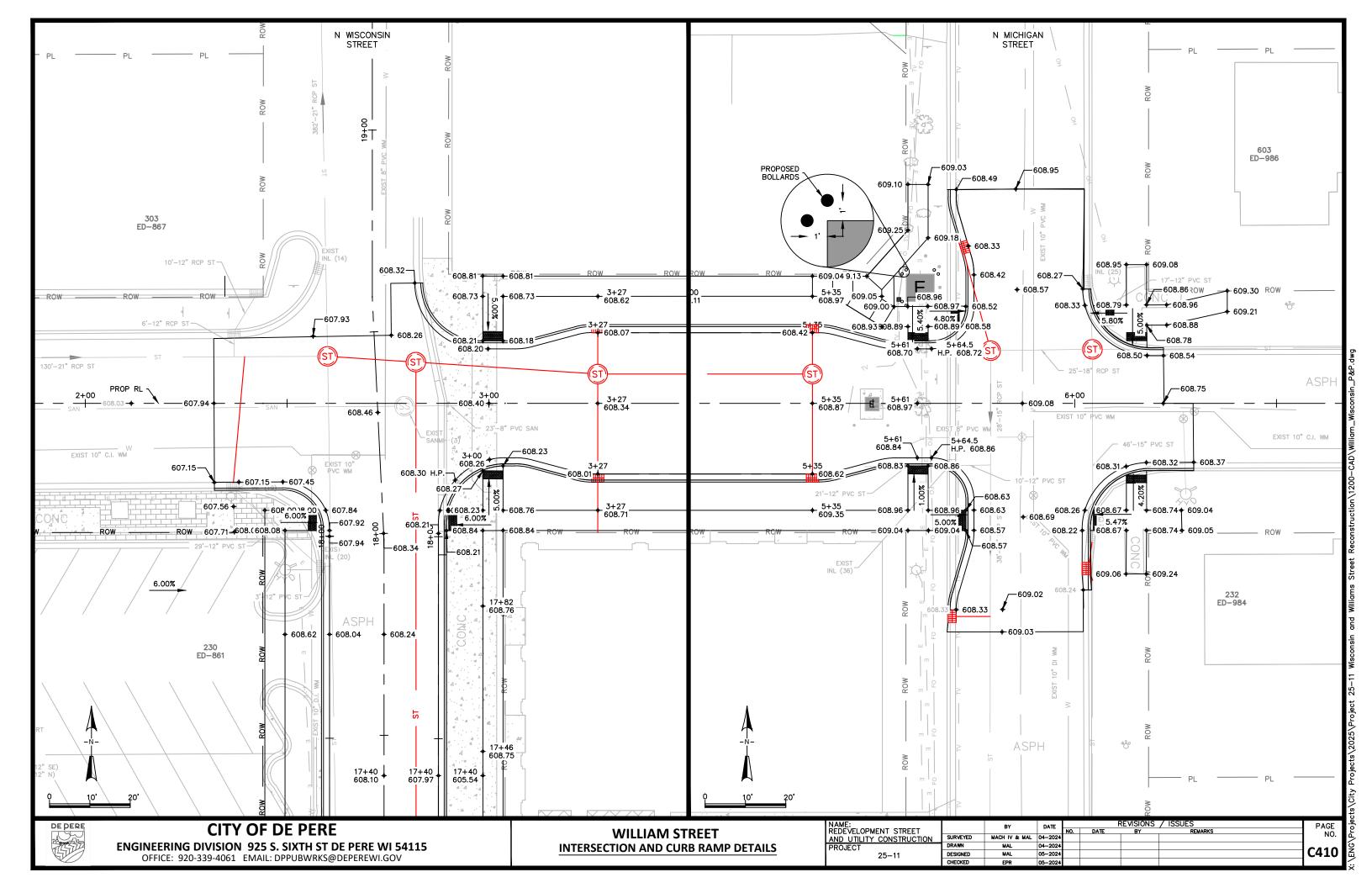


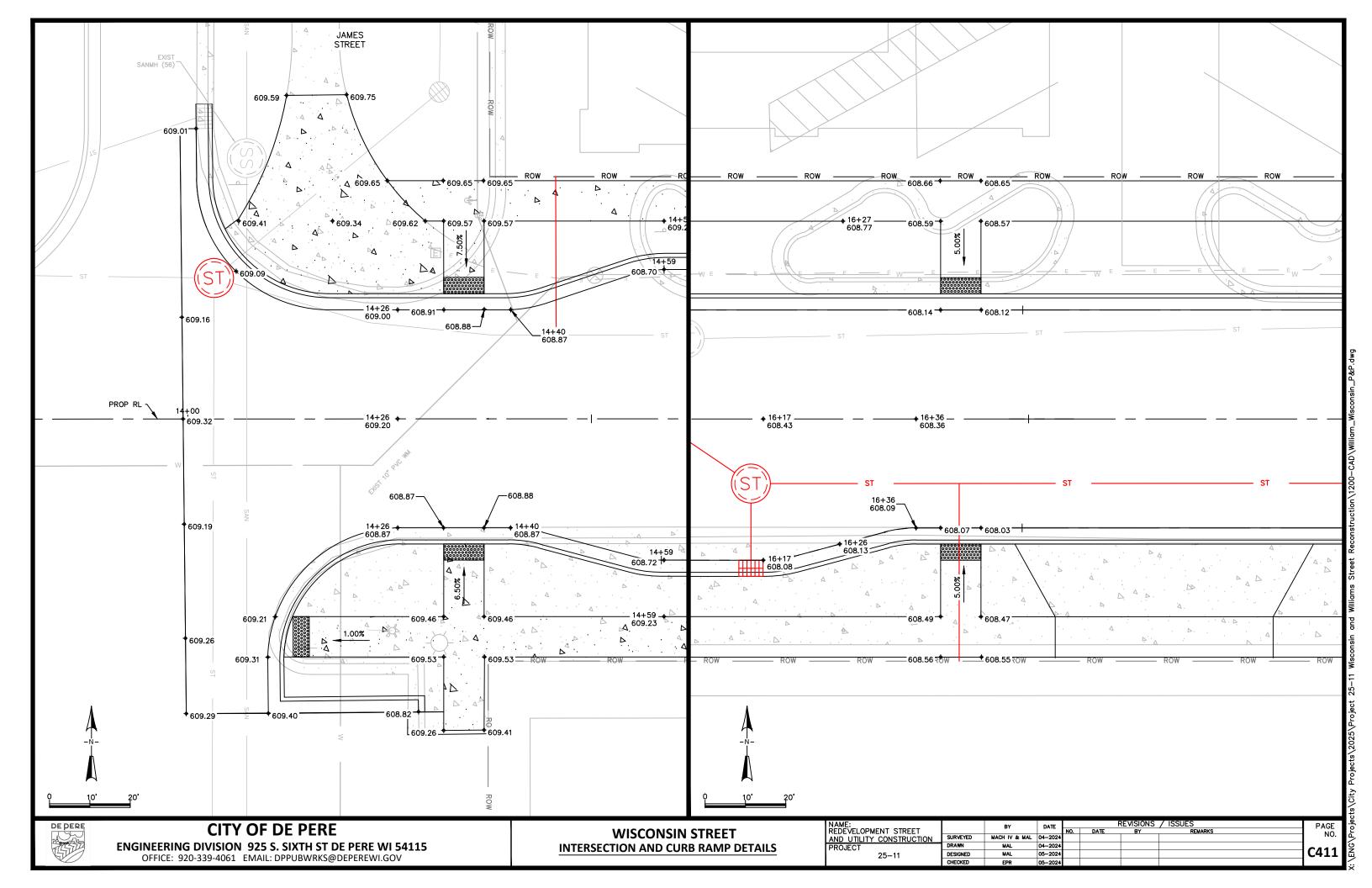


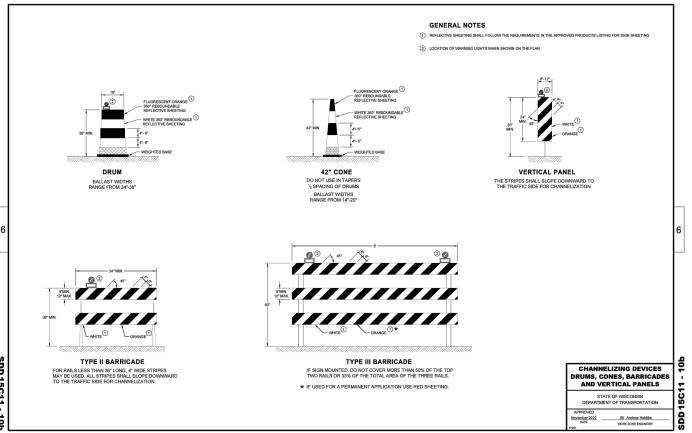












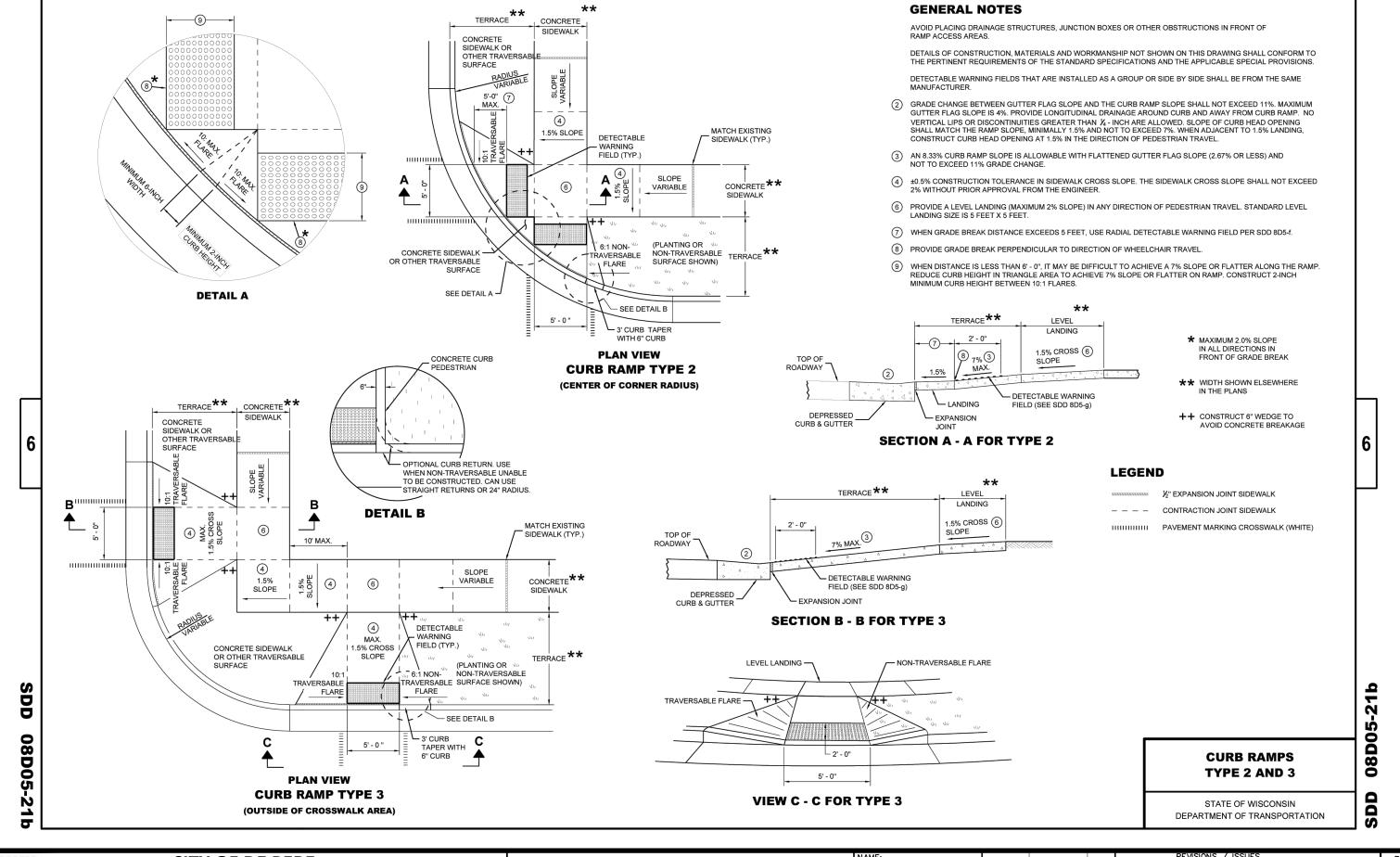
**CITY OF DE PERE** 

**WILLIAM AND WISCONSIN STREET CONSTRUCTION DETAILS** 

NAME: REDEVELOPMENT STREET AND UTILITY CONSTRUCTION PROJECT #

DATE DRAWN C501 05-202 DESIGNED

PAGE NO.

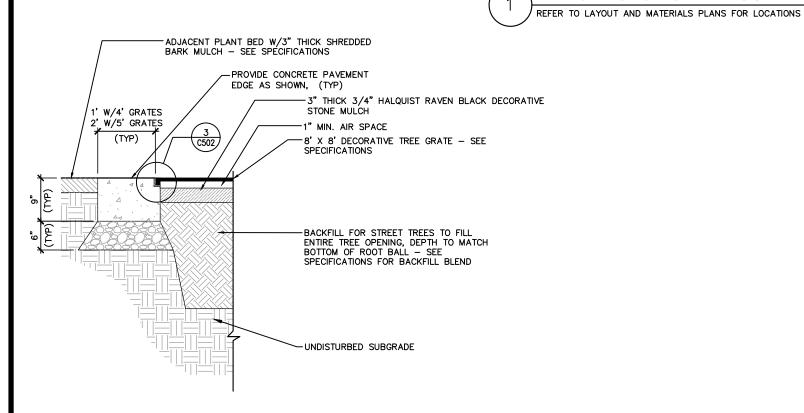


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WILLIAM AND WISCONSIN STREET CONSTRUCTION DETAILS

PAGE NO. **C502** 



3" THICK 3/4" HALQUIST RAVEN BLACK DECORATIVE STONE MULCH

TYPICAL ENLARGEMENT — TREE GRATE FRAME MOUNTING @ ADJACENT CONCRETE PAVING

REFER TO LAYOUT AND MATERIALS PLANS FOR LOCATIONS

TYPICAL SECTION - DECORATIVE TREE GRATE AT PLANT BED EDGE

REFER TO LAYOUT AND MATERIALS PLANS FOR LOCATIONS



CITY OF DE PERE

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WILLIAM AND WISCONSIN STREET **CONSTRUCTION DETAILS** 

PROVIDE THICKENED EDGE CONCRETE PAVEMENT AT TREE GRATE PERIMETER,

(TYP)

UNLESS OTHERWISE INDICATED ON

DRAWINGS (TYP)

(3 (C502)

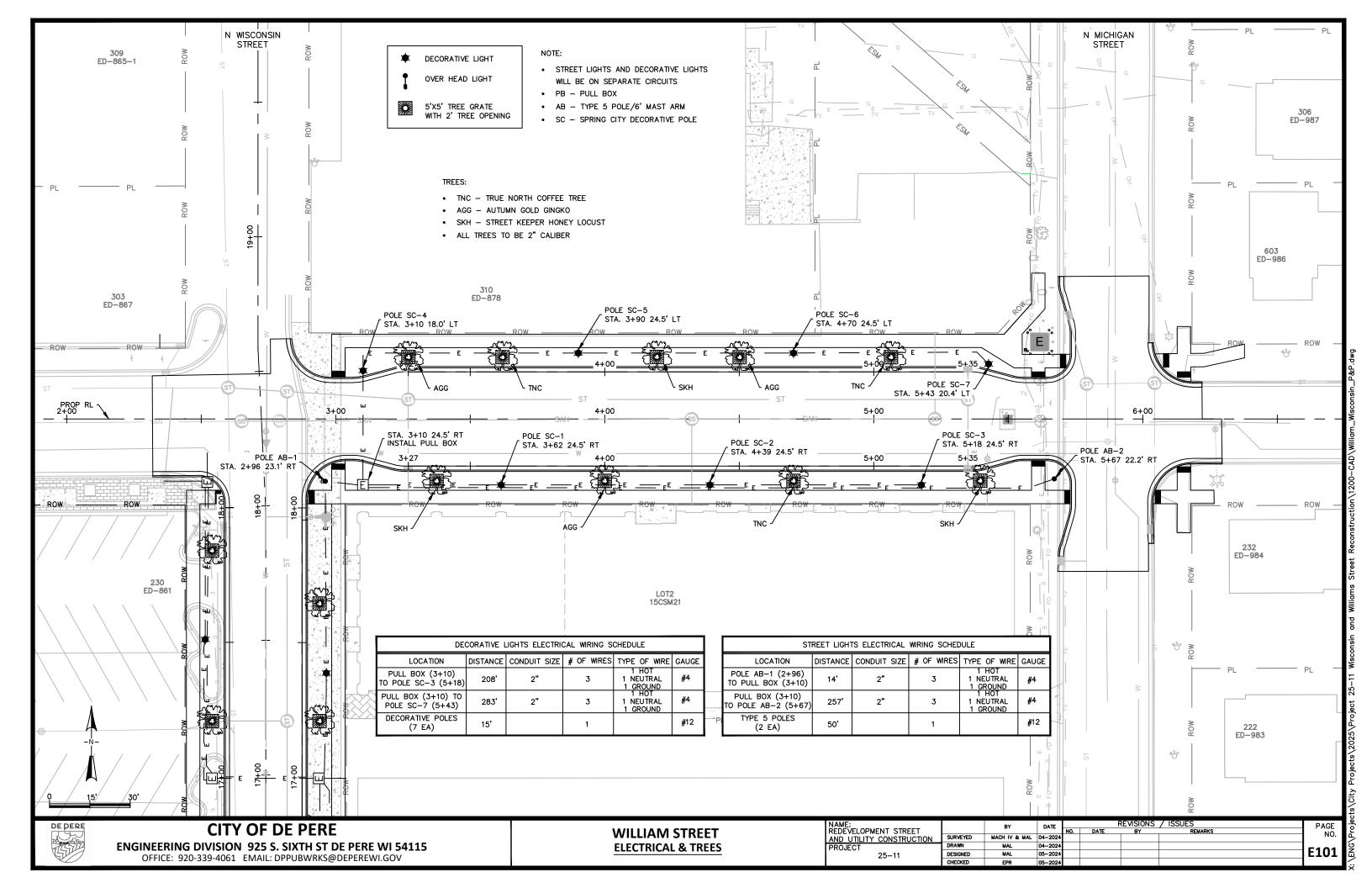
SET ROOT BALL ON UNDISTURBED SUBGRADE TO MEET SPECIFICATIONS

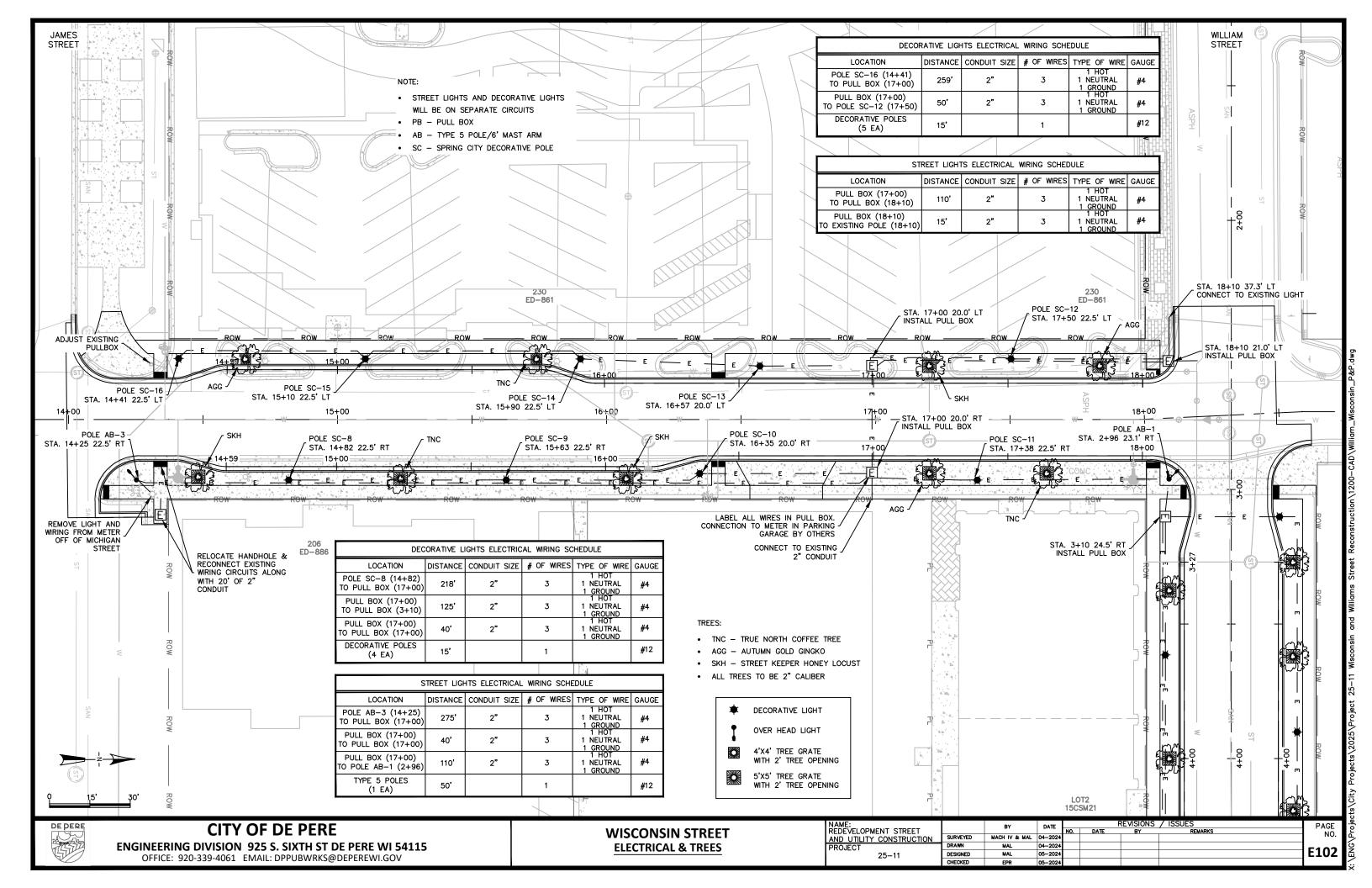
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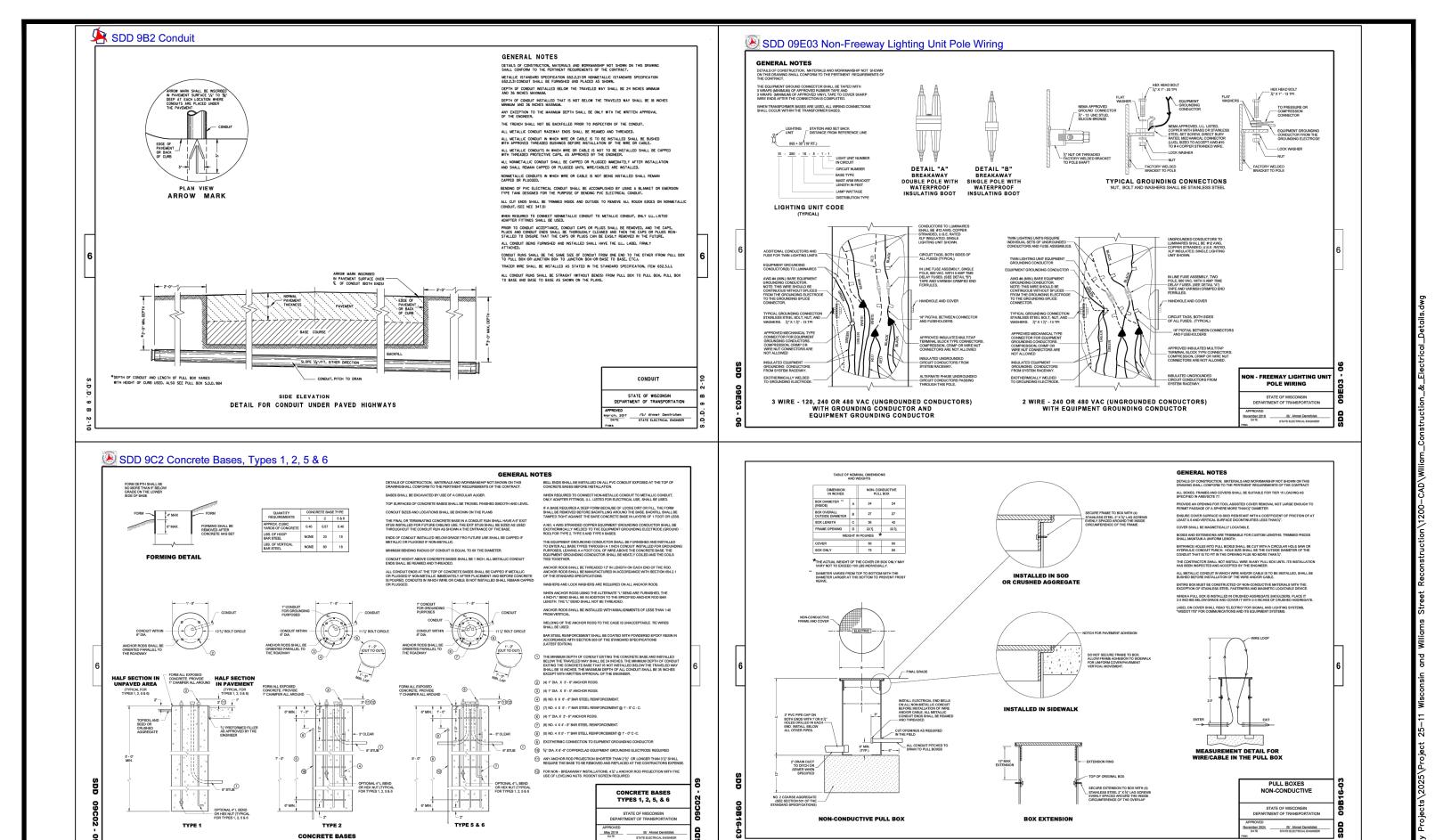
CONCRETE PAVING-

NAME:		BY	DATE		F	REVISIONS	/ ISSUES	P.
REDEVELOPMENT STREET			27112	NO.	DATE	BY	REMARKS	
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NO. 503





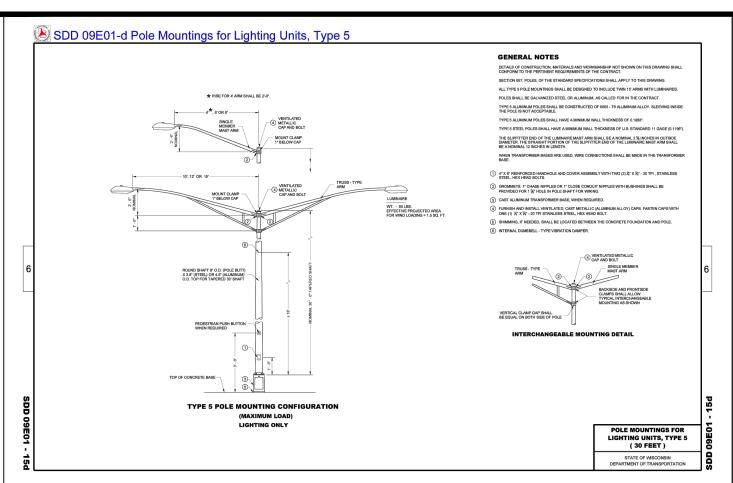


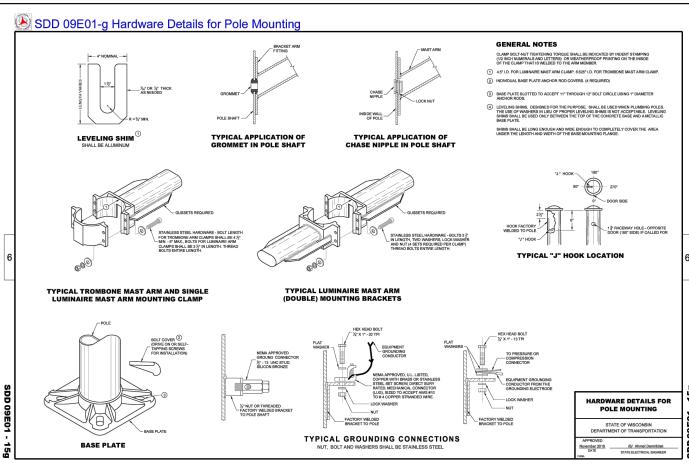
**CITY OF DE PERE** 

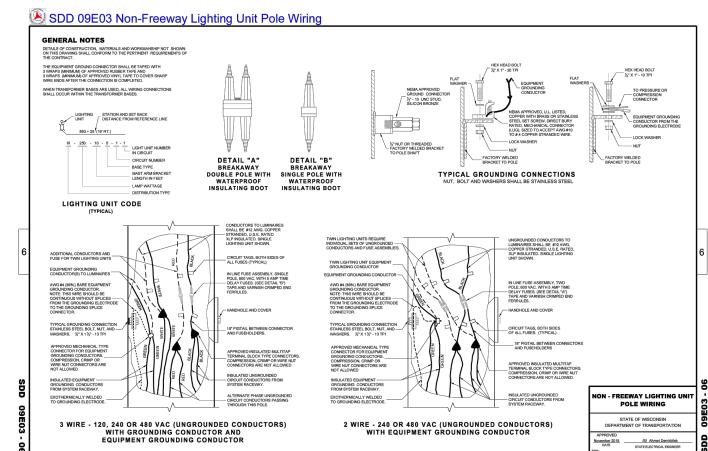
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WILLIAM STREET
ELECTRICAL CONSTRUCTION DETAILS

NAME: REDEVELOPMENT STREET		BY	DATE	NO.	DATE	REVISIONS	/ ISSUES REMARKS	Ŧ
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	CHECKED	EPR	05-2024					







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WILLIAM STREET ELECTRICAL CONSTRUCTION DETAILS

NAME: REDEVELOPMENT STREET		BY	DATE	NO.	DATE	REVISIONS BY	/ ISSUES REMARKS	PAGE
AND UTILITY CONSTRUCTION	SURVEYED	MACH IV & MAL	04-2024					NO.
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