

# CITY OF DE PERE

## PROJECT

**22-01**

## SEWER AND WATER RELAY AND STREET RESURFACING

**BID DATE:  
APRIL 7, 2022  
@ 1:00 PM**

Bid documents, including plans and specifications, are available for download at [www.QuestCDN.com](http://www.QuestCDN.com). The QuestCDN website can also be accessed through the City website at [www.deperewi.gov/projects](http://www.deperewi.gov/projects) or by pressing the *Projects* icon at the bottom of any City website page. Download cost is \$15 for each contract. Bidders will be charged an additional fee of \$30 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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**MARCH 18, 2022 – MARCH 25, 2022**

**CITY OF DE PERE**

**ADVERTISEMENT TO BID**

**PROJECT 22-01**

**SEWER AND WATER RELAY AND STREET RESURFACING**

Online bids will be received and accepted for Project 22-01 Sewer and Water Relay and Street Resurfacing via the online electronic bidding service through QuestCDN.com, until 1:00 PM, Thursday, April 7, 2022, at which time they will be publicly accepted, displayed and read aloud.

Project 22-01 for which proposals are being sought includes the following approximate quantities:

- 2,400 LF Relay Sanitary Laterals (4-inch and 6-inch) and Associated Appurtenances
- 3,950 LF New and Relay Storm Sewer (8-inch to 15-inch) and Associated Appurtenances
- 4,900 LF Relay Water Main (8-inch to 16-inch) and Associated Appurtenances
- 1,200 LF Direction Drill Water Main (16-Inch) and Associated Appurtenances
- 2,400 Tons Asphaltic Concrete Pavement Placement
- 15,500 SY Asphaltic Concrete Pavement Milling and/or Pulverizing
- 5,000 LF Replace Concrete Curb and Gutter
- 1,100 SY Replace 8" Concrete Pavement
- Restoration

Complete digital project bidding documents are available for viewing and/or downloading at [www.QuestCDN.com](http://www.QuestCDN.com) or may be examined at the office of the Director of Public Works. Digital plan documents may be downloaded for \$15 by inputting Quest project #7407912 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 \$30 to submit a bid electronically. The QuestCDN website can also be accessed through the City website at [www.deperewi.gov/projects](http://www.deperewi.gov/projects) or by pressing the *Projects* icon at the bottom of any City website page. Contact QuestCDN Customer Support at 952-233-1632 or [info@questcdn.com](mailto:info@questcdn.com) 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.

**Project 22-01  
Sewer and Water Relay and Street Resurfacing**

**City of De Pere**

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, April 4, 2022. Prospective bidders who have previously submitted such forms subsequent to January 1, 2022 will not be required to separately submit such form 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 18th day of March 2022.

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

Project 22-01

**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. No reports of explorations or tests of subsurface conditions at or contiguous to the Site, or drawings of physical conditions relating to existing surface or subsurface structures at the Site, are known to Owner.

**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:**

1. 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

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

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

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/432821509>

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

United States (Toll Free): 1 877 309 2073  
- One-touch: <tel:+18773092073,432821509#>

Access Code: 432-821-509

Get the app now and be ready when your first meeting starts: <https://meet.goto.com/install>

**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

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**

**SECTION 00 41 13**

**CITY OF DE PERE**

**BID FORM**

**PROJECT 22-01**

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 April 7, 2022 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 No.

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.

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

**Project 22-01  
Sewer and Water Relay and Street Resurfacing**

**City of De Pere**

**ATTACHMENTS TO THIS BID**

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

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

**BID SUBMITTAL**

This 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): \_\_\_\_\_

By: \_\_\_\_\_  
(Individual's signature)

Doing business as: \_\_\_\_\_

A Partnership

Partnership Name: \_\_\_\_\_

By: \_\_\_\_\_  
(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): \_\_\_\_\_

By: \_\_\_\_\_  
(Signature – attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_

(CORPORATE SEAL)

Attest \_\_\_\_\_

Date of Qualification to do business in Wisconsin is \_\_\_/\_\_\_/\_\_\_.

Joint Venture

Name of Joint Venture: \_\_\_\_\_

First Joint Venturer Name: \_\_\_\_\_ (SEAL)

By: \_\_\_\_\_

(Signature of first joint venture partner – attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_

Second Joint Venturer Name: \_\_\_\_\_ (SEAL)

By: \_\_\_\_\_

(Signature of second joint venture partner – attach evidence of authority to sign)

Name (typed or printed): \_\_\_\_\_

Title: \_\_\_\_\_

(Each joint venturer must sign. Manner of signing for each individual, partnership, and corporation that is a party to joint venture should be in manner indicated above.)

Bidder's Business Address \_\_\_\_\_

\_\_\_\_\_

Phone No. \_\_\_\_\_ Fax No. \_\_\_\_\_

E-mail \_\_\_\_\_

SUBMITTED on \_\_\_\_\_, 20\_\_.

State Contractor License No. \_\_\_\_\_ (if applicable)

**SECTION 00 41 43**

**CITY OF DE PERE**

**PROJECT 22-01**

**BID SCHEDULE – UNIT PRICE**

<b>ITEM</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>UNIT PRICE</b>	<b>AMOUNT BID</b>
<b>SANITARY SEWER</b>					
SS-01	Remove and Relay 6" or 4" PVC Sanitary Lateral	LF	2,570	\$ _____	\$ _____
SS-02	Provide 6" or 4" Saddle to Existing Sanitary Sewer	EA	46	\$ _____	\$ _____
SS-03	Remove and Replace 4' Diameter Sanitary Sewer Manhole	VF	10	\$ _____	\$ _____
SS-04	Provide 4' Diameter Sanitary Sewer Manhole on Clay Street	LS	1	\$ _____	\$ _____
SS-05	Connect to Existing Sanitary Sewer Pipe	EA	1	\$ _____	\$ _____
SS-06	Connect to Existing PVC Sanitary Sewer Lateral (East and West St. Francis)	EA	35	\$ _____	\$ _____
SS-07	Remove Protruding Sanitary Lateral (1020 Jordan Road)	LS	1	\$ _____	\$ _____
SS-08	Televise Sanitary Lateral	EA	8	\$ _____	\$ _____
<b>STORM SEWER</b>					
ST-01	Remove and Relay 18" PVC, RCP Class III, or PP Storm Sewer	LF	155	\$ _____	\$ _____
ST-02	Provide 18" PVC, RCP Class III, or PP Storm Sewer	LF	130	\$ _____	\$ _____
ST-03	Provide 15" PVC, RCP Class III, or PP Storm Sewer	LF	815	\$ _____	\$ _____
ST-04	Remove and Relay 12" PVC or RCP Class III Storm Sewer	LF	315	\$ _____	\$ _____

**Project 22-01**  
**Sewer and Water Relay and Street Resurfacing**

**City of De Pere**

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
<b>STORM SEWER CONTINUED</b>					
ST-05	Provide 12" PVC, RCP Class III, or PP Storm Sewer	LF	1,650	\$ _____	\$ _____
ST-06	Provide 8" PVC Storm Sewer	LF	1,025	\$ _____	\$ _____
ST-07	Provide 6" PVC Storm Sewer Offset at Legion Pool	LS	1	\$ _____	\$ _____
ST-08	Provide 6" PVC Storm Sewer Lateral	LF	1,980	\$ _____	\$ _____
ST-09	Provide 18"X6" Storm Branch or Inserta Tee	EA	5	\$ _____	\$ _____
ST-10	Provide 15"X6" Storm Branch or Inserta Tee	EA	12	\$ _____	\$ _____
ST-11	Provide 12"X6" Storm Branch or Inserta Tee	EA	14	\$ _____	\$ _____
ST-12	Provide 8"X6" Storm Branch or Inserta Tee	EA	18	\$ _____	\$ _____
ST-13	Provide Lateral Connection to Existing Storm Sewer	EA	5	\$ _____	\$ _____
ST-14	Remove and Replace 5' Diameter Storm Manhole	VF	5.5	\$ _____	\$ _____
ST-15	Remove and Replace 4' Diameter Storm Manhole	VF	16	\$ _____	\$ _____
ST-16	Provide 5' Diameter Storm Manhole (Construct Over Existing -Doghouse)	VF	11.5	\$ _____	\$ _____
ST-17	Provide 4' Diameter Storm Manhole	VF	93	\$ _____	\$ _____
ST-18	Remove and Replace Type B Inlet	EA	7	\$ _____	\$ _____
ST-19	Remove and Replace Type B Catch Basin	EA	2	\$ _____	\$ _____
ST-20	Provide Type A Field Inlet (Merrill Street Reservoir)	EA	1	\$ _____	\$ _____

**Project 22-01**  
**Sewer and Water Relay and Street Resurfacing**

**City of De Pere**

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
<b>STORM SEWER CONTINUED</b>					
ST-21	Provide Type B Catch Basin	EA	9	\$ _____	\$ _____
ST-22	Provide Type B Inlet	EA	9	\$ _____	\$ _____
ST-23	Provide Type B Inlet (Franklin and Washington)	EA	1	\$ _____	\$ _____
ST-24	Connect to Existing Structure	EA	11	\$ _____	\$ _____
ST-25	Connect to Existing Pipe	EA	8	\$ _____	\$ _____
ST-26	Core Drill Existing Structure	EA	6	\$ _____	\$ _____
ST-27	Provide Concrete Collar (Dig Down Existing Pipe Joint)	EA	3	\$ _____	\$ _____
ST-28	Provide 6' Spot Repair on 12" Concrete Pipe (Clay Street Easement)	EA	1	\$ _____	\$ _____
ST-29	Install Bulkhead at Existing 24" Storm Pipe in Easement East of East St Francis Rd	LS	1	\$ _____	\$ _____
ST-30	Abandon Storm Sewer at Merrill Tower	LS	1	\$ _____	\$ _____
ST-31	Abandon/Remove Existing Storm Sewer Appurtenances	LS	1	\$ _____	\$ _____
<b>WATER MAIN</b>					
W-01	Provide 16" PVC Water Main - Open Cut	LF	35	\$ _____	\$ _____
W-02	Provide 16" PVC Water Main - Directional Drill	LF	1220	\$ _____	\$ _____
W-03	Provide 8" PVC Water Main	LF	5000	\$ _____	\$ _____
W-04	Provide 6" PVC Water Main	LF	95	\$ _____	\$ _____

**Project 22-01**  
**Sewer and Water Relay and Street Resurfacing**

**City of De Pere**

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
<b>WATER MAIN CONTINUED</b>					
W-05	Provide 1-1/2" HDPE Water Service – Open Cut	LF	35	\$ _____	\$ _____
W-06	Provide 1" HDPE Water Service – Open Cut	LF	2,610	\$ _____	\$ _____
W-07	Provide 1" HDPE Water Service - Directional Drill	LF	600	\$ _____	\$ _____
W-08	Provide 1" Corporation and Curb Stop	EA	73	\$ _____	\$ _____
W-09	Provide 1-1/2" Corporation and Curb Stop	EA	2	\$ _____	\$ _____
W-10	Provide 2" Corporation with Plug/Saddle with 2" Galvanized Pipe	EA	4	\$ _____	\$ _____
W-11	Provide 8" Gate Valve	EA	15	\$ _____	\$ _____
W-12	Provide 6" Gate Valve	EA	3	\$ _____	\$ _____
W-13	Provide 16" Butterfly Valve	EA	2	\$ _____	\$ _____
W-14	Provide Connection to Existing Water Main	EA	11	\$ _____	\$ _____
W-15	Provide Hydrant 11' Bury	EA	1	\$ _____	\$ _____
W-16	Provide Hydrant 6.5' Bury	EA	12	\$ _____	\$ _____
W-17	Provide 6" PVC Hydrant Lead	LF	205	\$ _____	\$ _____
W-18	Provide 8" Water Main 1/2 Offset	EA	1	\$ _____	\$ _____
W-19	Provide 6" Water Main 1/2 Offset	EA	4	\$ _____	\$ _____
W-20	Abandon/Remove Water Main and Appurtenances	LS	1	\$ _____	\$ _____

**Project 22-01**  
**Sewer and Water Relay and Street Resurfacing**

**City of De Pere**

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
<b>STREET AND DRAINAGE</b>					
SD-01	Clearing and Grubbing	ID	80	\$ _____	\$ _____
SD-02	Provide Excavation Below Subgrade	CY	200	\$ _____	\$ _____
SD-03	Pulverize Asphaltic Concrete Pavement and Aggregate (10-inch Depth) and Remove top 4 inches of Material (S. Sixth St & S. Seventh St)	SY	9,610	\$ _____	\$ _____
SD-04	Mill Asphaltic Concrete Pavement	SY	5,750	\$ _____	\$ _____
SD-05	Provide 1 1/4" Crushed Aggregate Base Course	TON	100	\$ _____	\$ _____
SD-06	Provide Asphaltic Concrete Pavement Type 4 LT 58-28 S, 1 3/4" Upper Layer	TON	1,020	\$ _____	\$ _____
SD-07	Provide Asphaltic Concrete Pavement Type 3 LT 58-28 S, 2 1/4" Lower Layer	TON	1,300	\$ _____	\$ _____
SD-08	Provide Asphaltic Concrete Pavement Type 4 LT 58-28 S, 2" Overlay or Upper Layer	TON	700	\$ _____	\$ _____
SD-09	Provide Asphaltic Concrete Pavement Type 3 LT 58-28 S, 2 1/4" Lower Layer	TON	400	\$ _____	\$ _____
SD-10	Provide Large Asphalt Patch	SY	200	\$ _____	\$ _____
SD-11	Provide Small Asphalt Patch	SY	20	\$ _____	\$ _____
SD-12	Remove and Replace 24" Concrete Curb and Gutter (Hand Form)	LF	3,615	\$ _____	\$ _____
SD-13	Remove and Replace 24" Concrete Curb and Gutter (Slip Form)	LF	2,010	\$ _____	\$ _____
SD-14	Remove and Replace 8-Inch Concrete Pavement with Integral Curb	SY	1,130	\$ _____	\$ _____

**Project 22-01**  
**Sewer and Water Relay and Street Resurfacing**

**City of De Pere**

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
<b>STREET AND DRAINAGE CONTINUED</b>					
SD-15	Remove and Replace 6" Concrete Sidewalk, Ramp, and Driveway	SY	520	\$ _____	\$ _____
SD-16	Remove and Replace 4" Concrete Sidewalk, Ramp, and Driveway	SY	700	\$ _____	\$ _____
SD-17	Provide 6" Concrete Sidewalk, Ramp, and Driveway	SY	15	\$ _____	\$ _____
SD-18	Provide 4" Concrete Sidewalk and Restoration (Merrill Reservoir)	LS	1	\$ _____	\$ _____
SD-19	Provide #4 Reinforcement Bars for Curb and Sidewalk	LF	5,230	\$ _____	\$ _____
SD-20	Drilled Tie Bars (Existing Sidewalk, Driveway, and Curb and Gutter)	EA	1,000	\$ _____	\$ _____
SD-21	Drilled Dowel Bars	EA	780	\$ _____	\$ _____
SD-22	Drilled Tie Bars (Concrete Pavement)	EA	150	\$ _____	\$ _____
SD-23	Provide Detectable Warning Field (Natural)	EA	15	\$ _____	\$ _____
SD-24	Salvage and Reset Brick Pavers	SF	10	\$ _____	\$ _____
SD-25	Traffic Control - Ridgeway Boulevard Lane Closure	LS	1	\$ _____	\$ _____
SD-26	Traffic Control - Ridgeway Boulevard Closure at Webster	LS	1	\$ _____	\$ _____
<b>SPECIAL CONSTRUCTION</b>					
SC-01	Inlet Protection Type D	EA	52	\$ _____	\$ _____
SC-02	Adjust Inlet	EA	7	\$ _____	\$ _____
SC-03	Adjust Inlet Provide New Casting	EA	3	\$ _____	\$ _____

**Project 22-01**  
**Sewer and Water Relay and Street Resurfacing**

**City of De Pere**

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
<b>SPECIAL CONSTRUCTION CONTINUED</b>					
SC-04	Adjust Manhole Provide New Casting	EA	13	\$ _____	\$ _____
SC-05	Adjust Manhole	EA	8	\$ _____	\$ _____
SC-06	Adjust Manhole (Scheuring Road)	EA	7	\$ _____	\$ _____
SC-07	Reconstruct Manhole	VF	10	\$ _____	\$ _____
SC-08	Remove and Reinstall Mailboxes	EA	8	\$ _____	\$ _____
SC-09	Remove and Reset Chain Link Fence and Post at Legion Park	LS	1	\$ _____	\$ _____
<b>TOTAL AMOUNT BID</b>					\$ _____

**SECTION 00 43 13**

**CITY OF DE PERE**

**BID BOND**

KNOW ALL MEN BY THESE PRESENTS: That \_\_\_\_\_,

as Principal, hereinafter called Principal, and \_\_\_\_\_,

as Surety, hereinafter called Surety, are held and firmly bound unto the City of De Pere, a municipal corporation of the State of Wisconsin, as Obligee, hereinafter called City, in the amount of \_\_\_\_\_ dollars (\$\_\_\_\_\_) for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presence.

WHEREAS, Principal has made a proposal to the City for furnishing all materials, labor, tools, equipment and incidentals necessary to complete the work of Project 22-01 in accordance with drawings and specifications prepared by the Director of Public Works of said City, which proposal is by reference made a part hereof, and is hereinafter referred to as the BID.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Principal shall be awarded the contract for said project and Principal shall enter into a contract in accordance with the BID, then this obligation shall be null and void; otherwise it shall remain in full force and effect, provided that:

1. The liability of Surety shall in no event exceed the penalty of this bond.
2. Any suits at law or proceedings, in equity brought or to be brought against Surety to recover any claim hereunder shall be executed within six (6) months from the date of this instrument.

Signed and sealed this \_\_\_\_\_ day 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:

<u>ITEM</u>	<u>MATERIAL</u>	<u>SUPPLIER</u>
Valves		
Hydrants		
Manholes	Concrete	
Inlets	Concrete	
Storm Sewer (PVC) <i>(List Proposed Size)</i>		
Storm Sewer (RCP) <i>(List Proposed Size)</i>		
Storm Sewer (PP) <i>(List Proposed Size)</i>		



SECTION 00 51 00

NOTICE OF AWARD

(Contractor)  
(Contractor Name)  
(Address)  
(Address)

Project Description: 22-01 Sewer and Water Relay and Street Resurfacing

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 March 18, 2022 and March 25, 2022.

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 \_\_\_\_\_ 2022.

DEPARTMENT OF PUBLIC WORKS

BY: Eric P. Rakers, P.E.  
City Engineer

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE OF AWARD is hereby acknowledged by:

\_\_\_\_\_, this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

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 22-01 Sewer and Water Relay and Street Resurfacing, 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 March 18, 2022 and March 25, 2022.
- (b) Drawings designated for Project 22-01 Sewer and Water Relay and Street Resurfacing dated March 18, 2022.
- (c) City of De Pere 2022 Construction Specifications.
- (d) Special Provisions dated March 18, 2022.
- (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 27)(\$) 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).

- e. Specifications as listed in the table of contents of the Project Manual.
- 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 \_\_\_\_\_.
- 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-, 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: _____
(WITNESS)	

\_\_\_\_\_  
(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)

BY: \_\_\_\_\_  
(MAYOR)

BY: \_\_\_\_\_  
(CITY CLERK)

SECTION 00 55 00

NOTICE TO PROCEED

Date: \_\_\_\_\_

(CONTRACTOR NAME)  
(ADDRESS)  
(ADDRESS)

Project Description: 22-01 Sewer and Water Relay and Street Resurfacing

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 completed within \_\_\_\_\_ (NUMBER IN WORDS) (#) consecutive days from the start of construction or \_\_\_\_\_ (DATE) whichever comes first.

\_\_\_\_\_  
Department of Public Works

By: Eric P. Rakers, P.E.  
Title: City Engineer

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by

\_\_\_\_\_, this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.  
Company Name

\_\_\_\_\_  
Signature

BY: \_\_\_\_\_  
Printed Name

TITLE: \_\_\_\_\_

**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 of the State of Wisconsin, as Obligee, hereinafter called the City, for the use and benefit of claimants as herein below defined in the **amount \_\_\_\_\_ (CONTRACT AMT. SPELLED OUT) (\$\_\_\_\_\_)** for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated \_\_\_\_\_ (date to be affixed by City) entered into a contract with City for Project 22-01, in accordance with drawings and 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, however, to the following conditions.

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, or rental of equipment directly applicable to the contract.
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:
  - 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.

**Project 22-01**  
**Sewer and Water Relay and Street Resurfacing**

**City of De Pere**

- 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)
_____	_____
(WITNESS)	(SURETY)

**SECTION 00 61 16**

**CITY OF DE PERE**

**PERFORMANCE BOND**

KNOW ALL MEN BY THESE PRESENTS: That **(CONTRACTOR'S 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 of the State of Wisconsin, as Obligee, hereinafter called City, in the amount of \_\_\_\_\_ **(AMOUNT WRITTEN OUT)** (\$ \_\_\_\_\_) for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assign, 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 the City for Project 22-01, in accordance with drawings and 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 the Contractor shall promptly and faithfully perform said CONTRACT, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

Whenever Contractor shall be, and declared by the City to be in default under the CONTRACT, the City having performed City's obligations there under, the Surety may promptly remedy the default, or shall promptly

1. Complete the CONTRACT in accordance with its terms and conditions or
2. Obtain a bid or bids for submission to City for completing the CONTRACT in accordance with its terms and conditions, and upon determination by the City and Surety of the lowest responsible bidder, arrange for a contract between such bidder and City make available as work progresses (even though there should be a default or succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the contract price" as used in this paragraph shall mean the total amount payable by City to Contractor under the CONTRACT and any amendments thereto, less the amount properly paid by City to Contractor.

Any suit under this bond must be instituted before the expiration of two (2) years from the date on which final payment under the CONTRACT falls due. No right of action shall accrue on this bond to or for the use of any person or corporation other than the owner named herein or the heirs, executors, administrators or successors of City.

SIGNED AND SEALED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_\_.

In the Presence of:

(WITNESS)	(CONTRACTOR)	(SEAL)
(WITNESS)	(SURETY)	(SEAL)

**SECTION 00 62 76**

**APPLICATION FOR PAYMENT**

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

Application Period:	Application Date:
Owner: City of De Pere	Contractor:
	Contractor's Project No.:

**APPLICATION FOR PAYMENT**

Change Order Summary

Approved Change Orders			1. ORIGINAL CONTRACT 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 stored to date Column H on Progress Estimate:.....	\$0.00
			5. Retainage (per Agreement):	
			a. Work Completed - Column H (95% up to 50% of Contract or 2.5% of 100% of Contract)	\$0.00
Total	\$0.00	\$0.00	6. AMOUNT ELIGIBLE TO DATE (Line 4 minus 5).....	\$0.00
NET CHANGE BY CHANGE ORDERS: \$0.00			7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application).....	\$0.00
			8. AMOUNT DUE THIS APPLICATION (Line 6 minus Line 7).....	\$0.00

**CONTRACTOR'S CERTIFICATION**

The undersigned Contractor certifies that:(1) all previous progress payments received from Owner on account of Work done under Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest or encumbrances); and (3) all Work covered by the Application for Payment is in accordance with the Contract Documents and is not defective.

By: \_\_\_\_\_ Date: \_\_\_\_\_

Payment of: \$ \_\_\_\_\_  
(Line 8 or other - attach explanation of other amount)

is recommended by: \_\_\_\_\_ (Contractor) \_\_\_\_\_ (Date)

Payment of: \$ \_\_\_\_\_  
(Line 8 or other - attach explanation of other amount)

is recommended by: \_\_\_\_\_ (Owner) \_\_\_\_\_ (Date)

SECTION 00 65 16

CERTIFICATE OF SUBSTANTIAL COMPLETION

Project:	
Owner:	Owner's Contract No.:
Contractor:	

This [tentative] [definitive] Certificate of Substantial Completion applies to:

All Work under the Contract Documents:  The following specified portions of the Work:

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\_\_\_\_\_  
Date of Substantial Completion

The Work to which this Certificate applies has been inspected by authorized representatives of Contractor and Engineer, and found to be substantially complete. The Date of Substantial completion of the Project or portion thereof designated above is hereby declared and is also the date of commencement of applicable warranties required by the Contract Documents, except as stated below.

A [tentative] [definitive] list of items to be completed or corrected is attached hereto. This list may not be all-inclusive, and the failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

**The responsibilities between Owner and Contractor for security, operation, safety, maintenance, heat, utilities, insurance and warranties shall be as provided in the Contract Documents except as amended as follows:**

Amended Responsibilities  Not Amended

Owner's Amended Responsibilities:

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Contractor's Amended Responsibilities:

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The following documents are attached to and made part of this Certificate:

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This Certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of Contractor's obligation to complete the Work in accordance with the Contract Documents.

\_\_\_\_\_  
Executed by Engineer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Accepted by Contractor

\_\_\_\_\_  
Date

**SECTION 01 10 00**

**SUMMARY OF WORK**

**PART 1 – GENERAL**

**1.1 SUMMARY**

- A. Section Includes
  - 1. 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, 2020 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
  - 1. 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.

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. Seventh Street – Meadow View Lane to Westwood Drive
  - b. Sixth Street – Seventh Street to Lande Street
  - c. Ridgeway Boulevard – Winnebago Street to Webster Avenue
  - d. East and West St Francis Road from Ridgeway Boulevard to Ridgeway Boulevard
  - e. Scheuring Road
  - f. Merrill Street Reservoir
  - g. Legion Park Pool
  - h. Spot repairs around the City per the plans
2. Work will be performed under the following prime contract:
  - a. Project 22-01 Utility Relay and Street Resurfacing

#### B. The Work includes:

1. Sanitary sewer lateral relay and new.
2. Storm sewer and associated appurtenances relay and new.
3. Water main and associated appurtenances relay.
4. Concrete curb and gutter slip form and/or spot repairs.
5. Concrete pavement, driveway aprons, and sidewalk removal and repairs.
6. Pulverize or mill existing asphaltic concrete pavement.
7. Salvage pulverized material to City
8. Asphaltic concrete paving.
9. Terrace restoration.
10. Erosion control.
11. Traffic control
12. Tree and stump removal

### 1.4 WORK SEQUENCE/SCHEDULE

- A. Project shall be completed by July 31, 2023.

- B. Due to extended lead times for ordering/obtaining water main appurtenances, an extended completion date has been set with the following restrictions:
  - 1. The extended time frame applies to Sixth Street, Seventh Street, East and West St Francis Road, and Ridgeway Boulevard.
  - 2. Construction started on any street grouping in 2022 shall be completed by November 1<sup>st</sup> in 2022. Street groupings are as follows:
    - a. Sixth and Seventh Street
    - b. East and West St Francis Street
    - c. Ridgeway Boulevard
  - 3. Construction on streets postponed to 2023 may start in March while meeting the total working days allocated for a street segment.
  
- C. The calendar days listed below are the allowed durations for each location from the beginning of construction of the street or site to the substantial completion of the area.

<b>Location</b>	<b>Calendar Days</b>
Sixth and Seventh Street	90
East and West St Francis Road	75
Ridgeway Boulevard	50

Failure to meet the interim contract dates listed above warrants the enforcement of liquidated damages outlined in the City of De Pere Standard Specifications.

- D. Ridgeway Boulevard Traffic Control and Construction Sequencing.
  - 1. The eastbound parking lane can be closed during construction on Ridgeway Boulevard. The contractor has the option to shift eastbound traffic to the north side of the median and have two-way traffic on the same side of the median between Winnebago Street and Waubaunuqua Trail. A traffic control plan will be required. No change in the traffic control bid item will be made if the contractor chooses to modify the traffic plan.
  - 2. Ridgeway Boulevard between Waubaunuqua Trail and Webster Avenue may be closed during water main construction across Ridgeway Boulevard at Webster Avenue. After water main construction, Ridgeway Boulevard will be opened to traffic. Concrete restoration in this area shall be completed under traffic with staging and lane closures.
  
- E. Traffic control on American Boulevard will be completed by the Brown County Highway Department or the City of De Pere. Work under this project shall be coordinated with Brown County lane closures.
  
- F. Legion Park work shall be completed by June 12, 2022.
  
- G. The water main work on LeBrun Street and East River Drive shall be completed in 2022 prior to the construction of sidewalk by the Village of Allouez.

- H. The storm sewer repair on Franklin and Washington Street shall be completed by June 15, 2022.
- I. Conduct construction activities to maintain access to businesses and residences throughout construction.
- J. Topsoil, seed, and mulch shall be completed prior to asphaltic concrete pavement placement.

**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.
- 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. Work will be completed by others simultaneously with the project as follows:
  - 1. The Brown County Highway Department will be completing pavement repairs on Scheuring Road.
  - 2. Public utility work is anticipated within the project limits.
  - 3. The Village of Allouez in conjunction with the Wisconsin Department of Transportation will be constructing the sidewalk on East River Drive concurrently with this project.
- C. 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.

**1.8 PROJECT UTILITY SOURCES**

- A. Green Bay Metropolitan Sewer District (NEW Water), Lisa Sarau, ([lsarau@newwater.us](mailto:lsarau@newwater.us)) (920-438-1039)
- B. AT&T, Victoria Kassab, ([vk352k@att.com](mailto:vk352k@att.com)) (920-202-4002)
- C. Wisconsin Public Service, Bob Laskowski, ([rtlaskowski@wisconsinpublicservice.com](mailto:rtlaskowski@wisconsinpublicservice.com)) (920-617-2775)
- D. Charter, Vince Albin, ([vince.albin@charter.com](mailto:vince.albin@charter.com)) (920-378-0444)
- E. Nsight, Rick Vincent, ([rick.vincent@nsight.com](mailto:rick.vincent@nsight.com)) (920-617-7316)
- F. TDS Metrocom, Steve Jakubiec, ([steve.jakubiec@tdstelecom.com](mailto:steve.jakubiec@tdstelecom.com)) (920-882-4166)
- G. Net-Lec (Mi-Tech Services), Dennis Lafave, ([dlafave@mi-tech.us](mailto:dlafave@mi-tech.us)) (920-619-9774)
- H. CenturyLink, Relocation Team, ([relocations@lumen.com](mailto:relocations@lumen.com)) (800-871-9244)
- I. Central Brown County Water Authority, Rob Michaelson, ([rmichaelson@mpu.org](mailto:rmichaelson@mpu.org)) (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. 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. Sixth and Seventh Street
    - a. Loaded trucks shall enter from Grant Street to Sixth Street.
    - b. Loaded trucks leaving the site shall exist to the north on Sixth Street and then to Grant Street.
    - c. Empty trucks leaving the site will also be permitted to leave the site to northbound Seventh Street to Helena Street to Sixth Street and southbound Seventh Street to Countryside Drive to Suburban Drive and then to Scheuring Road. The use of the latter route shall be approved by the Engineer prior to hauling.
  2. East and West St Francis Road access shall be from Webster Avenue or Broadway Street to Ridgeway Boulevard.
  3. Ridgeway Boulevard access shall be from Webster Avenue or Broadway Street.
  4. To view the City of De Pere Designated Heavy Truck Route Map please go to:  
[www.deperewi.gov/egov/documents/1476890395\\_45864.pdf](http://www.deperewi.gov/egov/documents/1476890395_45864.pdf)
- C. Sixth and Seventh Street shall be pulverized per the plans. Four (4) inches of pulverized material shall be removed to accommodate the four (4) inches of asphaltic concrete pavement and hauled to the City of De Pere's compost site on Rockland Road.

PART 2 – PRODUCTS

PART 3 – EXECUTION

END OF SECTION

SECTION 01 22 01

MEASUREMENT AND PAYMENT SANITARY SEWER

PART 1 – GENERAL

1.1 SUMMARY

- |  |                     |
|--|---------------------|
| A. Section includes:                               | <u>Bid Item No.</u> |
| 1. Sanitary Sewer Laterals                         | SS-01               |
| 2. Sanitary Sewer Service Branches                 | SS-02               |
| 3. Sanitary Sewer Manholes                         | SS-03, SS-04        |
| 4. Connect to Existing Sanitary Sewer Main         | SS-05               |
| 5. Connect to Existing PVC Sanitary Branch/Lateral | SS-06               |
| 6. Remove Protruding PVC Sanitary Lateral          | SS-07               |
| 7. Televising Sanitary Lateral                     | SS-08               |
- 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 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 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" X 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.

### 1.4 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.

#### 1.5 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 as follows:

1. The distance from the invert of the lowest sewer to the top of the frame and cover as set for all manholes excluding Clay Street.
2. Will not be made for the manhole on Clay Street.

C. The unit of measurement for payment is as follows:

1. Vertical feet for all manholes excluding Clay Street.
2. Lump sum for Clay Street.

#### 1.6 RECONNECT TO EXISTING SANITARY SEWER PIPE

A. The unit price for Reconnect to Existing Sanitary Sewer Pipe 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.

B. Measurement for payment will be the actual number completed.

C. The unit of measurement for payment is each.

**1.7 CONNECT TO EXISTING SANITARY SEWER LATERAL**

A. The unit price for Connect to Existing Sanitary Sewer Lateral 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.

B. Measurement for payment will be the actual number completed.

1. This item only applies to work on East and West St Francis Road and the connection near the right-of-way and not at the existing PVC wye.

C. The unit of measurement for payment is each.

**1.8 REMOVE PROTRUDING PVC SANITARY LATERAL**

A. The unit price for Remove Protruding PVC Sanitary Lateral work includes:

1. General Work Items of Article 1.2.
2. Excavate down to existing sanitary sewer lateral and reconnect.
3. Backfilling and compacting.

OR

4. Grind lateral internally.

B. Measurement for payment will not be made.

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

**1.9 TELEVISIONING SANITARY SEWER LATERALS**

A. The unit price for Televisioning Sanitary Sewer Laterals work includes:

1. General Work Items of Article 1.2.
2. Televisioning of sewer laterals indicated by the Engineer to determine the condition of the lateral and whether to replace.

B. Measure of payment will be the actual number of sanitary laterals televised.

C. The unit measurement for payment is each.

END OF SECTION

SECTION 01 22 02

MEASUREMENT AND PAYMENT STORM SEWER

PART 1 – GENERAL

1.1 SUMMARY

- | A. Section includes:                             | <u>Bid Item No.</u>                         |
|--|---|
| 1. Storm Sewer Mains (Granular Backfill)         | ST-01, ST-02, ST-03, ST-04,<br>ST-05, ST-06 |
| 2. Storm Sewer Offset                            | ST-07                                       |
| 3. Storm Sewer Laterals                          | ST-08                                       |
| 4. Storm Sewer Service Branches                  | ST-09, ST-10, ST-11, ST-12,<br>ST-13        |
| 5. Storm Sewer Manholes                          | ST-14, ST-15, ST-16, ST-17                  |
| 6. Catch Basin/Inlets                            | ST-18, ST-19, ST-20, ST-21,<br>ST-22, ST-23 |
| 7. Connect to Structure                          | ST-24                                       |
| 8. Connect to Existing Storm Sewer               | ST-25                                       |
| 9. Core Drill Structures                         | ST-26                                       |
| 10. Concrete Collar                              | ST-27                                       |
| 11. Spot Repair                                  | ST-28                                       |
| 12. Bulkhead                                     | ST-29                                       |
| 13. Abandon/Remove Storm Sewer and Appurtenances | ST-30, ST-31                                |
- 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 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 OFFSET

A. The unit price work for Storm Sewer Offset 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. Providing bends.

B. Measurement for payment will not be made.

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

#### 1.5 STORM SEWER LATERALS

A. The unit price for Storm Sewer Laterals work includes:

1. General Work Items of Article 1.2.
2. Storm 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" X 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 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 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.
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.

#### 1.7 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.

#### 1.8 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.

**1.9 CONNECT TO STORM STRUCTURE**

A. The unit price for Connect to Storm Structure work includes:

1. General Work Items of Article 1.2.
2. Modify existing storm sewer manhole opening (where required).
3. Provide concrete around the pipe, gasket, and manhole opening to form a sediment tight seal.
4. 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.

**1.10 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.

B. Measurement for payment will be the actual number complete.

C. The unit of measurement for payment is each.

**1.11 CORE DRILLING TO STORM MANHOLE**

A. The unit price for Core Drilling to Storm Manhole work includes:

1. General Work Items of Article 1.2.
2. Core drilling into existing storm sewer manhole (where required).
3. Install A-Lok boot or mortar connection.
4. 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.

**1.12 CONCRETE COLLAR**

A. The unit price for Concrete Collar work includes:

1. General Work Items of Article 1.2.

2. Providing and installing concrete and wire or mesh components.
3. Connection to storm sewer pipe or manhole.

B. Measurement for payment will be the actual number installed.

C. The unit of measurement for payment is each.

**1.13 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.

**1.14 BULKHEAD STORM SEWER**

A. The unit price for Bulkhead Storm Sewer work includes:

1. General Work Items of Article 1.2.
2. Removing debris near daylighted pipe.
3. Install bulkhead.
4. Provide 4" opening and up to 5' of PVC storm sewer if directed by Engineer.

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

1. This item applies to the daylighted pipe east of East St Francis Rd.

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

**1.15 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.
6. Backfilling and compacting.

7. Removal and disposal 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 03

MEASUREMENT AND PAYMENT WATER SYSTEM

PART 1 – GENERAL

1.1 SUMMARY

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

**1.4 WATER MAINS (DIRECTIONAL DRILL)**

- A. The unit price for Water Main (Directional Drill) work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Field verification of location and elevation of existing utilities before and/or during directional drilling.
  - 3. Boring pit and receiving pit excavation.
  - 4. PVC pipe and materials (Fusible PVC or PVC or Certa-Lok Restraint).
  - 5. Tracer Wire.
  - 6. Installation of the PVC pipe by directional drilling.
  - 7. Backfilling and compacting the boring and receiving pits.
  - 8. Loading, hauling and disposing of surplus excavated material.
- 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 WATER SERVICES (DIRECTIONAL DRILL)**

- A. The unit price for Water Services (Directional Drill) work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Pipe and fittings of material stated in the Unit Price Bid Schedule.
  - 3. Field verifies location and elevation of existing utilities before and/or during directional drilling.
  - 4. Boring pit and receiving pit excavation.
  - 5. Tracer wire.
  - 6. Installation of the pipe by directional drilling.
  - 7. Backfilling and compacting the boring and receiving pits.
  - 8. Connection to the existing water service.

9. Loading, hauling and disposing of surplus excavated material.

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.

#### 1.7 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.

#### 1.8 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.

#### 1.9 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.

#### 1.10 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.

#### 1.11 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.

#### 1.12 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.

**1.13 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.
  - 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

- |  | <u>Bid Item No.</u>           |
|--|-------------------------------|
| A. Section includes:   |                               |
| 1. Clearing and Grubbing   | SD-01                         |
| 2. Excavation Below Subgrade   | SD-02                         |
| 3. Pulverize Asphaltic Concrete Pavement   | SD-03                         |
| 4. Mill Asphaltic Concrete Pavement  | SD-04                         |
| 5. Crushed Aggregate Base and Surface Course   | SD-05                         |
| 6. Asphaltic Concrete Pavement   | SD-06, SD-07, SD-08,<br>SD-09 |
| 7. Asphalt Patch   | SD-10, SD-11                  |
| 8. Portland Cement Concrete Curb and Gutter  | SD-12, SD-13                  |
| 9. Portland Cement Concrete Pavement   | SD-14                         |
| 10. Portland Cement Concrete Driveway and Sidewalk   | SD-15, SD-16, SD-17           |
| 11. Portland Cement Concrete Sidewalk (Merrill Reservoir)  | SD-18                         |
| 12. Deformed Reinforcement Bars  | SD-19                         |
| 13. Drilling Tie Bars and Dowel Bars   | SD-20, SD-21, SD-22           |
| 14. Detectable Warning Field Natural   | SD-23                         |
| 15. Salvage and Reset Brick Pavers   | SD-24                         |
| 16. Traffic Control  | SD-25, 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 tree.
  3. Grinding down of tree stump to a depth of one (1') foot.
  4. Removing and disposing of roots and stump grindings.
- B. Measurement and payment will be by the tree diameter in inches. The tree diameter will be determined by measuring the tree's trunk circumference approximately 4-1/2 feet above the existing ground level, but above the ground swell, and dividing by three. Diameters will be rounded to the nearest inch.
- C. The unit of measurement for payment in inch diameter.

### 1.4 EXCAVATION BELOW SUBGRADE

- A. The unit price for Excavation Below Subgrade work includes:
  1. General Work Items of Article 1.2.
  2. Excavation below subgrade as directed by the Engineer.
  3. Hauling of unclassified material.
  4. Compaction of subgrade.
  5. Test rolling subgrade.
  6. Disposal of unsuitable material.
  7. Placing and compacting pulverized material from the site.
  8. Finish grading.

- B. Measurement of payment will be the computed volume by comparing the elevation of the bottom of the asphaltic concrete pavement and the bottom of the excavation surface.
- C. The unit of measurement for payment is cubic yards.

**1.5 PULVERIZE ASPHALTIC CONCRETE PAVEMENT**

- A. The unit price for Pulverize Asphaltic Concrete Pavement work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Pulverizing asphaltic concrete pavement with crushed aggregate base course the depth on the plans.
  - 3. Compacting and fine grading of pulverized material.
  - 4. Removal of excess material to established grade elevations.
- B. Measurement for payment will be the average horizontal length and width of roadway.
- C. The unit of measurement for payment is square yards.

**1.6 MILL ASPHALTIC CONCRETE PAVEMENT**

- A. The unit price for Mill Asphaltic Concrete Pavement work includes:
  - 1. General Work Items of Article 1.2.
  - 2. Milling to length, width and depth as shown on Drawings or specified elsewhere.
  - 3. Hauling and disposing of millings.
  - 4. Cleaning of area milled.
- B. Measurement for payment will be the average horizontal length and width of roadway.
- C. The unit of measurement for payment is square yards.

**1.7 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 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. Aggregates in excess of seven percent (7%) total moisture determined based on the dry mass of the aggregates will have moisture content in excess of seven percent (7%) deducted from the measured weight.

C. The unit of measurement for payment is tons.

**1.8 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:

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.

**1.9 ASPHALT 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.

1. All patches greater than 10 square yards will be paid as a large patch.
2. All patches less than or equal to 10 square yards will be paid as a small patch.

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

#### 1.10 PORTLAND CEMENT CONCRETE CURB AND GUTTER

A. The unit price for Portland Cement Concrete Curb and Gutter work includes:

2. General Work Items of Article 1.2.
3. Providing Portland cement concrete mixture of size shown in the drawings or specified elsewhere.
4. Providing expansion joints.
5. Providing curing.
6. Existing curb and gutter removal.
7. Subgrade preparation.
8. Provide crushed aggregate base.
9. Fine grading of subgrade.
10. Providing contraction joints.
11. Driveway entrances and handicap ramp entrances.
12. Adjustment of catch basin/inlets.
13. Finishing.
14. Protection.
15. Restoration behind the curb.

B. Measurement for payment will be along the flow line of the gutter and through inlets/catch basins.

1. All curb and gutter replacement equal to or greater than 100 linear feet shall be paid as curb and gutter-slip form
2. Curb and gutter shorter than 100 linear feet but completed with a slip form paver shall be paid as curb and gutter-slip form.

C. The unit of measurement for payment is linear feet.

**1.11 PORTLAND CEMENT CONCRETE PAVEMENT**

- A. The unit price for Portland Cement Concrete Pavement 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. Drilling tie bars and dowel bars into existing pavement.
  7. Joint sealing.
  8. Providing curing.
  9. Concrete sealing with linseed oil.
  10. Fine grading of subgrade.
  11. Providing expansion joints and contraction joints.
  12. Adjustment of manholes, water valves, inlets/catch basin and other structures to finish grade.
  13. Finishing.
  14. Protection.
- B. Measurement for payment will be length and width of areas paved. Concrete curb and gutter will be measured separately, regardless if the curb is installed with integral curb. Curb and gutter will be paid per linear foot for twenty-four (24) inch width. The width and length will be subtracted from the concrete pavement area if integral curb is constructed.
- C. The unit of measurement for payment is square yard.

**1.12 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.

**1.13 PORTLAND CEMENT CONCRETE SIDEWALK AND RESTORATION**

- A. The unit price for Portland Cement Concrete Sidewalk and Restoration 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 for the sidewalk and flume at the Merrill Reservoir.
  - 3. Providing reinforcement.
  - 4. Providing expansion joint.
  - 5. Providing curing.
  - 6. Existing pavement removal.
  - 7. Subgrade preparation.
  - 8. Providing contraction joints.
  - 9. Saw cutting adjacent surfaces.
  - 10. Finishing.
  - 11. Protection.
  - 12. Restoration.
- B. Measurement for payment will not be made.
- C. The unit of measurement for payment is lump sum.

**1.14 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.

**1.15 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.

**1.16 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 four (4) feet.

B. Measurement for payment will be the actual number of detectable warning field installed.

C. The unit of measurement for payment is each.

**1.17 SALVAGE AND RESET BRICK PAVERS**

- A. The unit price for Salvage and Reset Brick Pavers work includes:
1. General Work Items of Article 1.2.
  2. Removal and salvage of brick pavers.
  3. Storage of brick pavers.
  4. Sand setting course at the depth shown on the plans.
  5. Preparation of foundation to match existing slopes or slopes shown on the drawings.
  6. Placing and working the brick in the sand base.
  7. Filling joints between bricks with sand.

B. Measurement of payment will be the length and width of the area where pavers are removed and reset.

C. The unit of measurement for payment is square feet.

**1.18 TRAFFIC CONTROL**

- A. The unit price for Traffic Control work includes:
1. General Work Items of Article 1.2.

2. Providing, installing, maintaining, and removing the traffic control signing and barricades as shown on the plans or per the MUTCD.
  3. Traffic Detour, including covering signs when not in use (if applicable).
  4. Flaggers per the MUTCD.
  5. Temporary traffic control signals (activated) per the MUTCD, if utilized.
  6. Sidewalk closure.
- B. Measurement for payment will not be made.
- C. The unit of measurement for payment is for each intersection lump sum.

END OF SECTION

SECTION 01 22 05

MEASUREMENT AND PAYMENT SPECIAL CONSTRUCTION

PART 1 – GENERAL

1.1 SUMMARY

- |   |                                      |
|---|--------------------------------------|
| A. Section includes:                              | <u>Bid Item No.</u>                  |
| 1. Inlet Protection Erosion Control               | SC-01                                |
| 2. Adjusting Existing Structure Frame and Casting | SC-02, SC-03, SC-04,<br>SC-05, SC-06 |
| 3. Manhole Reconstruct                            | SC-07                                |
| 4. Remove and Reinstall Mailboxes                 | SC-08                                |
| 5. Remove and Reset Chain Link Fence              | SC-09                                |
- 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 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.
  9. Shop drawings and other submittals.

**1.3 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.

**1.4 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. Provide new casting if stated in the bid item.
  - 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 ¼ inch thru 3 inch thick ring using two <sup>5</sup>/<sub>16</sub> 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.

**1.5 MANHOLE RECONSTRUCT**

- A. The unit price for Manhole Reconstruct work includes:
  - 1. General Work Items of Article 1.2.
  - 2. City of De Pere will provide structure castings. Contractor will pick up castings at 925 South Sixth Street.
  - 3. Removal of the casting, existing adjusting rings and sections of structure.
  - 4. Providing precast cone section for manholes.
  - 5. Providing concrete adjusting rings and a 2 inch rubber riser ring from the WisDOT approved product list.
  - 6. Bituminous plastic cement sealing the exterior of the adjusting rings and casting.

7. The ring will be secured to the precast section with a 3 ½ inch wide Kent Seal or equal.
8. Above the concrete ring attach ¼ inch thru 3 inch thick ring using two <sup>5</sup>/<sub>16</sub> inch bead above and below the ring of sealant type as recommended by the rubber manufacturer.
9. Initial and final adjustment.
10. Backfilling and compacting.

B. Measurement for payment will be distance from the lowest elevation of the new precast section to the top of the frames and cover as set.

C. The unit of measurement for payment is each.

**1.6 REMOVE AND REINSTALL MAILBOXES**

A. The unit price for Remove and Reinstall Mailboxes work includes:

1. General Work Items of Article 1.2.
2. Removing and storing item as identified in the bid.
3. Provide temporary mailbox.
4. Reinstall prior to final restoration.

B. Measure of payment will be the actual number installed.

C. The unit of measurement for payment is each.

**1.7 REMOVE AND RESET CHAIN LINK FENCE**

A. The unit price for Remove and Reset Chain Link Fence work includes:

1. General Work Items of Article 1.2.
2. Unbolt and remove existing fence shown on the plans and in conflict with the storm sewer repair.
3. Reinstall of chain link fence.

B. Measurement for payment will not be made.

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

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 3rd 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.

- 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**

**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**

**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.

- 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.
1. 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.
1. 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.

- 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 four (4) hard copies or electronic copies 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

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 four (4) copies of each required submittal. The Engineer will retain two (2) copies, and return the others 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:
  - 1. "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.

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

**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.

**1.5 PERMITS FOR PROJECT**

- A. The following permits are being obtained by the Owner:

**Project 22-01**  
**Sewer and Water Relay and Street Resurfacing**

**City of De Pere**

1. WDNR – Water Main Extension
2. WDNR – WRAPP - NOI

B. Any costs associated with violations pertaining to the NOI permit will be the responsibility of the Contractor.

PART 2 – PRODUCTS (Not used)

PART 3 – EXECUTION (Not used)

END OF SECTION

**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 PROVIDE 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.

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 32 01 16.10**

**PULVERIZE ASPHALT PAVEMENTS**

**PART 1 – GENERAL**

**1.1 SUMMARY**

- A. Section Includes:
1. Cold Recycling of asphaltic pavements

**PART 2 – PRODUCTS**

**2.1 EQUIPMENT**

- A. Crushing Equipment
1. Crushing equipment may be an in-place crusher or a central crusher.
  2. In-place crusher:
    - a. Provide a self-propelled machine designed and built for reduction in size of old pavement material in-place.
    - b. Provide a rotary reduction machine, having positive depth and control adjustments in increments of ½ inch and capable of reducing material to at least 6 inches thick.
    - c. Provide a totally enclosed drum to prevent discharge of any loosened material on adjacent areas.
  3. Pulverize the full depth of the existing asphaltic pavement until 97 percent or more will pass the 2-inch sieve. Also pulverize the existing base to the depth the plans show and mix with the pulverized asphaltic pavement.
- B. Compaction
1. Provide a vibratory roller capable of exerting a minimum total force of 450 lbs. per linear inch of roller drum.

**PART 3 – EXECUTION**

**3.1 PREPARATION**

- A. Clean the pavement surfaces of excessive dirt, clay or other foreign material immediately prior to milling the pavement.
- B. Saw cut pavement at project ends and side roads to provide proper butt joint.

**3.2 APPLICATION**

- A. Work includes scarifying, pulverizing, crushing, redistributing, blending, shaping, rolling and

compacting of recrushed aggregate material to proper elevation and slope.

- B. Protect from damage manholes, valve boxes, and any other items in the roadway.

END OF SECTION

**SECTION 33 00 02.1**

**FUSIBLE POLYVINYL CHLORIDE (PVC) PIPE**

PART 1 – GENERAL

1.1 SUMMARY

- A. Section Includes:
  - 1. PVC pipe for water main
- B. The products described are not installed under this Section.
- C. This specification section is a supplemental to the City of De Pere 2012 Standard Specifications and Section 33 00 02 Polyvinyl Pipe (PVC) Pipe and Fittings.
- D. This material specification covers the requirements of fusible polyvinylchloride pipe, including Fusible C-900 and Fusible C-905.

1.2 REFERENCES

- A. American Society for Testing and Materials (ASTM):
  - 1. D1784 Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride)(CPVC) Compounds
  - 2. D1785 Specifications for Poly (Vinyl Chloride) (PVC) Plastic Pipe Schedules 40, 80, and 120
  - 3. D2152 Test Method for Degree of Fusion of Extruded Poly(Vinyl Chloride)(PVC) Pipe and Molded Fittings by Acetone Immersion.
  - 4. D2241 Standard Specification for Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series)
- B. American Water Works Association (AWWA)
  - 1. C900 Standard for Polyvinyl Chloride (PVC) Pressure Pipe, 4-inch through 12-inch for water
  - 2. C905 Standard for Polyvinyl Chloride (PVC) Water Transmission Pipe, Nominal Diameters 14-inch through 36-inch
  - 3. M23 Manual of Supply Practices PVC Pipe-Design and Installation, Second Edition
- C. National Sanitation Foundation (NSF)
  - 1. NSF-14 Plastic Piping System Components and Related Materials
  - 2. NSF-61 Drinking Water Components-Health Effects

- D. PPI
  - 1. TR-2 PVC Range Composition Listing Qualified Ingredients

**1.3 SUBMITTALS**

- A. Submit the following:
  - 1. Certification of production date of all materials.
  - 2. Manufacturer's certification that the materials delivered were manufactured, sampled, tested, and inspected in accordance with these specifications and appropriate referenced standards.
  - 3. Product data sheet.
  - 4. Manufacturer's recommendations for assembly.

**1.4 QUALITY ASSURANCE**

- A. Make pipe available to the Engineer's Representative for inspection.
- B. Pipe shall be considered defective and will be rejected when:
  - 1. Pitted or cratered.
  - 2. Flaking.
  - 3. Straightness varies more than ½ inch in 10 feet.
  - 4. Any defect which prevents assembly according to manufacturer's recommendations.
  - 5. Not utilized within six months of date of production.
  - 6. Pipe is not properly marked.
- C. Material brands and/or pipe classes shall not be mixed.
- D. Pipe Marking – pipe and fittings shall be marked as follows:
  - 1. Manufacturer's name, trademark or logo.
  - 2. Nominal size.
  - 3. PVC cell classification.
  - 4. Pipe stiffness designation, dimension ratio, or schedule size and pressure class.
  - 5. ASTM or AWWA specification designation.
  - 6. National Sanitation Foundation approval (pipe for potable water).
  - 7. Production date.
- E. MANUFACTURER REQUIREMENTS
  - 1. All piping shall be made from PVC compound conforming to cell classification 12454 per ASTM D1784.
- F. FUSION TECHNICIAN REQUIREMENTS
  - 1. Fusion Technician shall be qualified by the pipe supplier to install fusible polyvinylchloride pipe. Qualification shall be current as of the actual date of the fusion performance on the project.

G. SPECIFIED PIPE SUPPLIERS

1. Fusible polyvinylchloride pipe shall be used as manufactured under the trade names Fusible C-900, or Fusible C-905 for Underground Solutions, Inc. or Engineer approved equal.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Inspect the pipe shipment to identify shifted loads, broken packaging or rough treatment, which could be an indication of damage.
- B. Unload the pipe in a manner which will not put stress on the pipe or strike anything causing damage.
- C. Place and store the pipe package units on level ground stacked no more than 8 feet high. Do not store close to heat sources.
- D. Store gaskets away from excessive exposure to heat, direct sunlight, ozone, oil or grease.
- E. Store Solvent cement in tightly sealed containers away from excessive heat.
- F. Handle pipe in a manner to prevent impact blows, abrasion damage, gouging or cutting.
- G. When handling pipe in cold weather, provide additional care to prevent damage due to impact. Impact strength is reduced in cold weather.

PART 2 – PRODUCTS

2.1 WATER MAIN

- A. Fusible polyvinylchloride pipe for potable water shall conform to AWWA C900, ASSA C905, or ASTM D2241, as applicable. Testing shall be in accordance with the referenced AWWA standards for all pipe types. Pipe shall be marked verifying suitability for potable water service per NSF-61
- B. Fusible polyvinylchloride pipe shall be extruded with plain ends. The ends shall be square to the pipe and free of any bevel or chamfer. There shall be no bell or gasket of any kind incorporated into the pipe.
- C. The pipe shall be manufactured in a standard 40 foot nominal length or custom lengths, unless otherwise approved by the Engineer.
- D. Pipe shall be blue in color for potable water use.

2.2 FUSION JOINTS

- A. Unless otherwise specified, fusible polyvinylchloride pipe lengths shall be assembled in the field with butt-fused joints.

**2.3 FUSIBLE POLYVINYLCHLORIDE SWEEPS OR BENDS**

- A. Sweeps or bends shall conform to the same sizing convention, diameter, dimensional tolerances and pressure class of the pipe being joined by the sweep or bend.
- B. Sweeps or bends shall be manufactured from the same fusible polyvinyl chloride pipe being used for the installation, and shall have at least two feet of straight section on either end of the sweep or bend to allow for fusion of the sweep to the pipe installation.
- C. Angles shall not be greater than 22.5 degrees, and shall be used in nominal diameters ranging from 4-inch through 16-inch.

**PART 3 – EXECUTION**

**3.1 FUSION PROCESS**

- A. Pipe shall be handled in a safe and non-destructive manner before, during, and after the fusion process and in accordance with this specification and the pipe supplier's guidelines.
- B. Pipe shall be fused by a qualified fusion technician.
- C. Pipe supplier's procedures shall be followed at all times during fusion procedures.
- D. Each fusion shall be recorded and logged by an approved electronic monitoring device (data logger) connected to the fusion machine, which utilizes a current version of the pipe suppliers recommended and compatible software.
- E. Only appropriately sized and outfitted fusion machines that have been approved by the pipe supplier shall be used for the fusion process.

**3.2 GENERAL INSTALLATION**

- A. Installation guidelines from the pipe supplier shall be followed for all installations.
- B. The Pipe shall be installed in a manner so as not to exceed the recommended bending radius guidelines.
- C. Where pipe is installed by pulling in tension, the recommended maximum safe pulling force, established by the pipe supplier, shall not be exceeded.

**END OF SECTION**

**SECTION 33 00 05**

**DOUBLE AND TRIPLE WALLED POLYPROPYLENE PIPE**

**PART 1 – GENERAL**

**1.1 SUMMARY**

- A. Section Includes:
  - 1. Double walled polypropylene pipe for mainline gravity storm sewer.
  - 2. Triple walled polypropylene pipe for mainline gravity storm sewer.
- B. The products described are not installed under this Section.

**1.2 REFERENCES**

- A. American Society for Testing and Materials (ASTM):
  - 1. D3212 Standard Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals
  - 2. F477 Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe
  - 3. F2736 Standard Specification for 6 to 27 in. (152 To 762 mm) Polypropylene (PP) Corrugated Single Wall Pipe And Double Wall Pipe
  - 4. F2764 Standard Specification for 30 to 60 in. [750 to 1500 mm] Polypropylene (PP) Triple Wall Pipe and Fittings for Non-Pressure Sanitary Sewer Applications

**1.3 SUBMITTALS**

- A. Submit the following:
  - 1. Certification of production date of all materials.
  - 2. Manufacturer's certification that the materials delivered were manufactured, sampled, tested, and inspected in accordance with this specifications and appropriate referenced standards.
  - 3. Product data sheet.
  - 4. Manufacturer's recommendations for assembly.

**1.4 QUALITY ASSURANCE**

- A. Make pipe available to the Engineer's Representative for inspection.
- B. Pipe shall be considered defective and will be rejected when:
  - 1. Pitted or cratered.
  - 2. Flaking.

3. Straightness varies more than ½ inch in 10 feet.
4. Any defect which prevents assembly according to manufacturer's recommendations.
5. Not utilized within twelve months of date of production.
6. Pipe is not properly marked.

C. Material brands and/or pipe classes shall not be mixed.

D. Pipe Marking – pipe and fittings shall be marked as follows:

1. Manufacturer's name, trademark or logo.
2. Nominal size.
3. Pipe stiffness designation, dimension ration, or schedule size and pressure class.
4. ASTM specification designation.
5. Production date.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Inspect the pipe shipment to identify shifted loads, broken packaging or rough treatment, which could be an indication of damage.
- B. Unload the pipe in a manner which will not put stress on the pipe or strike anything causing damage.
- C. Place and store the pipe package units on level ground stacked no more than 8 feet high. Do not store close to heat sources.
- D. For onsite gasket installation on pipe, store gaskets away from excessive exposure to heat, direct sunlight, ozone, oil or grease.
- E. For gaskets installed on the pipe offsite, keep the protective wrap on gaskets until installation.
- F. Handle pipe in a manner to prevent impact blows, abrasion damage, gouging or cutting.
- G. When handling pipe in cold weather, provide additional care to prevent damage due to impact.

#### PART 2 – PRODUCTS

##### 2.1 NON-PRESSURE RATED PIPE

A. Mainline Gravity Sewer and Sewer Services

1. Pipe fittings and repair couplings shall be manufactured and tested in accordance with the following standards:
  - a. Sizes 8 inch through 27 inch and depths up to 20 feet: ASTM F2736, PSM SDR-35 PVC
  - b. Sizes 30 inch through 60 inch and depths up to 20 feet: ASTM F2764, PS46 PVC, T-1 minimum cell classification

2. Pipe shall have a minimum pipe stiffness of 46 PSI.
3. Minimum height of cover to the top of pipe to the existing elevation or proposed finished elevation (whichever is less) shall be two feet.
4. Elastomeric Gaskets: Conform with ASTM F477
5. Elastomeric Joints: Conform with ASTM D3212
6. Solvent Weld Joints: Not permitted.

**B. Sewer Services**

1. 4" and 6" pipe shall be Schedule 40 PVC and conform to section 33 00 02, Polyvinyl Chloride (PVC) Pipe and Fittings.
2. Branch laterals shall be designed to accept SDR 35.

**2.2 DEFLECTION TEST REQUIREMENTS**

A. Deflection testing procedures shall conform to Section 01 45 23 10, Testing and Inspection of Pipeline and Appurtenances.

B. The following table shall be used for the mandrel setting for Polypropylene Pipe:

**Table 1  
SaniTite HP Recommended Mandrel Settings**

Pipe Type	Pipe Diameter (Inches)	Minimum Inside Diameter (Inches)	Inside Diameter With 5% Deflection (Inches)
Dual Wall	12	11.90	11.31
	15	14.85	14.11
	18	17.93	17.03
	21	20.79	19.75
	24	23.90	22.71
	30	29.79	28.30
Triple Wall	30	29.62	28.14
	36	35.40	33.63
	42	41.31	39.24
	48	47.31	44.94
	60	59.30	56.34

END OF SECTION

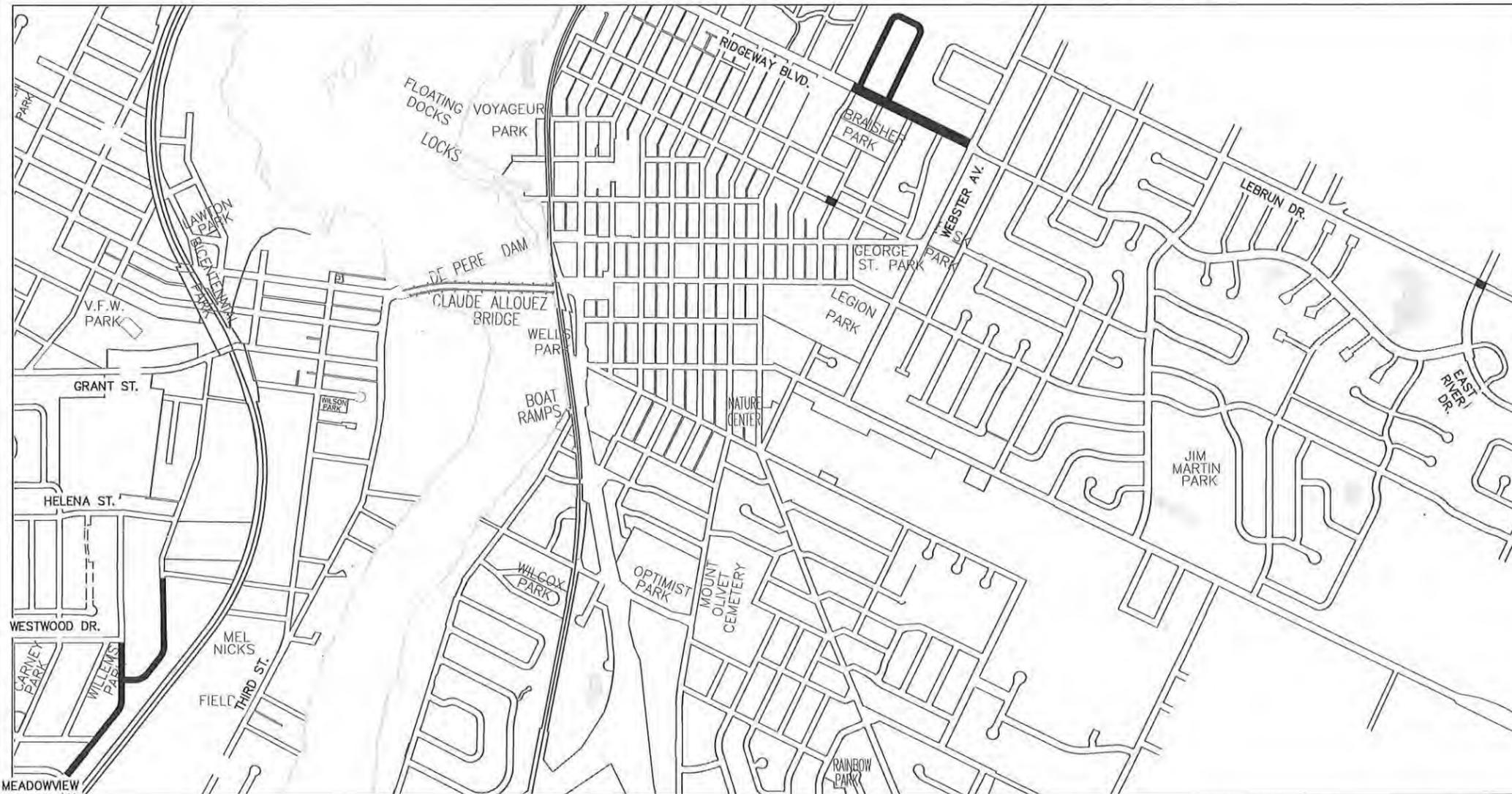
# PROJECT# 22-01

## SEWER AND WATER RELAY AND STREET RESURFACING

CITY OF DE PERE



**ENGINEER DIVISION**  
925 S. SIXTH ST  
DE PERE, WI 54115



SITE LOCATION MAP  
N.T.S.



SHEET NO.	DESCRIPTION
G001	TITLE SHEET
G002	STANDARD ABBREVIATION & SYMBOLS
G003	TYPICAL SECTION
C101 - C103	SOUTH SEVENTH ST. SANITARY SEWER AND WATER MAIN PLAN AND PROFILE SHEETS
C104 - C106	SOUTH SIXTH ST. SANITARY SEWER AND WATER MAIN PLAN AND PROFILE SHEETS
C107 - C109	SOUTH SEVENTH ST. STORM SEWER AND STREET PLAN AND PROFILE SHEETS
C110 - C112	SOUTH SIXTH ST. STORM SEWER AND STREET PLAN AND PROFILE SHEETS
C113 - C115	RIDGEWAY BLVD. WATER MAIN PLAN AND PROFILE SHEETS
C116	RIDGEWAY BLVD. WATER MAIN INTERSECTION PLAN AND PROFILE SHEET
C117 - C118	WEST ST FRANCIS RD. SANITARY SEWER AND WATER MAIN PLAN AND PROFILE SHEETS
C119 - C120	EAST ST FRANCIS RD. SANITARY SEWER AND WATER MAIN PLAN AND PROFILE SHEETS
C121 - C122	WEST ST FRANCIS RD. STORM SEWER AND STREET PLAN AND PROFILE SHEETS
C123 - C124	EAST ST FRANCIS RD. STORM SEWER AND STREET PLAN AND PROFILE SHEETS
C125	EAST RIVER DR. AT LEBRUN DR. WATER MAIN EXTENSION PLAN AND PROFILE SHEETS
C126	LEGION PARK STORM AND CONCRETE REPAIR
C127	FRANKLIN ST AND WASHINGTON ST STORM REPAIR
C128	MERRILL ST RESERVOIR STORM SEWER
C129	SCHURING ROAD STRUCTURE ADJUSTMENT
C130	MISCELLANEOUS SPOT REPAIRS
C401 - C405	BENCH MARKS
C406 - C408	RIDGEWAY BLVD TRAFFIC CONTROL DETAILS
C501 - C505	CONSTRUCTION DETAILS

**CITY OF DE PERE  
BOARD OF PUBLIC WORKS**

DATE 3/25/2022 E.P. Rakers  
CITY ENGINEER

DATE 3/25/2022 Judith Schmitt-Lekun  
CITY ADMINISTRATOR

DATE 3/25/2022 J.J. Bugh  
MAYOR

STAMPS:



## LIST OF STANDARD ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC	N	NORTH
AGGR	AGGREGATE	NB	NORTHBOUND
AH	AHEAD	NC	NORMAL CROWN
ASPH	ASPHALT	NE	NORTHEAST
B/B	BACK TO BACK	NO	NUMBER
BARR	BARRICADE	NTS	NOT TO SCALE
BC	BACK OF CURB	NW	NORTHWEST
BK	BACK	O	OIL
BL	BASELINE	O&C	OIL AND CHIP
BLDG	BUILDING	OBLIT	OBLITERATE
BLVD	BOULEVARD	OD	OUTSIDE DIAMETER
BM	BENCHMARK	PC	POINT OF CURVATURE
BOW	BACK OF SIDEWALK	PCC	POINT OF COMPOUND CURVE
BSMT	BASEMENT	PCC	PORTLAND CEMENT CONCRETE
C	CUT	PE	PEDESTAL
C&G	CURB AND GUTTER	PLE	PERMANENT LIMITED EASEMENT
C/C	CENTER TO CENTER	PVMT	PAVEMENT
CABC	CRUSHED AGGREGATE BASE COURSE	PE	PRIVATE ENTRANCE
CB	CATCH BASIN	PI	POINT OF INTERSECTION
CE	CONSTRUCTION ENTRANCE	PJF	PRE-FORMED JOINT FILLER
CI	CAST IRON PIPE	PL	PROPERTY LINE
CL	CENTERLINE	POC	POINT OF CURVE
CMP	CORRUGATED METAL PIPE	POT	POINT ON TANGENT
CNTY	COUNTY	PP	POLYETHYLENE
CO	CLEANOUT	PRC	POINT OF REVERSE CURVATURE
CONC	CONCRETE	PROJ	PROJECT
CONSTR	CONSTRUCTION	PROP	PROPOSED
CONSTR JT	CONSTRUCTION JOINT	PSI	POUND PER SQUARE INCH
CORP	CORPORATION	PT	POINT OF TANGENCY
CP	CONTROL POINT	PVC	POLYVINYL CHLORIDE
CTH	COUNTY TRUNK HIGHWAY	R	RANGE OR RADIUS
CTRL JT	CONTROL JOINT	RCP	REINFORCED CONCRETE PIPE
CTV	CABLE TV	REBAR	REINFORCEMENT BAR
CY	CUBIC YARD	REL	RELOCATE
D	DEPTH	REM	REMAINING
DIA	DIAMETER	REQD	REQUIRED
DI	DUCTILE IRON PIPE	RL	REFERENCE LINE
DISCH	DISCHARGE	ROW	RIGHT OF WAY
DW	DRIVEWAY	RP	REFERENCE POINT
E	EAST (SEE ELEC BELOW)	RR	RAILROAD
EA	EACH	RT	RIGHT
EB	EASTBOUND	RW	RETAINING WALL
EBS	EXCAVATION BELOW SUBGRADE	S	SOUTH
ECS	EXTERNAL CHIMNEY SEAL	SALV	SALVAGE
EL	ELEVATION	SAN	SANITARY
ELEC	ELECTRIC (E WHEN USED IN LINE STYLE)	SB	SOUTHBOUND
EMB	EMBANKMENT	SDWK	SIDEWALK
ENTR	ENTRANCE	SE	SOUTHEAST
EP	EDGE OF PAVEMENT	SF	SQUARE FEET
EW	ENDWALL	SHLDR	SHOULDER
EXC	EXCAVATION	SY	SQUARE YARD
EXIST	EXISTING	SS	STORM SEWER
F	FILL	SSD	STOPPING SIGHT DISTANCE
F/F	FACE TO FACE	ST	STREET
FDN	FOUNDATION	STA	STATION
FE	FIELD ENTRANCE	STD	STANDARD
FERT	FERTILIZER	STH	STATE HIGHWAY TRUNK
FIN GR	FINISHED GRADE	STM	STORM
FL	FLOWLINE	STP	SEWAGE TREATMENT PLANT
FO	FIBER OPTIC	STRUCT	STRUCTURE OR STRUCTURAL
FOW	FRONT OF SIDEWALK	SW	SOUTHWEST
FT	FOOT	TAN	TANGENT
FTG	FOOTING	T	TOWN (T WHEN USED FOR TELEPHONE LINE)
G	GAS	TEL	TELEPHONE
GV	GAS VALVE	TEMP	TEMPORARY
GW	GUY WIRE	TLE	TEMPORARY LIMITED EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE	TOC	TOP OF CURB
HR	HANDICAP RAMP	TOW	TOP OF WATER
HSE	HOUSE	TRANS	TRANSITION
HT	HEIGHT	TYP	TYPICAL
HYD	HYDRANT	UG	UNDERGROUND
I	INTERSECTION ANGLE	USH	US HIGHWAY
ICS	INTERNAL CHIMNEY SEAL	VC	VERTICAL CURVE
ID	INSIDE DIAMETER	VERT	VERTICAL
IN	INCH	VOL	VOLUME
INL	INLET	VPC	VERTICAL POINT OF CURVATURE
INTERS	INTERSECTION	VPI	VERTICAL POINT OF INTERSECTION
INV	INVERT	VPRC	VERTICAL POINT OF REVERSE CURVE
IP	IRON PIPE OR PIN	VPT	VERTICAL POINT OF TANGENCY
JCT	JUNCTION	W	WEST
L	LENGTH (OF CURVE)	WB	WESTBOUND
LC	LONG CHORD OF CURVE	WM	WATERMAIN
LP	LIGHTPOLE	WSO	WATER SHUTOFF VALVE
LS	LIFT STATION OR LUMP SUM	WTP	WATER TREATMENT PLANT
LT	LEFT	WV	WATER VALVE
MAINT	MAINTENANCE	WWTP	WASTE WATER TREATMENT PLANT
MATL	MATERIAL	YD	YARD
MB	MAILBOX		
MH	MANHOLE		
MP	MARKER POST		

## MAPPING & TOPOGRAPHY SYMBOLOLOGY

DESCRIPTION	SYMBOL	
	EXISTING	PROPOSED
BENCHMARK		
BUSH		
CATCH BASIN/INLET		
CABLE TV BOX		
CONTROL POINT		
ELECTRICAL BOX		
EROSION CONTROL - INLET		
FIELD INLET		
GAS VALVE		
HEDGE		
HYDRANT		
IRON PIPE		
LIGHTPOLE		
MAILBOX		
MANHOLE ELECTRIC		
MANHOLE SANITARY		
MANHOLE STORM		
MONITORING WELL		
POWER POLE		
LIGHT POLE		
SIGN		
SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE		
SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE		
SOIL BORING		
STUMP		
TELEPHONE MANHOLE		
TELEPHONE PEDESTAL		
TREE		
WELL		
WATER SERVICE VALVE		
BUTTERFLY WATER VALVE		
WATER VALVE		

### GENERAL CONSTRUCTION NOTES:

1. ALL ELEVATIONS ARE REFERENCED TO NAVD 88.
2. THE WORK UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE CITY OF DE PERE, CURRENT CONSTRUCTION SPECIFICATIONS AND THESE SPECIAL PROVISIONS AND PLANS, AND THE LATEST ADDITION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION SPECIFICATIONS, LATEST EDITION, WHERE REFERENCED IN THE CITY SPECIFICATIONS.
3. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL CONFIRM TO THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES CONSTRUCTION SITE EROSION CONTROL AND TECHNICAL STANDARDS.
4. EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES. WHETHER SHOWN OR NOT, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES OWNERS SHALL BE NOTIFIED BY THE CONTRACTOR 72 HOURS PRIOR TO EXCAVATION.

## MAPPING & TOPOGRAPHY SYMBOLOLOGY

DESCRIPTION	SYMBOL
	<b>PLAN</b>
	(SIZE AND MATERIAL)
EXISTING SANITARY SEWER LINE	
PROPOSED SANITARY SEWER LINE	
	(SIZE AND MATERIAL)
EXISTING STORM SEWER LINE	
PROPOSED STORM SEWER LINE	
	(SIZE AND MATERIAL)
EXISTING WATER MAIN LINE	
PROPOSED WATER MAIN LINE	
EXISTING ELECTRICAL LINE	
EXISTING GAS MAIN LINE	
EXISTING TELEPHONE LINE	
EXISTING CABLE TV LINE	
EXISTING SANITARY LATERAL	
EXISTING WATER SERVICE	
RIGHT OF WAY	
PROPERTY LINE	
EASEMENT	
SILT FENCE EROSION CONTROL	
EXISTING FIBER OPTIC	
EXISTING MAJOR CONTOUR	
EXISTING MINOR CONTOUR	
PROPOSED MAJOR CONTOUR	
PROPOSED MINOR CONTOUR	
	<b>PROFILE</b>
	(SIZE AND MATERIAL)
EXISTING SANITARY SEWER LINE	
PROPOSED SANITARY SEWER LINE	
EXISTING STORM SEWER LINE	
PROPOSED STORM SEWER LINE	
EXISTING WATER MAIN LINE	
PROPOSED WATER MAIN LINE	

### PATCH SYMBOLS

ASPHALTIC CONCRETE PAVEMENT	CRUSHED AGGREGATE BASE COURSE
PORTLAND CEMENT CONCRETE	

**CITY OF DE PERE**

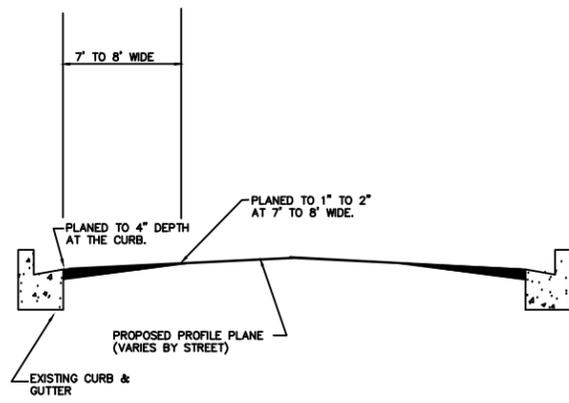
ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
OFFICE 920-339-4060 FAX 920-339-4071

**STANDARD ABBREVIATIONS  
AND SYMBOLS**

PROJECT NAME  
SEWER AND WATER RELAY  
AND STREET RESURFACING  
PROJECT # 22-01

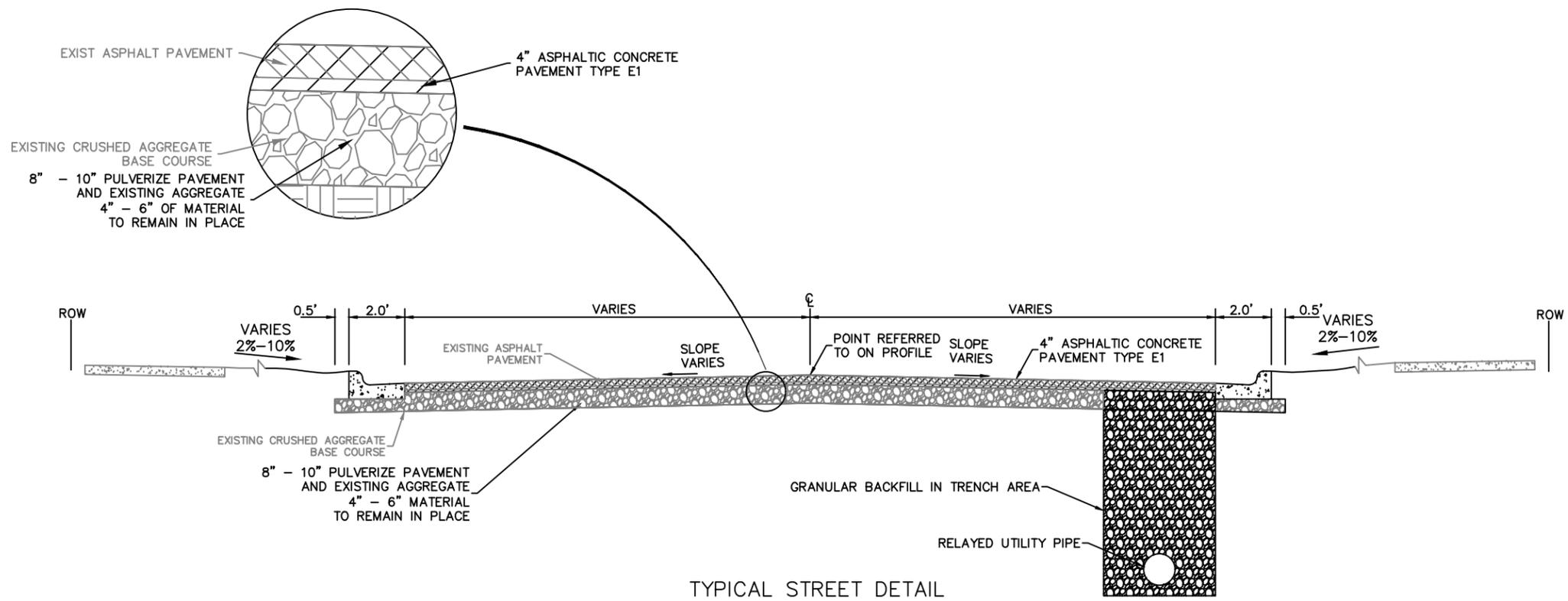
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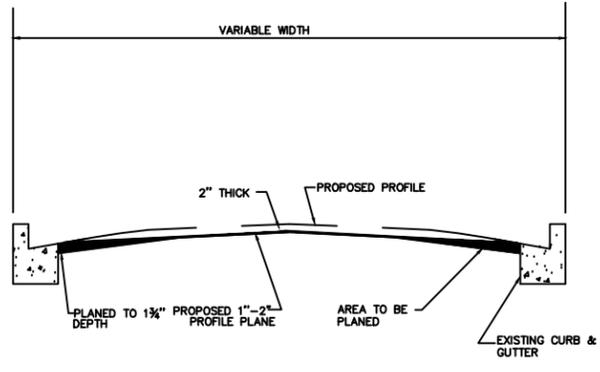


- NOTES**
- EXISTING ASPHALT AT EDGE OF GUTTER SHALL BE PLANNED TO A DEPTH OF 4" AND PLANNED TO A DEPTH OF 1" TO 2" FOR THE DESIRED CROSS-SLOPE. IN MOST CASES THE PROFILE PLANE WILL BE 1" UNIFORM DEPTH AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
  - MINIMUM THICKNESS OF OVERLAY SHALL BE 2" + 0.1" PLUS THE THICKNESS OF THE LEVELING COURSES.
  - LEVELING COURSES (SCRATCH COAT) OF ASPHALT TO A DEPTH AS REQUIRED SHALL BE PROVIDED IN AREAS OF LOCALIZED SETTLEMENT.
  - BITUMINOUS CONCRETE AGGREGATES USED IN OVERLAY WORK SHALL CONFORM TO GRADATION NO. 2, SURFACE COURSE.

**4" MILLING DETAIL**  
(LOCATIONS DETERMINED BY ENGINEER)



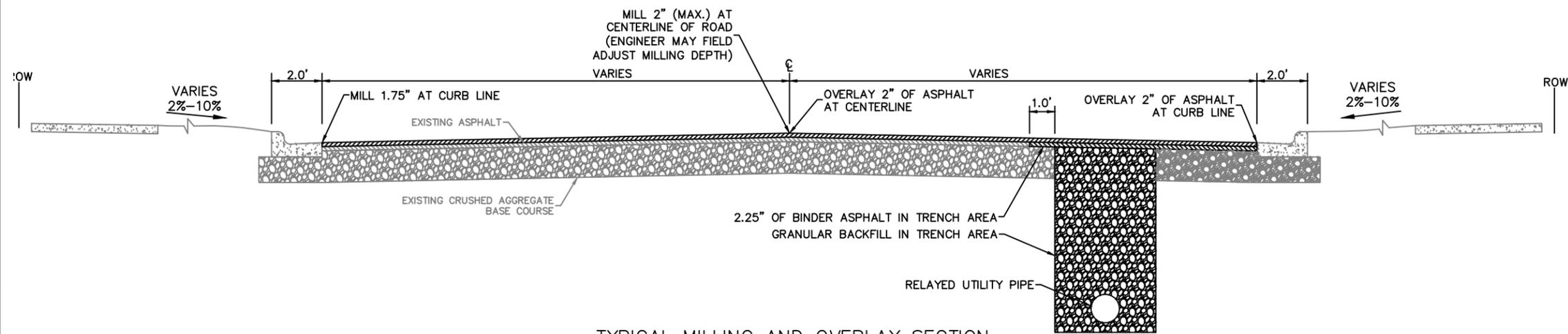
**TYPICAL STREET DETAIL**  
USING PULVERIZED MATERIAL  
SOUTH SEVENTH ST  
SOUTH SIXTH ST



- NOTES**
- EXISTING ASPHALT AT EDGE OF GUTTER SHALL BE PLANNED TO A DEPTH OF 1 3/4" AND PLANNED TO A DEPTH OF 1" FOR THE DESIRED CROSS-SLOPE. IN MOST CASES THE PROFILE PLANE WILL BE 1" UNIFORM DEPTH AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
  - MINIMUM THICKNESS OF OVERLAY SHALL BE 2" + 0.1" PLUS THE THICKNESS OF THE LEVELING COURSES.
  - LEVELING COURSES (SCRATCH COAT) OF ASPHALT TO A DEPTH AS REQUIRED SHALL BE PROVIDED IN AREAS OF LOCALIZED SETTLEMENT.
  - BITUMINOUS CONCRETE AGGREGATES USED IN OVERLAY WORK SHALL CONFORM TO GRADATION NO. 2, SURFACE COURSE.

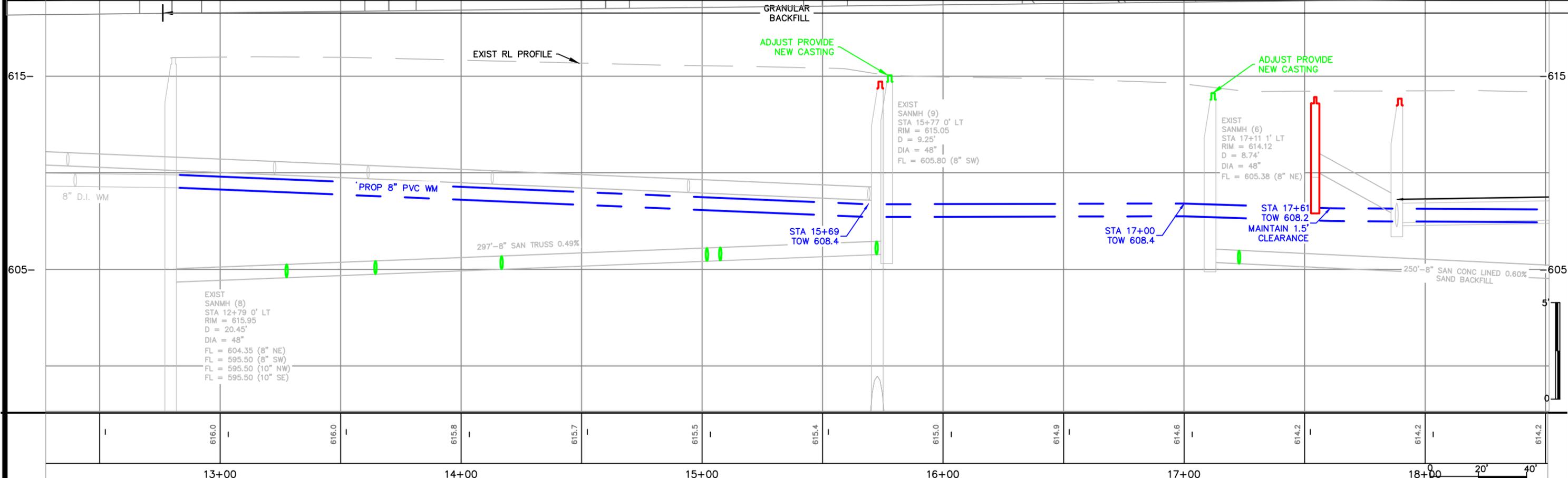
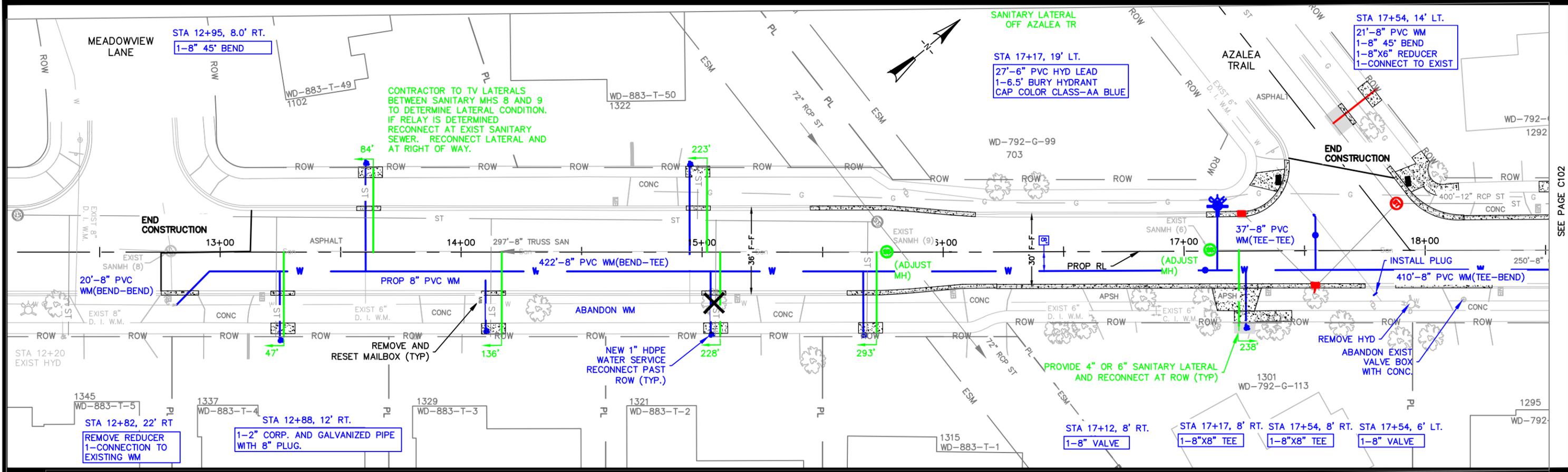
**MILLING AND RESURFACING DETAIL**  
(TRIPLE PASS PAVED STREET)

STREET WIDTH FACE CURB TO FACE CURB			
SOUTH SEVENTH ST	13+00	15+75	36' F-F
	13+00	15+75	30' F-F
SOUTH SIXTH ST			30' F-F
RIDGEWAY BLVD			21' F-F
WEST ST FRANCIS RD			30' F-F
EAST ST FRANCIS RD			30' F-F



**TYPICAL MILLING AND OVERLAY SECTION**  
WITH CURB AND GUTTER

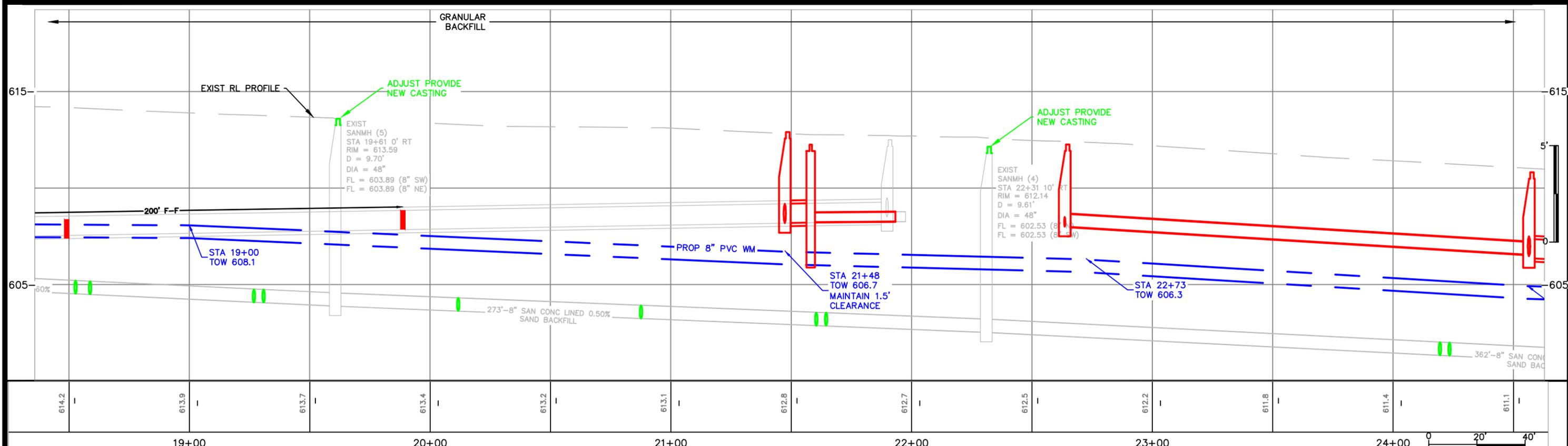
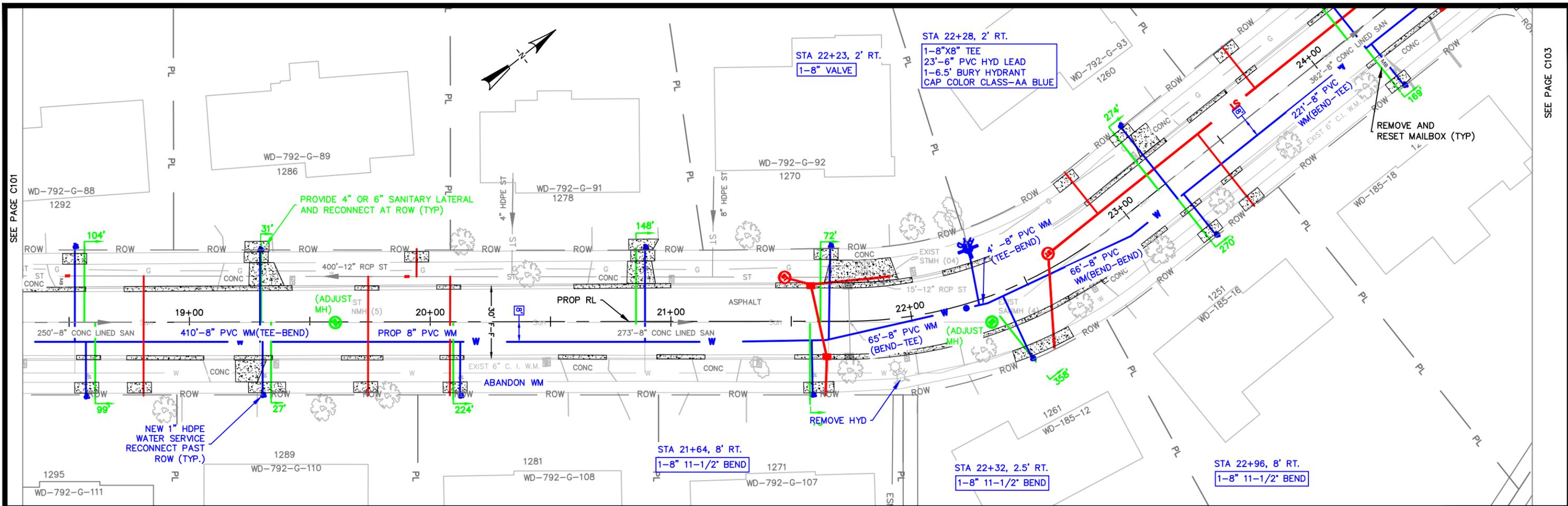
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	<b>CITY OF DE PERE</b> ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071		<b>SOUTH SEVENTH STREET          MEADOWVIEW LN. TO AZALEA TR.          SANITARY SEWER AND WATER MAIN</b>		NAME: SEWER AND WATER RELAY AND STREET RESURFACING PROJECT # 22-01	BY: MT DATE: 12-2021 DRAWN: BK DATE: 12-2021 DESIGNED: BK DATE: 12-2021 CHECKED: EPR DATE: 01-2022	REVISIONS / ISSUES <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	BY	REMARKS					PAGE NO. <b>C101</b>
	NO.	DATE	BY	REMARKS												

SEE PAGE C102

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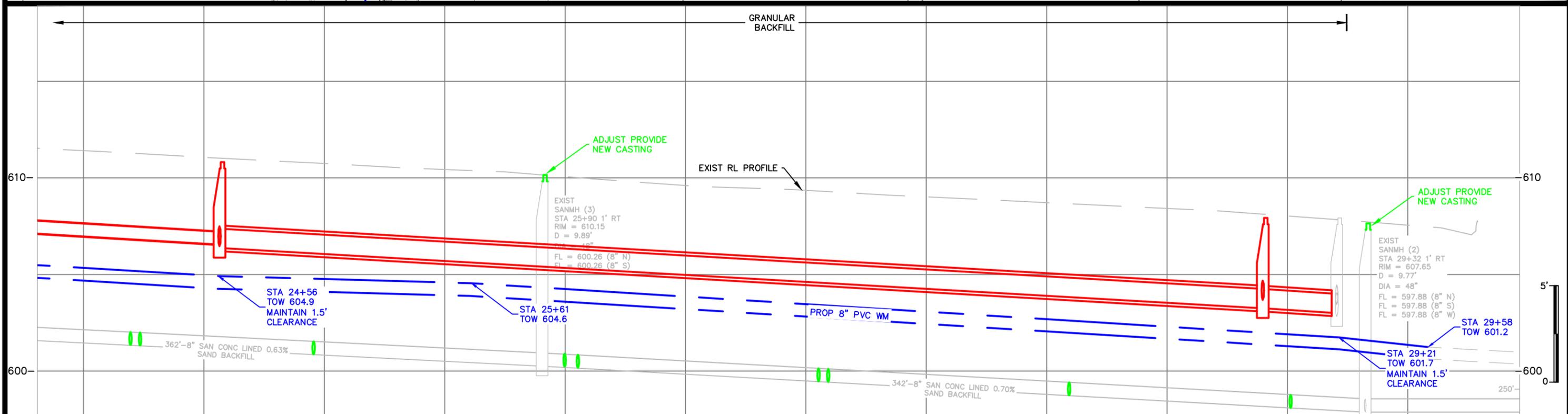
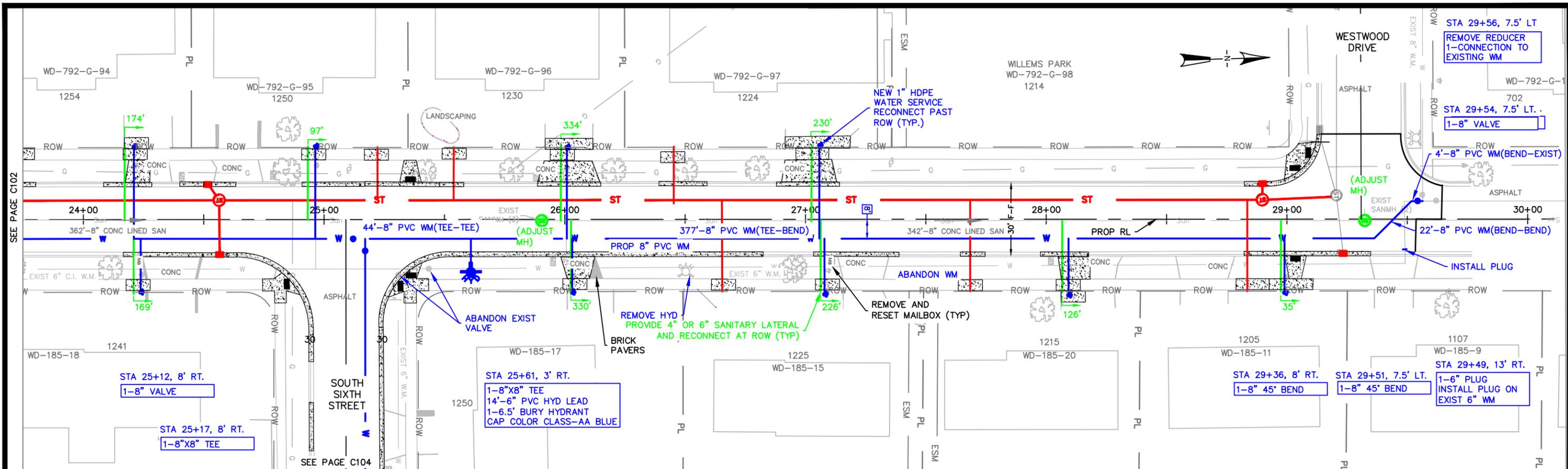


<b>CITY OF DE PERE</b> ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071	<b>SOUTH SEVENTH STREET</b> <b>AZALEA TR. TO 600' NORTH</b> <b>SANITARY SEWER AND WATER MAIN</b>	NAME: SEWER AND WATER RELAY AND STREET RESURFACING PROJECT # 22-01		BY: MT DATE: 12-2021	NO. DATE BY REMARKS	PAGE NO. <b>C102</b>
		SURVEYED: BK DRAWN: BK DESIGNED: BK CHECKED: EPR	DATE: 12-2021 DATE: 12-2021 DATE: 01-2022	REVISIONS / ISSUES		

SEE PAGE C101

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611.4	611.1	610.7	610.4	610.1	609.6	609.4	609.0	608.7	608.4	608.0	607.6
24+00	25+00	26+00	27+00	28+00	29+00	30+00					



**CITY OF DE PERE**  
ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
OFFICE 920-339-4061 FAX 920-339-4071

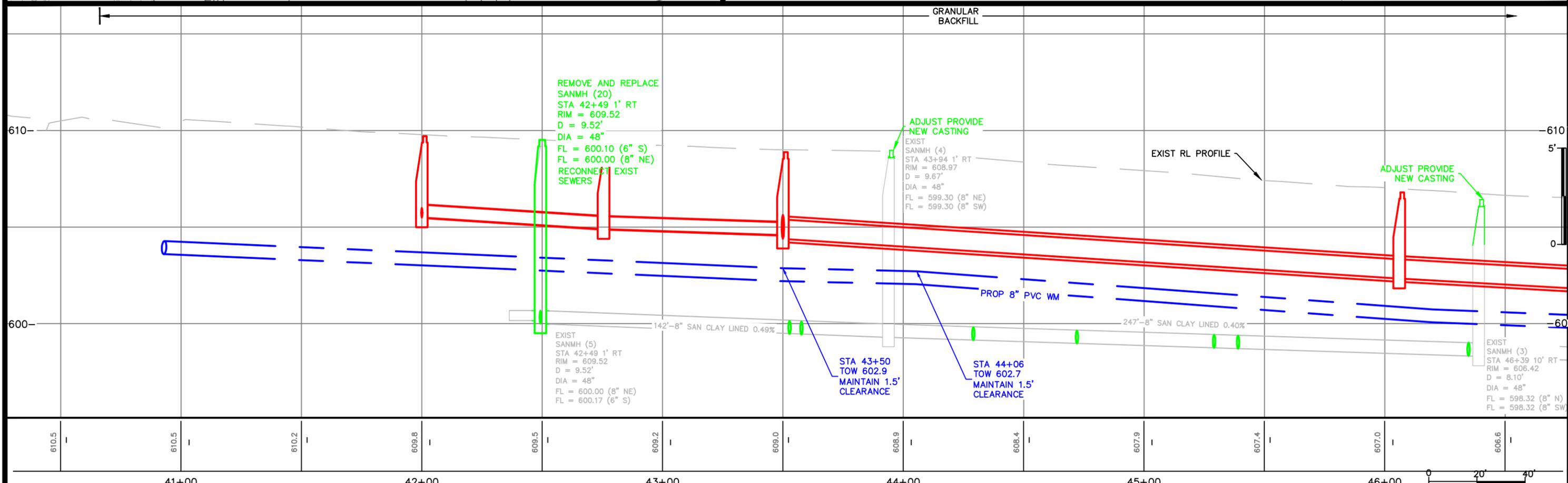
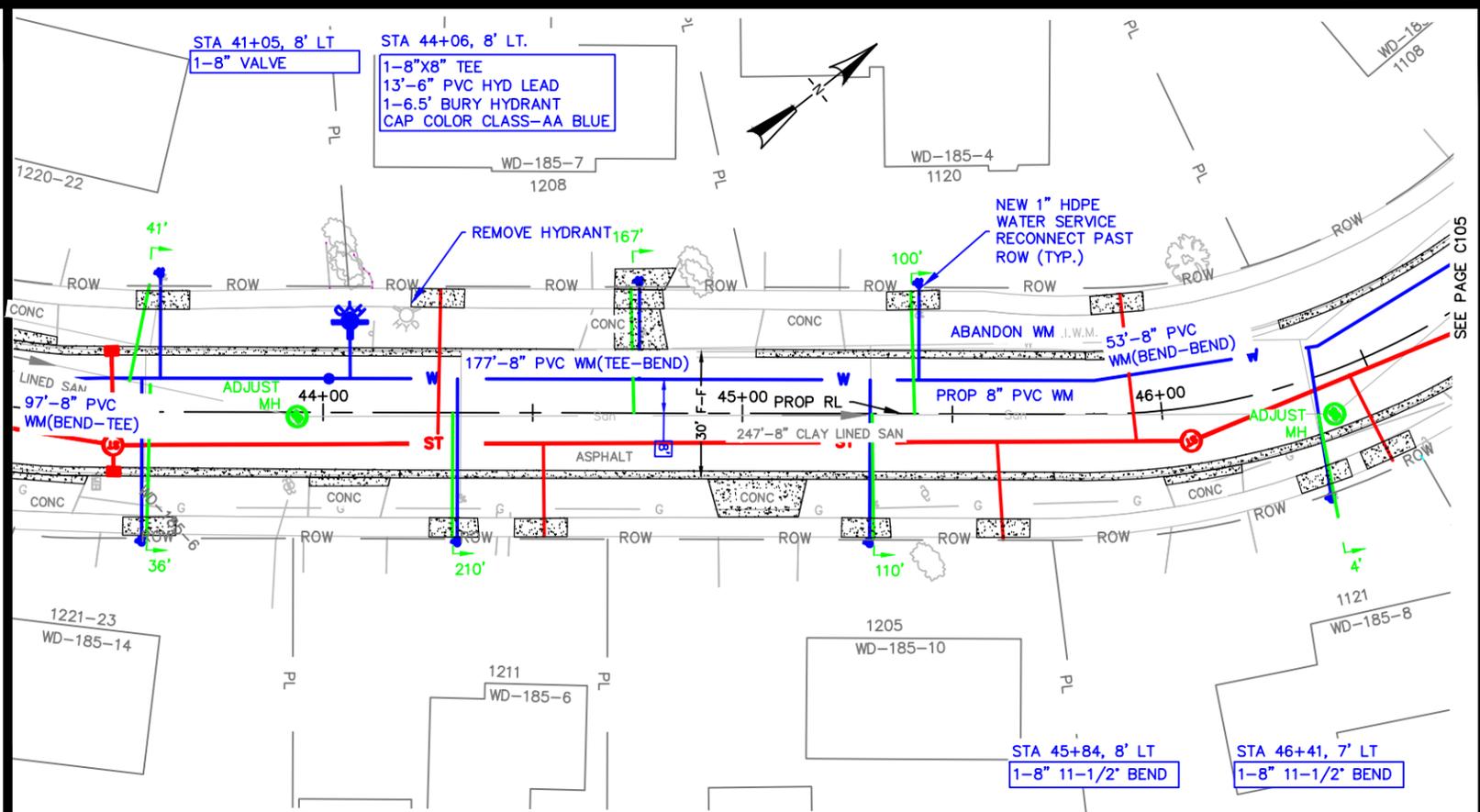
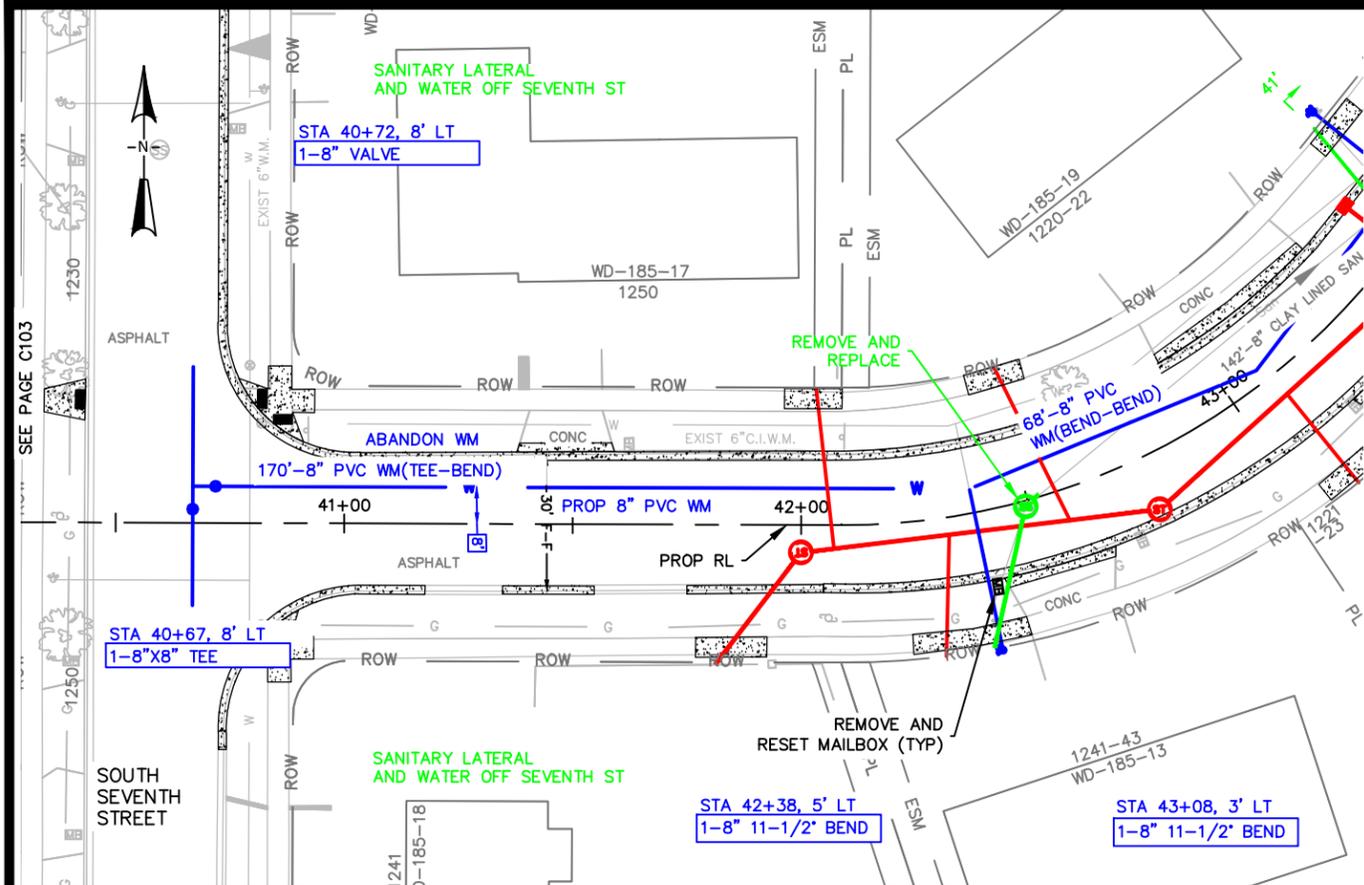
**SOUTH SEVENTH STREET**  
**600' NORTH OF AZALEA TR. TO WESTWOOD DR.**  
**SANITARY SEWER AND WATER MAIN**

NAME: SEWER AND WATER RELAY AND STREET RESURFACING  
PROJECT # 22-01

REVISIONS / ISSUES	
NO.	DATE

PAGE NO. **C103**

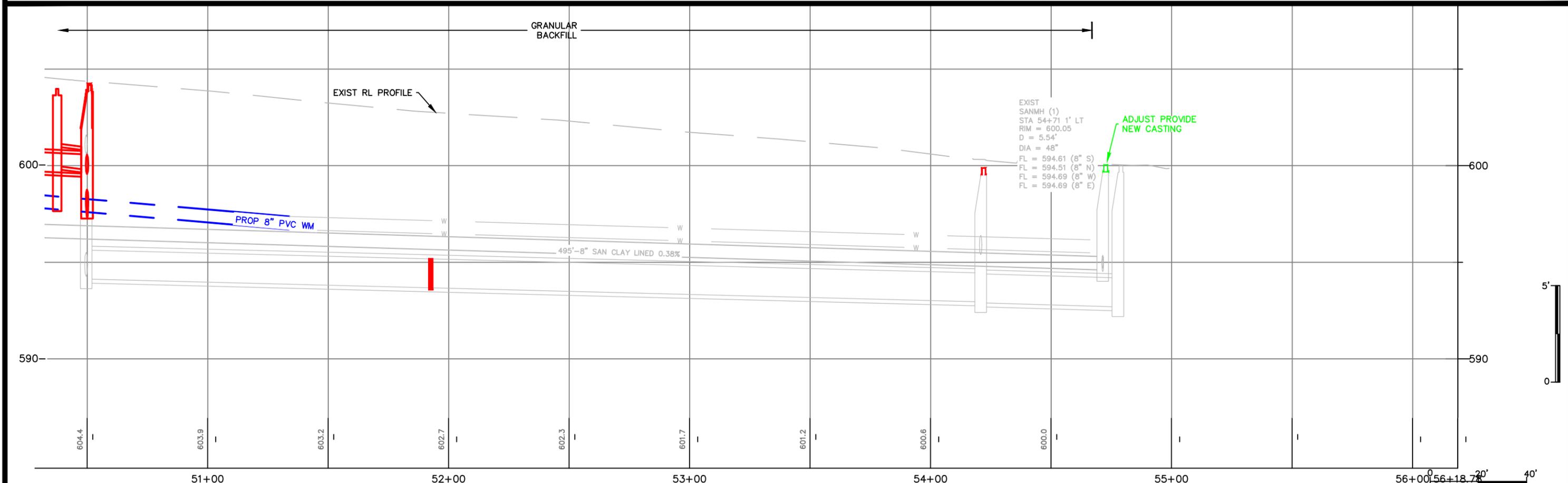
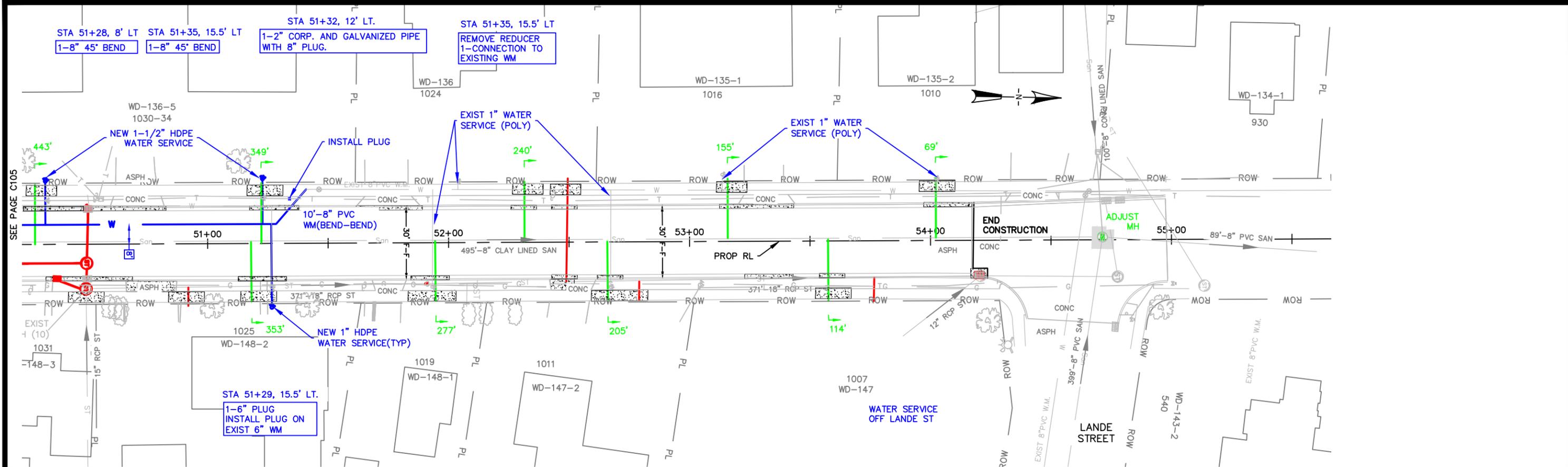
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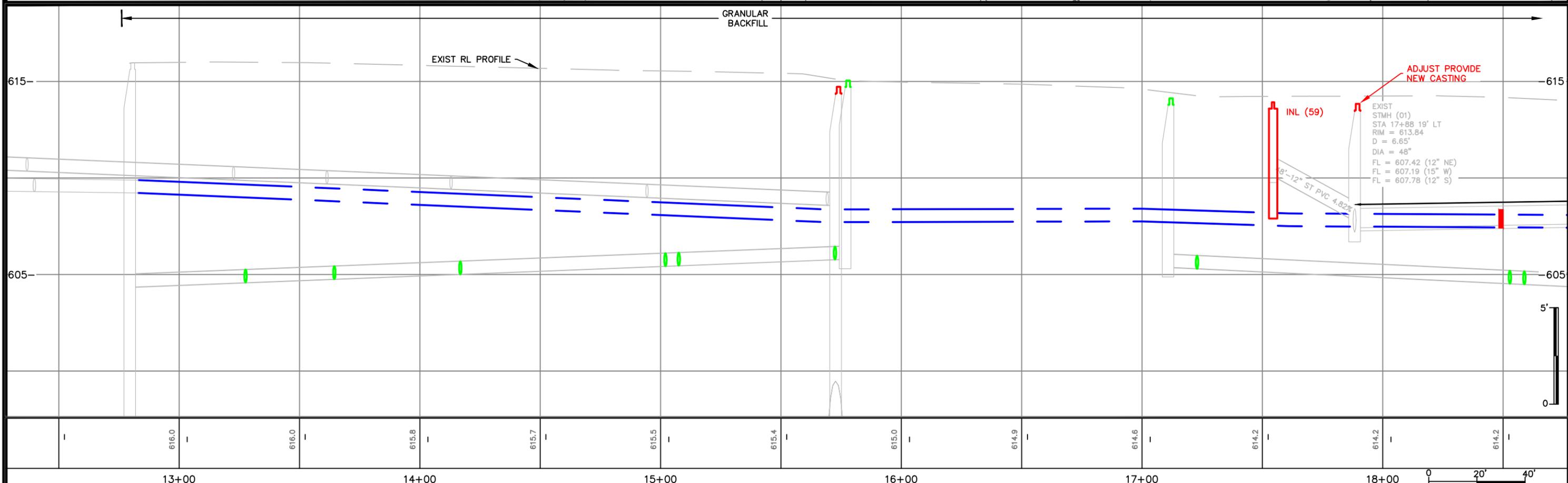
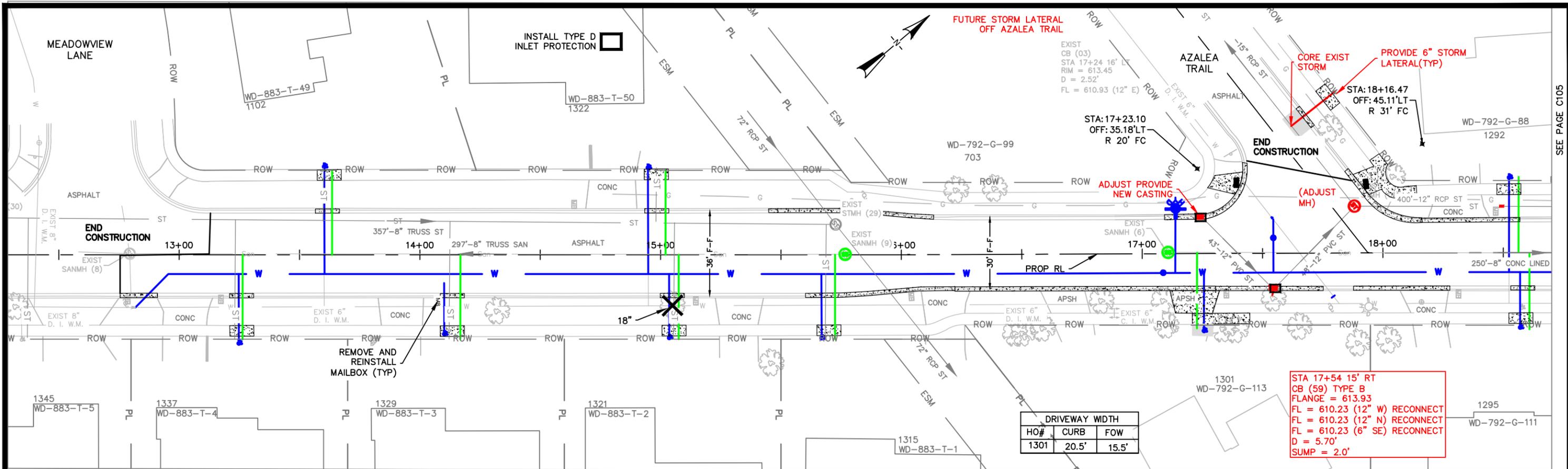
	<b>CITY OF DE PERE</b>	<b>SOUTH SIXTH ST</b> <b>S. SEVENTH ST. TO 550' NORTH</b> <b>SANITARY SEWER AND WATER MAIN</b>	NAME: SEWER AND WATER RELAY AND STREET RESURFACING PROJECT #	BY DATE	REVISIONS / ISSUES NO. DATE BY REMARKS	PAGE NO. <b>C104</b>
	ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071		22-01	SURVEYED MT 12-2021 DRAWN BK 12-2021 DESIGNED BK 12-2021 CHECKED EPR 01-2022		

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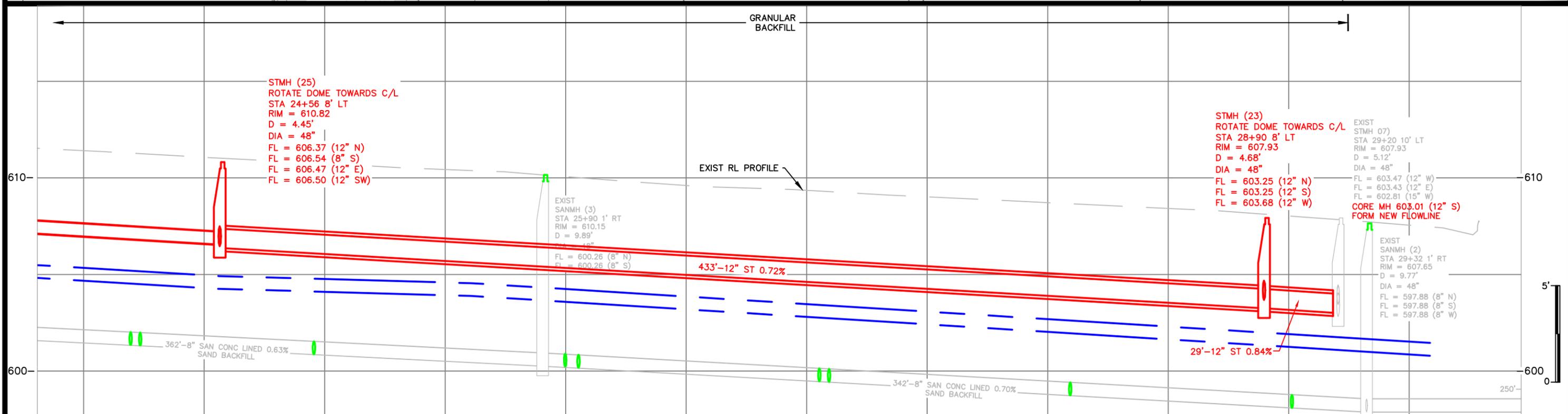
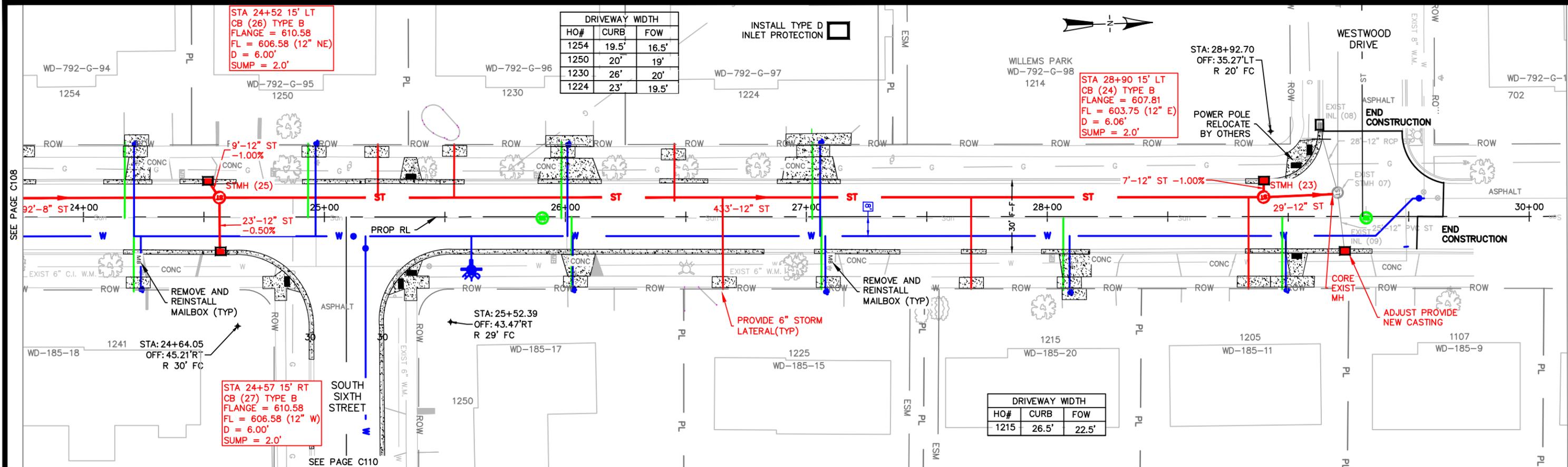


<p><b>CITY OF DE PERE</b> ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071</p>	<p><b>SOUTH SEVENTH STREET MEADOWVIEW LN. TO AZALEA TR. STORM SEWER AND STREET</b></p>	<p>NAME: SEWER AND WATER RELAY AND STREET RESURFACING</p>	<p>BY SURVEYED MT DRAWN BK DESIGNED BK CHECKED EPR</p>	<p>DATE 12-2021 12-2021 12-2021 01-2022</p>	<p>NO. DATE BY REMARKS</p>	<p>PAGE NO. <b>C107</b></p>
		<p>PROJECT # 22-01</p>	<p>REVISIONS / ISSUES</p>	<p>NO. DATE BY REMARKS</p>	<p>NO. DATE BY REMARKS</p>	
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		<p>22-01</p>	<p>NO. DATE BY REMARKS</p>	<p>NO. DATE BY REMARKS</p>	<p>NO. DATE BY REMARKS</p>	

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SEE PAGE C105

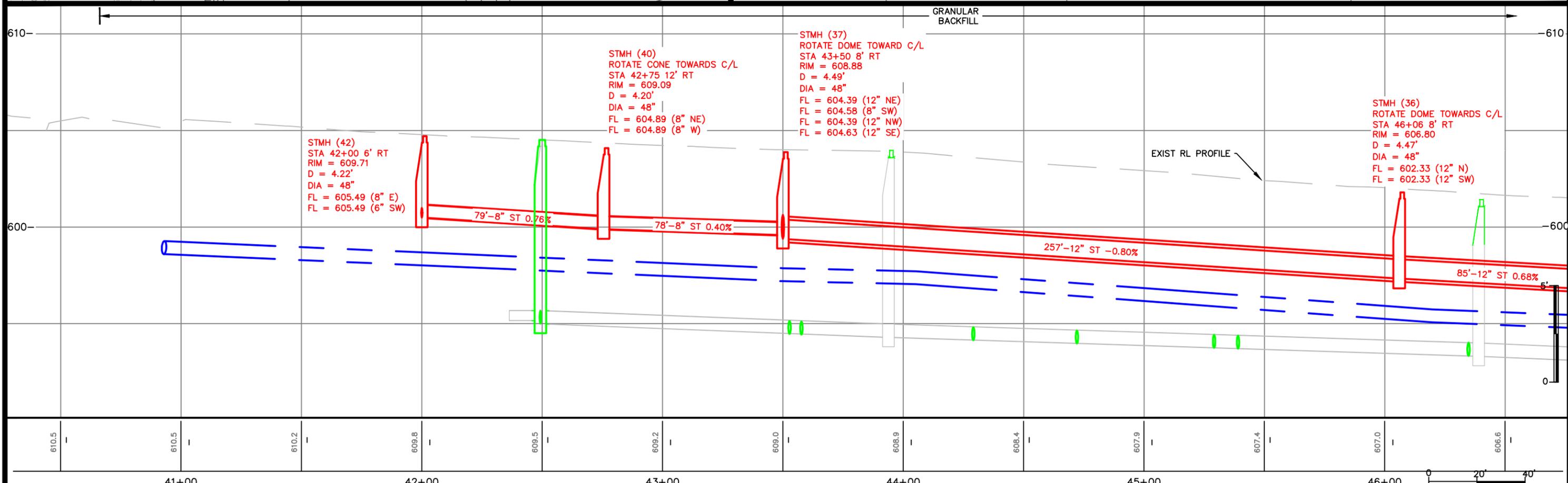
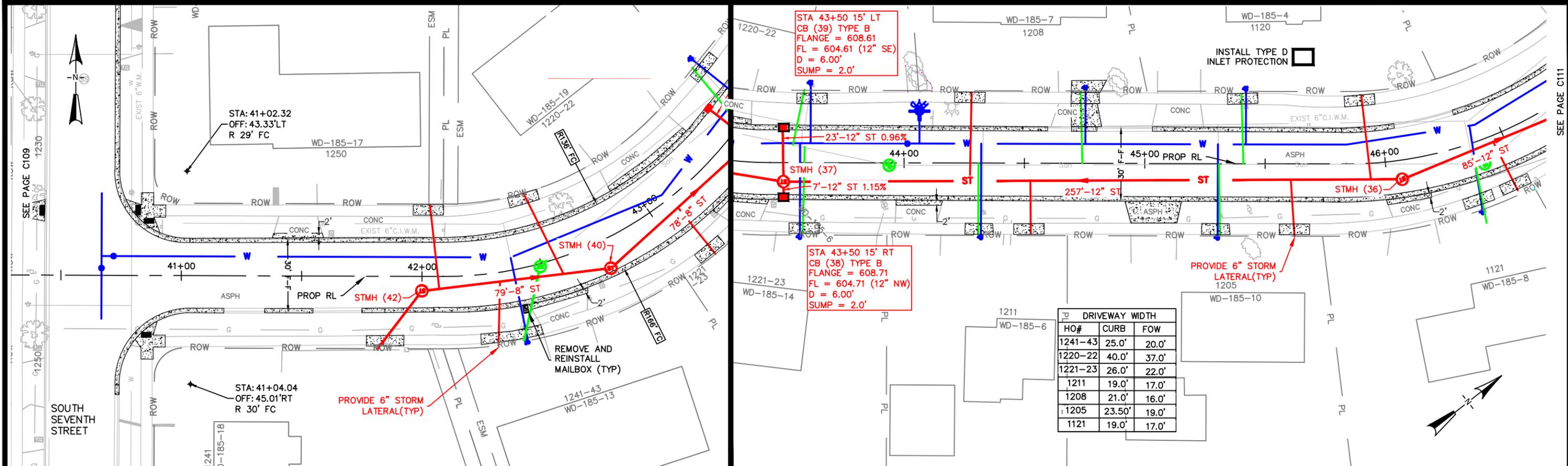


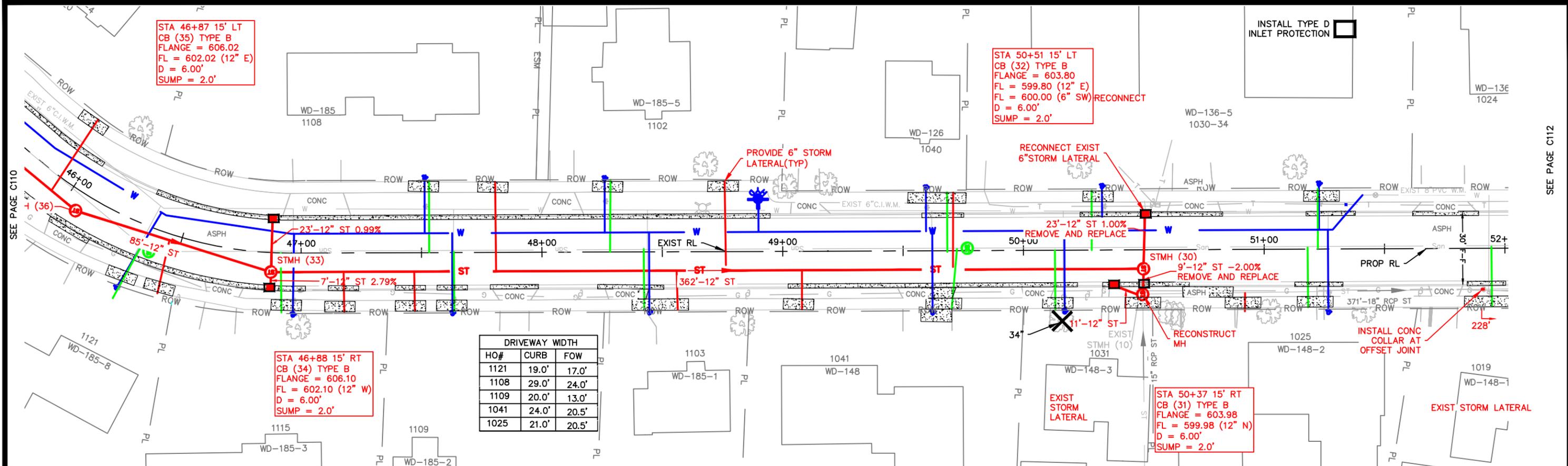


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<p><b>CITY OF DE PERE</b> ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071</p>	<p><b>SOUTH SEVENTH STREET</b> 600' NORTH OF AZALEA TR. TO WESTWOOD DR. STORM SEWER AND STREET</p>	NAME: SEWER AND WATER RELAY AND STREET RESURFACING PROJECT # 22-01	BY: MT DATE: 12-2021	REVISIONS / ISSUES <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	BY	REMARKS					PAGE NO. <b>C109</b>
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DESIGNED: BK DATE: 12-2021													
CHECKED: EPR DATE: 01-2022													

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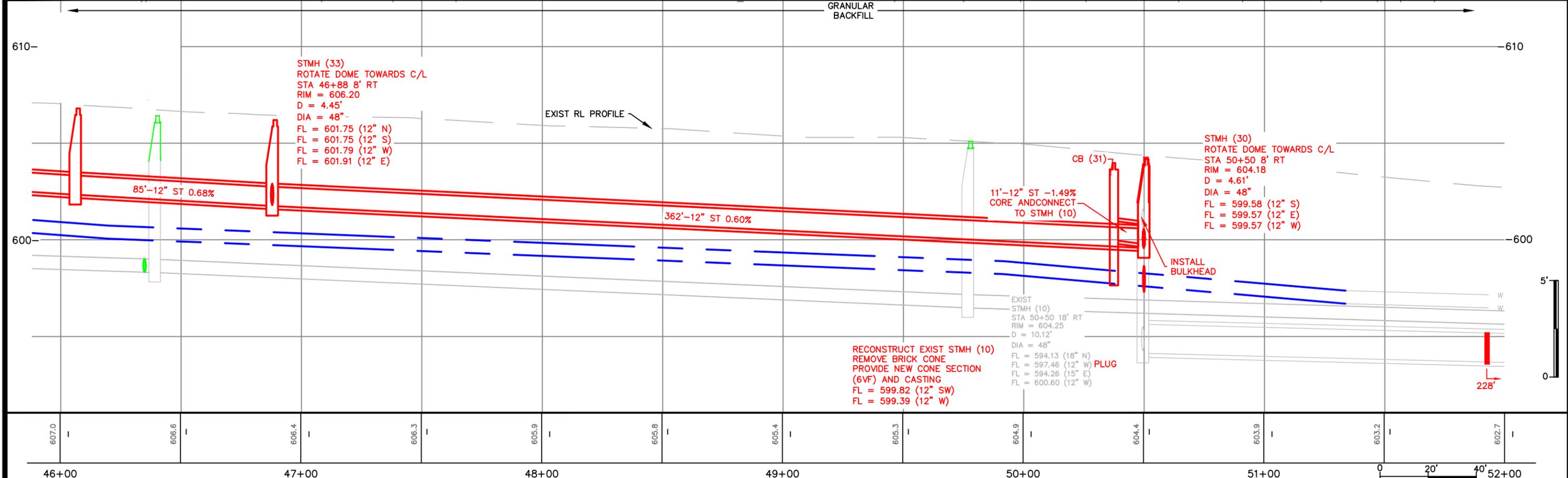
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FL = 602.02 (12" E)  
D = 6.00'  
SUMP = 2.0'

STA 50+51 15' LT  
CB (32) TYPE B  
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FL = 600.00 (6" SW)  
D = 6.00'  
SUMP = 2.0'

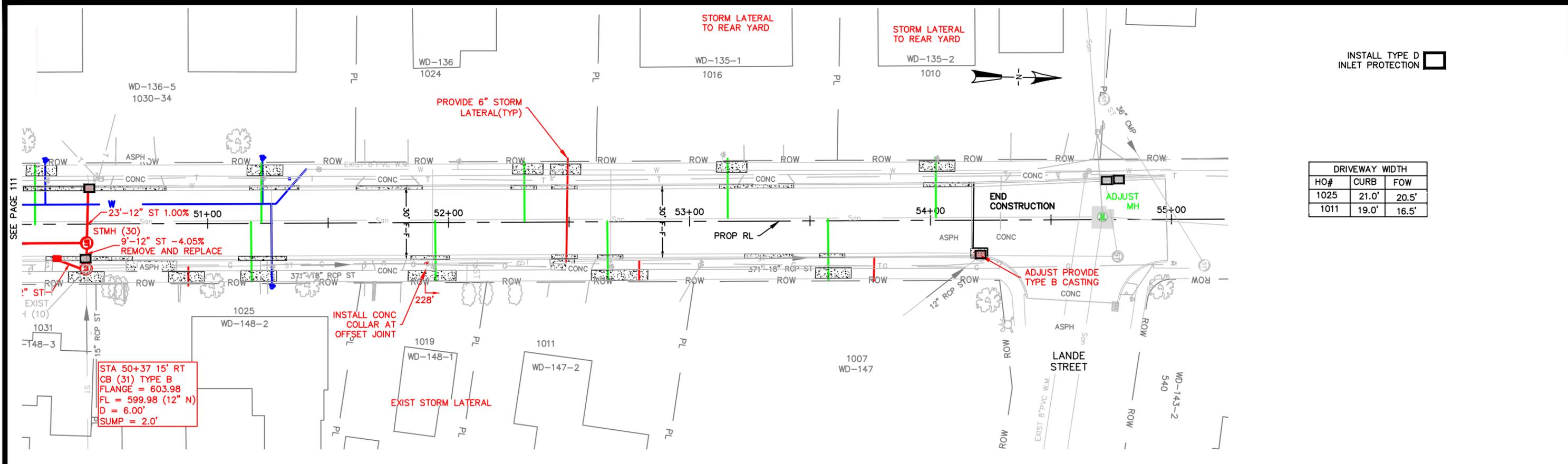
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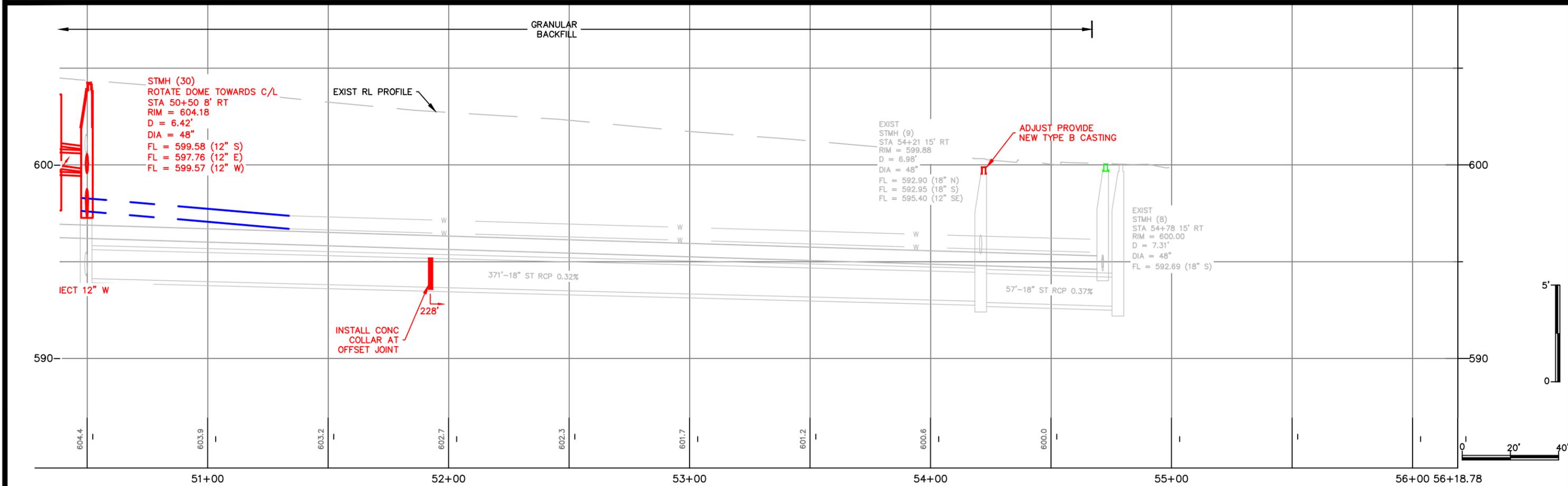
DRIVEWAY WIDTH		
HO#	CURB	FOW
1121	19.0'	17.0'
1108	29.0'	24.0'
1109	20.0'	13.0'
1041	24.0'	20.5'
1025	21.0'	20.5'



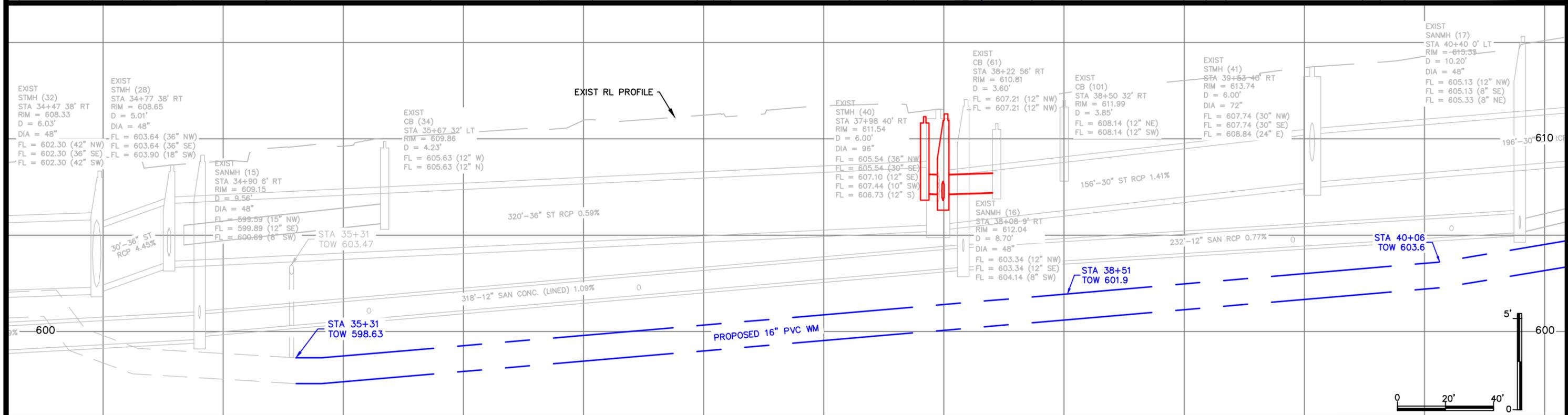
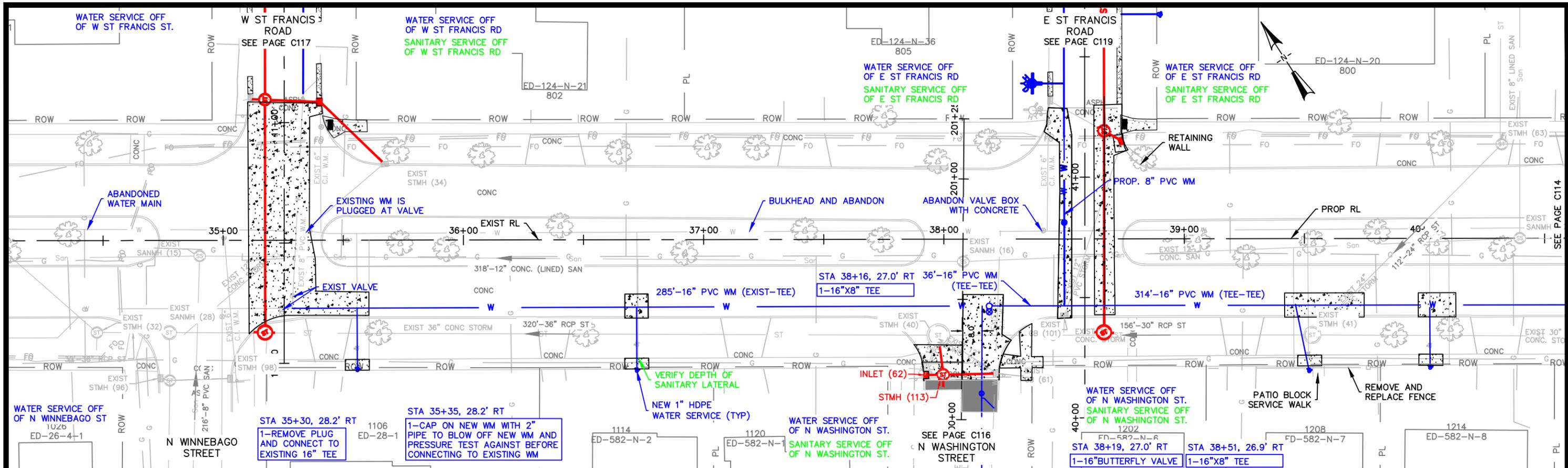
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DRIVEWAY WIDTH		
HO#	CURB	FOW
1025	21.0'	20.5'
1011	19.0'	16.5'



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609.5	609.3	610.1	611.1	611.3	611.6	612.5	612.0	612.6	614.0	614.3	614.9	615.7
35+00			36+00			37+00		38+00		39+00		40+00



**CITY OF DE PERE**  
 ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
 OFFICE 920-339-4061 FAX 920-339-4071

**RIDGEWAY BLVD**  
**N WINNEBAGO STREET TO 200' E/O E ST FRANCIS**  
**WATERMAIN**

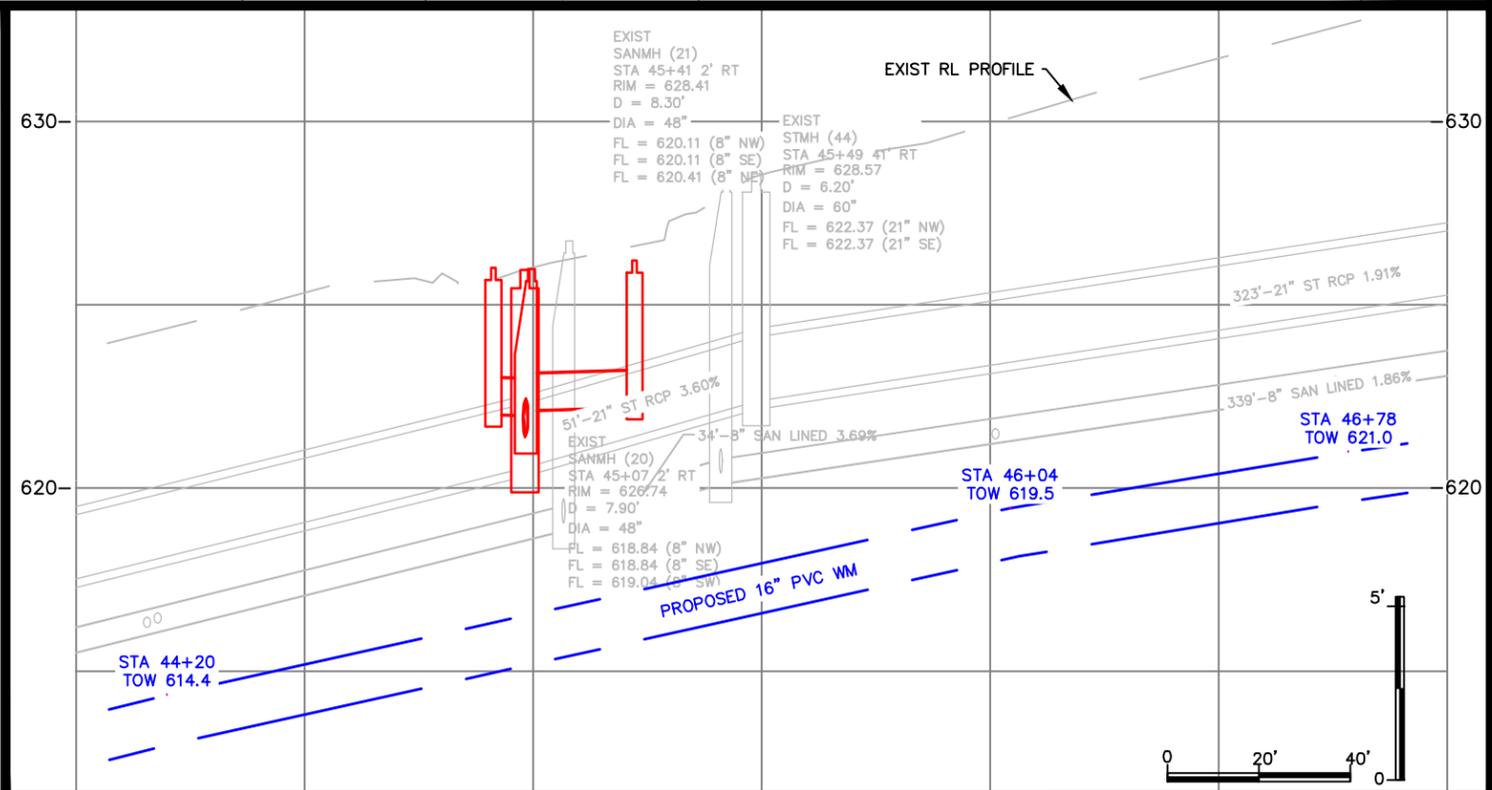
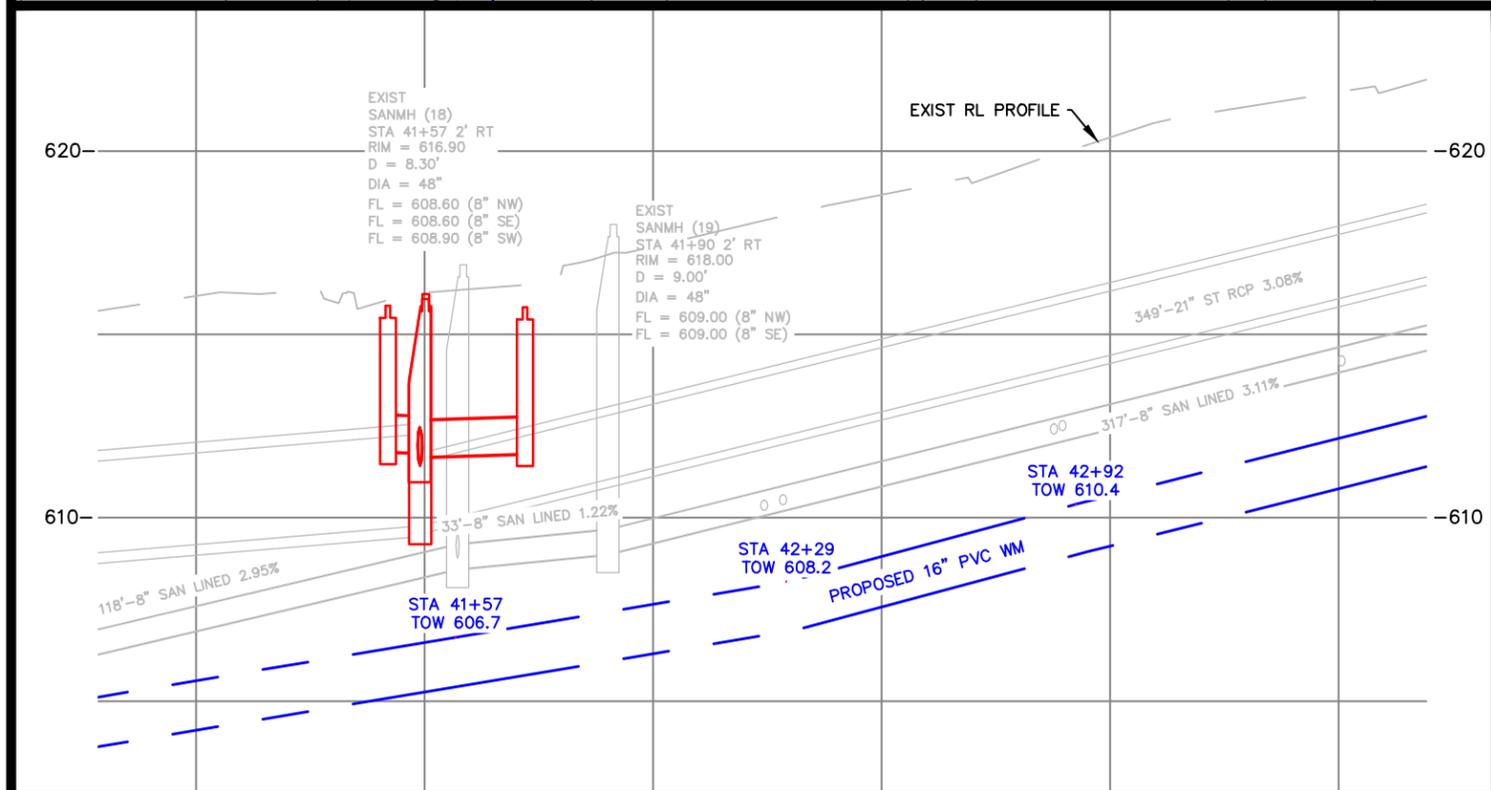
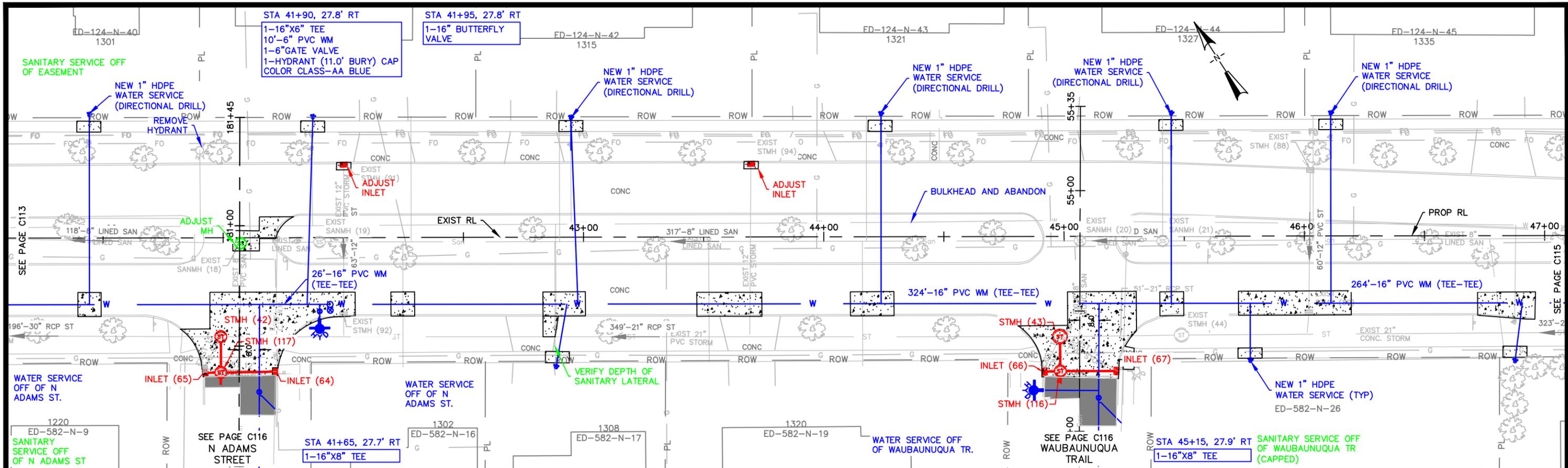
NAME: SEWER & WATER RELAY AND STREET RESURFACING  
 PROJECT # 22-01

BY	DATE
SURVEYED JML	08-2019
DRAWN JML	11-2019
DESIGNED MAL	02-2020
CHECKED EPR	02-2020

REVISIONS / ISSUES	
NO.	DATE BY REMARKS

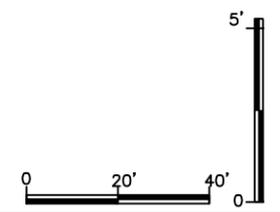
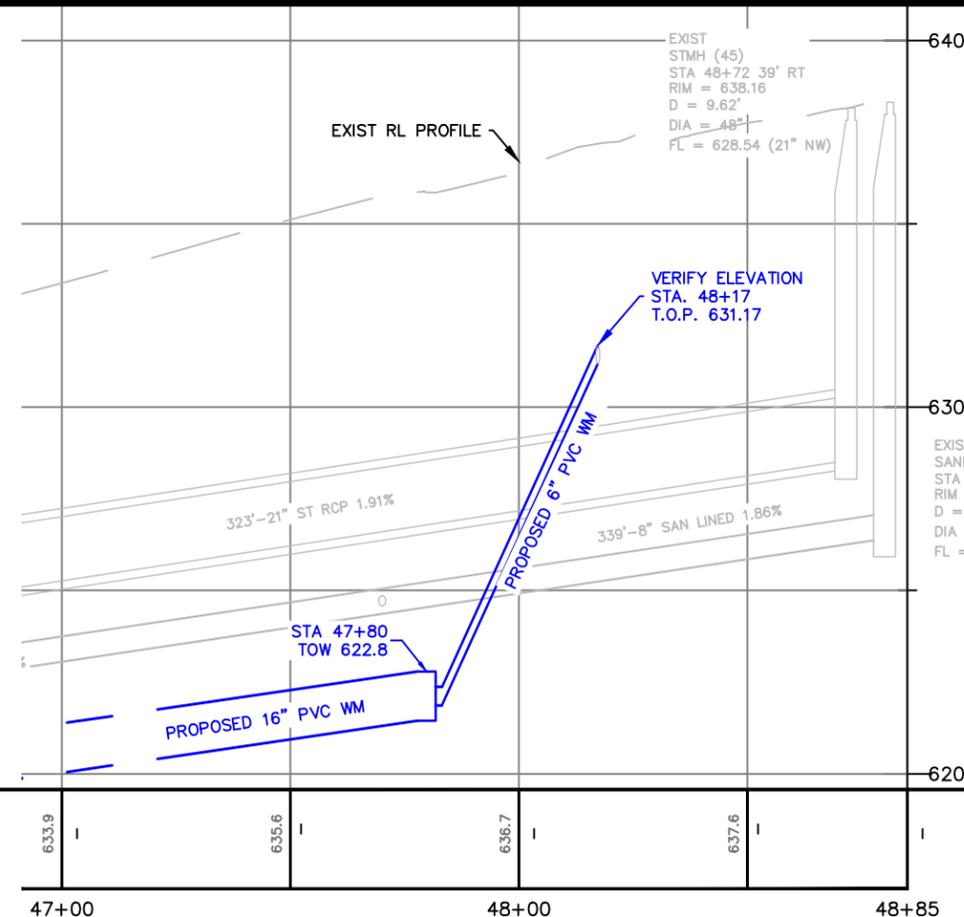
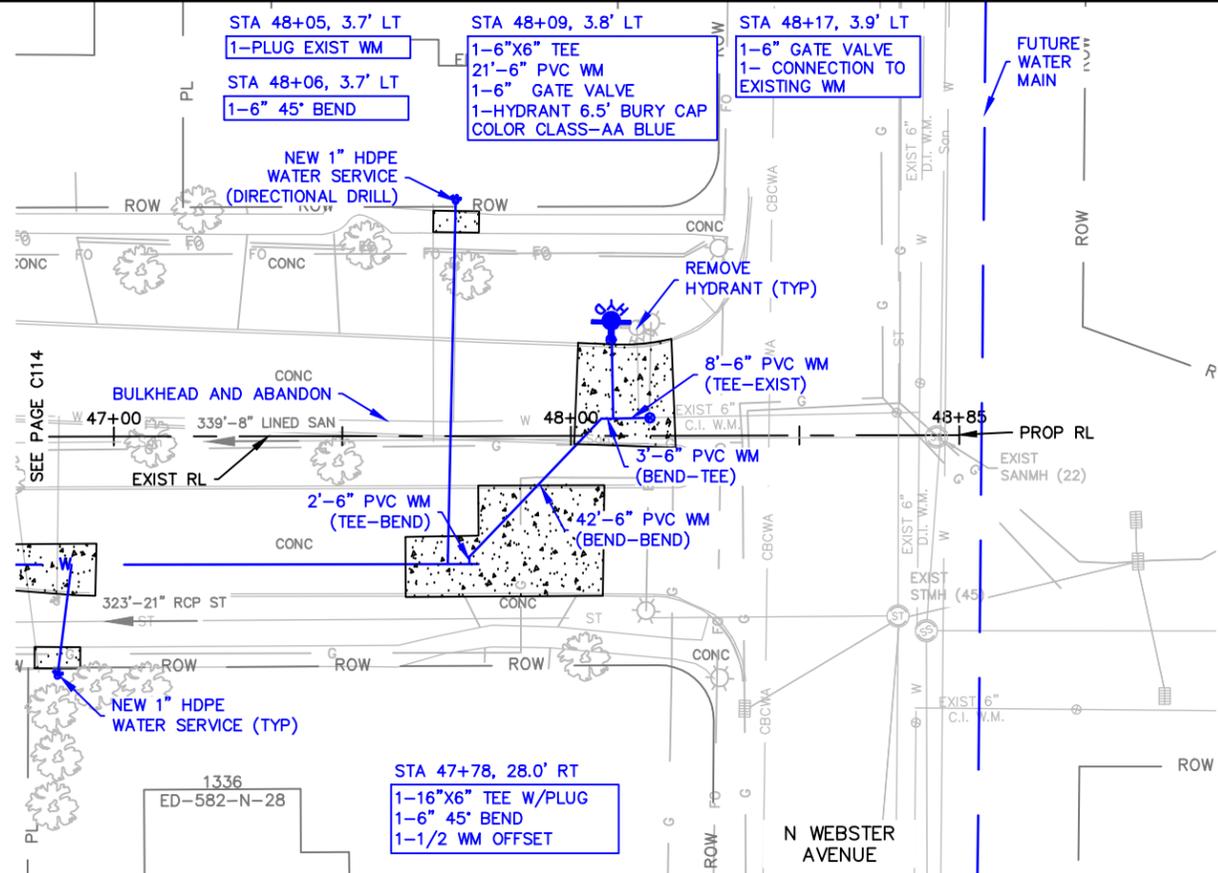
PAGE NO. **C113**

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41+00	42+00	43+00	44+00	45+00	46+00	47+00						

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**CITY OF DE PERE**  
 ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
 OFFICE 920-339-4061 FAX 920-339-4071

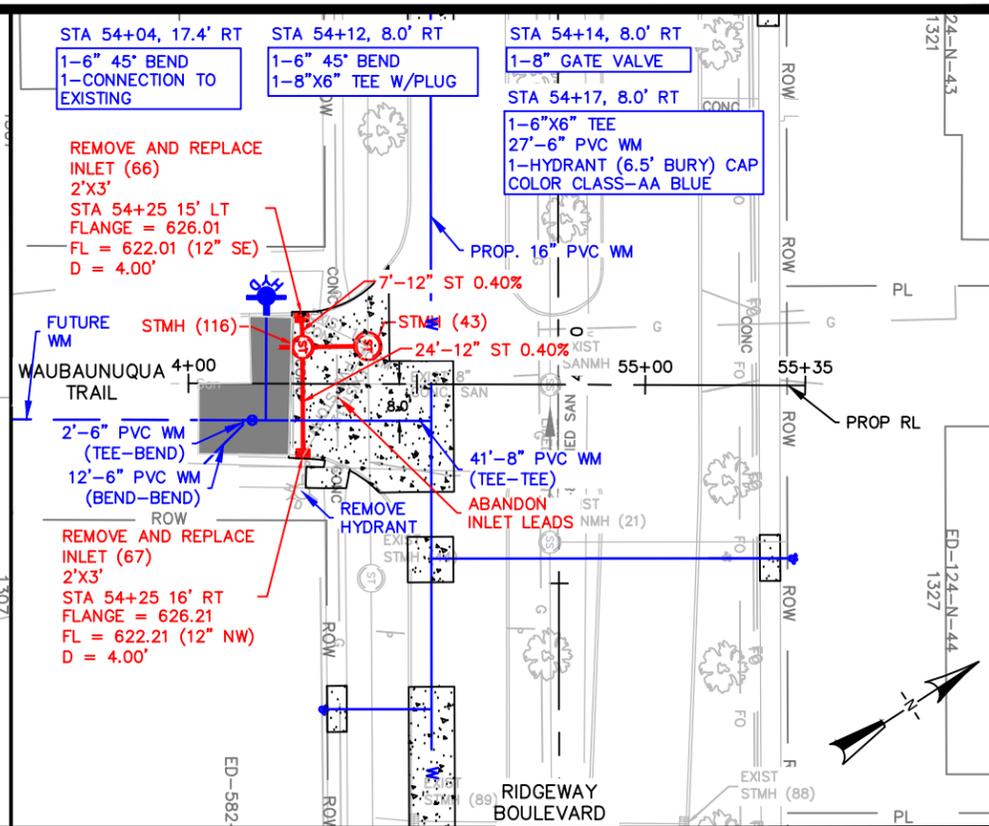
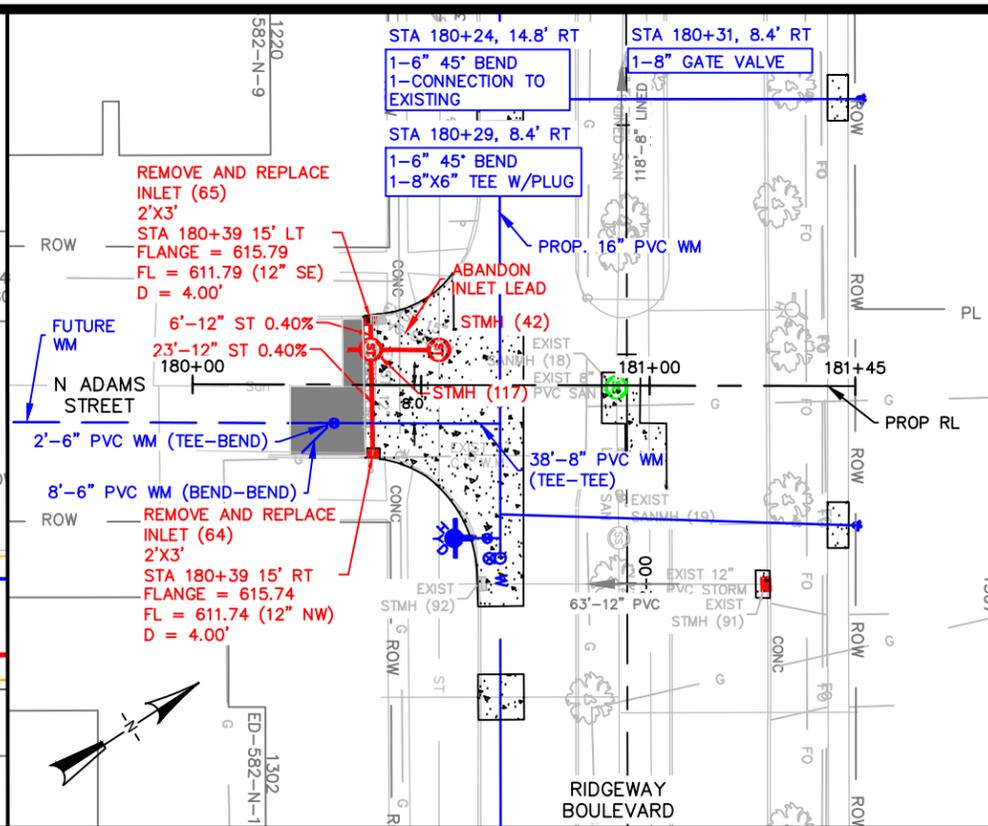
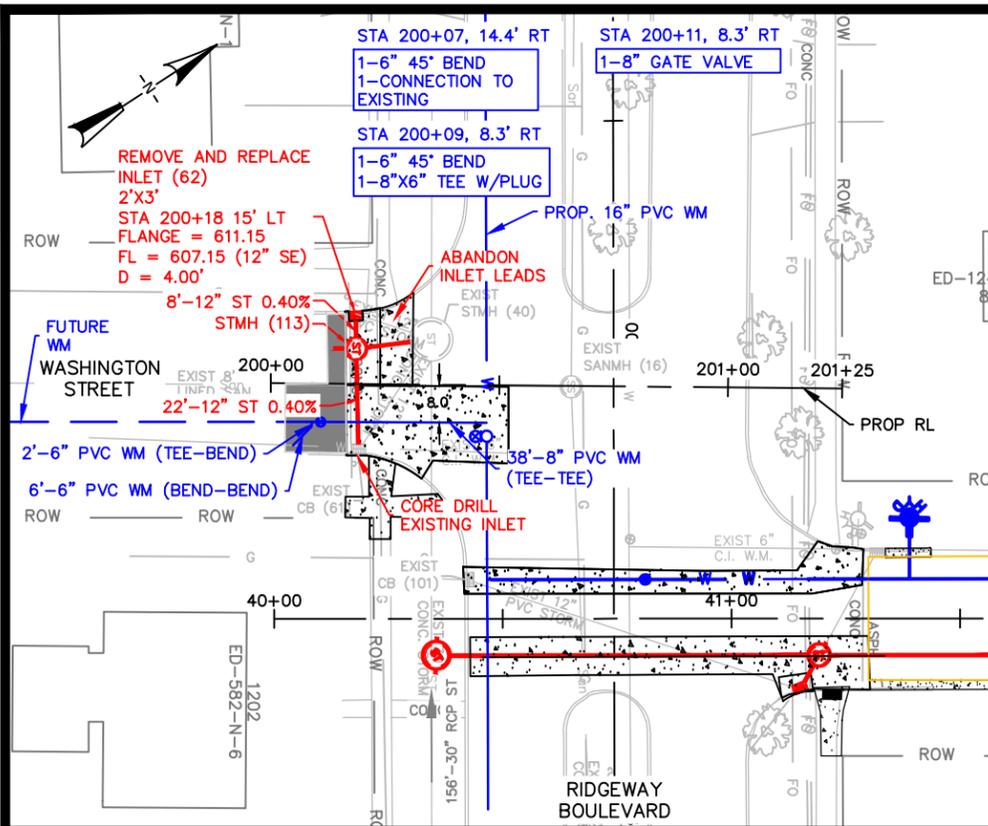
**RIDGEWAY BLVD**  
**200' E/O E ST FRANCIS TO 200' E/O N ADAMS STREET**  
**WATERMAIN**

NAME: SEWER & WATER RELAY AND STREET RESURFACING  
 PROJECT # 22-01

	BY	DATE
SURVEYED	JML	08-2019
DRAWN	JML	11-2019
DESIGNED	MAL	02-2020
CHECKED	EPR	02-2020

REVISIONS / ISSUES		
NO.	DATE	REMARKS

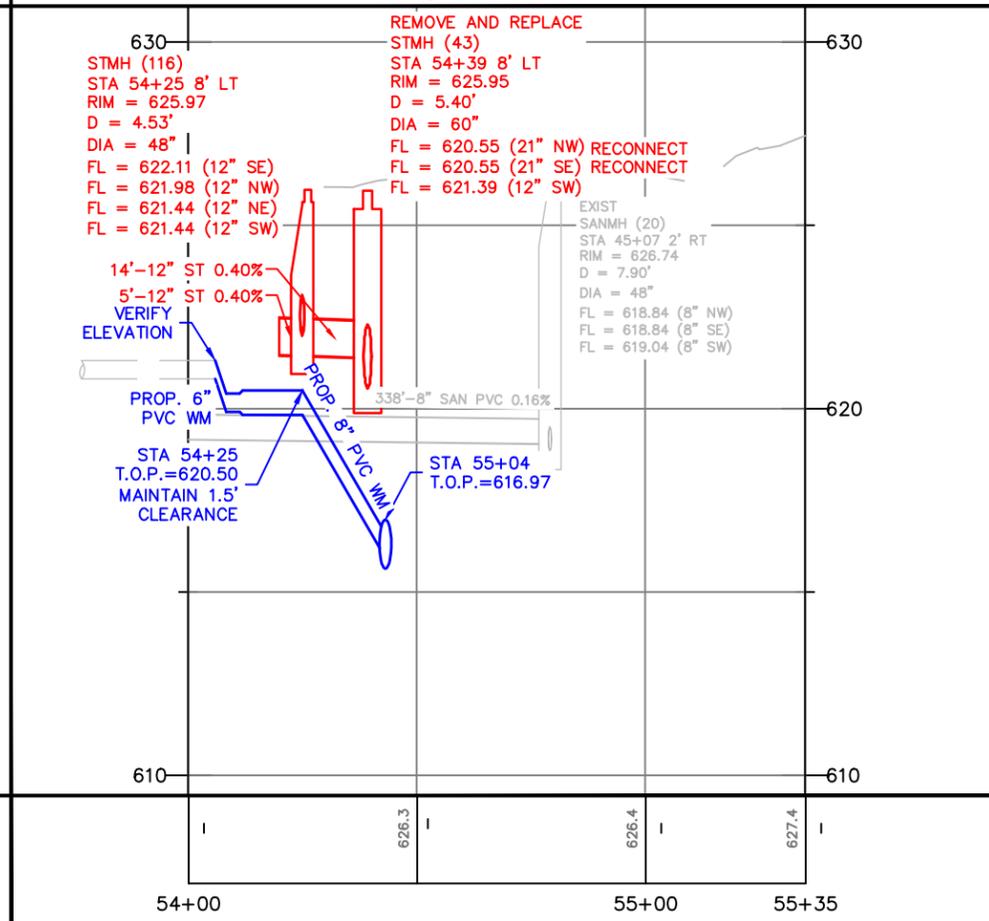
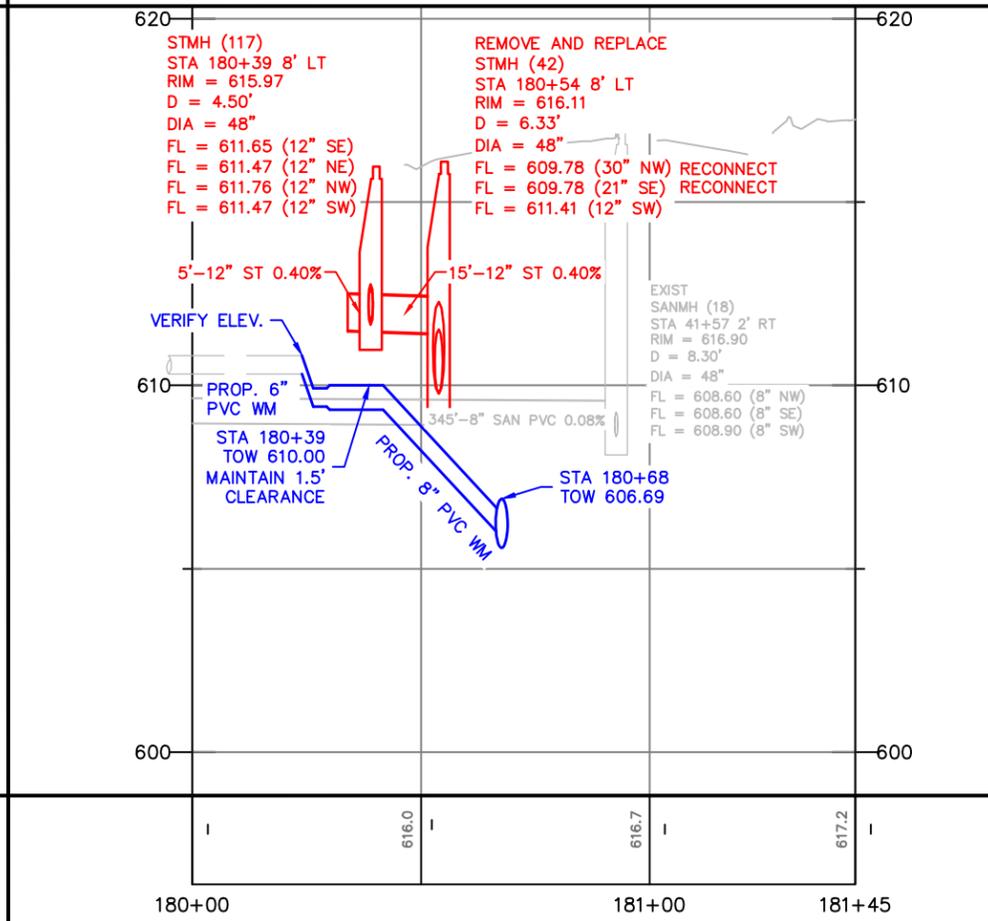
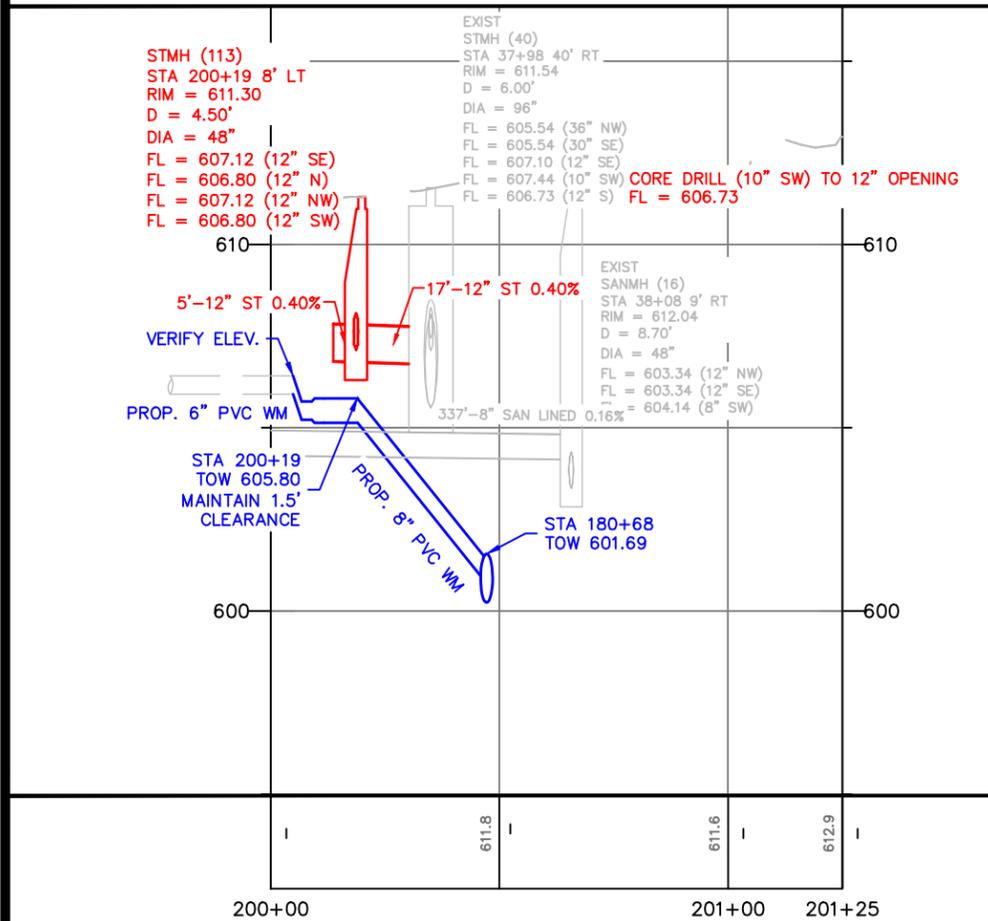
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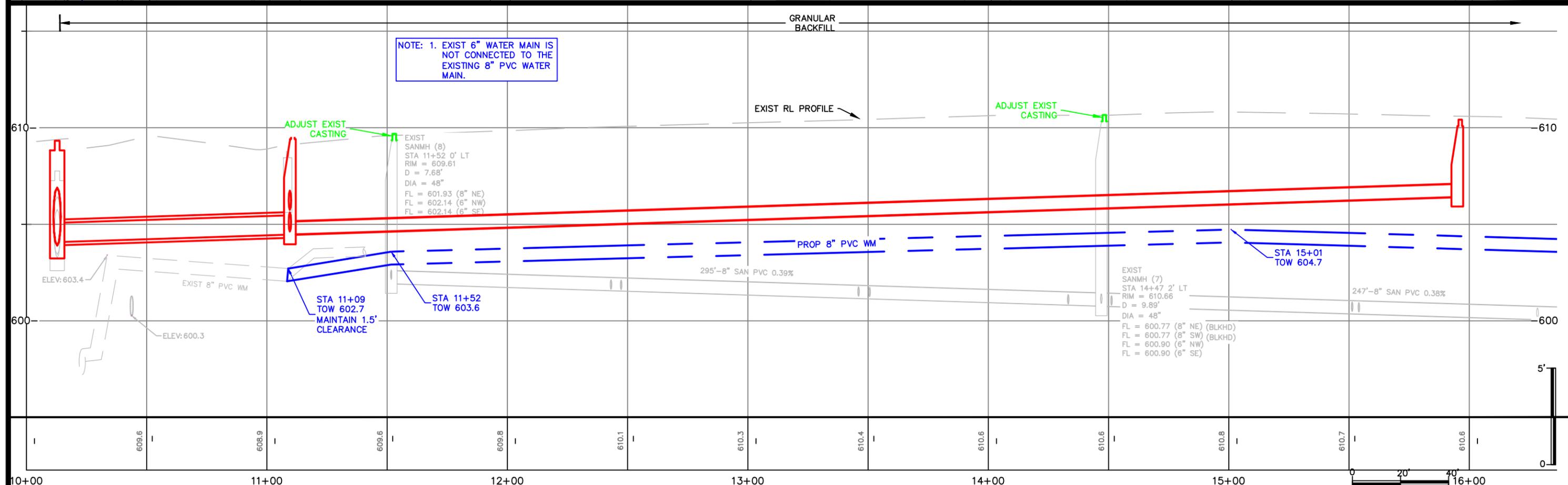
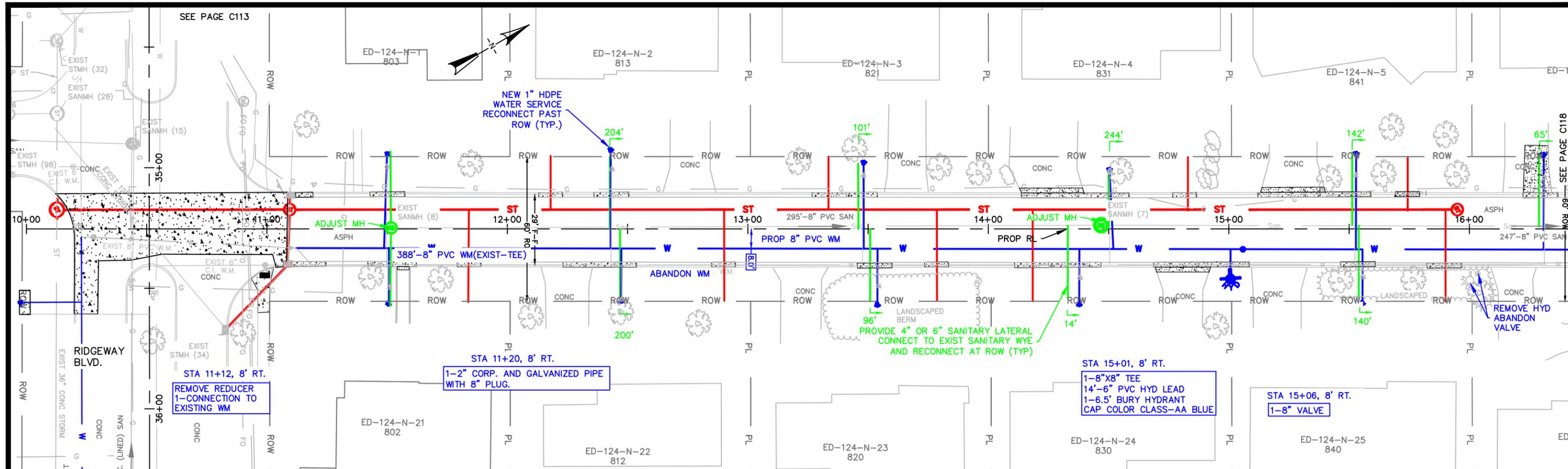
SEE PAGE C113  
**N WASHINGTON STREET WATER MAIN**

SEE PAGE C114  
**N ADAMS STREET WATER MAIN**

SEE PAGE C114  
**WAUBAUNUQUA TRAIL WATER MAIN**

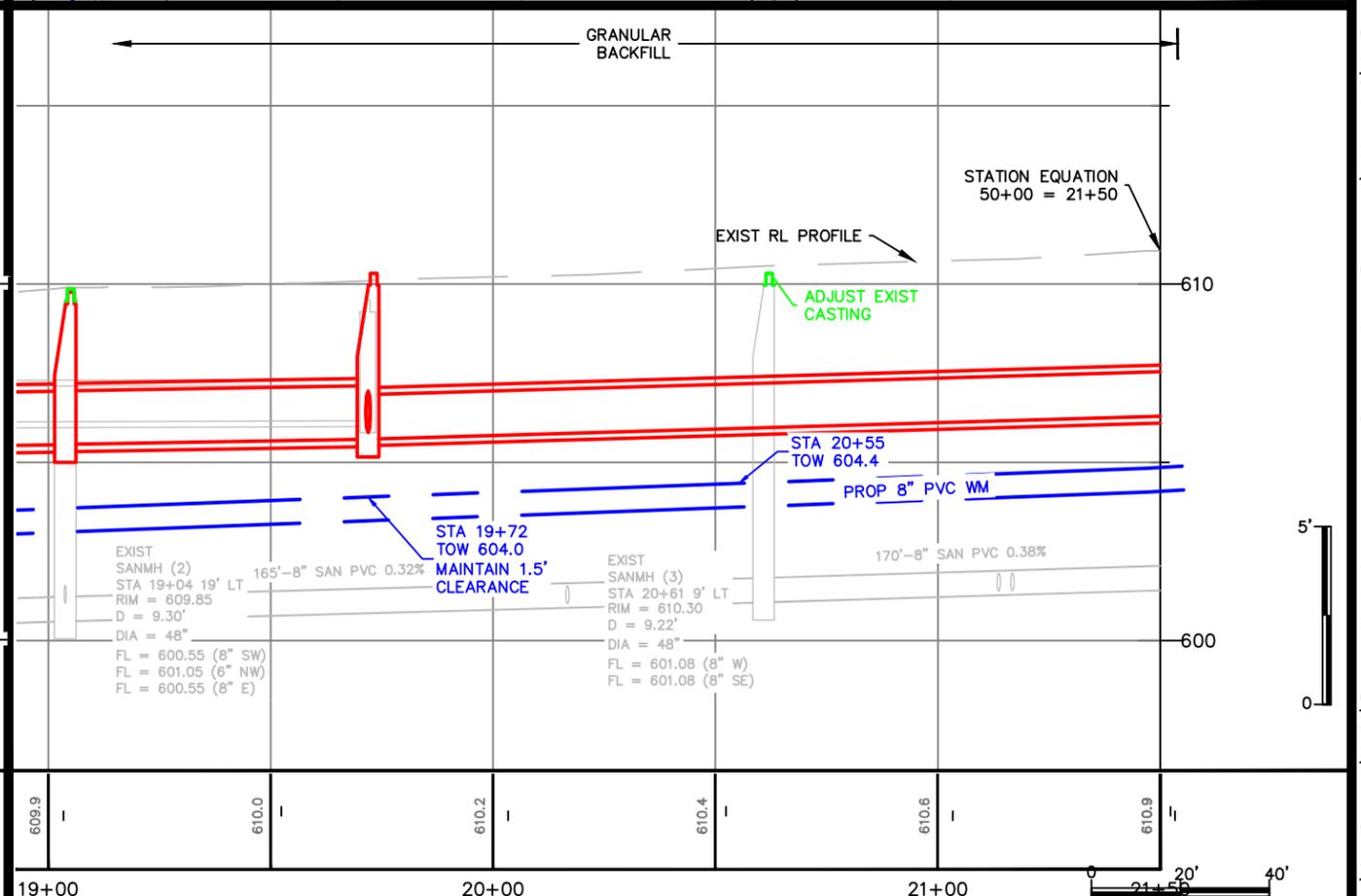
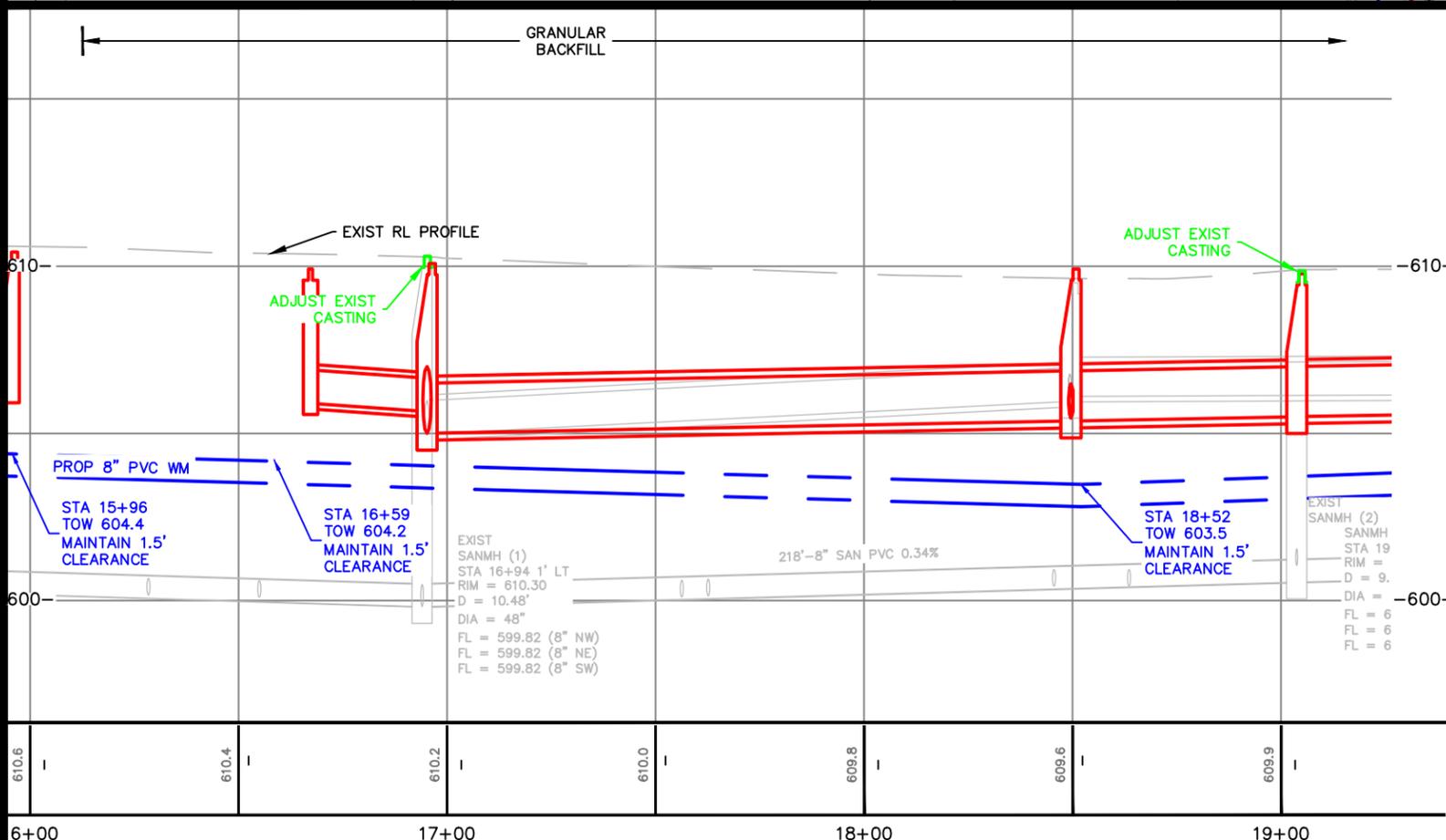
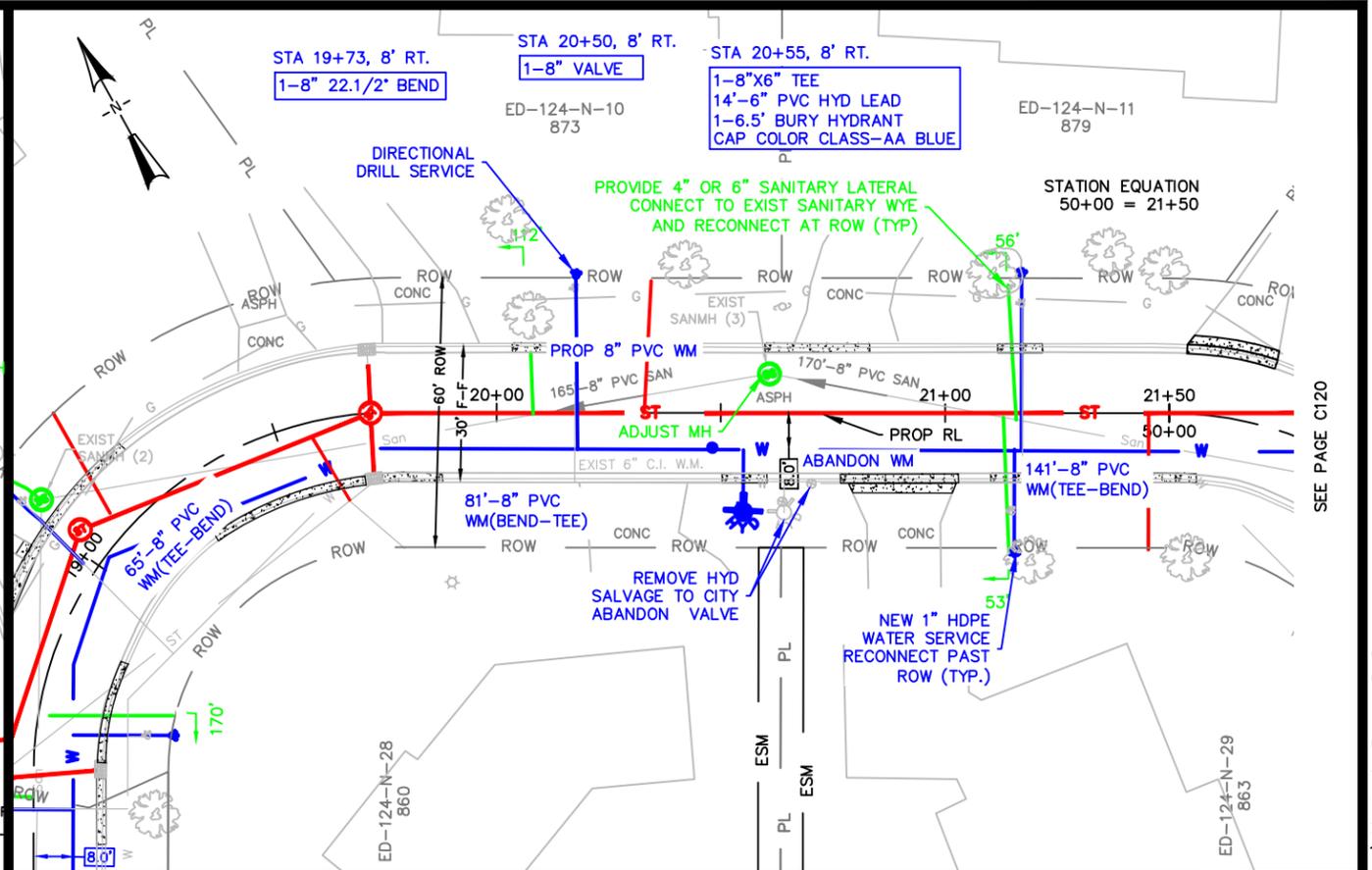
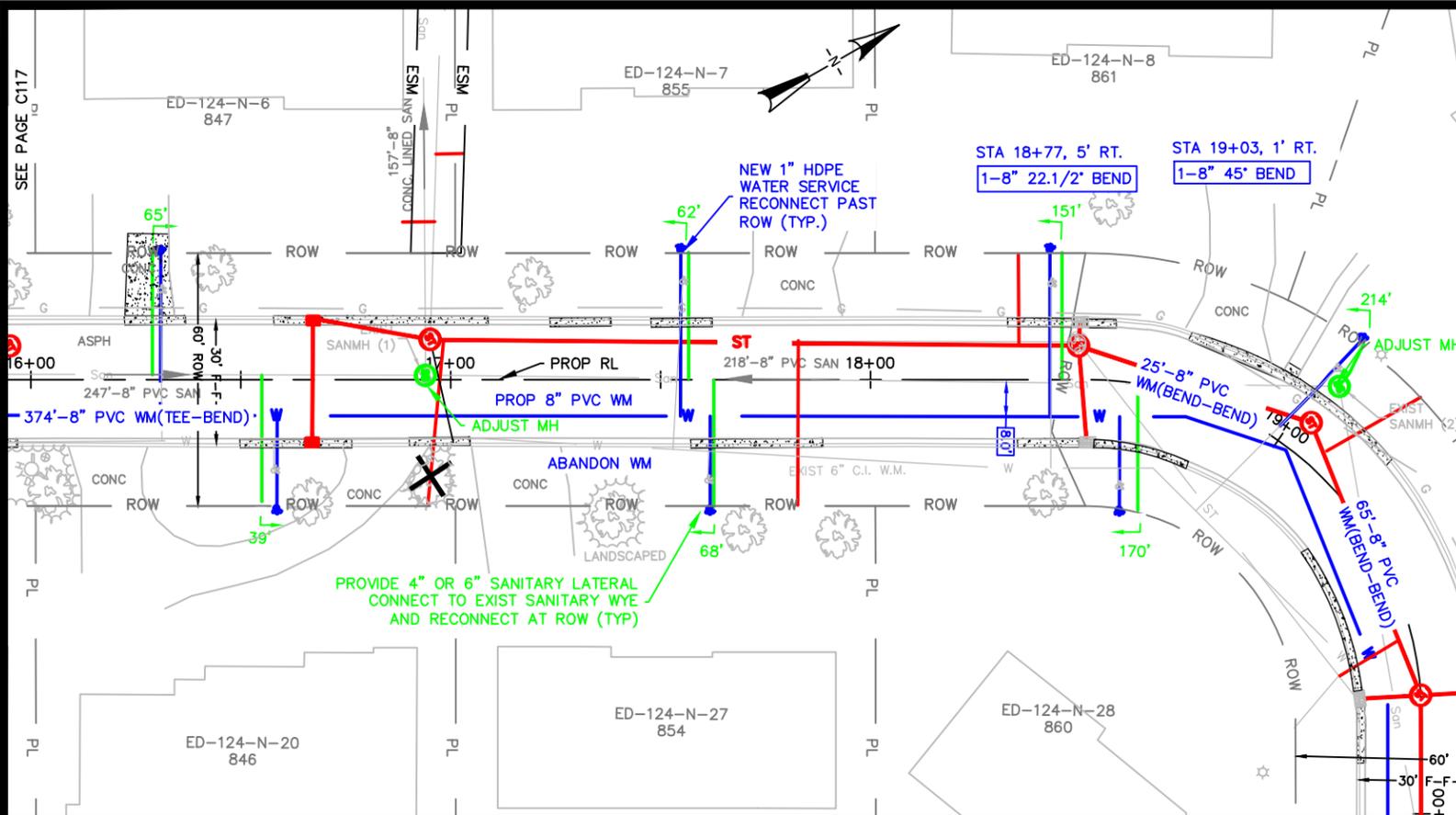


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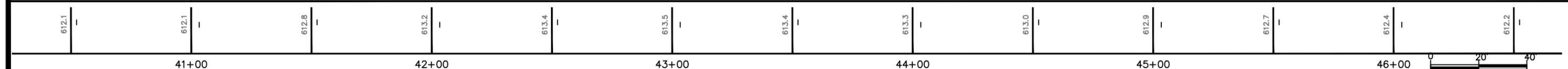
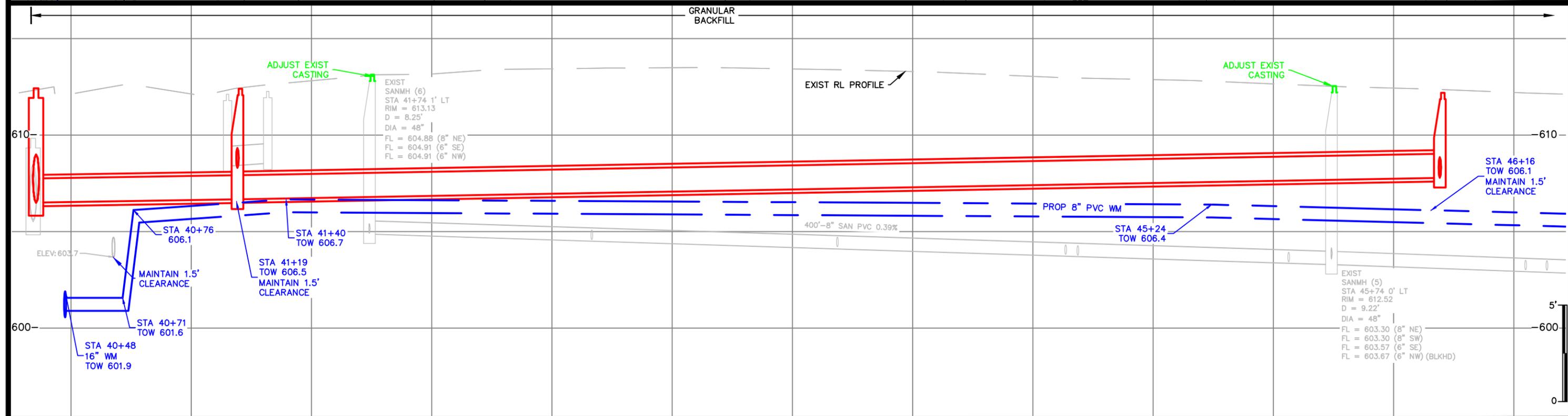
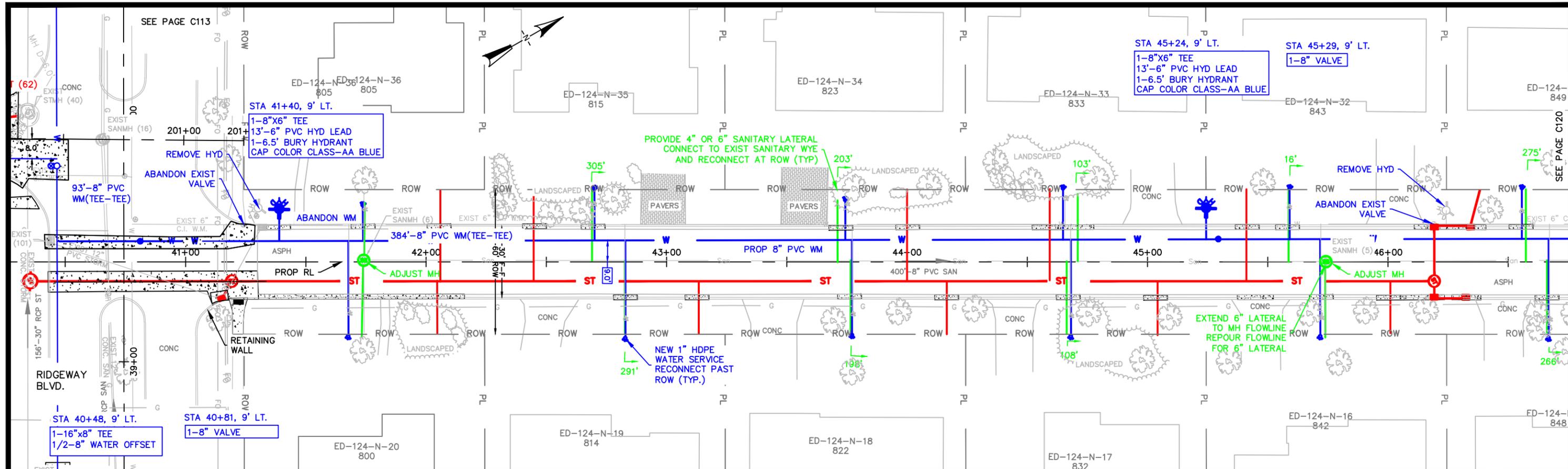


	<b>CITY OF DE PERE</b>	<b>WEST ST FRANCIS ROAD</b> <b>RIDGEWAY BLVD TO 550' NORTH OF RIDGEWAY BLVD</b> <b>SANITARY SEWER AND WATER MAIN MAIN</b>	NAME: SEWER AND WATER RELAY AND STREET RESURFACING	BY: SRL	DATE: 10-2021	REVISIONS / ISSUES		PAGE NO. <b>C117</b>
	ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071		PROJECT # 22-01			DRAWN: BK	DATE: 01-2022	
			DESIGNED: BK	DATE: 01-2022				
			CHECKED: EPR	DATE: 01-2022				

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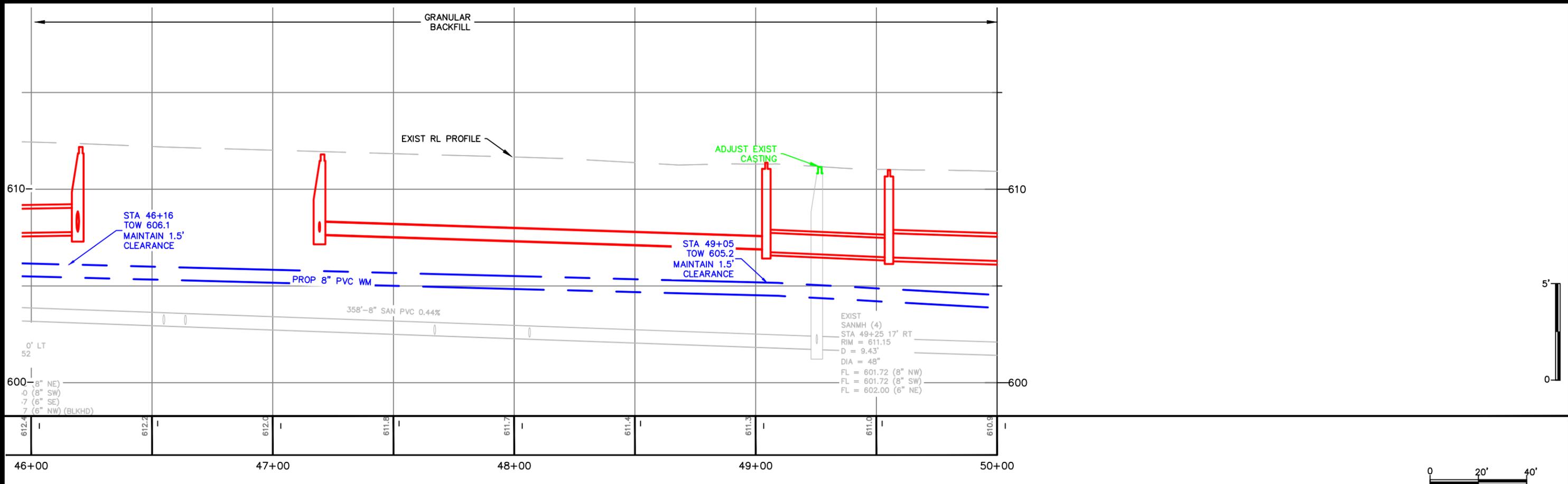
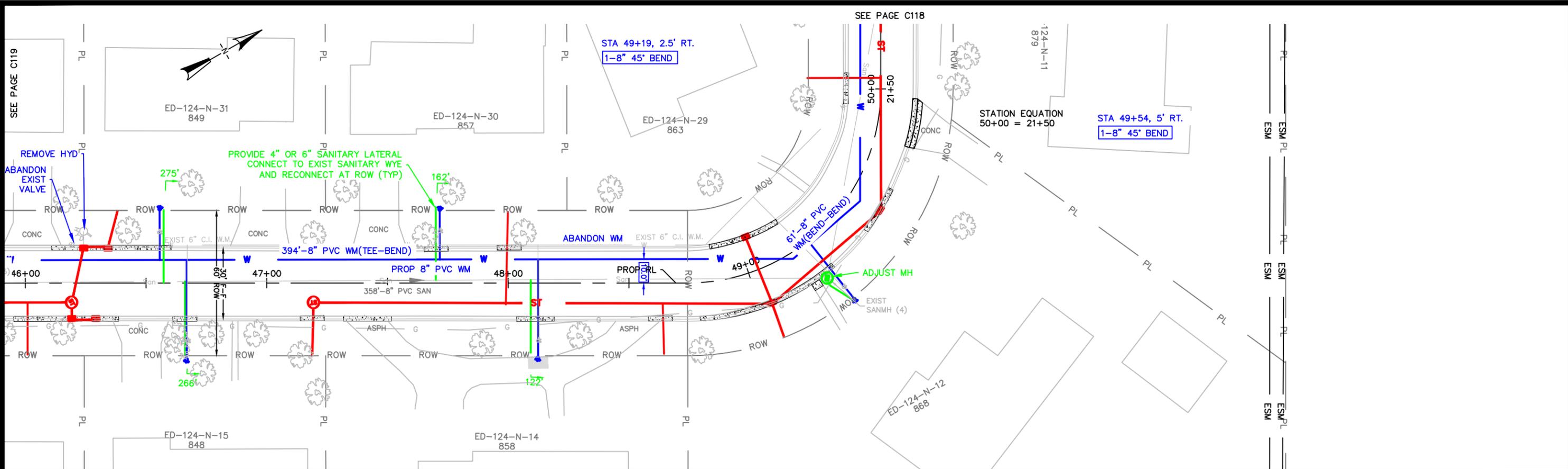


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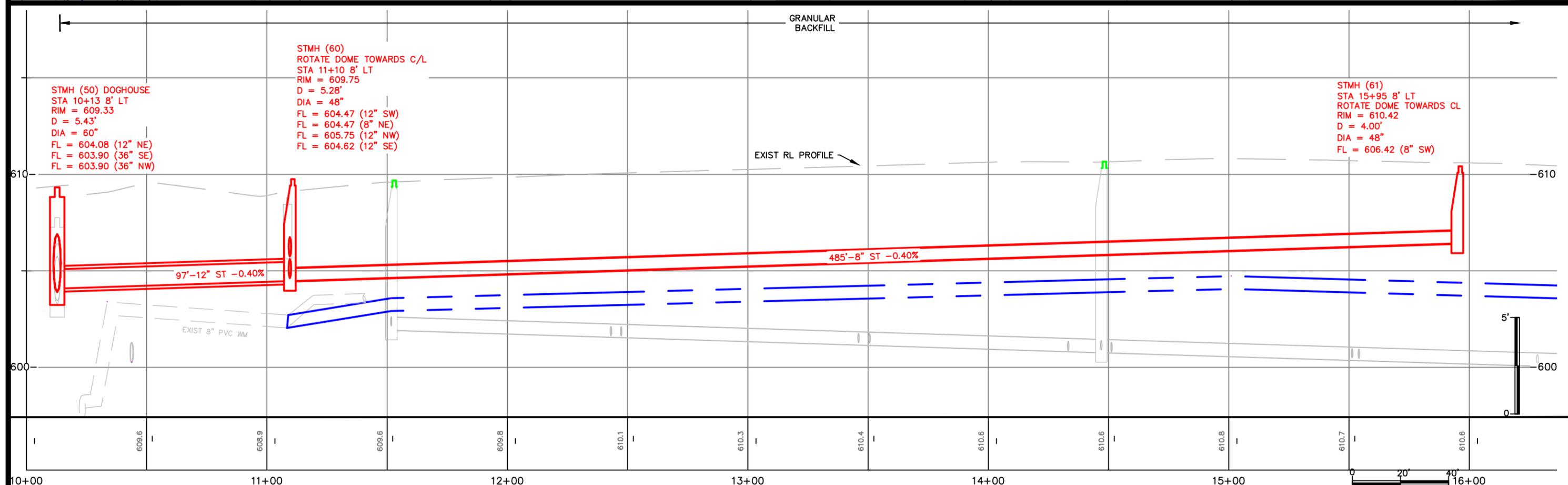
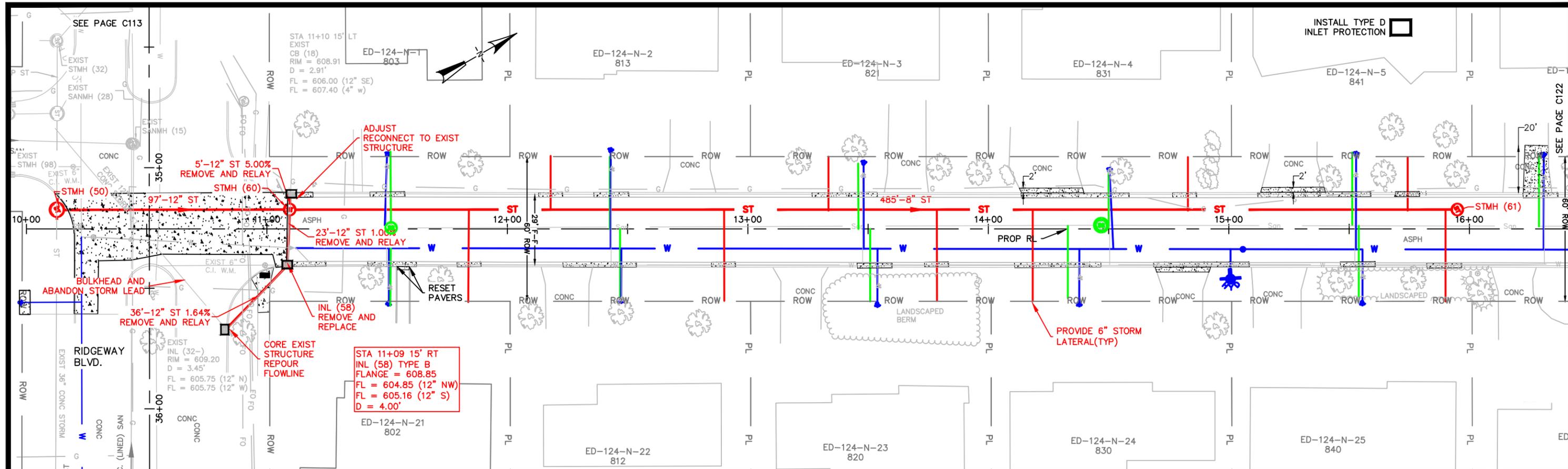


<b>CITY OF DE PERE</b> ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071		<b>EAST ST FRANCIS ROAD</b> <b>RIDGEWAY BLVD TO 550' NORTH OF RIDGEWAY BLVD</b> <b>SANITARY SEWER AND WATER MAIN</b>		NAME: SEWER AND WATER RELAY AND STREET RESURFACING PROJECT # 22-01	BY: SRL DATE: 10-2021 DRAWN: BK DATE: 01-2022 DESIGNED: BK DATE: 01-2022 CHECKED: EPR DATE: 01-2022	REVISIONS / ISSUES <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REMARKS</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	BY	REMARKS					PAGE NO. <b>C119</b>
NO.	DATE	BY	REMARKS												

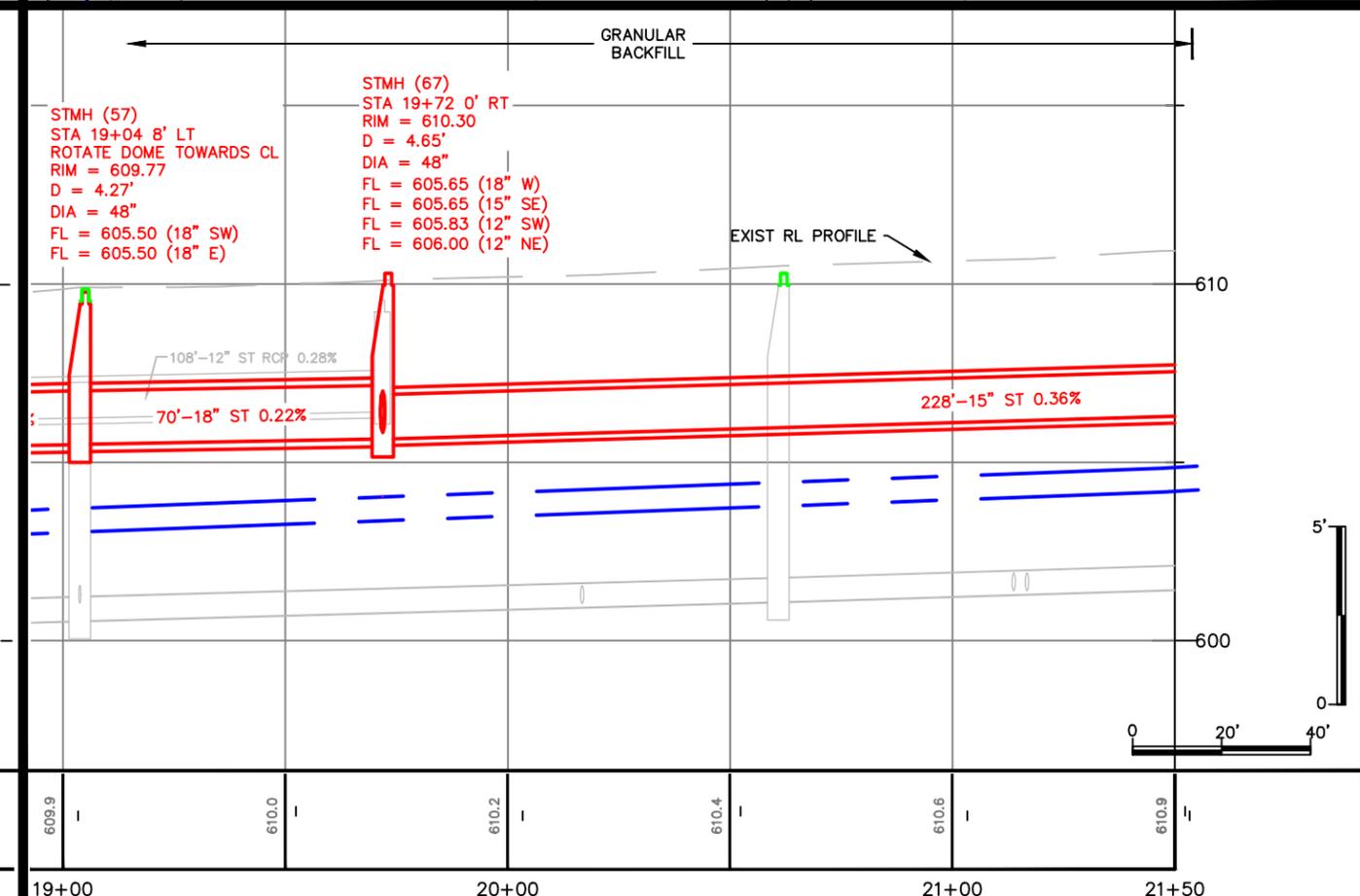
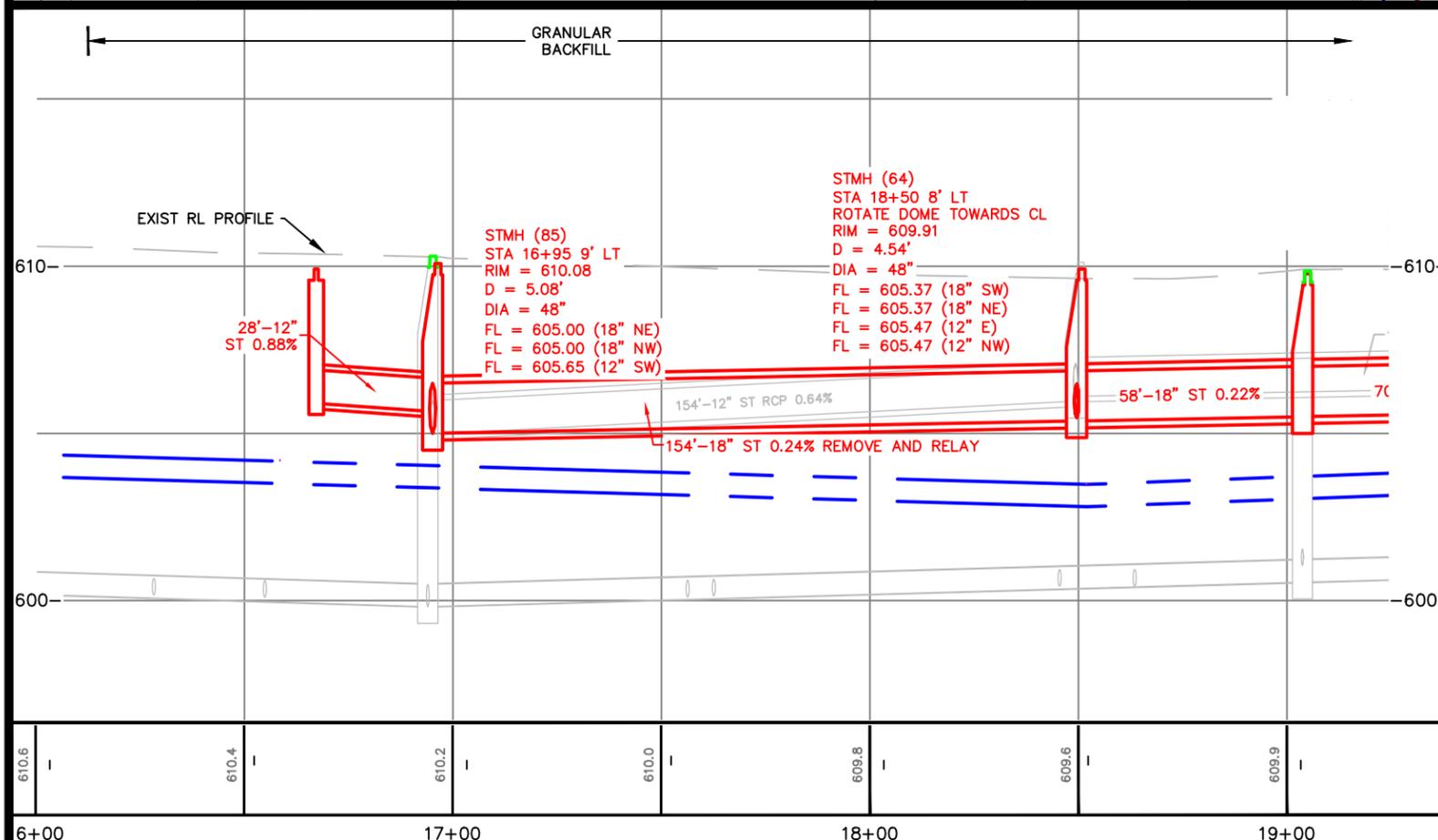
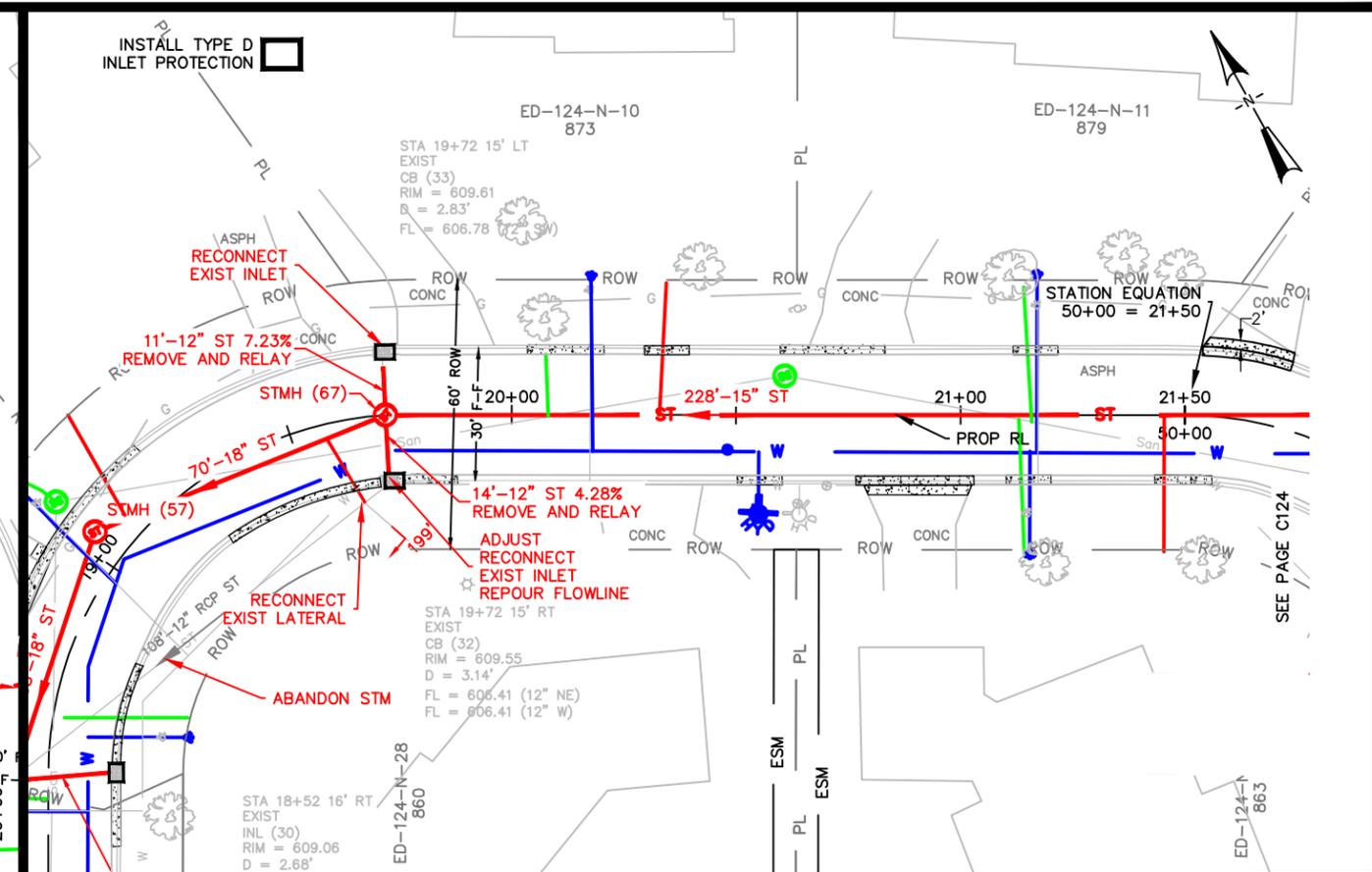
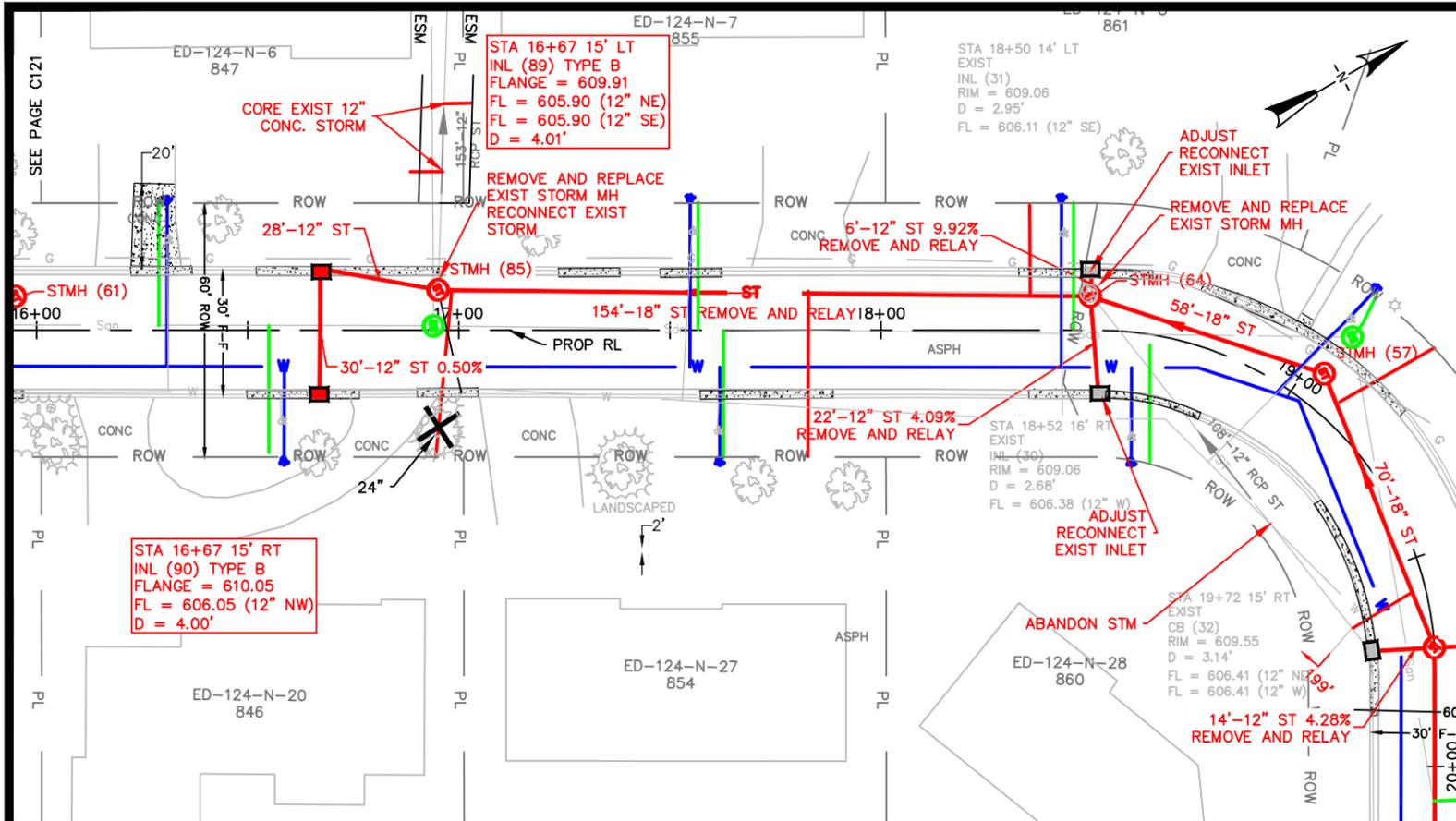
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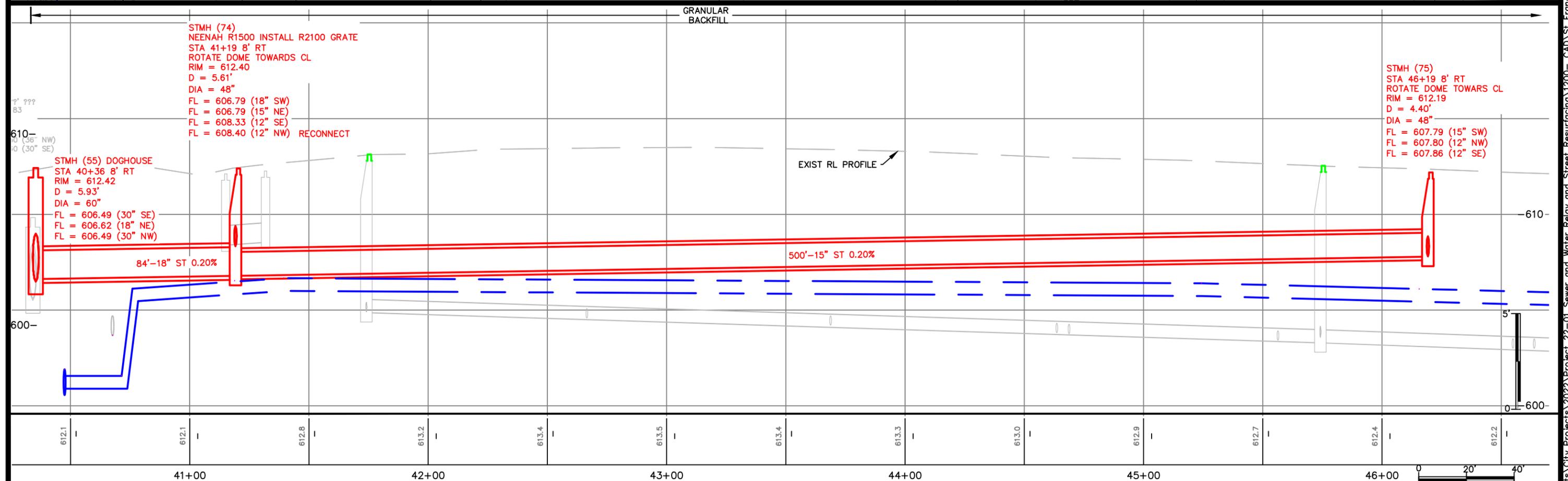
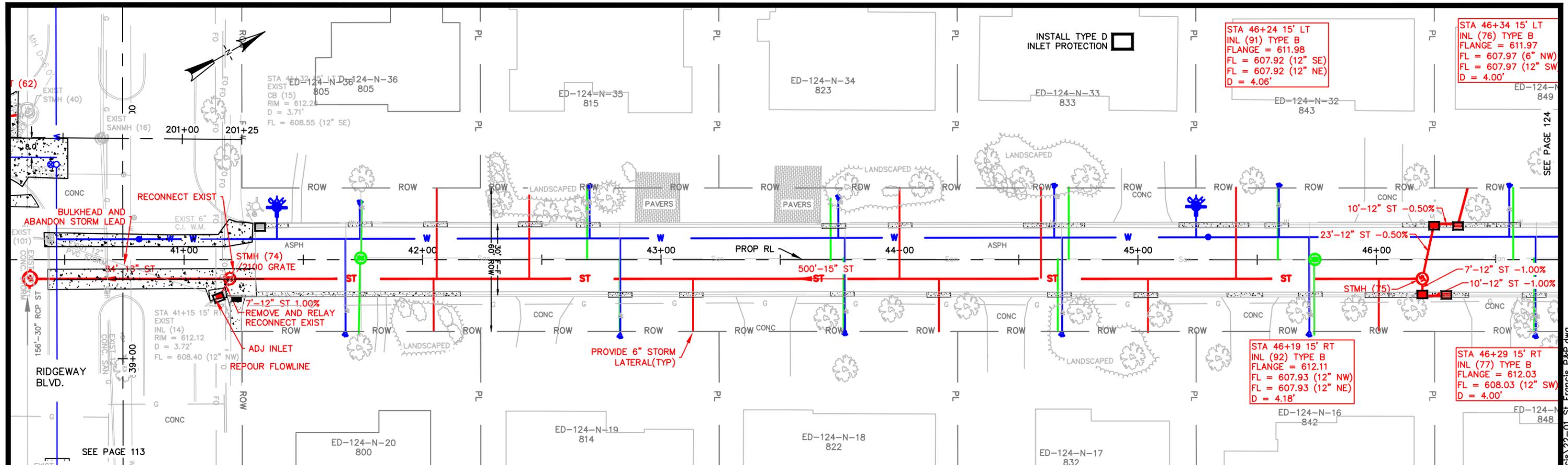
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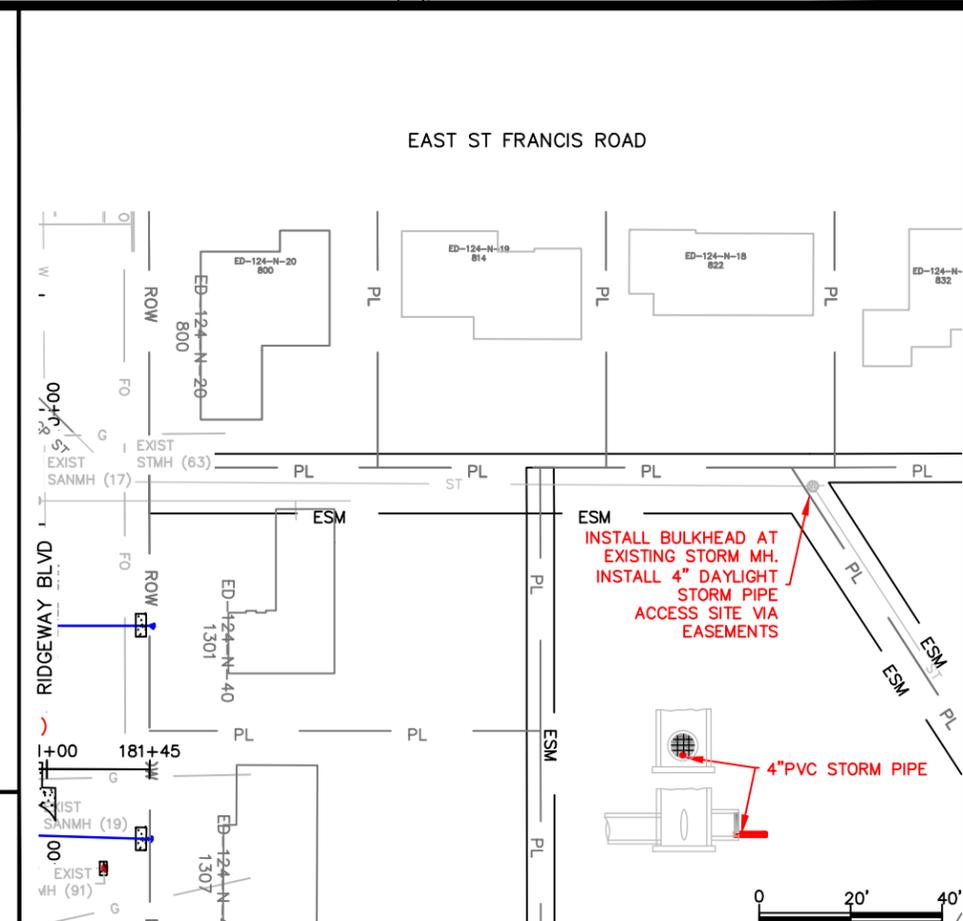
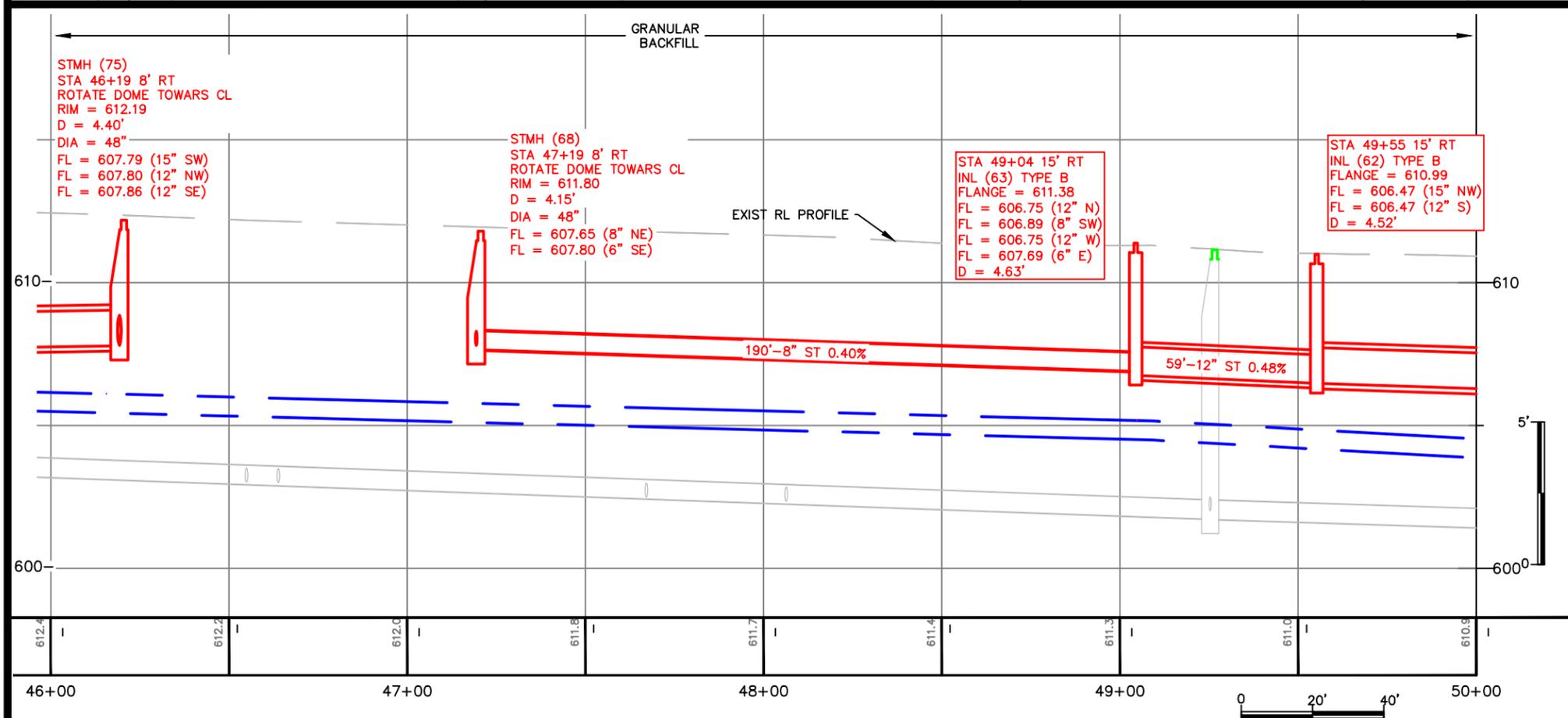
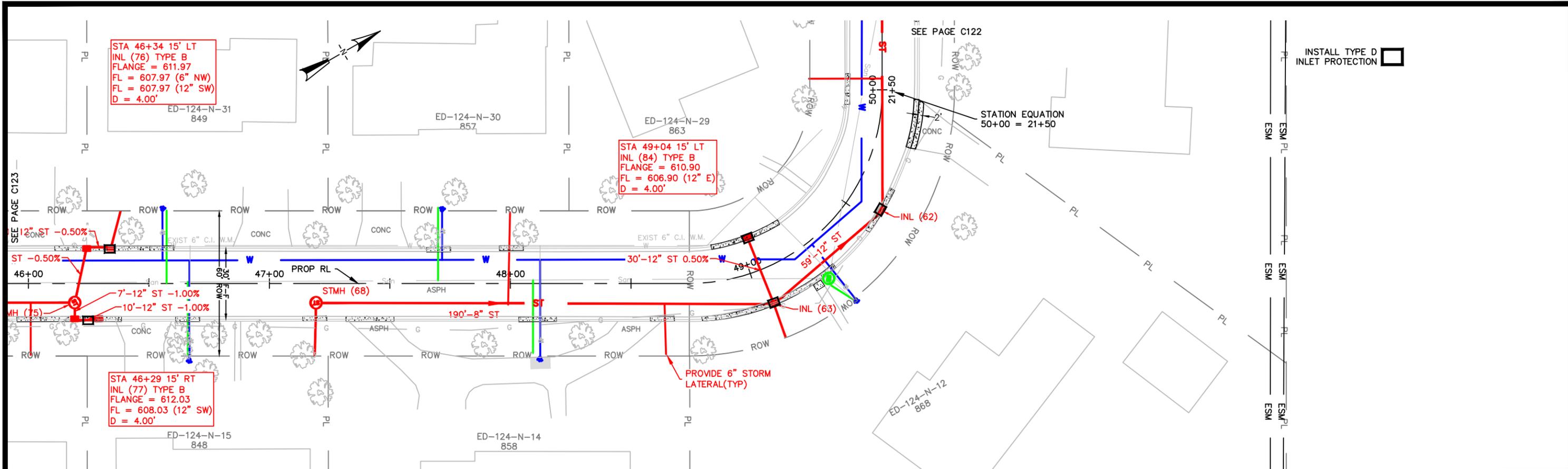


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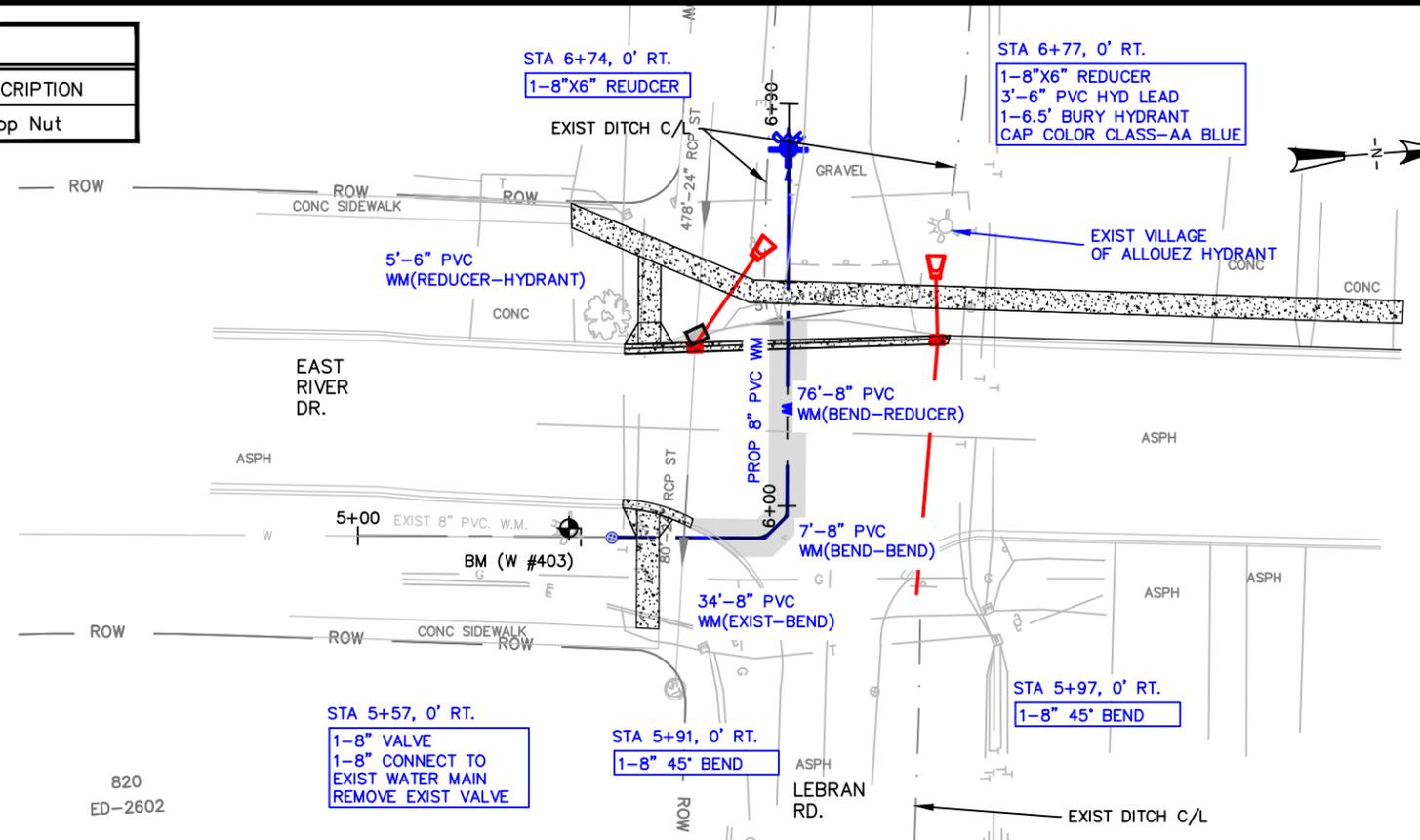
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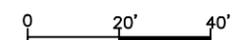
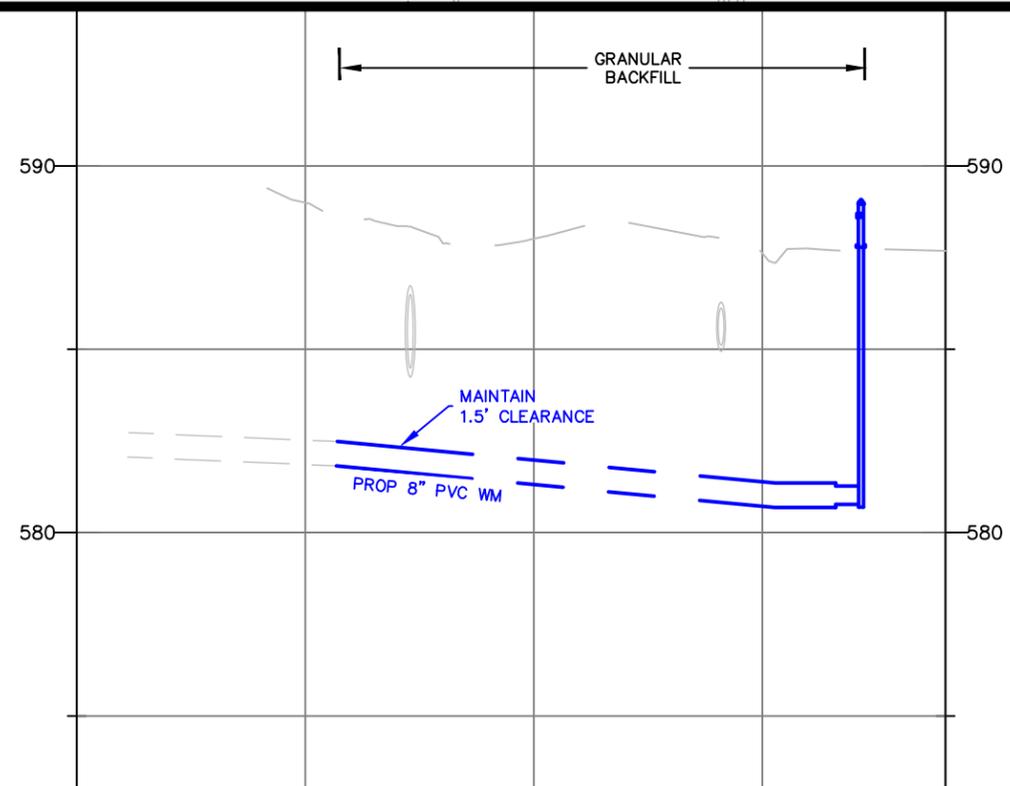
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BENCHMARKS & CONTROL POINTS				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM (W #403)	542733.81	97369.50	591.19	Top Nut



PROVIDE TRAFFIC CONTROL AND FLAGGERS DURING CONSTRUCTION AND ASPHALT PATCHING.

-  INSTALL TYPE D INLET PROTECTION
-  NEW CONCRETE SIDEWALK AND CURB AND GUTTER BY OTHERS
-  NEW STORM INLET, ENDWALLS AND TYPE B INLETS BY OTHERS



**CITY OF DE PERE**

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
OFFICE 920-339-4061 FAX 920-339-4071

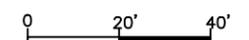
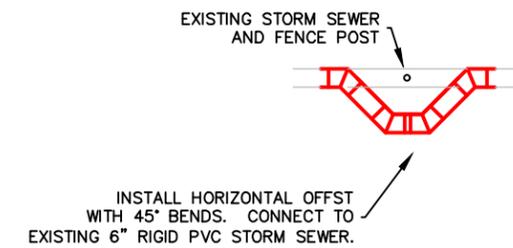
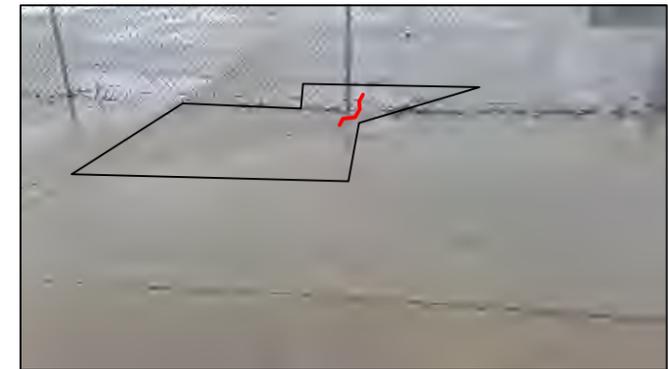
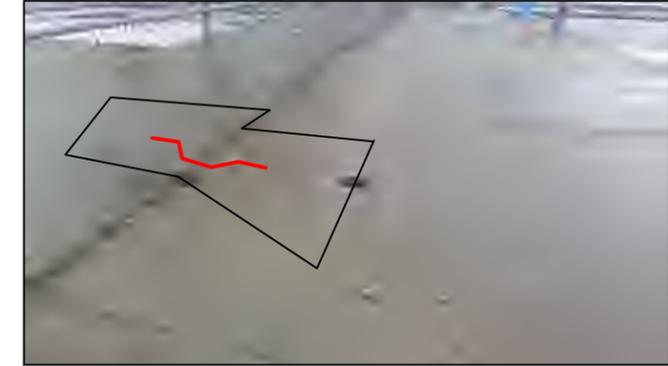
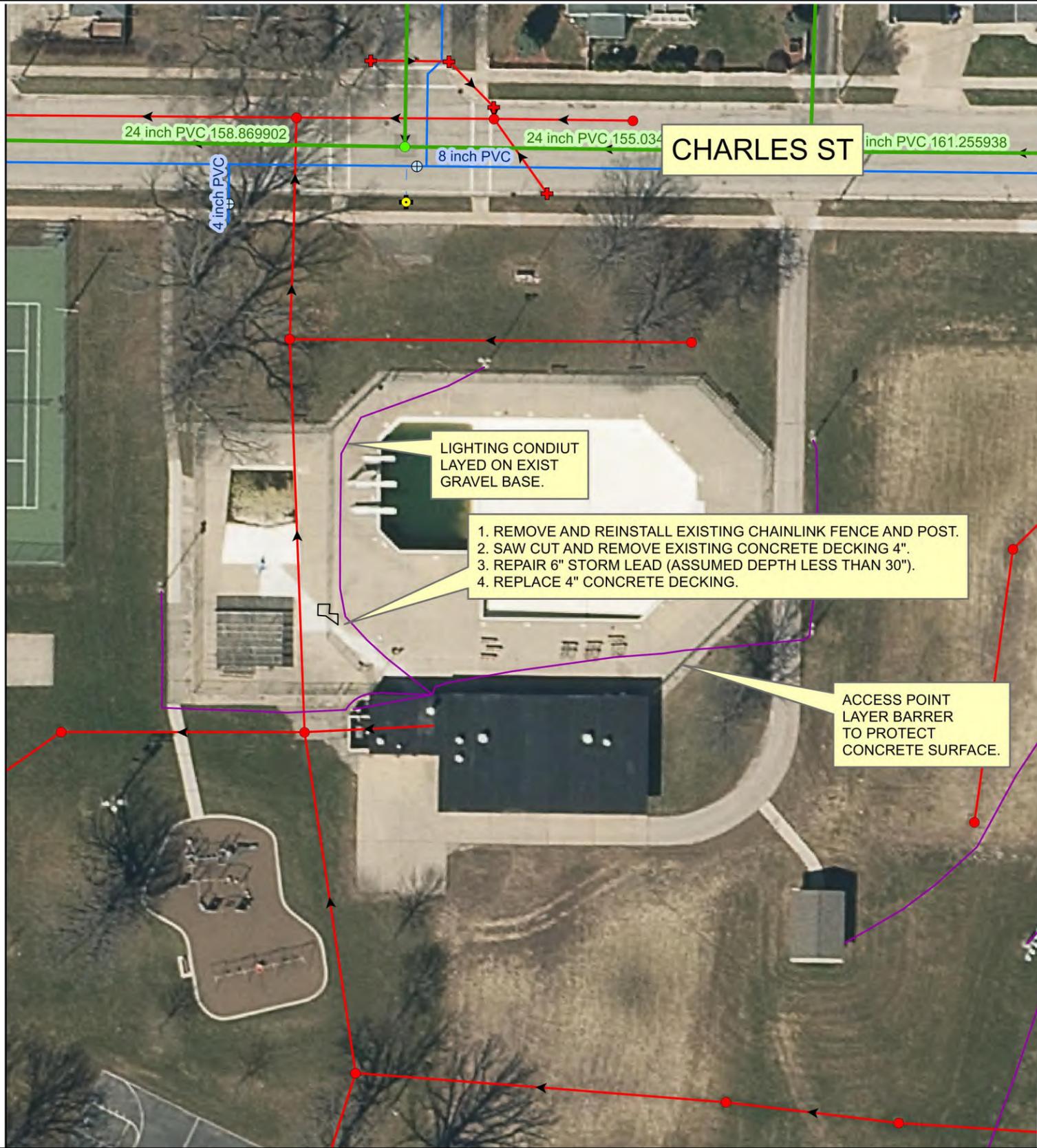
**LEBRAN ROAD  
LEBRUN RD AT EAST RIVER DR  
WATER MAIN EXTENSION**

NAME: SEWER AND WATER RELAY AND STREET RESURFACING  
PROJECT # 22-01

	BY	DATE
SURVEYED	MT	10-2021
DRAWN	BK	2-2022
DESIGNED	BK	02-2022
CHECKED	EPR	03-2022

REVISIONS / ISSUES		
NO.	DATE	BY

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**CITY OF DE PERE**

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
OFFICE 920-339-4061 FAX 920-339-4071

**LEGION PARK  
STORM AND  
CONCRETE REPAIR**

NAME: SEWER AND WATER RELAY AND STREET RESURFACING  
PROJECT # 22-01

NO.	DATE	REVISIONS / ISSUES	
		BY	REMARKS
SURVEYED	10-2021	MT	
DRAWN	2-2022	BK	
DESIGNED	02-2022	BK	
CHECKED	03-2022	EPR	

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**CITY OF DE PERE**

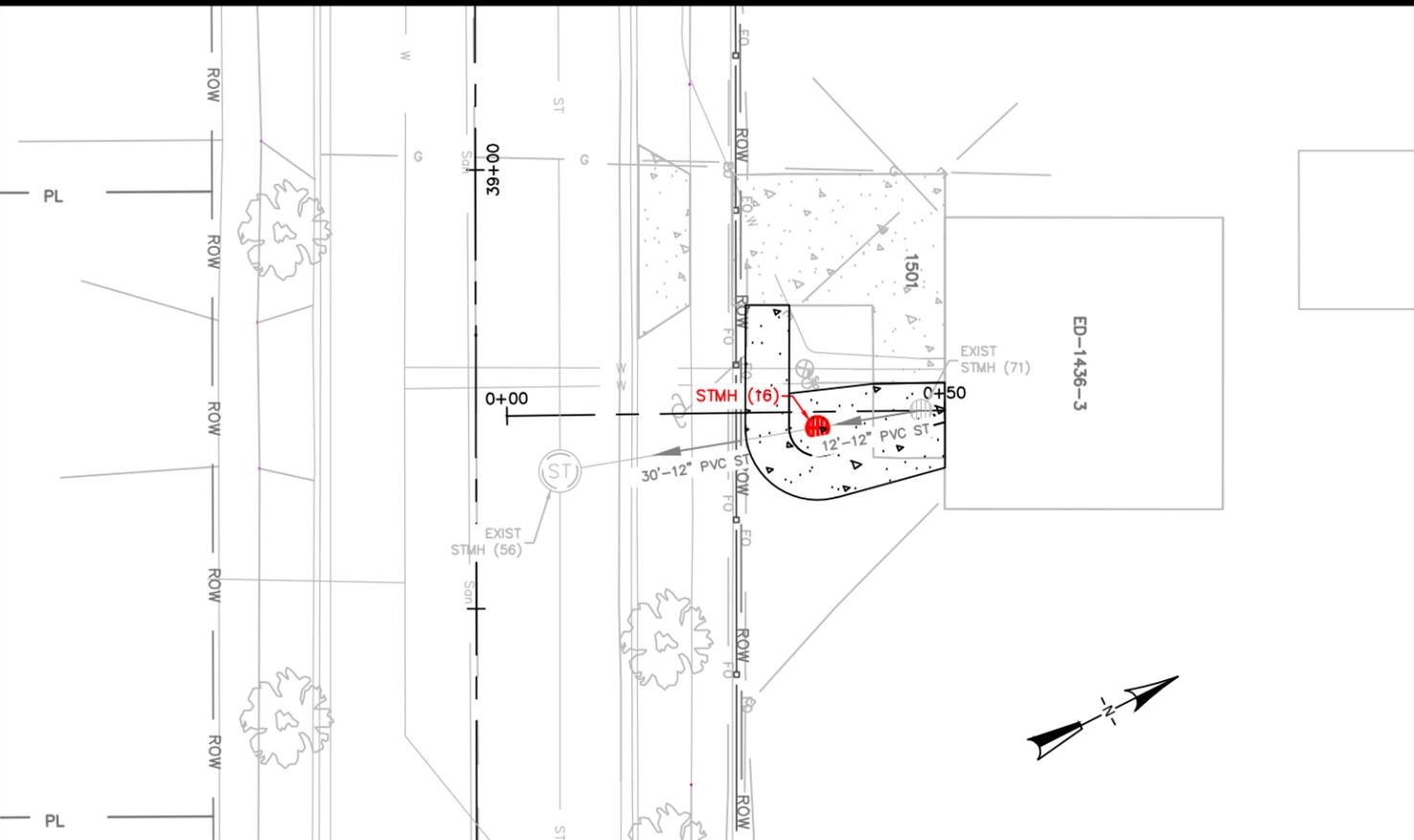
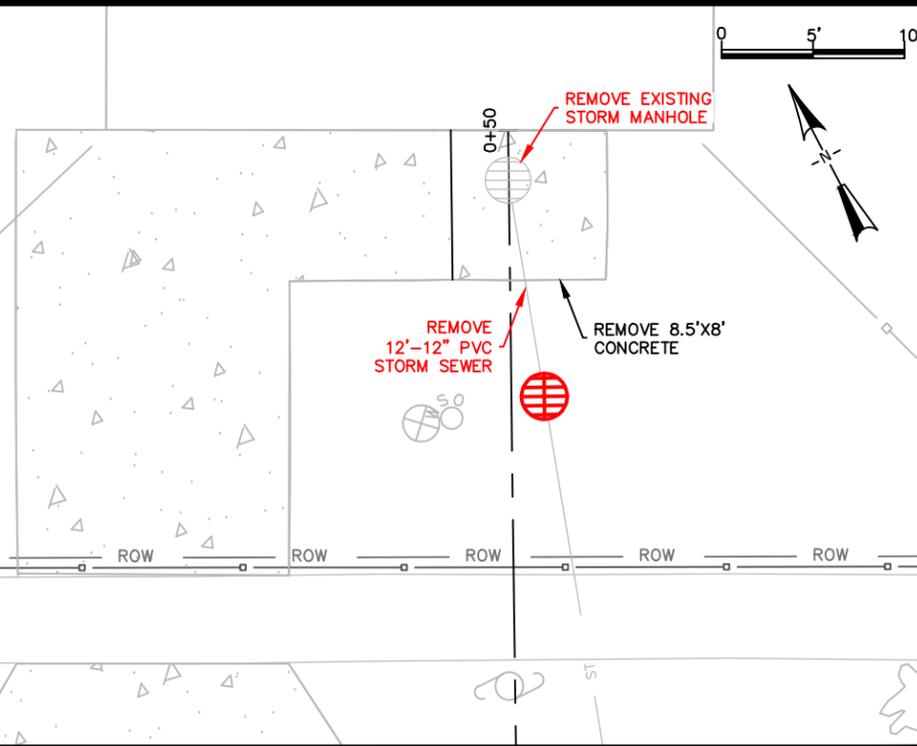
ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
OFFICE 920-339-4061 FAX 920-339-4071

**FRANKLIN ST AND WASHINGTON ST  
STROM AND REPAIR**

NAME:  
SEWER AND WATER RELAY  
AND STREET RESURFACING  
PROJECT # 22-01

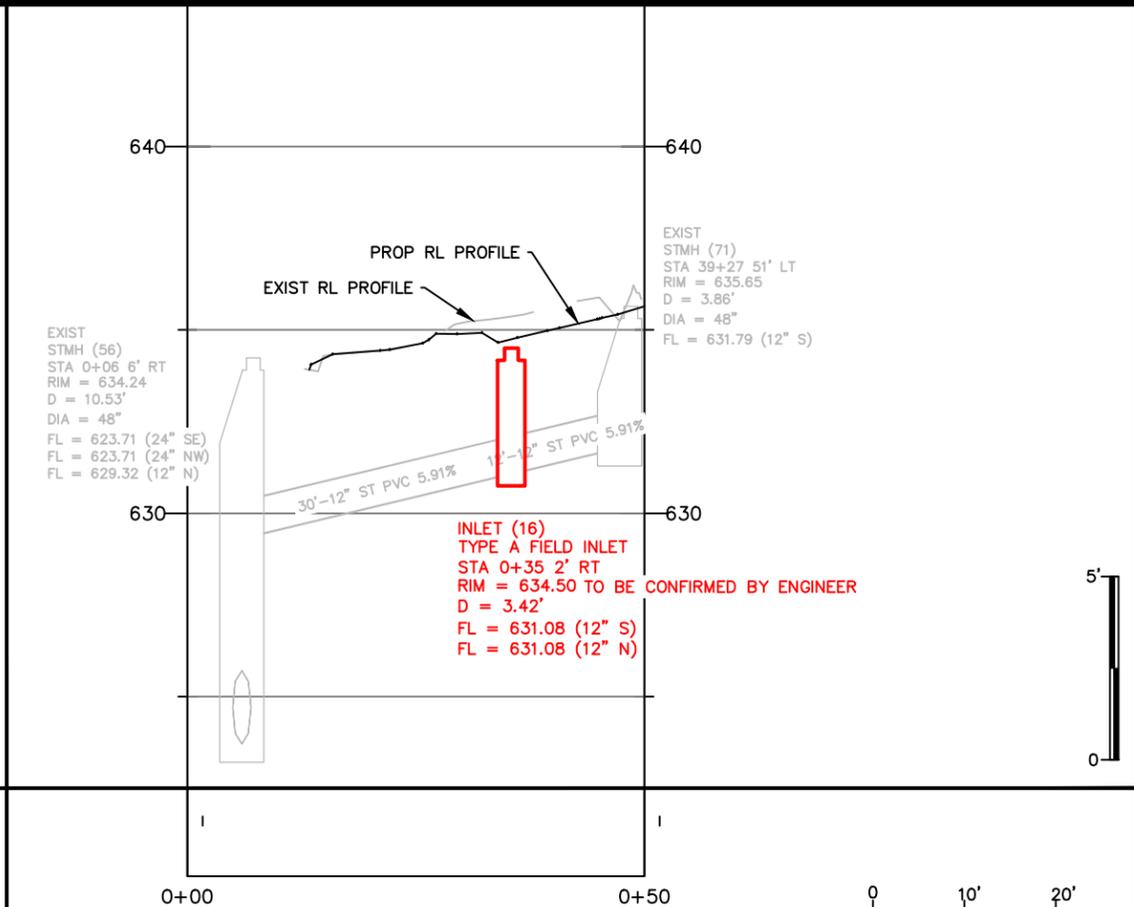
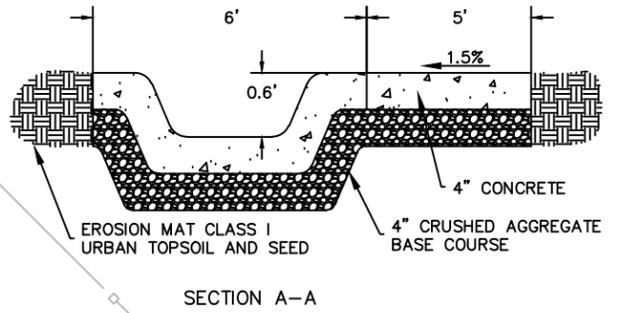
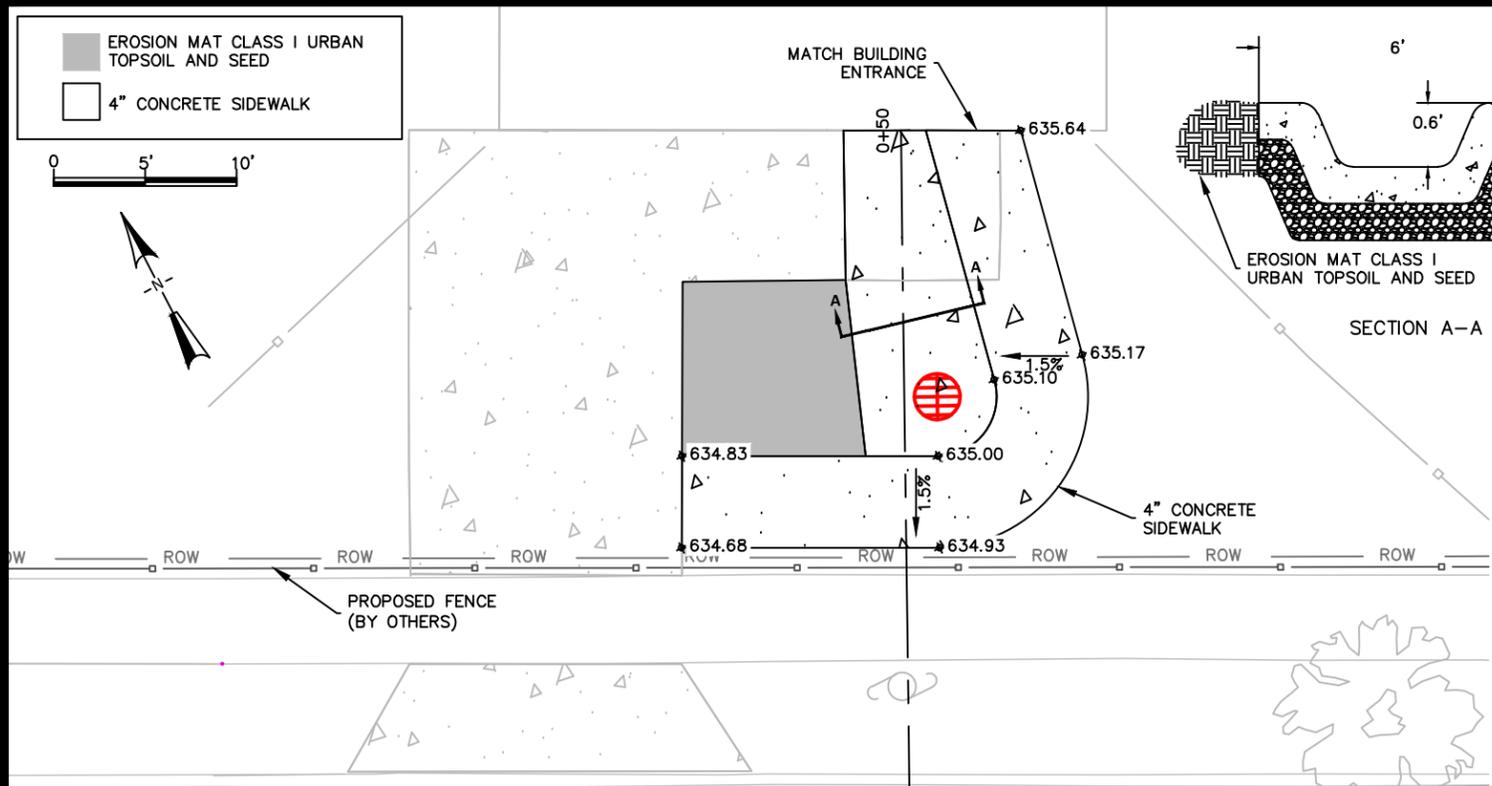
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SURVEYED	MT	10-2021
DRAWN	BK	2-2022
DESIGNED	BK	02-2022
CHECKED	EPR	03-2022

REVISIONS / ISSUES		
NO.	DATE	BY



**MERRILL STREET WATER RESERVOIR  
DEMOLITION PLAN**

- EROSION MAT CLASS I URBAN TOPSOIL AND SEED
- 4" CONCRETE SIDEWALK



**MERRILL STREET WATER RESERVOIR  
STORATION PLAN**



**CITY OF DE PERE**

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
OFFICE 920-339-4061 FAX 920-339-4071

**MERRILL STREET RESERVOIR STORM SEWER  
CITY OF DE PERE WATER**

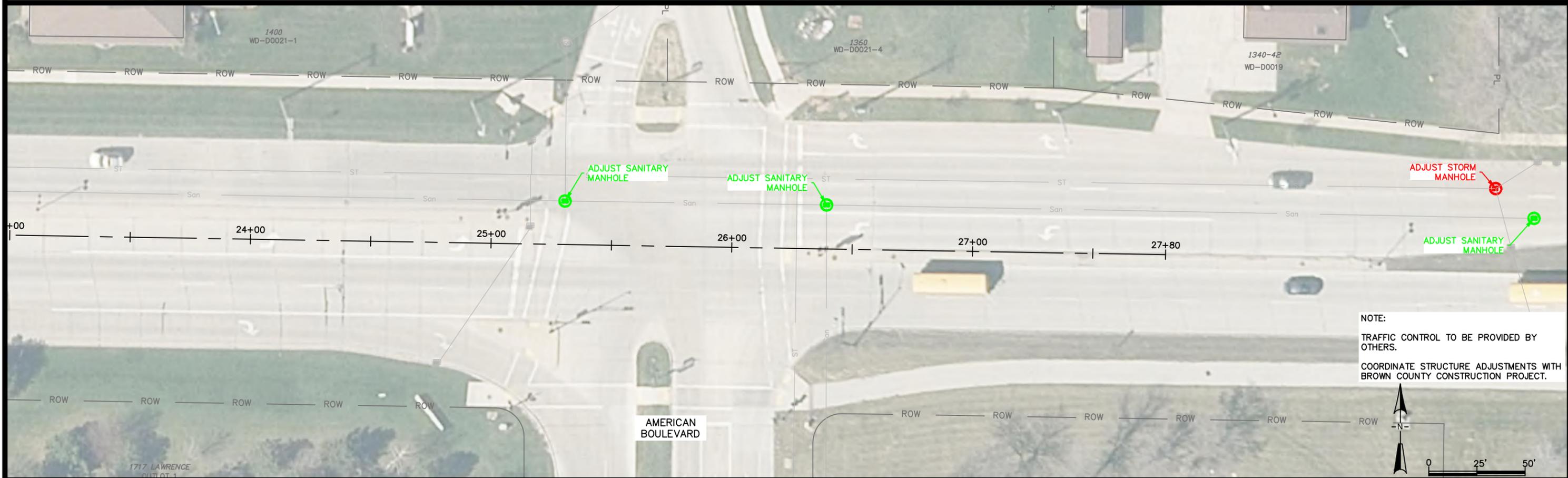
NAME: SANITARY SEWER, RELAY AND WATERMAIN, RELAY  
PROJECT # 22-01

	BY	DATE
SURVEYED	XXX	10-2010
DRAWN	XXX	11-2010
DESIGNED	XXX	11-2010
CHECKED	XXX	11-2010

REVISIONS / ISSUES		
NO.	DATE	REMARKS

PAGE NO.  
**C128**

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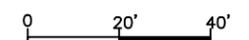
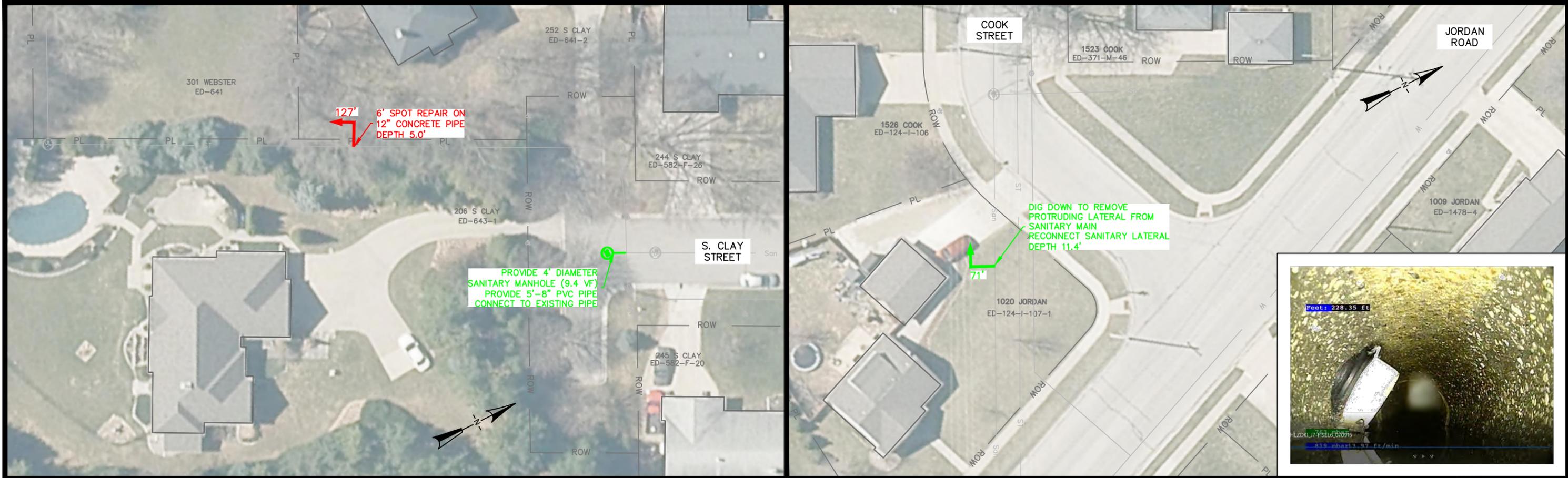


NOTE:  
 TRAFFIC CONTROL TO BE PROVIDED BY OTHERS.  
 COORDINATE STRUCTURE ADJUSTMENTS WITH BROWN COUNTY CONSTRUCTION PROJECT.

AMERICAN BOULEVARD

	BY	DATE	REVISIONS / ISSUES	
			NO.	DATE
SURVEYED				
DRAWN	KAD	03-2022		
DESIGNED	KAD	03-2022		
CHECKED	EPR	03-2022		

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**CITY OF DE PERE**

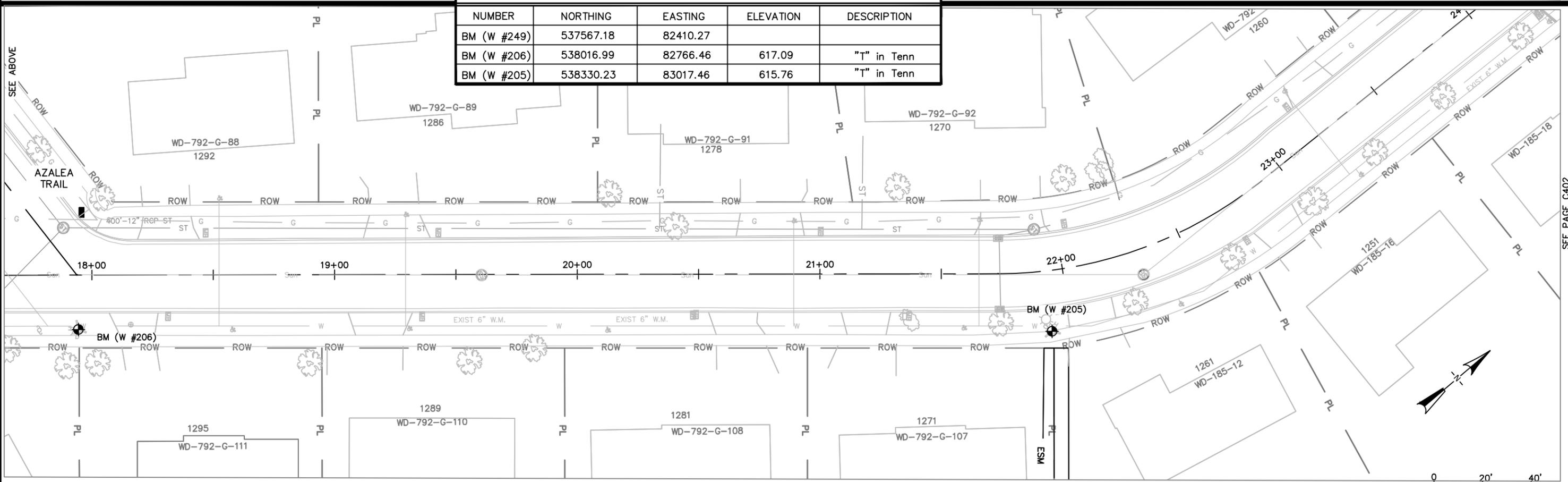
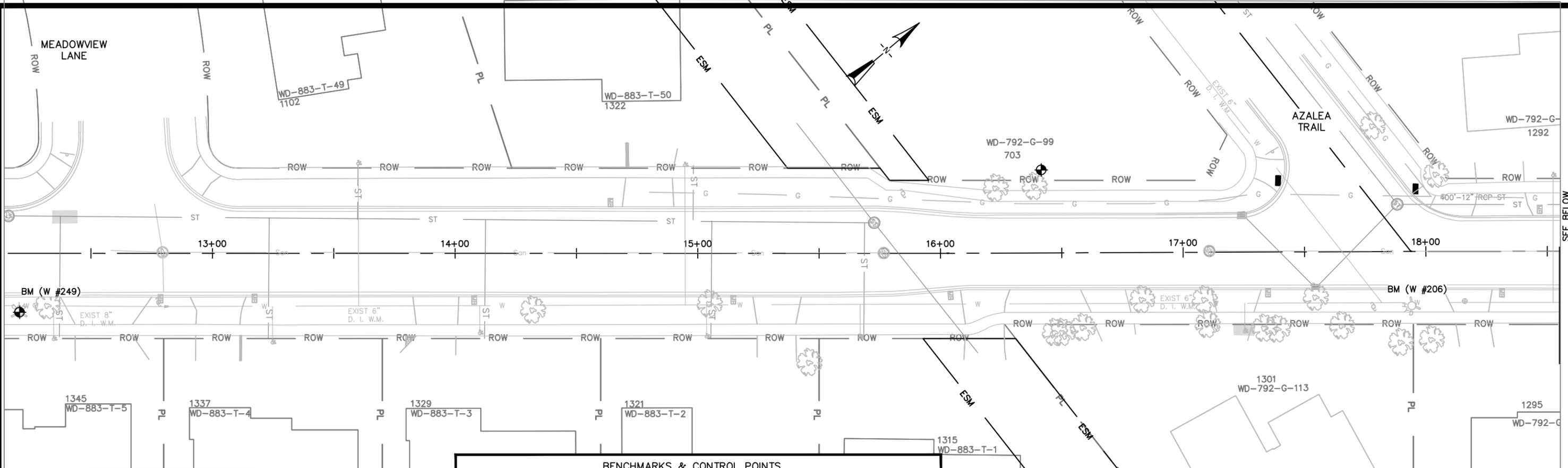
ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
OFFICE 920-339-4061 FAX 920-339-4071

**MISCELLANEOUS  
SPOT REPAIRS**

NAME: SEWER AND WATER RELAY AND STREET RESURFACING  
PROJECT # 22-01

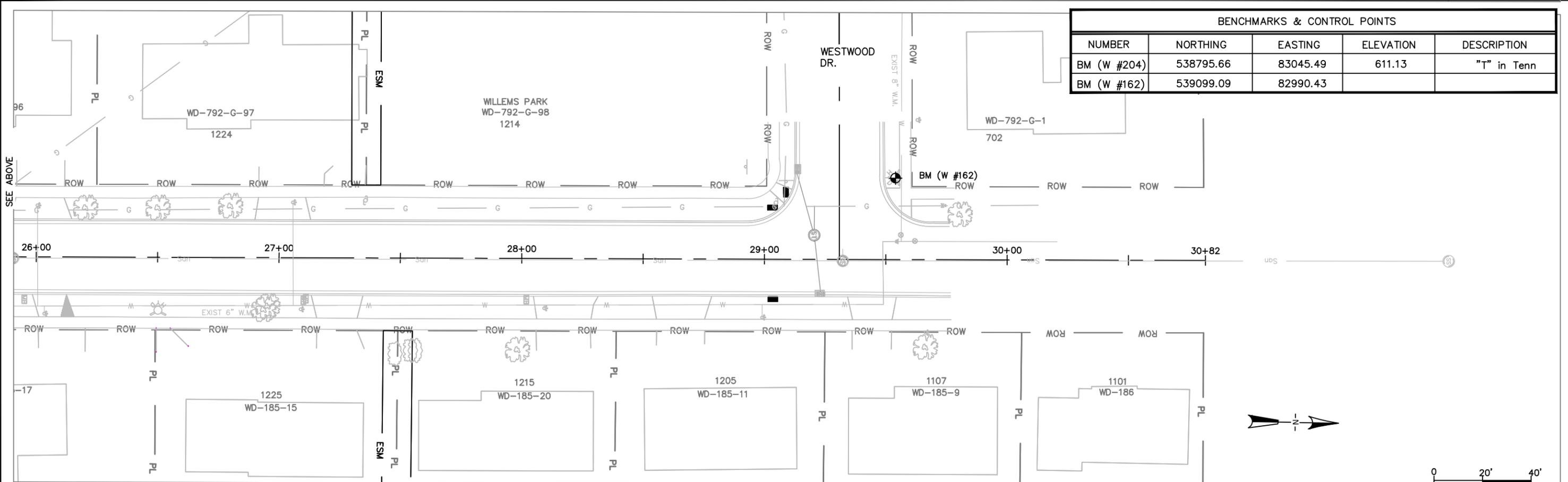
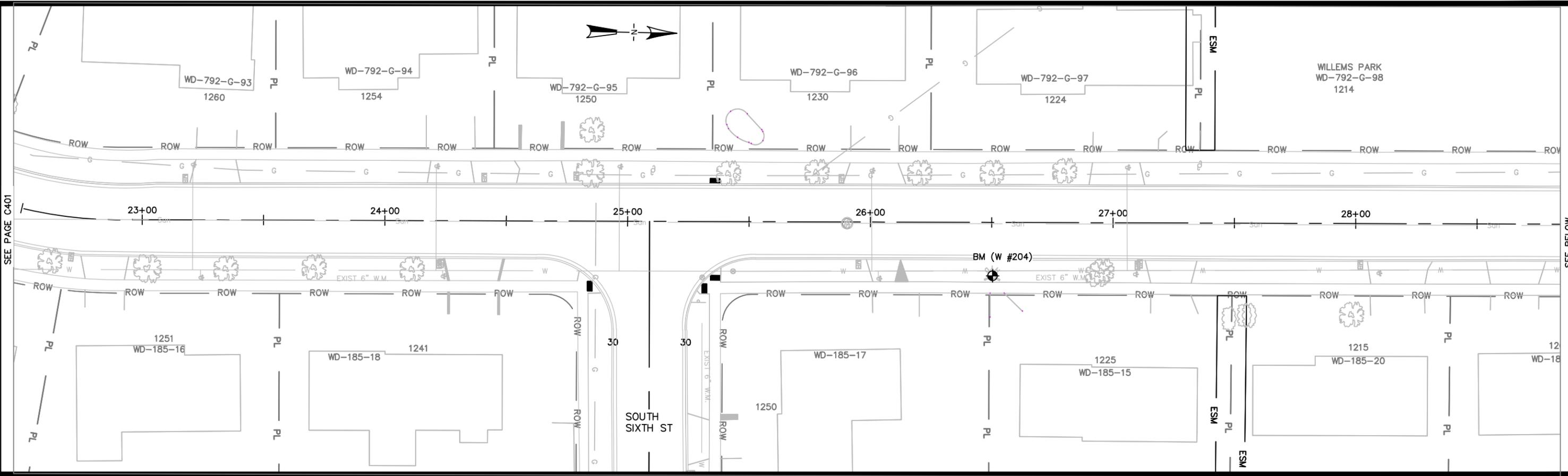
SURVEYED	BY	DATE	REVISIONS / ISSUES		REMARKS
			NO.	DATE	
DRAWN	KAD	03-2022			
DESIGNED	KAD	03-2022			
CHECKED	EPR	03-2022			

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BENCHMARKS & CONTROL POINTS				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM (W #249)	537567.18	82410.27		
BM (W #206)	538016.99	82766.46	617.09	"T" in Tenn
BM (W #205)	538330.23	83017.46	615.76	"T" in Tenn

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 SEE ABOVE  
 SEE BELOW  
 SEE PAGE C402



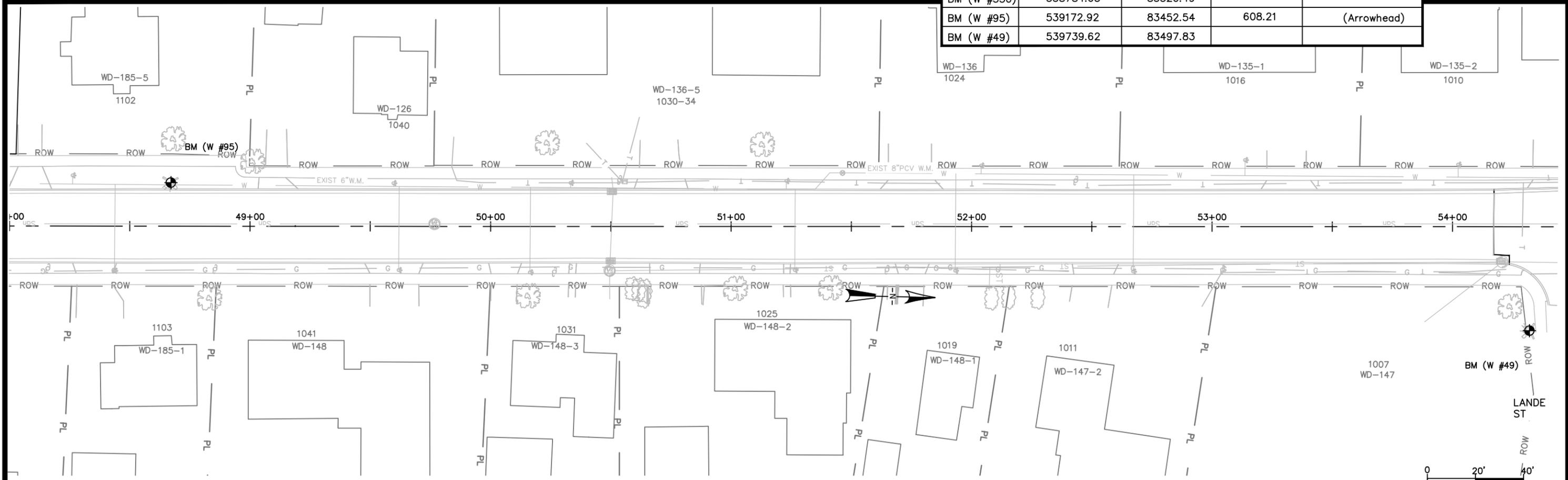
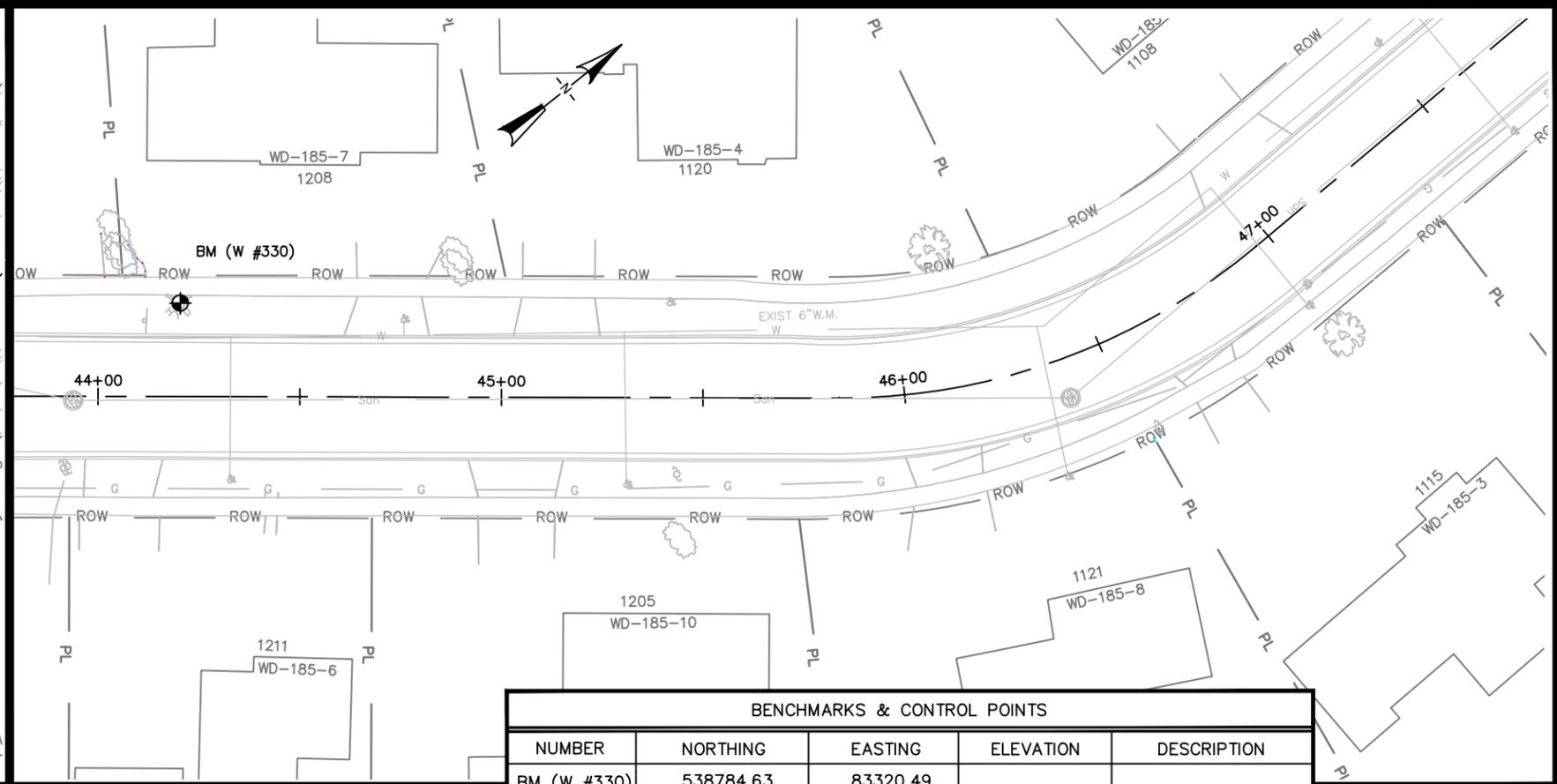
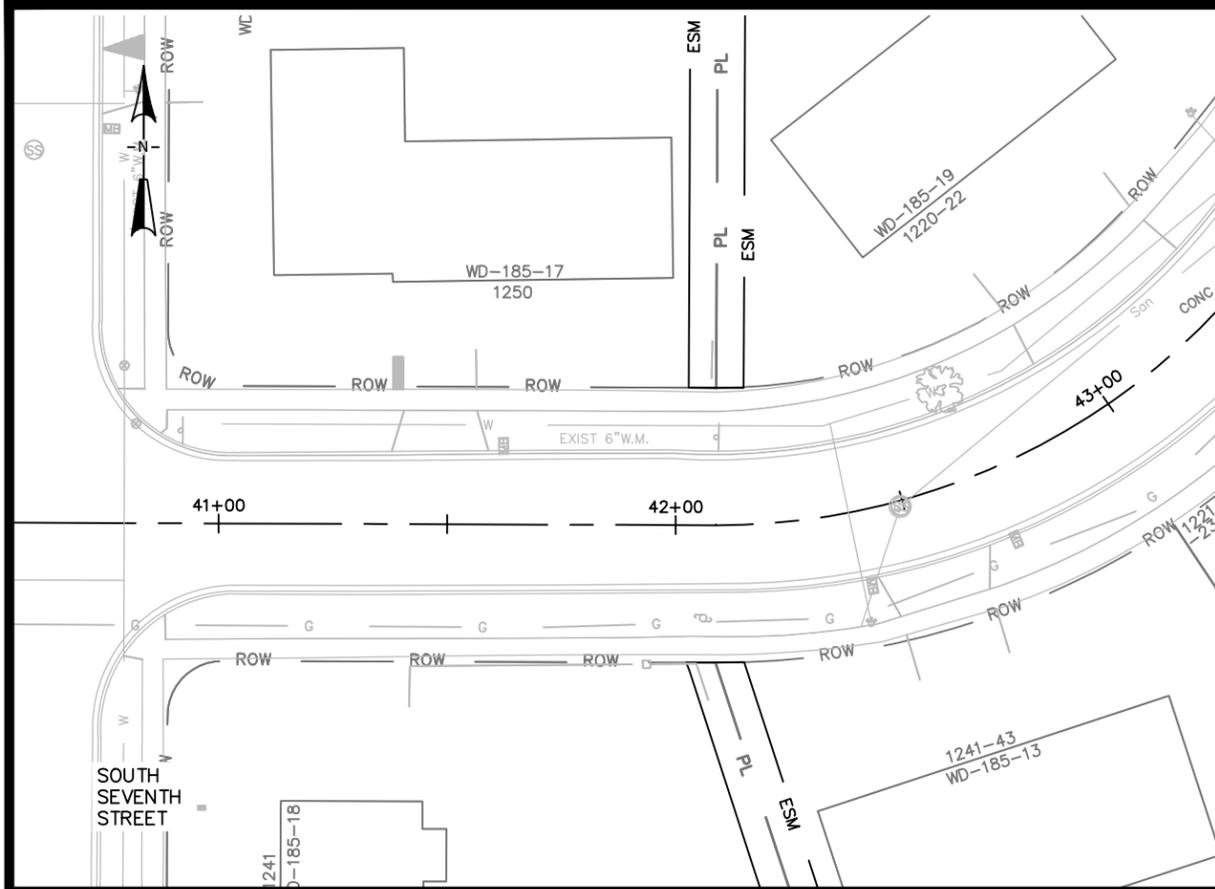
BENCHMARKS & CONTROL POINTS				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM (W #204)	538795.66	83045.49	611.13	"T" in Tenn
BM (W #162)	539099.09	82990.43		

SEE PAGE C401

SEE BELOW

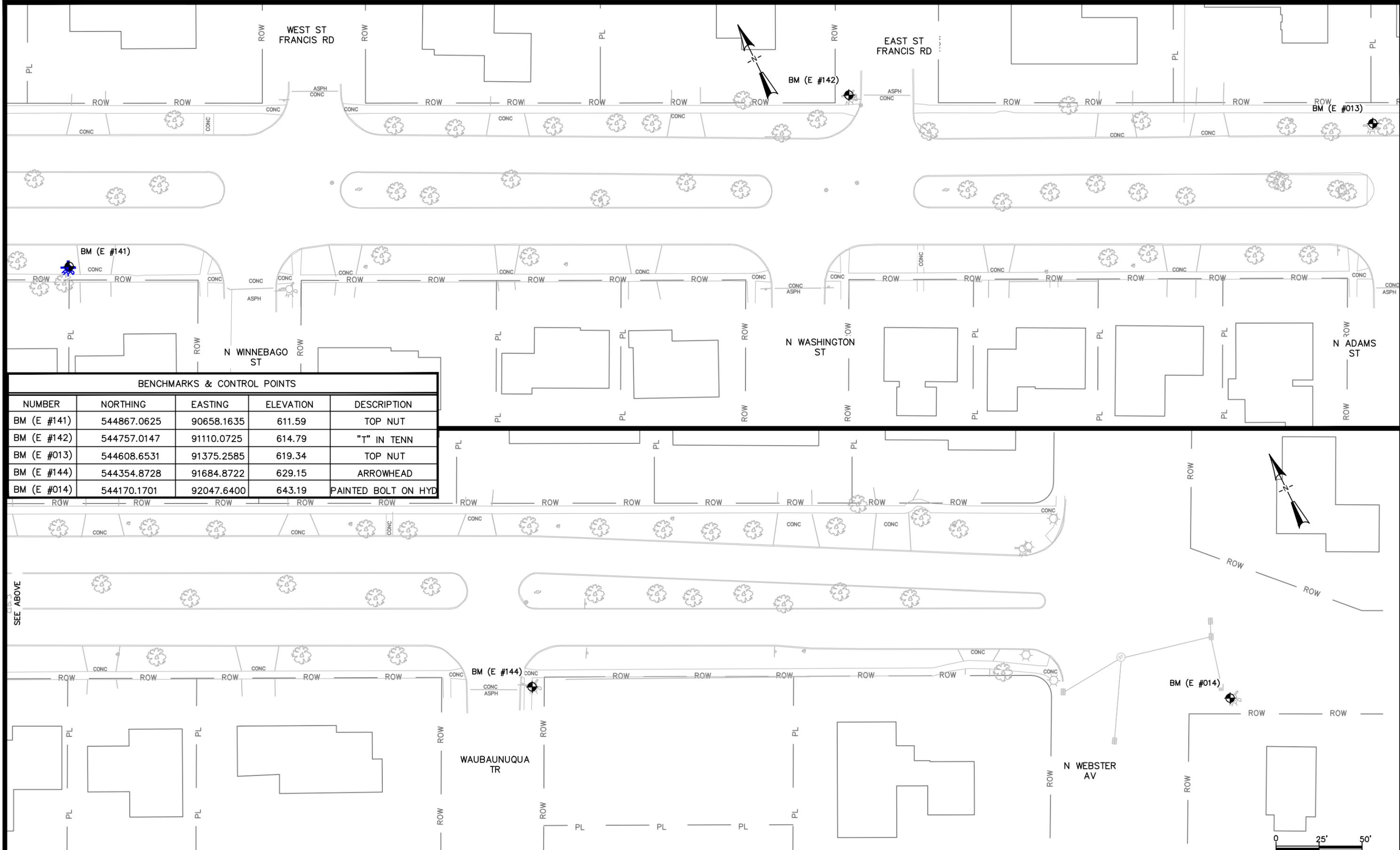
SEE ABOVE

X:\ENG\Projects\City Projects\2022\Project 22-01 Sewer and Water Relay and Street Resurfacing\1200-CAD\S Seventh Benchmarks.dwg



BENCHMARKS & CONTROL POINTS				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM (W #330)	538784.63	83320.49		
BM (W #95)	539172.92	83452.54	608.21	(Arrowhead)
BM (W #49)	539739.62	83497.83		

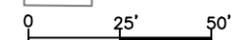
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**BENCHMARKS & CONTROL POINTS**

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM (E #141)	544867.0625	90658.1635	611.59	TOP NUT
BM (E #142)	544757.0147	91110.0725	614.79	"T" IN TENN
BM (E #013)	544608.6531	91375.2585	619.34	TOP NUT
BM (E #144)	544354.8728	91684.8722	629.15	ARROWHEAD
BM (E #014)	544170.1701	92047.6400	643.19	PAINTED BOLT ON HYD

SEE ABOVE



**CITY OF DE PERE**

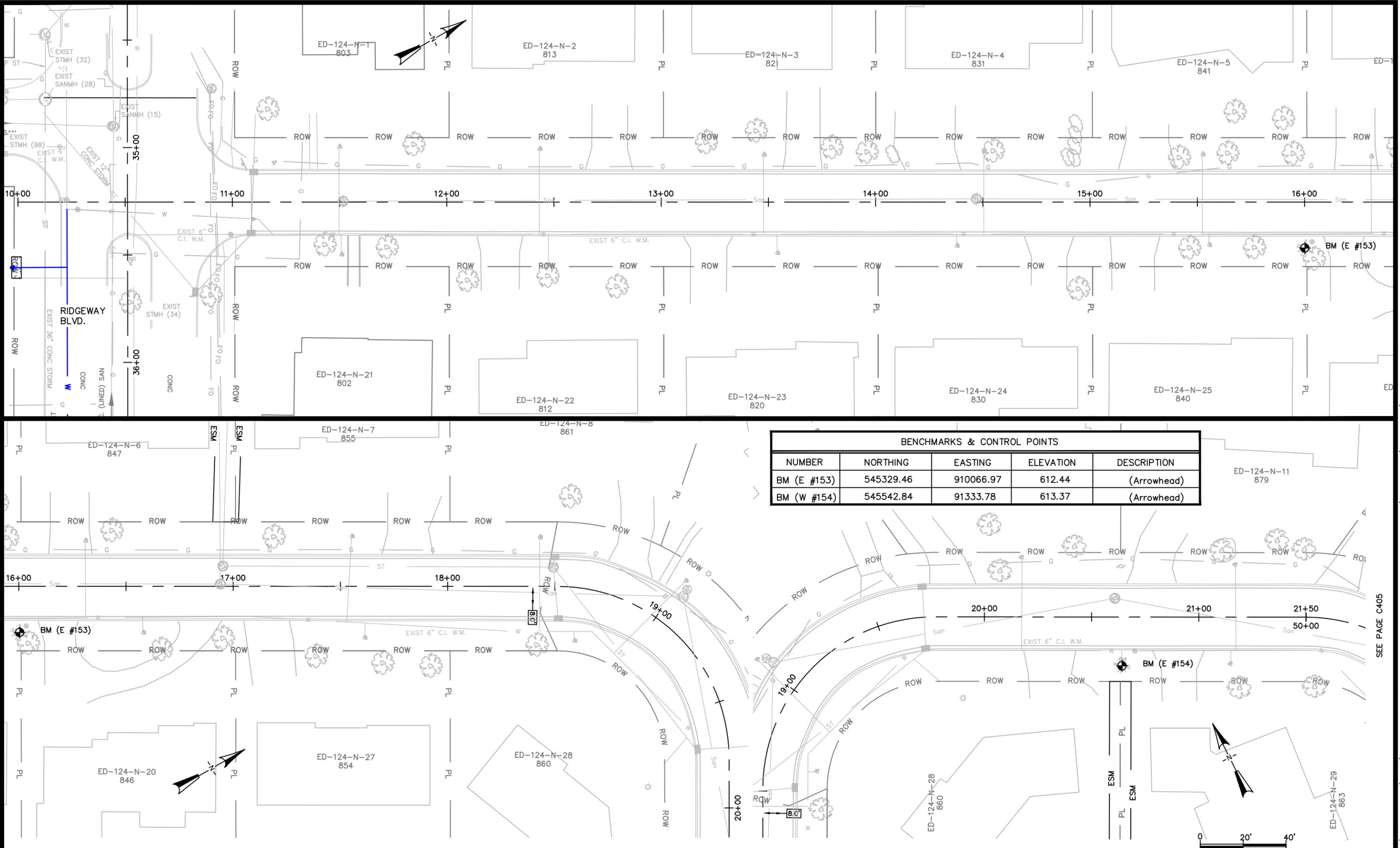
ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
OFFICE 920-339-4061 FAX 920-339-4071

**RIDGWAY BOULEVARD  
ST FRANCIS ROAD TO WEBSTER AVENUE  
BENCHMARKS**

NAME: SEWER & WATER RELAY AND STREET RESURFACING  
PROJECT # 22-01

	BY	DATE	REVISIONS / ISSUES	
			NO.	DATE
SURVEYED				
DRAWN	MAL	12-2020		
DESIGNED	MAL	12-2020		
CHECKED	CKK	12-2020		

PAGE NO.  
**C404**



BENCHMARKS & CONTROL POINTS				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM (E #153)	545329.46	910066.97	612.44	(Arrowhead)
BM (W #154)	545542.84	91333.78	613.37	(Arrowhead)

SEE PAGE C405



**CITY OF DE PERE**

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
OFFICE 920-339-4061 FAX 920-339-4071

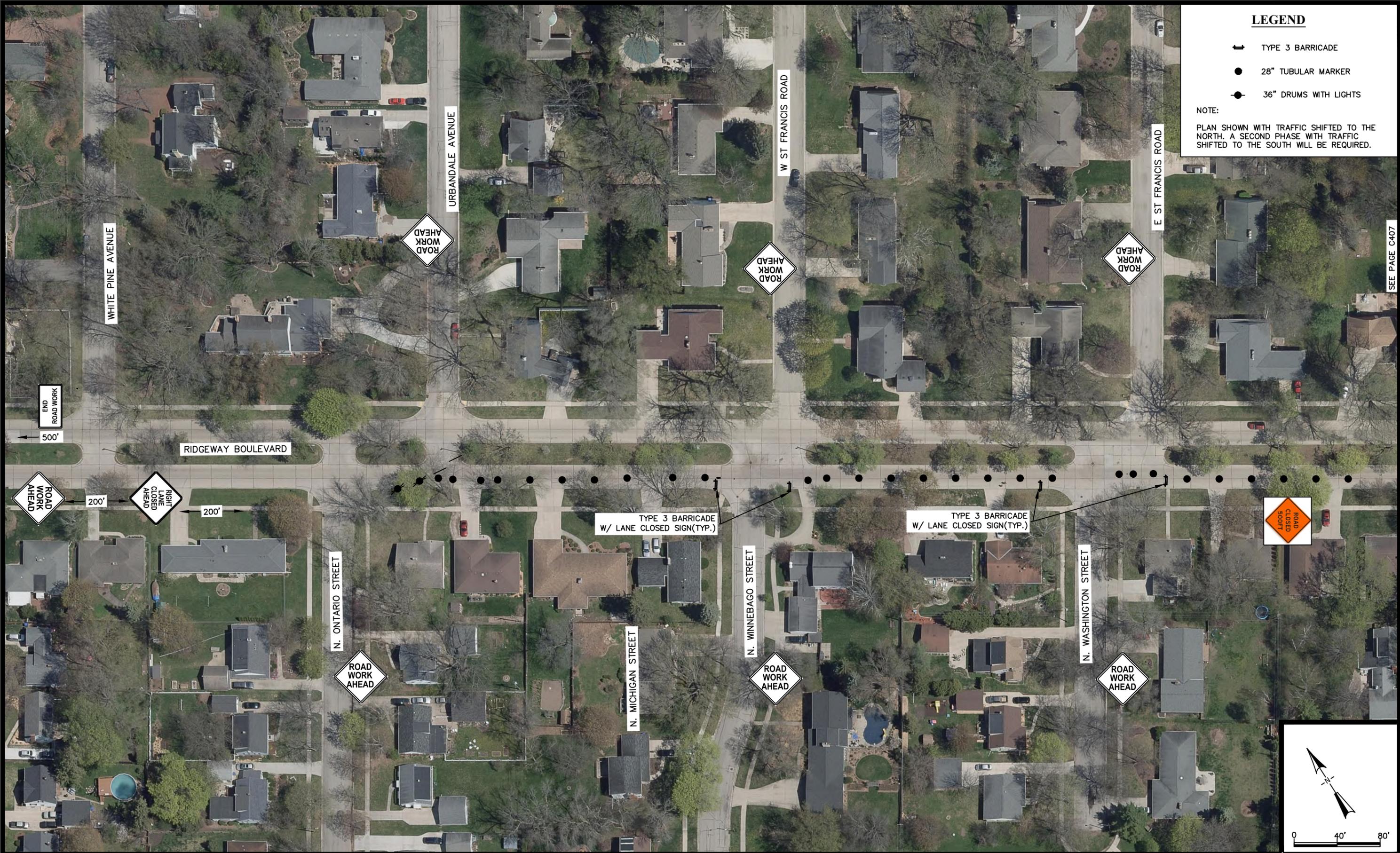
**WEST ST FRANCIS ROAD  
RIDGEWAY BLVD TO 550' NORTH OF RIDGEWAY BLVD  
BENCHMARKS**

NAME: SEWER AND WATER RELAY AND STREET RESURFACING  
PROJECT # 22-01

NO.	DATE	BY	DATE
SURVEYED		SRL	10-2021
DRAWN		BK	01-2022
DESIGNED		BK	01-2022
CHECKED		EPR	01-2022

REVISIONS / ISSUES		
NO.	DATE	REMARKS

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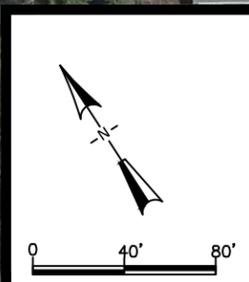


**LEGEND**

- ↑ TYPE 3 BARRICADE
- 28" TUBULAR MARKER
- 36" DRUMS WITH LIGHTS

NOTE:  
 PLAN SHOWN WITH TRAFFIC SHIFTED TO THE NORTH. A SECOND PHASE WITH TRAFFIC SHIFTED TO THE SOUTH WILL BE REQUIRED.

SEE PAGE C407



**CITY OF DE PERE**

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
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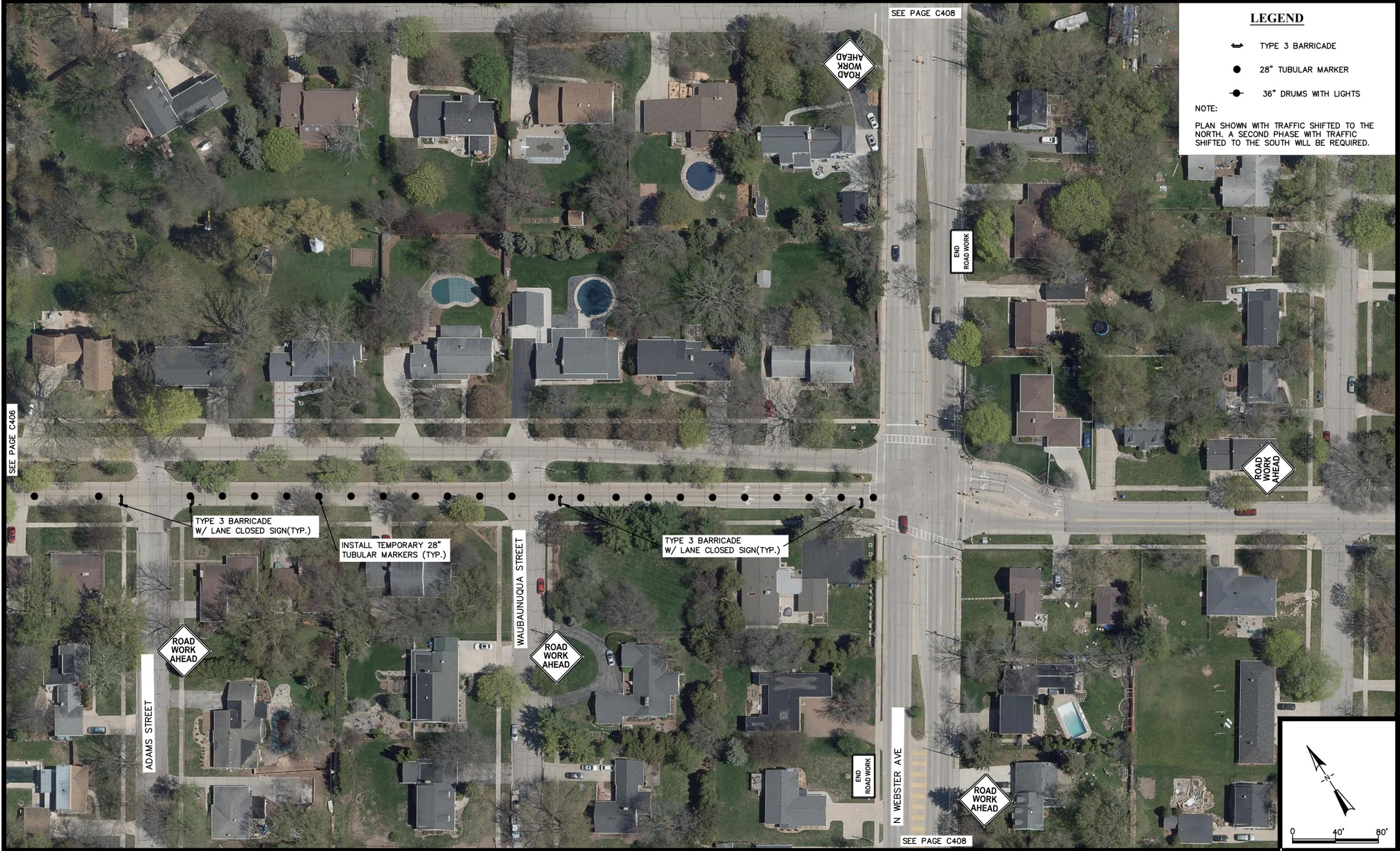
**RIDGEWAY BOULEVARD  
 N. ONTARIO STREET TO E. ST FRANCIS ROAD  
 TRAFFIC CONTROL**

NAME: SEWER & WATER RELAY AND STREET RESURFACING  
 PROJECT # 21-01

	BY	DATE
SURVEYED		
DRAWN	MAL	03-2021
DESIGNED	MAL	03-2021
CHECKED	CKK	03-2021

REVISIONS / ISSUES		
NO.	DATE	REMARKS

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**LEGEND**

- ↔ TYPE 3 BARRICADE
- 28" TUBULAR MARKER
- 36" DRUMS WITH LIGHTS

NOTE:  
 PLAN SHOWN WITH TRAFFIC SHIFTED TO THE NORTH. A SECOND PHASE WITH TRAFFIC SHIFTED TO THE SOUTH WILL BE REQUIRED.

SEE PAGE C406

SEE PAGE C408

SEE PAGE C408

ADAMS STREET

WAUBAUNUQUA STREET

N WEBSTER AVE

TYPE 3 BARRICADE  
W/ LANE CLOSED SIGN(TYP.)

INSTALL TEMPORARY 28"  
TUBULAR MARKERS (TYP.)

TYPE 3 BARRICADE  
W/ LANE CLOSED SIGN(TYP.)



**CITY OF DE PERE**

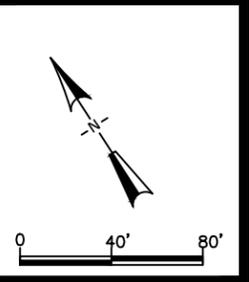
ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
 OFFICE 920-339-4061 FAX 920-339-4071

**RIDGWAY BOULVARD  
 E. ST FRANCIS STREET TO WEBSTER AVENUE  
 TRAFFIC CONTROL**

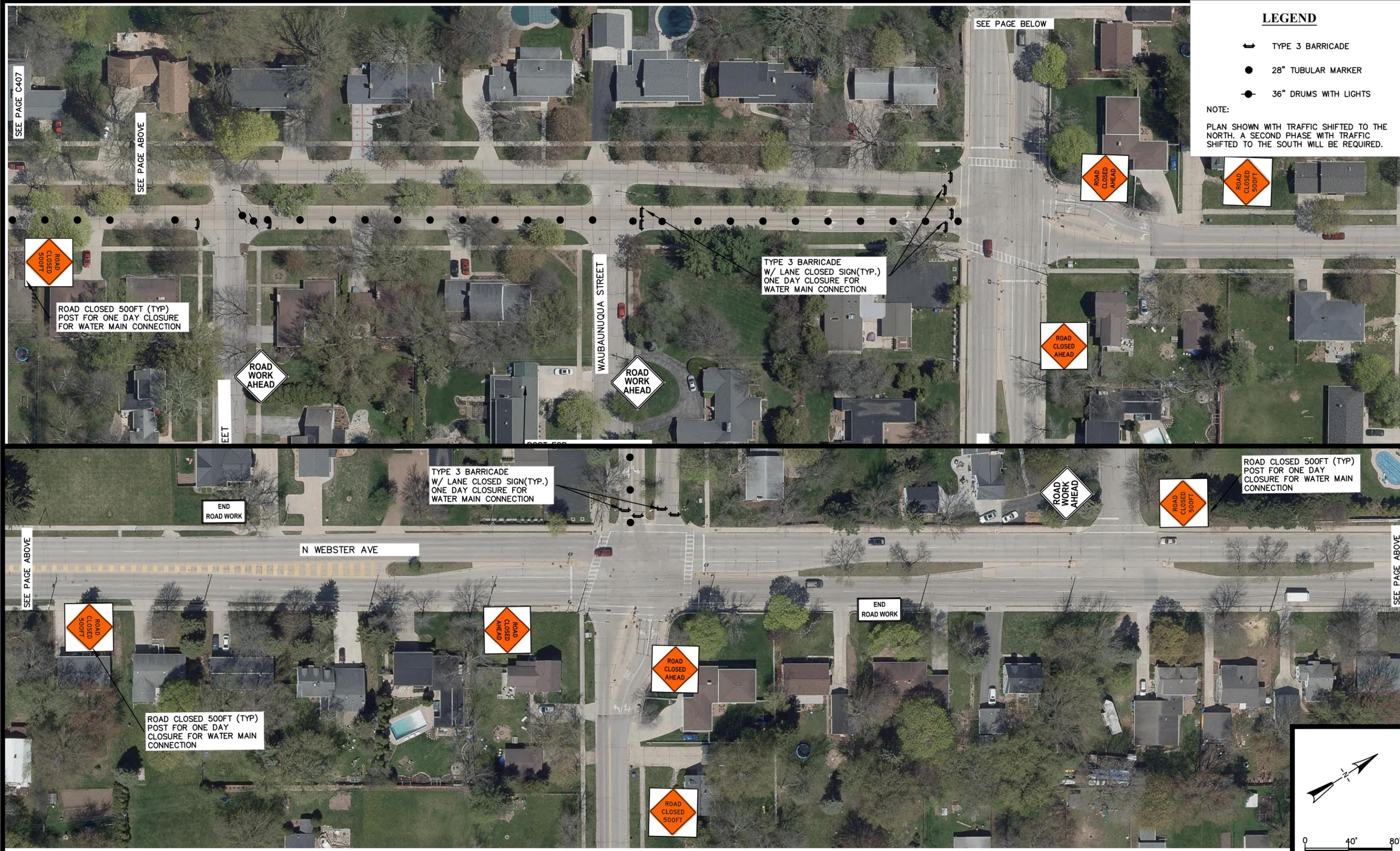
NAME: SEWER & WATER RELAY AND STREET RESURFACING  
 PROJECT # 21-01

SURVEYED	BY	DATE	REVISIONS / ISSUES	
			NO.	DATE
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DESIGNED	MAL	03-2021		
CHECKED	CKK	03-2021		

PAGE NO.  
**C407**



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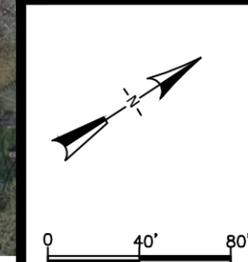


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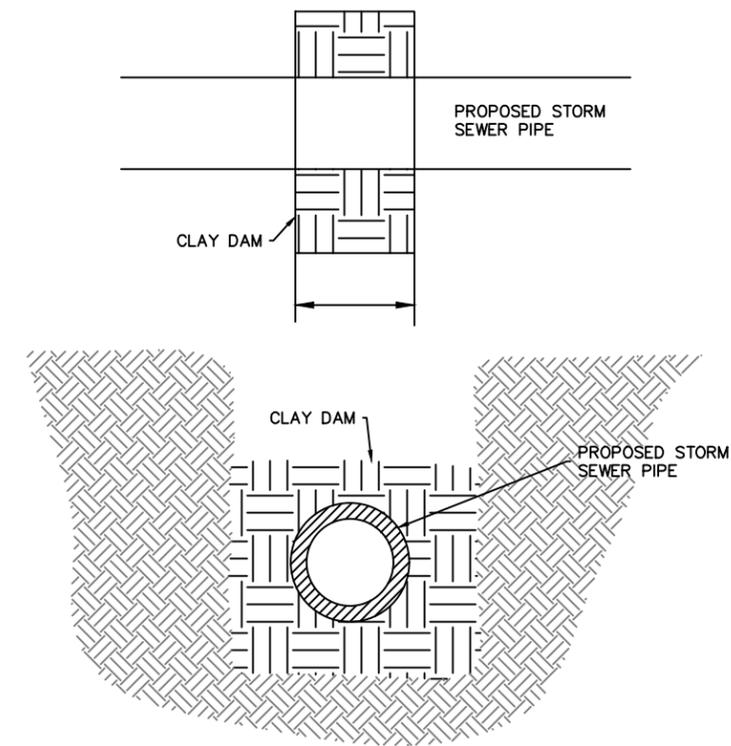
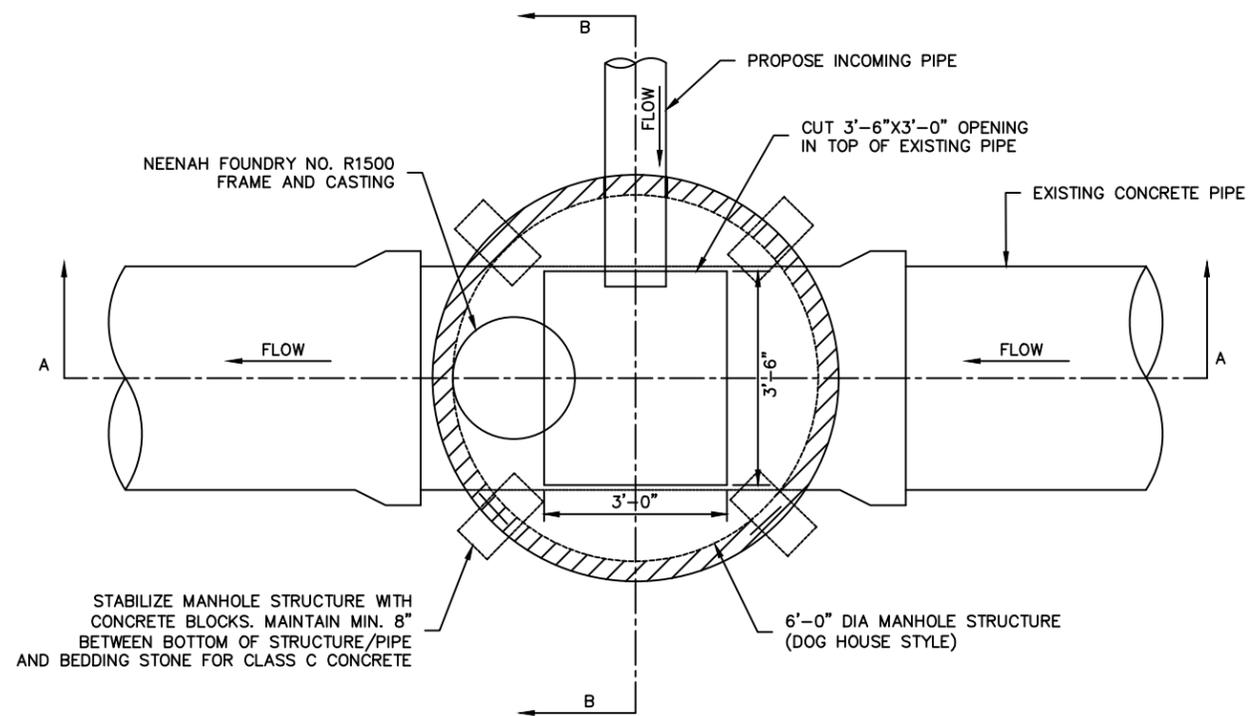
- ↑ TYPE 3 BARRICADE
- 28" TUBULAR MARKER
- 36" DRUMS WITH LIGHTS

NOTE:  
 PLAN SHOWN WITH TRAFFIC SHIFTED TO THE NORTH. A SECOND PHASE WITH TRAFFIC SHIFTED TO THE SOUTH WILL BE REQUIRED.

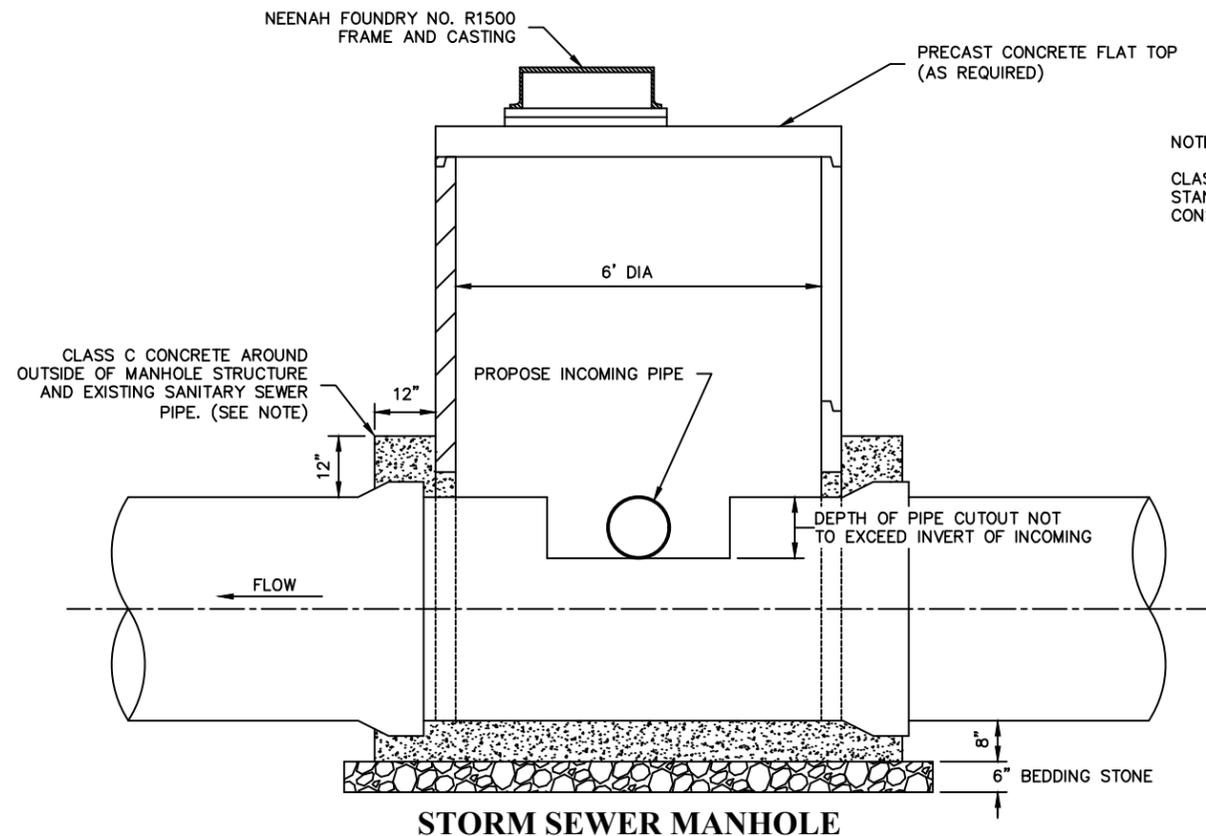
	<b>CITY OF DE PERE</b>	<b>RIDGEWAY BOULVARD</b>	NAME: SEWER & WATER RELAY AND STREET RESURFACING PROJECT # 21-01	BY	DATE	REVISIONS / ISSUES		PAGE NO. <b>C408</b>
	ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071	<b>WEBSTER AVENUE</b> <b>TRAFFIC CONTROL</b>					NO.	



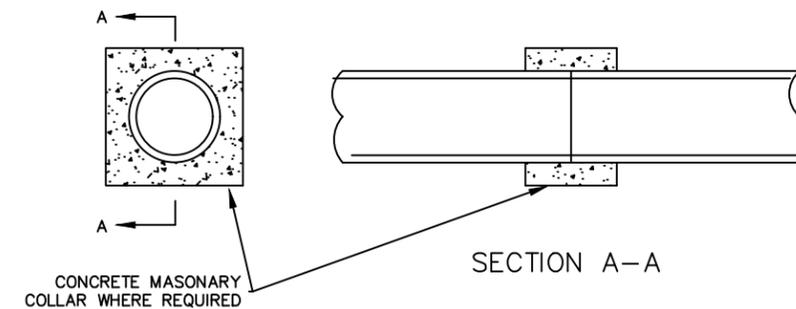
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**CLAY DAM DETAIL**  
N.T.S.



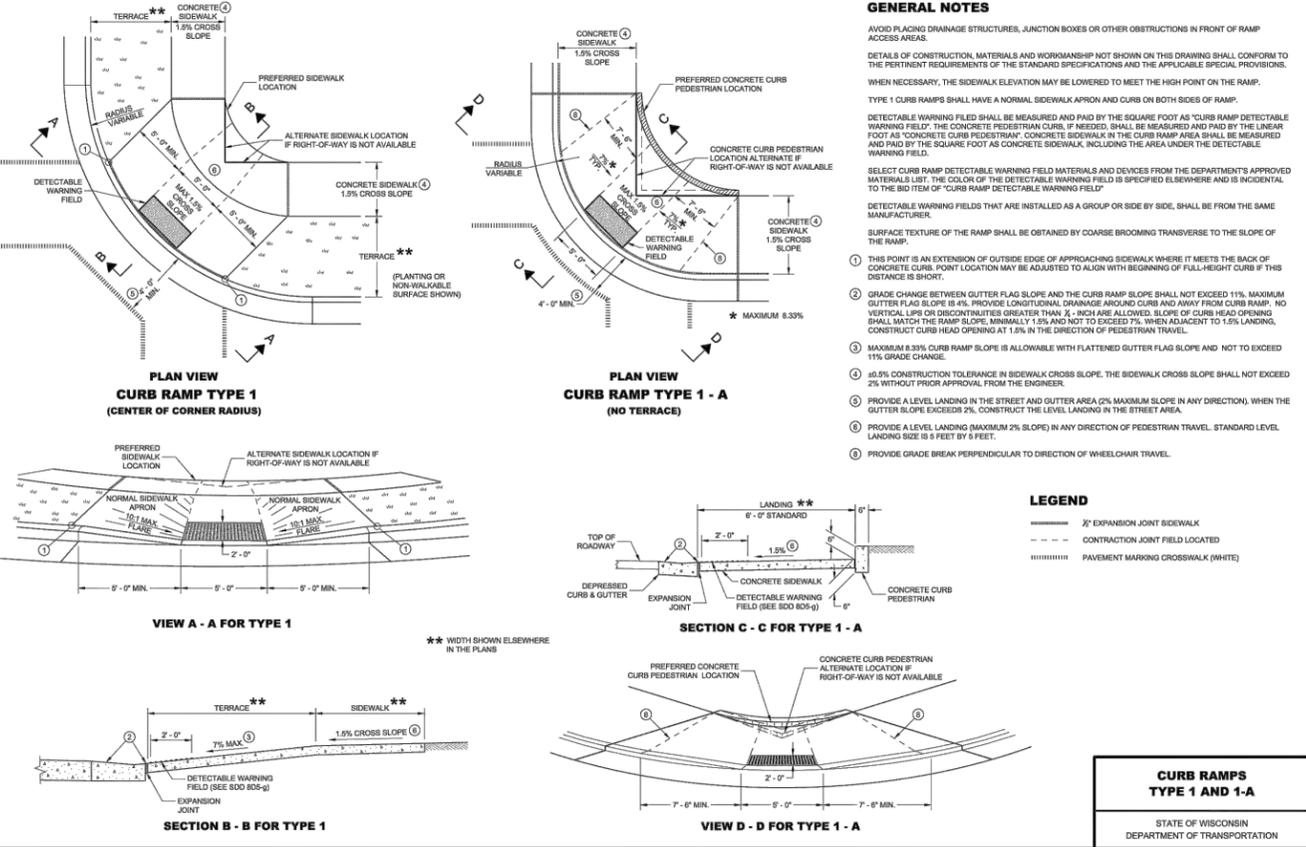
NOTE:  
CLASS C CONCRETE SHALL BE IN ACCORDANCE WITH  
STANDARD SPECIFICATIONS FOR SEWER AND WATER  
CONSTRUCTION ON WISCONSIN.



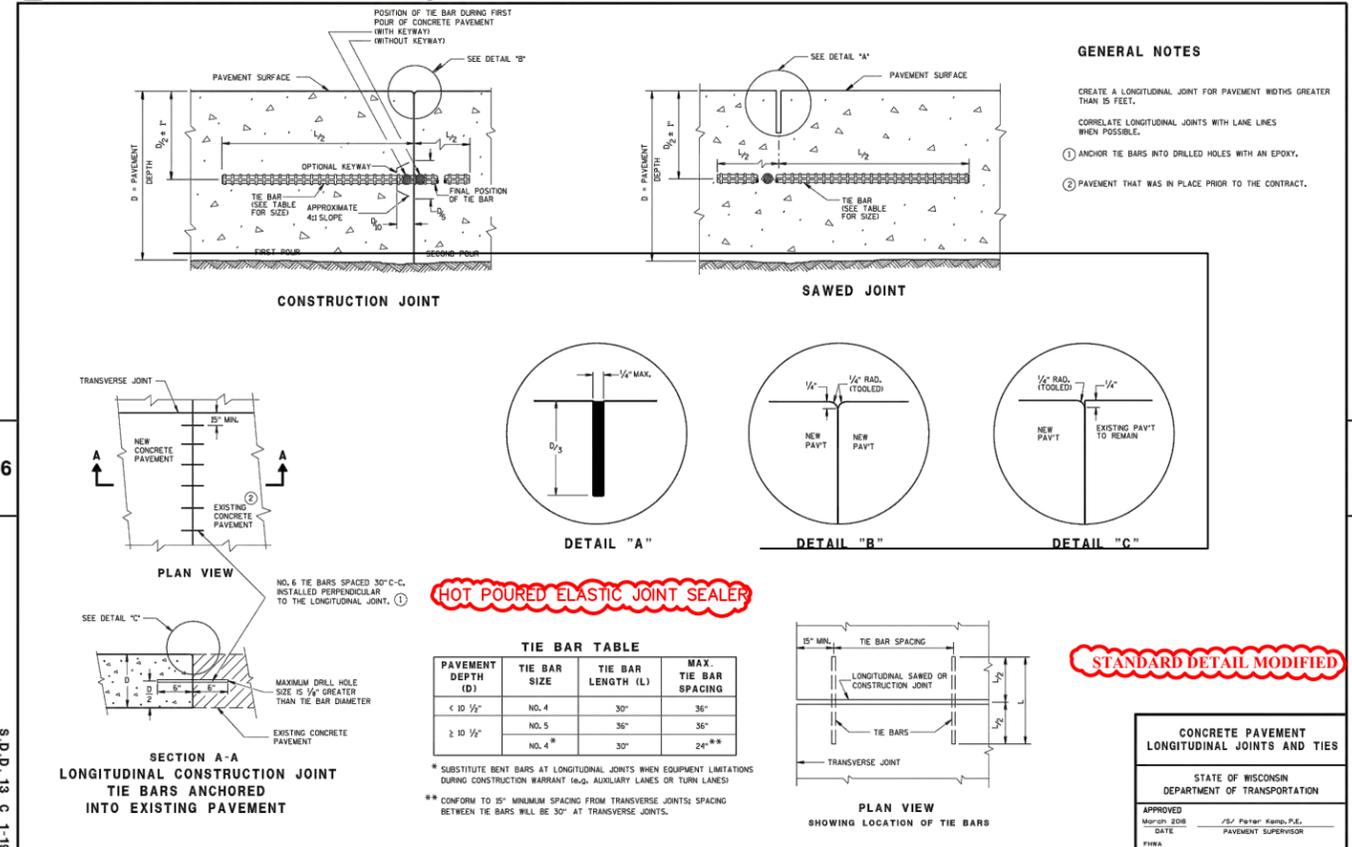
**CONCRETE COLLAR DETAIL**

	BY	DATE	REVISIONS / ISSUES		
			NO.	DATE	REMARKS
SURVEYED					
DRAWN	SRL	4-2016			
DESIGNED					
CHECKED					

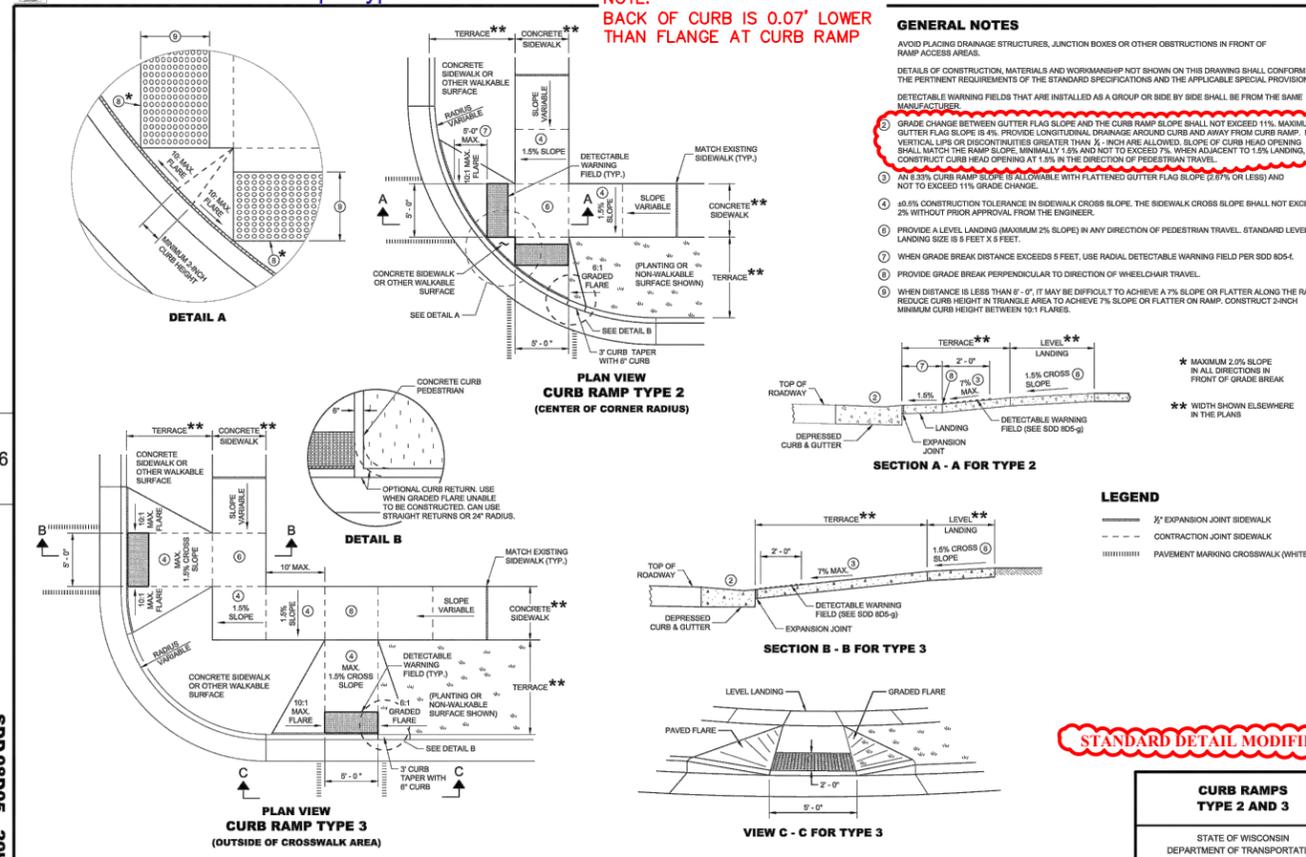
SDD 08D05-a: Curb Ramps Types 1 and 1-A



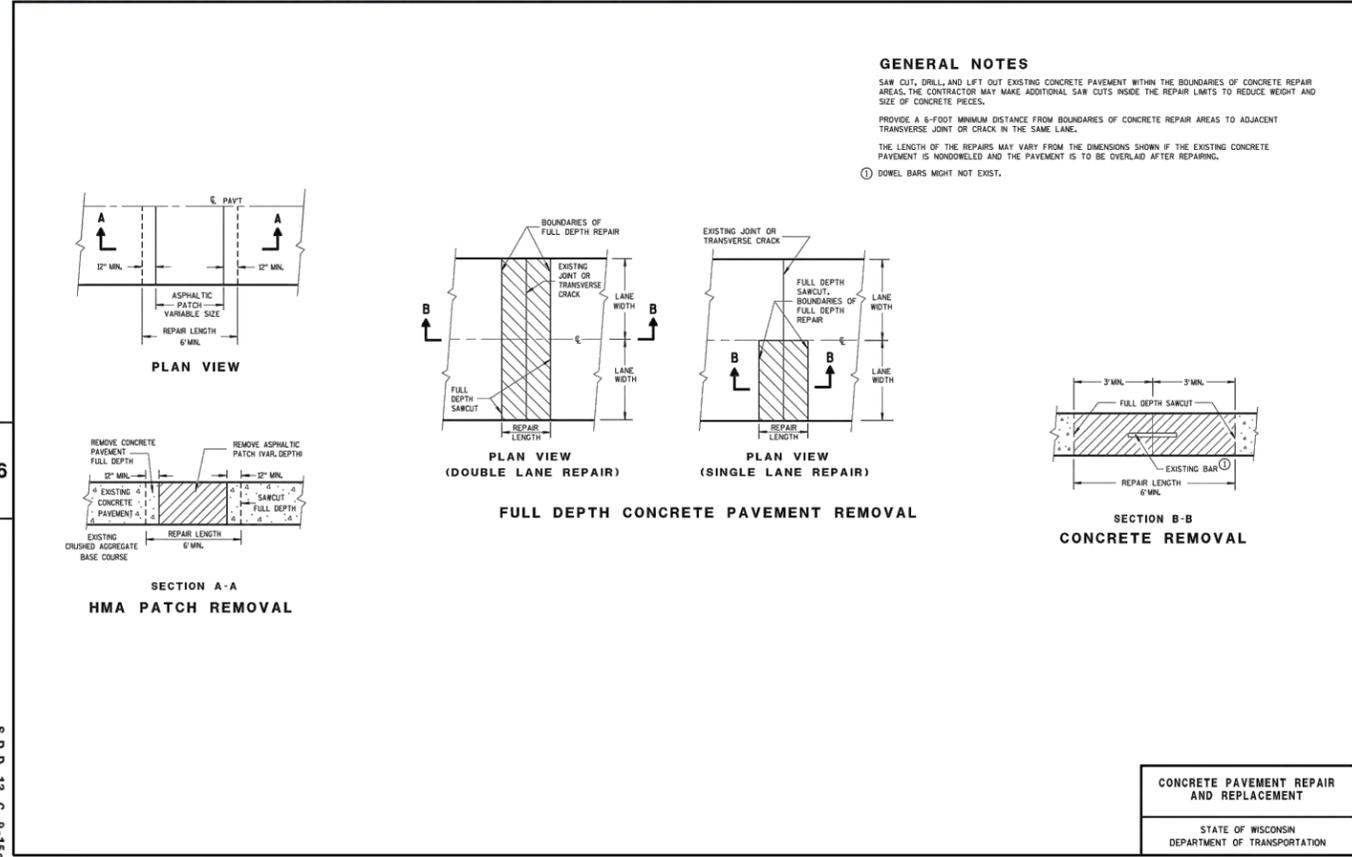
SDD 13c1 Concrete Pavement Longitudinal Joints and Ties



SDD 08D05-b Curb Ramps Types 2 and 3



SDD 13c9-a Concrete Pavement Repair and Replacement



SDD 08D05 - 20a

SDD 08D05 - 20a

S.D.D. 13 C 1-19

S.D.D. 13 C 1-19

SDD 08D05 - 20b

SDD 08D05 - 20b

S.D.D. 13 C 9-15a

S.D.D. 13 C 9-15a

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**SDD 13c9-b Concrete Pavement Repair and Replacement**

**TIE BAR TABLE**

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
10 1/2" - 12"	NO. 5	36"	36"
12" - 15"	NO. 4*	30"	24"*

**GENERAL NOTES**

- INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.
- CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.
- ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY. FOR MULTI-LANE CONCRETE PAVEMENT REPAIRS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.
- APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

**PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE**

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	DOWEL BAR LENGTH	JOINT SPACING
5 1/2", 6", 8 1/2"	NONE	NONE	12"
7", 7 1/2"	1"	1"	14"
8", 8 1/2"	1 1/4"	1 1/4"	15"
9", 9 1/2"	1 1/2"	1 1/2"	15"
10" & ABOVE	1 3/4"	1 3/4"	15"

**CONCRETE PAVEMENT REPAIR AND REPLACEMENT**  
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION  
APPROVED: November 2018  
DATE: /s/ Peter Kemp, P.E.  
PAVEMENT SUPERVISOR

6

6

S.D.D. 13 C 9-15b

**SDD 13C18-d Concrete Pavement Jointing at Utility Fixtures**

**GENERAL NOTES**

- USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
- ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
- IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
- IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS THAN 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
- ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

**CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES**  
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION  
APPROVED: November 2018  
DATE: /s/ Peter Kemp, P.E.  
PAVEMENT SUPERVISOR

6

6

SDD 13C18 - 07a

SDD 13C18 - 07b

**SDD 13c9-c Concrete Pavement Repair and Replacement**

**GENERAL NOTES**

- WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPAIRS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY. DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWERED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
- USE AN ENGINEER-APPROVED BOND BREAKER (E.G., RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.
- ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

**PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE**

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	DOWEL BAR LENGTH	JOINT SPACING
5 1/2", 6", 8 1/2"	NONE	NONE	12"
7", 7 1/2"	1"	1"	14"
8", 8 1/2"	1 1/4"	1 1/4"	15"
9", 9 1/2"	1 1/2"	1 1/2"	15"
10" & ABOVE	1 3/4"	1 3/4"	15"

**CONCRETE PAVEMENT REPAIR AND REPLACEMENT**  
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION  
APPROVED: March 2008  
DATE: /s/ Peter Kemp, P.E.  
PAVEMENT SUPERVISOR

6

6

S.D.D. 13 C 9-15c

**SDD 13c13 Urban Doweled Concrete Pavement**

**GENERAL NOTES**

**CONTRACTION JOINTS**

- CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.
- FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

**CONSTRUCTION JOINTS**

- LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
- OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.
- SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.
- FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.
- PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.
- INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.
- APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.
- ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.

**PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE**

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	DOWEL BAR LENGTH	JOINT SPACING
5 1/2", 6", 8 1/2"	NONE	NONE	12"
7", 7 1/2"	1"	1"	14"
8", 8 1/2"	1 1/4"	1 1/4"	15"
9", 9 1/2"	1 1/2"	1 1/2"	15"
10" & ABOVE	1 3/4"	1 3/4"	15"

**CONTRACTION JOINT LOCATIONS**

**URBAN DOWELED CONCRETE PAVEMENT**  
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION  
APPROVED: March 2008  
DATE: /s/ Peter Kemp, P.E.  
PAVEMENT SUPERVISOR

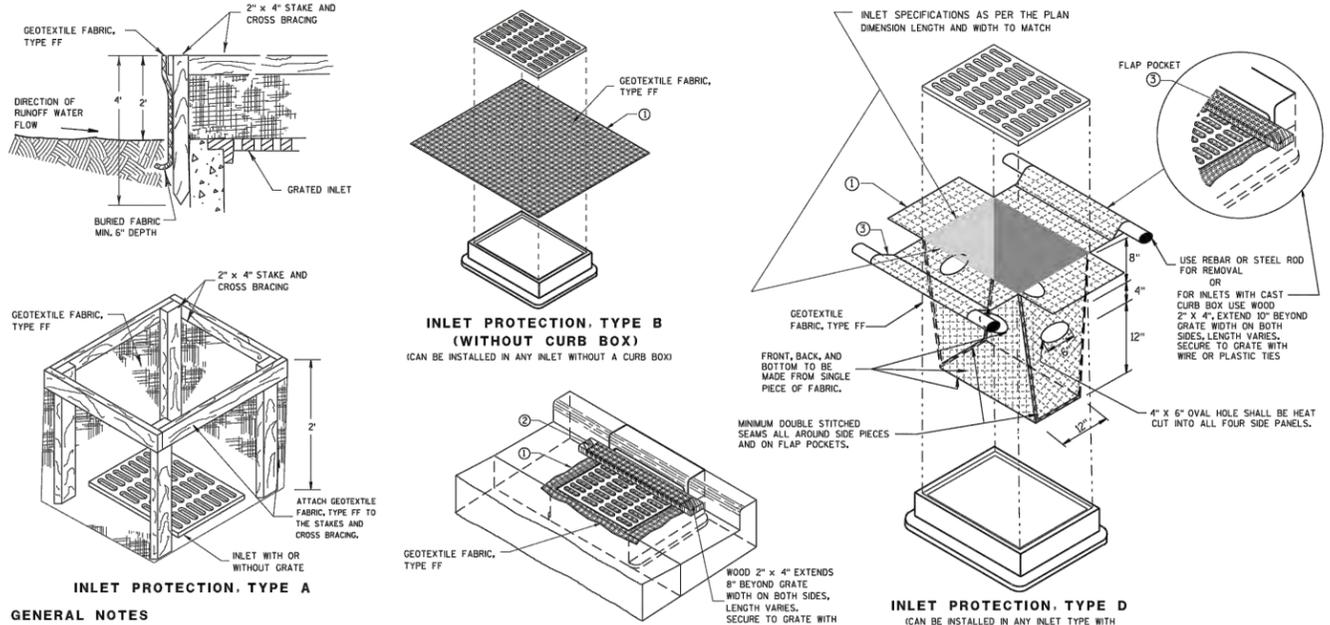
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6

S.D.D. 13 C 13-d

S.D.D. 13 C 13-e

**SDD 8e10 Inlet Protection Type A, B, C and D**



**GENERAL NOTES**

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

1 FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

2 FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

3 FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

**INSTALLATION NOTES**

**TYPE B & C**  
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

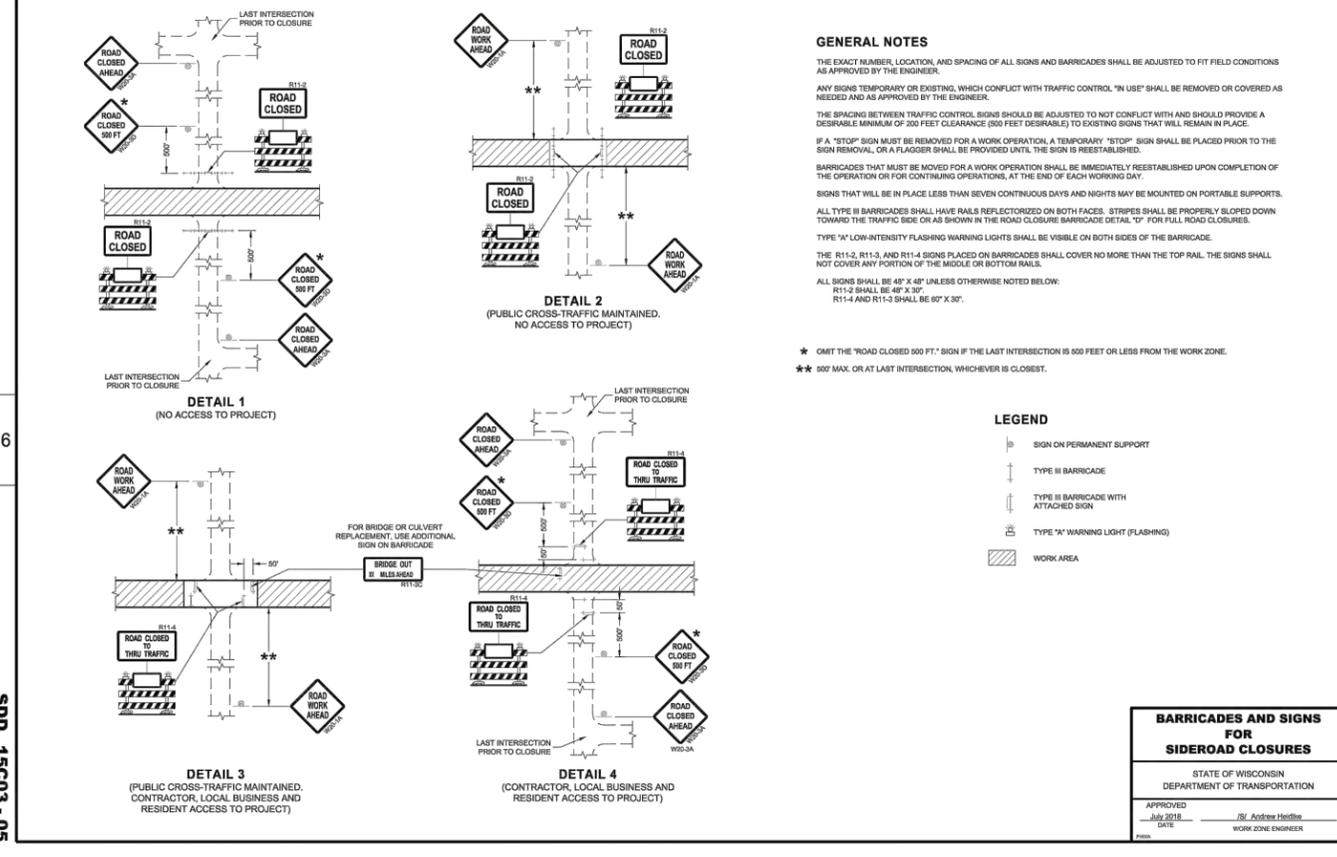
**TYPE D**  
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

**INLET PROTECTION TYPE A, B, C, AND D**

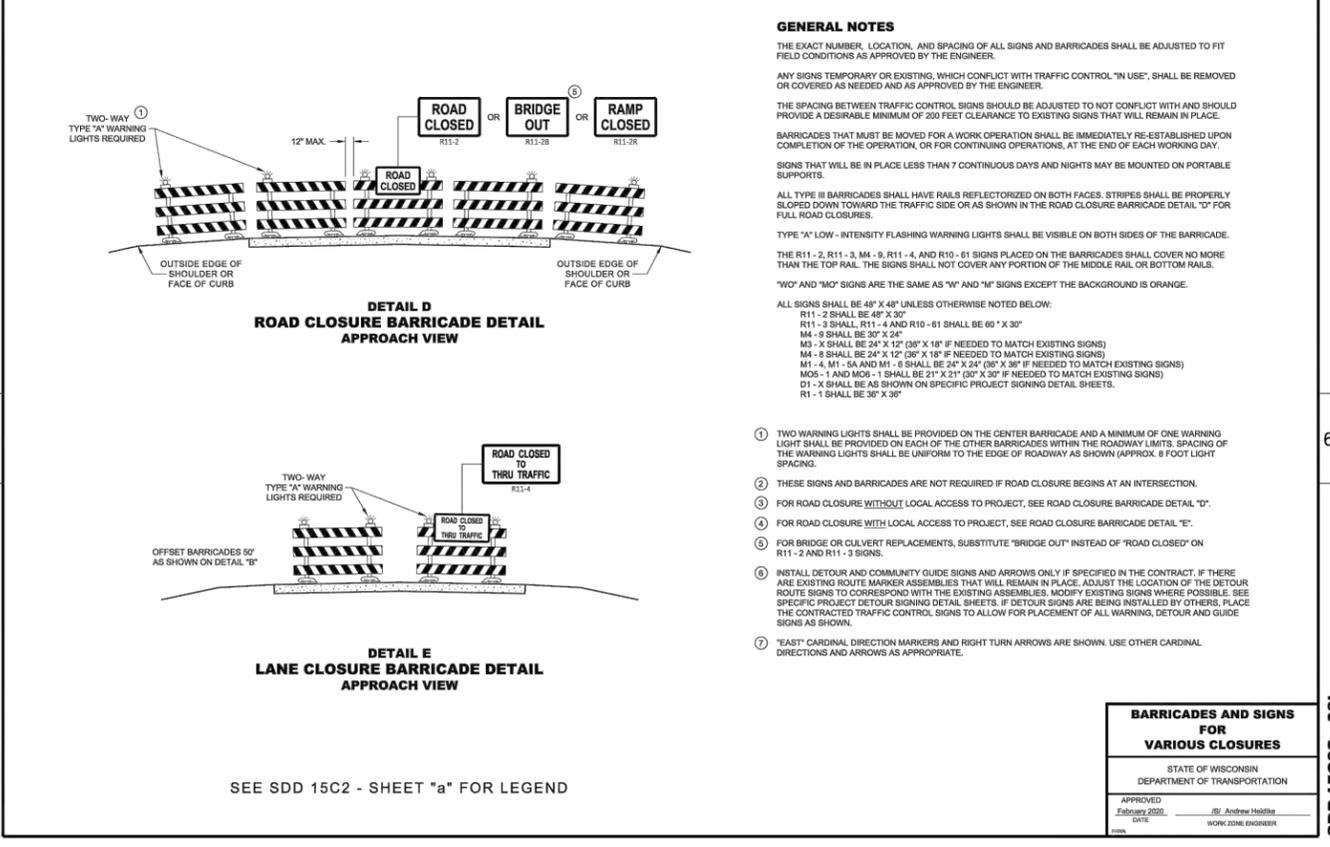
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED: 10-16-02 /S/ Beth Conestoga  
DATE: CHIEF ROADWAY DEVELOPMENT ENGINEER

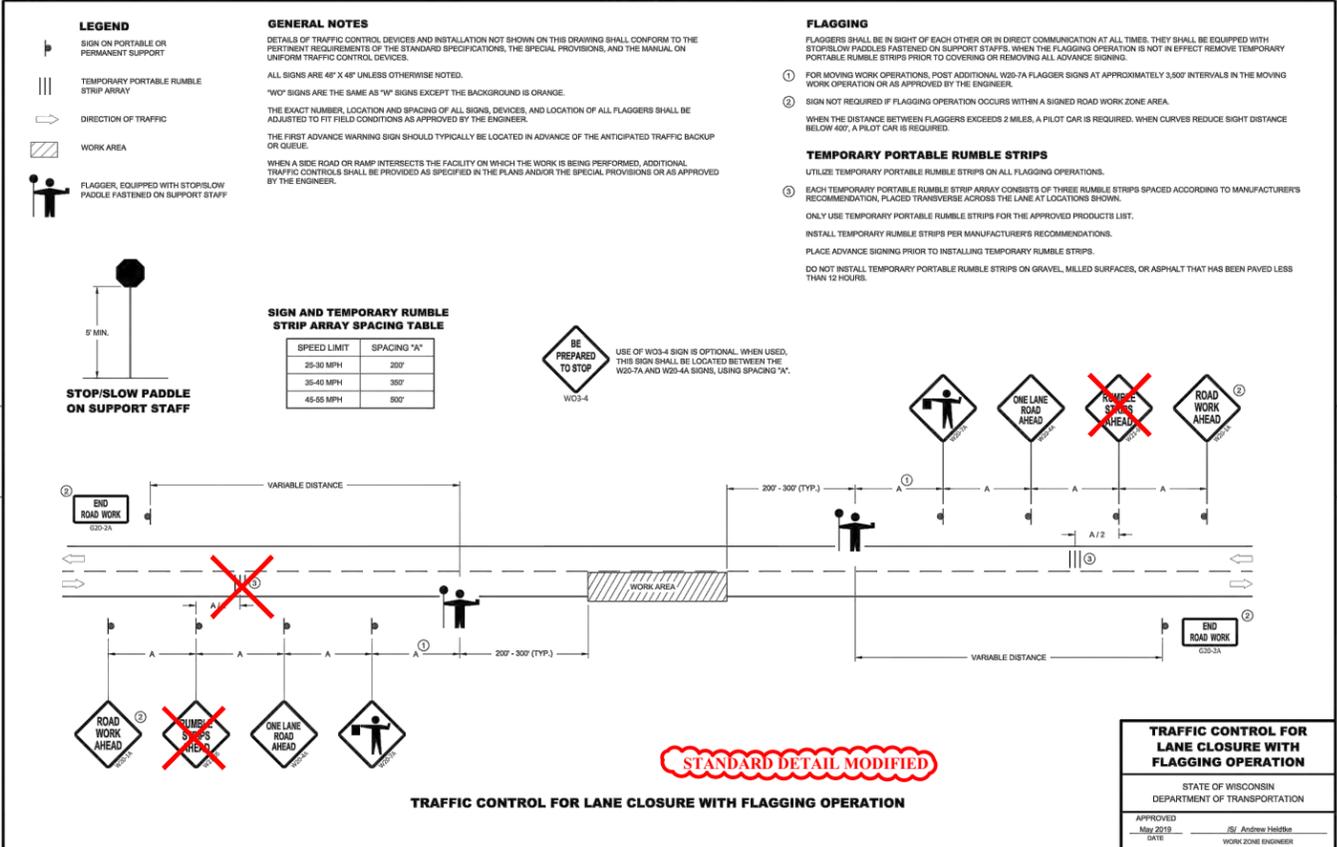
**SDD 15C03 Barricades and Signs for Sideroad Closures**



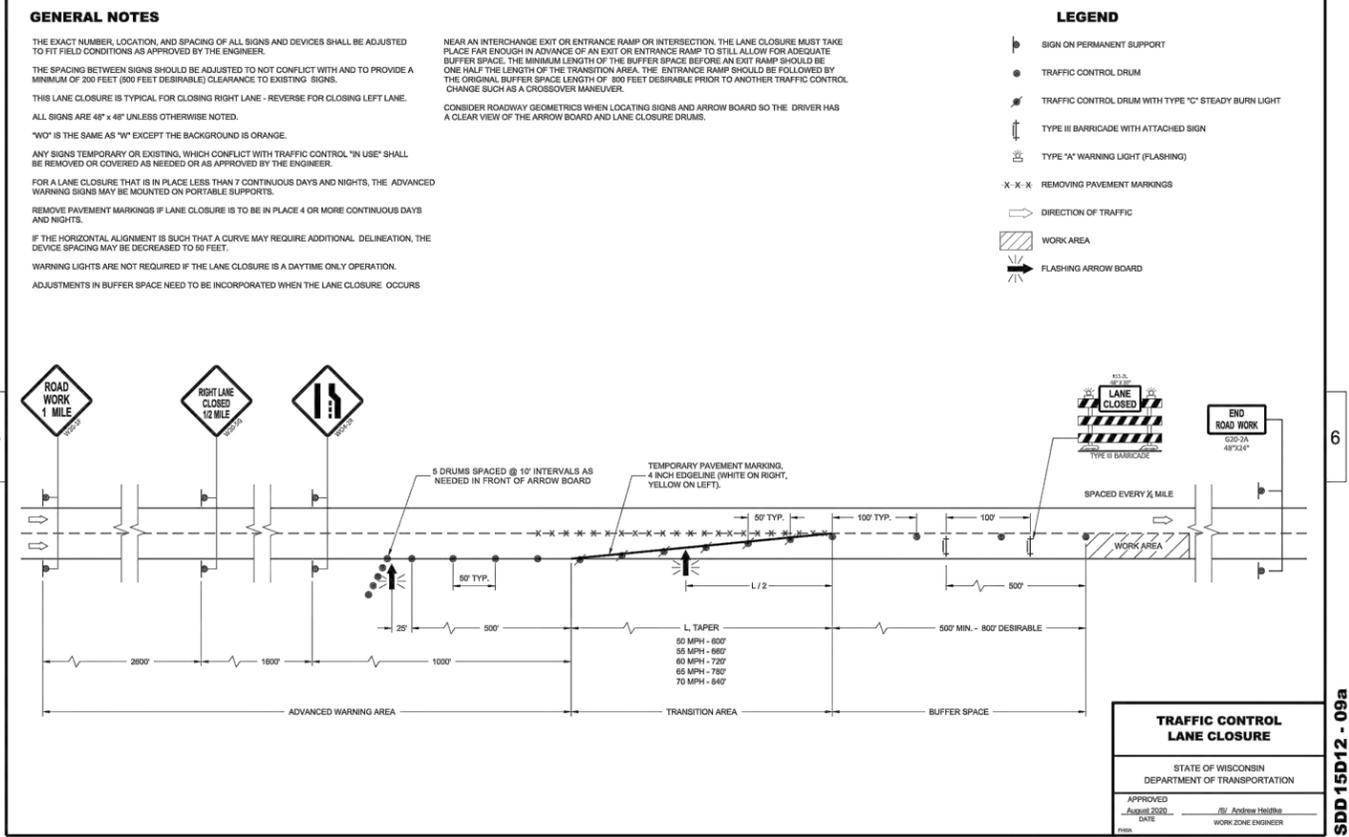
**SDD 15C02-b Barricades and Sign for Various Closures**



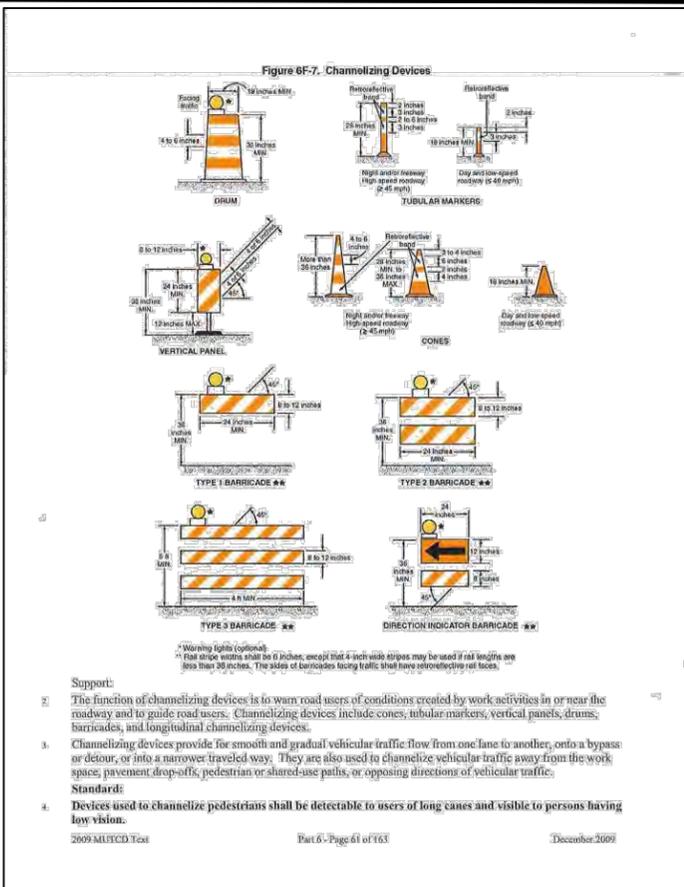
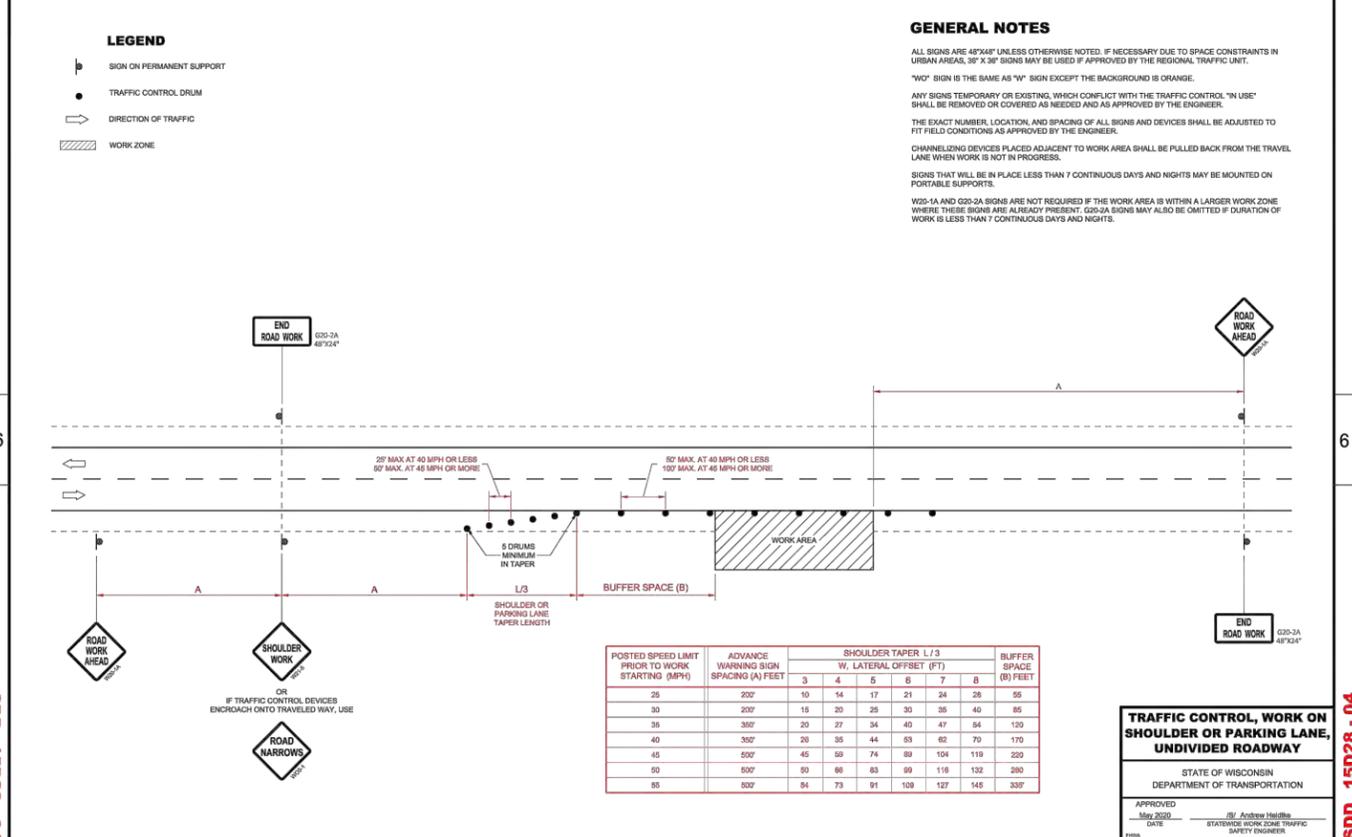
**SDD 15C12 Traffic Control for Lane Closure With Flagging Operation**



**SDD 15D12-a Traffic Control, Lane Closure**



**SDD 15D28 Traffic Control, Work on Shoulder or Parking Lane, Undivided Roadway**



X:\ENG\Projects\City Projects\2022\Project 22-01 Sewer and Water Relay and Street Resurfacing\1200-CAD\DOT Standard Drawing.dwg