

# CITY OF DE PERE

**PROJECT**

**23-03**

**SEWER LINING**

**BID DATE:**

**MARCH 2, 2023**

**@ 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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**FEBRUARY 10, 2023 – FEBRUARY 17, 2023**

**CITY OF DE PERE**

**ADVERTISEMENT TO BID**

**PROJECT 23-03**

**SEWER LINING**

Online bids will be received and accepted for Project 23-03 Sewer Lining via the online electronic bidding service through QuestCDN.com, until 1:00 PM, Thursday, March 2, 2023, at which time they will be publicly accepted, displayed and read aloud.

Project 23-03 for which proposals are being sought includes the following approximate quantities:

- 10,000 LF of 8" to 36" Cured-In-Place Lining and Associated Work

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 #8350101 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.

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

**Project 23-03  
Sewer Lining**

**City of De Pere**

Director of Public Works. Such forms shall be filed with the Director of Public Works no later than 4:00 PM, Monday, February 27, 2023. Prospective bidders who have previously submitted such forms subsequent to January 1, 2023 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 10th day of February 2023.

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

Project 23-03

**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.
4. Photos and videos of existing sewers being lined are available for review. Request for the information should be made to Kelly Demeny at (920) 339-4072 ext. 2234 or at [kdemeny@deperewi.gov](mailto:kdemeny@deperewi.gov).

**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:

<https://meet.goto.com/738459221>

You can also dial in using your phone.  
United States (Toll Free): 1 866 899 4679  
Access Code: 738-459-221

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 23-03**

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, March 2, 2023 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:

<u>Addendum No.</u>	<u>Addendum Date</u>
_____	_____
_____	_____

**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: \$\_\_\_\_\_**

**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 23-03**

**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>
SP-01	Easement (Westwood-Seventh Street) 36" Storm Sewer	LF	565	\$ _____	\$ _____
SP-02	Seventh Street 12" Clay (H8-S4LCTO to H8-THSFFT)	LF	382	\$ _____	\$ _____
SP-03	Main Avenue - 8" Concrete (H8-UD2EQP to H8-XOACZN)	LF	488	\$ _____	\$ _____
SP-04	Main Avenue Annex 8" Concrete (H8-ZTK9Q2 to H8-XOACZN)	LF	519	\$ _____	\$ _____
SP-05	William Street - 12" Clay (J8-1LGMDD to J8-3F1MCX)	LF	238	\$ _____	\$ _____
SP-06	Alley-Superior/Huron/James/William - South - 8" Clay (J8-2PZKHD to J8-2PMJ32)	LF	181	\$ _____	\$ _____
SP-07	Alley-Superior/Huron/James/William - North - 8" Clay (J8-2QGL2L to J8-2RIMD5)	LF	168	\$ _____	\$ _____
SP-08	Alley-Michigan/Superior/James/William – South 8" Clay (J8-0AMKQB to J8-09VJ46)	LF	209	\$ _____	\$ _____
SP-09	Alley-Huron/Erie/Chicago/Lewis - 8" Clay (J8-4YU5M4 to J8-5188UQ)	LF	420	\$ _____	\$ _____
SP-10	Fort Howard Avenue - 10" Clay (I9-3J8821 to I9-4B09FG)	LF	203	\$ _____	\$ _____
SP-11	Moonglow Drive 8" Truss/Concrete (H8-9IBAQL to H8-9CSDQT)	LF	390	\$ _____	\$ _____
SP-12	Georgia Drive - 8" Concrete (I7-RAVQL8 to I7-T6XTRT)	LF	507	\$ _____	\$ _____
SP-13	Webster Avenue - 8" Clay (J8-FL42UY to J8-HCK6GA)	LF	519	\$ _____	\$ _____
SP-14	Lewis Street - 12" Concrete (I8-YYQ9D1 to J8-0639CK)	LF	156	\$ _____	\$ _____

**Project 23-03  
Sewer Lining**

**City of De Pere**

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
SP-15	Driftwood Drive - 8" Concrete (H7-NWEBHV to H7-RJNJJ5)	LF	1,143	\$ _____	\$ _____
SP-16	Suburban Drive - 12" Concrete (H7-ELGJHN to H7-EL8LTY)	LF	304	\$ _____	\$ _____
SP-17	Suburban Drive - 15" Concrete (H7-EL8LTY to H8-EN55D7)	LF	2,531	\$ _____	\$ _____
SP-18	Red Maple Road - 8" Concrete (G5-SRQVZ7 to G5-WBEX9B)	LF	492	\$ _____	\$ _____
SP-19	Red Maple Road 10" Concrete (G5-WBEX9B to G5-XSAYD5)	LF	238	\$ _____	\$ _____
SP-20	Pleasant Place - 8" Clay (I7-BWUDU60 to I7-DY6TZZ)	LF	301	\$ _____	\$ _____
SP-21	Rusk Street - 10" Concrete (J8-U06CSU to J8-WC5BO2)	LF	336	\$ _____	\$ _____
SP-22	Televising Sanitary Laterals	EA	30	\$ _____	\$ _____
<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 23-03 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>
Cured In Place Pipe	_____	_____



SECTION 00 51 00

NOTICE OF AWARD

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

Project Description: 23-03 Sewer Lining

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 February 10, 2023 and February 17, 2023.

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 \_\_\_\_\_ 2023.

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 23-03 Sewer Lining, 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 February 10, 2023 and February 17, 2023.
- (b) Drawings designated for Project 23-03 Sewer Lining dated February 10, 2023.
- (c) City of De Pere 2022 Construction Specifications.
- (d) Special Provisions dated February 10, 2023.
- (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)

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

BY: \_\_\_\_\_

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

BY: \_\_\_\_\_

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

CITY OF DE PERE (SEAL)

Approved as to Form By: \_\_\_\_\_ (City Attorney)

Sufficient funds are available to provide for the payment of this obligation.

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

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

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

SECTION 00 55 00

NOTICE TO PROCEED

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

(CONTRACTOR NAME)  
(ADDRESS)  
(ADDRESS)

Project Description: 23-03 Sewer Lining

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 23-03, 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.
  - c. Other than in a state court of competent jurisdiction in and for the County or other political subdivision of the state in which the project, or any part thereof, is situated, or in the United States District Court for the district in which the project, or any part thereof, is situated, and not elsewhere.
4. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens, which may be filed or recorded against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.

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

In Presence of:

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

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 23-03, 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:

---



---

\_\_\_\_\_  
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, 2022 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. 36" Storm Sewer Easement – South of Westwood Drive to Seventh Street
- b. Seventh Street – Reid Street to Main Avenue
- c. Main Avenue- 665 Main to Main Avenue Annex
- d. Main Avenue Annex – 180' S/O Reid Street to Main Avenue
- e. William Street – Superior Street to Huron Street
- f. Alley – James Street to William Street, between Superior Street and Huron Street
- g. Alley – James Street to William Street, between Michigan Street and Superior Street
- h. Alley – Chicago Street to Lewis Street, between Huron Street and Erie Street
- i. Fort Howard Avenue – 202' South of Fairview to Fairview Avenue
- j. Moonglow Drive – S. Ninth Street to Lois Street
- k. Georgia Drive – Cook Street to Temini
- l. Webster Avenue – Chicago Street to 520' North of Chicago Street
- m. Lewis Street – S. Michigan Street to S. Superior Street
- n. Driftwood Drive – Azalea Trail to Westwood Drive
- o. Suburban Drive – Westwood Drive to Grant Street
- p. Red Maple Road – 235' E/O Red Tail Glen to Autohoe Road
- q. Pleasant Place – Third Street to Termini
- r. Rusk Street – 350' E/O Zita Street to 700' E/O Zita Street

##### 2. Work will be performed under the following prime contract:

- a. 23-03 Sewer Lining

#### B. The Work includes:

1. Sewer cleaning and material disposal
2. Sewer televising
3. Televising sanitary laterals
4. Bypassing (where applicable)
5. Pipe lining preparation including protruding tap, mineral build-up and root removal.
6. Pipe lining – CIPP
7. Final sewer televising and cleaning

8. Traffic Control

1.4 WORK SEQUENCE/SCHEDULE

- A. Project shall be completed by September 31, 2023.
- B. Conduct construction activities to maintain access to businesses and residences throughout construction.
- C. Complete the following streets by June 1, 2023.
  - 1. Seventh Street
  - 2. Main Avenue Annex
  - 3. Lewis Street
  - 4. Alley – Chicago Street to Lewis Street, between Huron Street and Erie Street
- D. Sewers with spot repairs will be dug down and repaired in advance of lining operations by June 15<sup>th</sup>, excluding the Main Avenue Annex and the alley which will be completed earlier to meet the June 1<sup>st</sup> deadline for lining.
- E. Arterial and collector streets have time restrictions as follows:
  - 1. Main Avenue - No traffic impacts between 8:30 am and 3 pm. The City will start setting up traffic control at 8:30 am and begin take down at 3 pm. See discussion below regarding the City providing traffic control on Main Avenue.
  - 2. Suburban Street, Grant Street, Chicago Street and Webster Street – If work occurs when school is out of session, there are not time restrictions. If work occurs when school is in session, work shall be completed between 8:30 am and 2:30 pm.

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. The City of De Pere will provide traffic control on Main Avenue for work at Seventh Street and when lining the sanitary sewer east of Seventh Street on Main Avenue.
  - 1. The inside lanes of Main Avenue will be closed at Seventh Street during lining if required.
  - 2. The eastbound lane will be diverted into the center westbound lane for work on the sewer lining east of Seventh Street. The traffic control will be per Layout 39 from the plan set.
- C. Owner has awarded a separate contract for performance of certain construction operations which will be conducted at the Project Site simultaneously with work under this Contract. This Contract includes the following:
  - 1. Project 22-02 – Lewis Street Utility Relay and Reconstruction
    - a. Project consists of water main relay, storm sewer relay, and street reconstruction.
  - 2. Project 23-01 – Utility Relay and Street Resurfacing
    - a. Seventh Street, Reid Street, and Main Avenue Annex – Project consists of water main relay, sanitary lateral relay, storm sewer installation, concrete curb repair and replacement, and resurfacing.
  - 3. Project 23-02 – Ridgeway and East River Drive Pavement Rehabilitation
    - a. Alley – Chicago Street to Lewis Street, between Huron Street and Erie Street – Project consists of alley reconstruction.

4. Project 23-07 – Curb Repair and Street Resurfacing –
  - a. Moonglow Drive - Project consists of spot curb repair and street resurfacing.

D. 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)) (920-401-7512)
- 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. Determine the access locations required for storm sewer lining. Restore access locations after lining.
- C. The intent of televising the sanitary sewer laterals is to find out if the laterals are active or not. Contractor is not to open the liner to the laterals that are abandoned and/or capped. Any questions on any laterals, contact the Engineer.

- D. If repair by excavation is required based on pre-televising, the City will repair under a separate contract. Several segments require repair prior to lining including:
  - 1. Main Avenue Annex – 8” sanitary sewer offset joint repair.
  - 2. Main Avenue – Raise manhole at 627/633 Main Avenue.
  - 3. Alley – Huron/Erie/Lewis/Chicago – 8” sanitary sewer repair near manhole.
  - 4. Moonglow – 8” sanitary sewer offset joint repair.
  - 5. Driftwood Drive – 8” sanitary repair at sag.
  
- E. The Green Bay Metropolitan Sewerage District (GBMSD) owns a 36” sanitary sewer on Suburban Drive, just south of the sewer lining on this project. The sewer is flowing north to a manhole in this project and then flows west out of the manhole. Access for this manhole shall be coordinated with GBMSD.
  
- F. Grant Street and Webster Avenue are Brown County highways. The City will obtain a permit for this work. Adhere to permit requirements.
  
- G. Traffic control requirements being provided by the contractor are as follows:
  - 1. Suburban Drive - Maintain a 10-foot travel lane in each direction during construction. If a traffic width of 10 feet in each direction cannot be maintained, provide flaggers per traffic control Layout 24 in the plan set.
  - 2. Grant Street at Suburban Drive – Complete traffic control per the detail in plan set.
  - 3. Red Maple – Provide traffic control and one flagger per traffic control Layouts 13 and 14 in the plan set.
  - 4. Third Street – Complete work with flaggers or maintain one lane of travel in each direction. If one lane of traffic is to be maintained in each direction, provide delineators and advanced warning for shifting traffic. The City will restrict parking on the east side of Third Street to assist with traffic movement if requested.
  - 5. Ninth Street - Complete work with flaggers or maintain one lane of travel in each direction. If one lane of traffic is to be maintained in each direction, provide delineators and advanced warning for shifting traffic. The City will restrict parking on the south side of Ninth Street to assist with traffic movement if requested.
  - 6. Webster Street - Maintain two lanes of traffic, one in each direction. Provide delineators and advanced warning.
  - 7. Chicago Street at Webster Street – This intersection is an all way stop. Provide traffic control per Typical Application 26 in the plan set.
  - 8. Chicago Street at the alley – Provide traffic control per Layouts 13 and 14 in the plan set.
  - 9. Local Streets – Provide traffic control per Layout 1 in the plan set.

**PART 2 – PRODUCTS**

**PART 3 – EXECUTION**

**END OF SECTION**

SECTION 01 22 06

MEASUREMENT AND PAYMENT PIPE LINING - CIPP

PART 1 – GENERAL

1.1 SUMMARY

- |  |                  |
|--|------------------|
| A. Section includes:   | <u>Bid Items</u> |
| 1. Pipe Lining – CIPP  | SP-1 Thru SP-21  |
| 2. Televising Sanitary Laterals  | SP-22            |
| 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. Mobilization.
  3. All labor, material and equipment.
  4. Dust control.

1.3 PIPE LINING - CIPP

- A. The unit price for Sewer Cleaning work includes:
1. General Work Items of Article 1.2.
  2. Cleaning sewer pipe pre-lining and post lining.
  3. Removal of roots, mineral deposits, protruding laterals, and other debris in the sewer pipe.
  4. Televising of the sewer pipe pre-lining and post lining.
  5. Bypassing existing flow.
  6. Installation of liner.
  7. Reconnection of all active services.
  8. Restoration of surfaces.

9. Cleaning the manhole of lining material.
10. Dispose of material from the sewer pipe.

B. Measurement of payment will be from center of manhole to center of manhole.

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

**1.4 TELEVISIONING SANITARY SEWER LATERALS**

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

1. General Work Items of Article 1.2.
2. Televising of sewer laterals indicated by the Engineer to determine if it is active or not prior of lining the sewer line.

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

C. The unit of measurement for payment is each.

END OF SECTION

**SECTION 01 29 00**

**PAYMENT PROCEDURES**

PART 1 – GENERAL

1.1 SUMMARY

A. This section includes:

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

1.2 SCHEDULE OF VALUES

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

1.3 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment shall be consistent with previous applications and payments as recommended by the Engineer and approved by Owner.
- B. The date for each progress payment should be the 3<sup>rd</sup> Wednesday of each month. The period covered by each Application for Payment starts on the day following the end of the preceding period and ends the 4<sup>th</sup> Friday of the Month.
- C. Use forms provided by Engineer for Applications for Payment. Sample copy of the Application for Payment and Continuation Sheet is included in Section 00 62 76.
- D. Application Preparation Procedures
1. When requested by the Contractor, the Engineer will determine the actual quantities and classifications of Unit Price Work performed.
    - a. Preliminary determinations will be reviewed with the Contractor before completing Application for Payment.
    - b. Engineer will complete the Application for Payment based on Engineer's decision on actual quantities and classifications.
    - c. Engineer will submit three original copies of Application for Payment to Contractor for certification of all three original copies.
    - d. Contractor shall submit signed Application for Payment to Owner for approval within time frame agreed to at the Preconstruction Conference.
  2. If payment is requested for materials and equipment not incorporated in the Work, then the following shall be submitted with the Application for Payment:
    - a. Evidence that materials and equipment are suitably stored at the site or at another location agreed to in writing.

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

#### 1.5 SHOP DRAWINGS

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

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

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

## 1.6 ENGINEER'S ACTION

- A. Except for submittals for the record or information, where action and return is required, the Engineer will review each submittal, mark to indicate action taken, and return promptly. The Engineer will stamp each submittal with a uniform action stamp. The Engineer will mark the stamp appropriately to indicate the action taken, as follows:
  - 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:

1. Brown County Highway Department as noted in Section 01 10 00

PART 2 – PRODUCTS (Not used)

PART 3 – EXECUTION (Not used)

END OF SECTION

**SECTION 33 01 30**

**CURED IN PLACE PIPE (CIPP)**

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes

1. Section includes lining processes for the rehabilitation of existing sanitary sewer mains using cured-in-place pipe.

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM D543 Test Method for Resistance of Plastics to Chemical Reagents
2. ASTM D638 Test Method for Tensile Properties of Plastics
3. ASTM 790 Test Method for Tensile Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials
4. ASTM 903 Standard Test for Delamination of Plastic Composites
5. ASTM F1216 Rehabilitation of Existing Pipelines and Conduits by Inversion and Curing of a Resin-Impregnated Tube
6. ASTM D2990 Standard Test Methods for Flexural Properties of Unreinforced Plastics and Electrical Insulating Materials
7. ASTM 3034 Type PSM Poly (Vinyl/chloride)(PVC) Sewer Pipe and Fittings
8. ASTM D1248 Specification for Polyethylene Plastics molding and Extrusion Materials.
9. ASTM F1504 Standard Specification for Folded Poly (Vinyl/Chloride) (PVC) Pipe for Existing Sewer and Condit Rehabilitation
10. ASTM F1533 Standard Specification for Deformed Polyethylene (PE) Liner
11. ASTM D1784 Standard Specification for Rigid Poly (Vinyl/Chloride) and Chlorinated Poly (Vinyl/Chloride) Components
12. ASTM D2122 Method for Determining Dimensions of Thermoplastic Pipe and Fittings
13. ASTM D3350 Specifications for Polyethylene Plastics Pipe and Fittings Material

1.3 SUBMITTALS

A. Product Data.

1. Manufacturer's product literature and application and installation requirement for materials used in liner.
2. Manufacturer's product certification for materials used in liner.
3. Liner Pipe Thickness Design (Cured-in-Place).

4. Liner Pipe Thickness Design shall be in accordance with Appendix XI of ASTM F1216. In the liner thickness calculations shall be based on the following.
  - a. Fully deteriorated Pipe (No structure support from existing pipe).
  - b. Minimum ovality of Host Pipe shall be 2%.
  - c. Height of Groundwater shall be 50% of Pipe Depth.
  - d. The Enhancement Factor (K) shall not be greater than 7.0.
  - e. The Minimum Safety Factor shall be 2.0.
  - f. The Flexural Modulus of Elasticity shall be reduced 50% to account for long term effects and used in the design equation EL.
5. No liner shall be installed until it has been approved for installation.
6. No liner will be approved for installation until liner thickness calculations have been submitted and reviewed for conformance with the specifications and installation requirements.

**B. Miscellaneous Submittals**

1. Copies of video DVD (MPEG 2 format) of pre-lining and post-lining.
2. Test results required under Part 3.
3. Proposed plan for bypassing sewage during liner installation.
4. Documentation of when liner is impregnated and the potential life of impregnated liner.
5. Provide photographs of existing ground conditions prior to performing sanitary sewer lining.

**1.4 QUALITY ASSURANCE**

**A. Corrosion**

1. Fabricate finished liner from materials which, when cured, will be chemically resistant to withstand internal exposure to domestic sewage.

**B. Manhole Connections**

1. All manhole connections shall be watertight and approved by the Engineer.

**C. Testing**

1. Test finished pipe liner in accordance with this section.

**PART 2 – PRODUCTS**

**2.1 CURED – IN – PLACE PIPE LINER (CIPP LINER)**

**A. Resin**

1. Liner Bag: Polyester resin for general chemical applications.
  - a. Resin shall not contain fillers, except those required for viscosity control or fire retardance. Up to 5% by mass thixotropic agent which will not interfere with visual inspection may be added for viscosity control.
  - b. Resins may contain pigments, dyes or colorants which will not interfere with visual inspection of cured liner.

- 2. Epoxy resin may be required by contractor, if conditions are deemed to warrant their use.
  - a. Use of up to 40% by mass of suitable fillers may be permitted.

**B. Reinforcing Material**

- 1. Non-woven needle interlocked polyester felt formed into sheets of required thickness.
- 2. Felt tubes may be made of single or multiple layer construction with any layer not less than 1.5 mm thick.
- 3. Mechanical strengthener membrane or strips may be sandwiched in between layers where required to control longitudinal stretching.
- 4. Polyurethane membrane used during inversion of tube may be left on internal surface of liner after curing.
- 5. Minimum thickness of bonded polyurethane membrane and inner liner, if used shall be 0.30 mm, +5% and shall not affect structural dimension requirements of cured liner.
- 6. Minimum liner thickness shall be 6 millimeters, with an allowable spot variation of 10%.

**C. Felt Content**

- 1. Content shall ensure cured thickness of liner as specified.
- 2. Thickness of cured liner to be as specified (+10%-4%) and shall not include thickness of polyurethane inner liner.

**D. Resin Content**

- 1. 10% to 15% by volume greater than volume of felt in liner bag.

**E. Cured liner shall conform to minimal structure standards listed:**

Tensile Strength (for pressure pipes only)	ASTM D638	3,000 psi
Flexural Modulus of Elasticity	ASTM D790	250,000 psi
Flexural	ASTM D790	4,500 psi

- F. Fabricate liner to size when installed, will fit internal circumference of pipe, allowance shall be made for circumferential stretching during insertion.

**G. Meet requirements of ASTM F1216.**

**PART 3 – INSTALLATION**

**3.1 EXAMINATION**

- A. Examine videos for condition of pipe interior before starting work.

**3.2 PREPARATION**

- A. Prior to liner installation, sufficiently clean roots, encrustations of cast iron pipe, mineral deposits, and other debris from sewer line to provide for proper installation of product. Sewer liner to be televised after cleaning.

- B. Remove or repair offset joints, protruding services or collapsed pipe that will prevent insertion of liner.
  - 1. Excavation to make repairs or due to bends in the pipe that are required due to a pre-existing condition will be completed by the City under a separate contract. The City shall be notified of repairs in a timely fashion to facilitate the repair prior to lining.
- C. If Contractor or Engineer determines that existing pipe is 15% or more out of roundness, Contractor shall redesign liner.
  - 1. Notify Engineer of condition of pipe.
- D. Any visible leaks prior to sewer lining that will prevent proper installation of the liner shall be grouted prior to lining.
- E. Field verify all active sanitary sewer laterals prior to lining.
- F. Sewage Bypassing
  - 1. Provide for flow of sewage around section of pipe to be lined.
    - a. Pump or bypass lines shall be adequate size and capacity to handle flow.
    - b. Coordinate bypassing operations with Engineer.

### 3.3 INSTALLATION

- A. CIPP Liner
  - 1. Preparation of liner:
    - a. Designate location where uncured resin in original containers and unimpregnated liner will be vacuum impregnated prior to installation. Contractor shall allow Engineer to inspect materials and “wet out” procedure.
    - b. Resin and catalyst system compatible with requirement of this method shall be used. Quantities of liquid thermosetting materials shall be to manufacturer’s standards to provide lining thickness required.
    - c. Liner tube shall be impregnated with resin not more than seven days before proposed time for installation and stored out of direct sunlight at temperature less than 40°F(4°C).
    - d. Transport resin impregnated liner to site immediately prior to inversion in suitable light-proof container with temperature maintained below 40°F (4°C).
  - 2. Insertion of liner:
    - a. Insert liner through an existing manhole or other access by means of an inversion process and application of hydrostatic head or air insertion sufficient to fully extend liner to next designated manhole or termination point or by means of winching the liner through the last pipe to the next designated manhole or termination point. Lubricant may be used.
  - 3. Curing liner:
    - a. After inversion is complete, provide heat source and water or steam recirculation equipment. Equipment shall be capable of delivering hot water or steam throughout

section to uniformly raise water temperature above temperature required to effect cure of resin.

- b. Provide heat source with suitable monitors to gauge temperature of incoming and outgoing water or steam supply. Place second gauge between impregnated liner and pipe invert at remote manhole to determine temperatures during cure. Water or steam temperature in line during cure period shall be as recommended by resin manufacturer.
  - c. Initial cure shall be complete when inspection of exposed portions of liner are hard and sound and remote temperature sensor indicates that temperature is of magnitude to realize an exotherm. Cure period shall be of duration recommended by resin manufacturer.
  - d. Cool hardened liner to temperature below 100°F before relieving static head in inversion standpipe or before relieving steam pressure. Cool down by introduction of cool water or air into CIPP to replace water or steam being drained from downstream end. Care shall be taken in release of static head or steam so that a vacuum will not be developed that could damage newly installed liner.
4. Lateral reinstatement:
- a. Reinstatement all active sanitary laterals after pipe has been cured by using a remote cutting device with a camera.
  - b. After reinstatement all lateral connections shall be brushed/cleaned to remove jagged edges and to smooth the cut edge.

### 3.4 FIELD QUALITY CONTROL

#### A. CIPP Liners

1. Finished Liner:
  - a. Liner shall be continuous over entire length of insertion run and be as free as commercially practicable from visual defects such as foreign inclusions, dry spots, pinholes, lifts, and delamination.
  - b. During curing process, gauge water tightness under positive head.
  - c. Liner shall conform to shape of existing pipe before installation and not be out of round by more than 15%.
2. Liner Thickness:
  - a. Cured liner shall be accurately measured and shall not be more than 5% thickness specified.
3. Felt and Resin Content of Liner:
  - a. Visually inspect liner to ensure number of layers of felt conform to specified number of layers and thickness.
  - b. Calculate resin to felt ration by weight.
  - c. Ratio shall fall in range 1.0.1 to 1.15.1
4. Testing:
  - a. Tensile Strength for Force Main Lined Pipe
    - i. Test in accordance with ASTM D638
    - ii. Specimens tested shall be actual thickness of fabricated liner.
    - iii. Do not machine specimen on surface.

- iv. Tensile strength shall be average of 5 specimens tested.
- b. Flexural Strength and Modulus of Elasticity.
  - i. Test in accordance with ASTM D790.
  - ii. Specimens tested shall be actual thickness of fabricated liner.
  - iii. Do not machine specimen on surface.
  - iv. Make test with smooth (inner) face in compression using 5 specimens.
- 5. Examination:
  - a. Televis interior of pipe after completion of work but before introducing wastewater flow and provide DVD (MPEG 2) to Engineer.
  - b. Naming convention of the televising inspection report shall follow what is on the Drawings or in the Exhibits.
  - c. Use pan and tilt color 3 lux camera to view the sewer service lateral connection reinstatement.

### 3.5 CLEANING AND RESTORATION

- A. At completion of work, remove rubbish, debris, dirt, equipment and excess material from site. Clean adjacent surfaces soiled by and during course of work.
- B. Restore areas disturbed to original condition.
- C. Repair any surface damage that may occur during the heating of the liner caused by frost heave.

### 3.6 ACCEPTANCE

- A. Grounds for rejection or repair of CIPP shall be:
  - 1. Excessive bending or flattening of CIPP not related to the existing pipe condition.
  - 2. Visible infiltration.
  - 3. Visible damage from the lining procedure.
  - 4. Bulges/intrusions in the invert of the liner that impede flow and not related to the shape of the existing pipe.
  - 5. Bulges/intrusions above the invert that extend into the pipe by greater than 10% of the pipe diameter and not related to the shape of the existing pipe.

END OF SECTION

APPENDIX A

TELEVISIONING REPORTS

DESCRIPTION	PAGE(S)
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Catch Basin H7-Q27J00 to Storm Manhole H7-Q4CKHH (36" CMP).....	3
Storm Manhole H7-Q4CKHH to Storm Manhole H7-QYBKPX (36" CMP).....	4
Storm Manhole H7-QYBKPX to Catch Basin H7-R6IKSK (36" CMP).....	5
Catch Basin H7-R6IKSK to Storm Manhole H7-SAJM3E (36" CMP).....	6 & 7
<b>S. Seventh St. from Reid St. to Main Ave. (Plan Sheet C102)</b>	
Sanitary Manhole H8-S4LCTO to Sanitary Manhole H8-THSFFT (8" Clay).....	8
<b>Main Ave. from S. Seventh St. to Main Avenue Annex (Plan Sheet C103)</b>	
Sanitary Manhole H8-UD2EQP to Buried Sanitary Manhole H8-XA1DFJ (8" Concrete).....	9 & 10
Buried Sanitary Manhole H8-XA1DFJ to Sanitary Manhole H8-XOACZN (8" Concrete).....	11
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Sanitary Manhole H8-YSHALX to Sanitary Manhole H8-ZTK9Q2 (8" Concrete).....	12
Sanitary Manhole H8-YSSARW to Sanitary Manhole H8-YSHALX (8" Concrete).....	13
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Sanitary Manhole J8-2RIMD5 to Sanitary Manhole J8-1LGMDD (12" Clay).....	15
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Sanitary Manhole H8-9IBAQL to Sanitary Manhole H8-9CSDQT (8" Concrete/Truss).....	24
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Sanitary Manhole I7-SOERY1 to Sanitary Manhole I7-RAVQL8 (8" Concrete).....	25
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<b>Webster Ave. from Chicago St. to 520' North of Chicago St. (Plan Sheet C112)</b>	
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APPENDIX A

TELEVISIONING REPORTS

DESCRIPTION	PAGE(S)
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Sanitary Manhole H7-EL8LTY to Sanitary Manhole H7-EKTOHE (15" Concrete).....	39
Sanitary Manhole H7-EKTOHE to Sanitary Manhole H7-EKGQ35 (15" Concrete).....	40
Sanitary Manhole H7-EKGQ35 to Sanitary Manhole H7-EKJQWZ (15" Concrete).....	41
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<b>Red Maple Rd. from 235' East of Red Tail Glen to Autohoe Rd. (Plan Sheets C121 &amp; C122)</b>	
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<b>Rusk St. from 350' East of Zita St. to 700' East of Zita St. (Plan Sheet 124)</b>	
Sanitary Manhole J8-U06CSU to Sanitary Manhole I8-WC5BO2 (10" Concrete).....	53

<b>Upstream MH</b>		<b>Downstream MH</b>			
ENDWALL		H7-Q1LJG3			
<b>Date</b>	<b>Time</b>	<b>Street</b>			<b>Page</b>
5/13/2021	10:11 AM	Esmnt s/o Westwood			1
<b>Sewer Use</b>	<b>Pipe Size</b>	<b>Pipe ID</b>	<b>Jt. Spacing</b>	<b>Shape</b>	<b>Survey Direction</b>
Stormwater	36		20	Circular	Upstream
<b>Pre-Cleaning</b>	<b>Weather</b>	<b>Media Label</b>	<b>Rim to Invert (U)</b>	<b>Rim to Invert (D)</b>	<b>Flow Direction</b>
Jetting	Dry			7.8	NE
<b>Date Cleaned</b>	<b>Surveyed Length</b>	<b>Total Length</b>	<b>Surveyor</b>	<b>Certificate No.</b>	<b>Surface</b>
5/6/2021	67	67	Tyler Derenne	U-116-07002794	Turf
<b>Owner</b>		<b>Material</b>		<b>Project</b>	
City of De Pere		Corrugated Metal Pipe		21-15	
<b>Additional Information</b>					



<b>Upstream MH</b>		<b>Downstream MH</b>			
H7-Q1LJG3		H7-Q27JO0			
<b>Date</b>	<b>Time</b>	<b>Street</b>			<b>Page</b>
5/13/2021	10:38 AM	Esmnt n/o Westwood			1
<b>Sewer Use</b>	<b>Pipe Size</b>	<b>Pipe ID</b>	<b>Jt. Spacing</b>	<b>Shape</b>	<b>Survey Direction</b>
Stormwater	36		20	Circular	Downstream
<b>Pre-Cleaning</b>	<b>Weather</b>	<b>Media Label</b>	<b>Rim to Invert (U)</b>	<b>Rim to Invert (D)</b>	<b>Flow Direction</b>
Jetting	Dry		7.8	7.8	N
<b>Date Cleaned</b>	<b>Surveyed Length</b>	<b>Total Length</b>	<b>Surveyor</b>	<b>Certificate No.</b>	<b>Surface</b>
5/6/2021	30	30	Tyler Derenne	U-116-07002794	Bituminous
<b>Owner</b>		<b>Material</b>		<b>Project</b>	
City of De Pere		Corrugated Metal Pipe		21-15	
<b>Additional Information</b>					



H7-Q27JO0

<b>Upstream MH</b> H7-Q27JO0			<b>Downstream MH</b> H7-Q4CKHH		
<b>Date</b> 5/13/2021	<b>Time</b> 11:39 AM	<b>Street</b> Esmnt n/o Westwood			<b>Page</b> 1
<b>Sewer Use</b> Stormwater	<b>Pipe Size</b> 36	<b>Pipe ID</b>	<b>Jt. Spacing</b> 20	<b>Shape</b> Circular	<b>Survey Direction</b> Downstream
<b>Pre-Cleaning</b> Jetting	<b>Weather</b> Dry	<b>Media Label</b>	<b>Rim to Invert (U)</b> 7.8	<b>Rim to Invert (D)</b> 9	<b>Flow Direction</b> N
<b>Date Cleaned</b> 5/6/2021	<b>Surveyed Length</b> 105	<b>Total Length</b> 105	<b>Surveyor</b> Tyler Derenne	<b>Certificate No.</b> U-116-07002794	<b>Surface</b> Turf
<b>Owner</b> City of De Pere		<b>Material</b> Corrugated Metal Pipe		<b>Project</b> 21-15	
<b>Additional Information</b>					

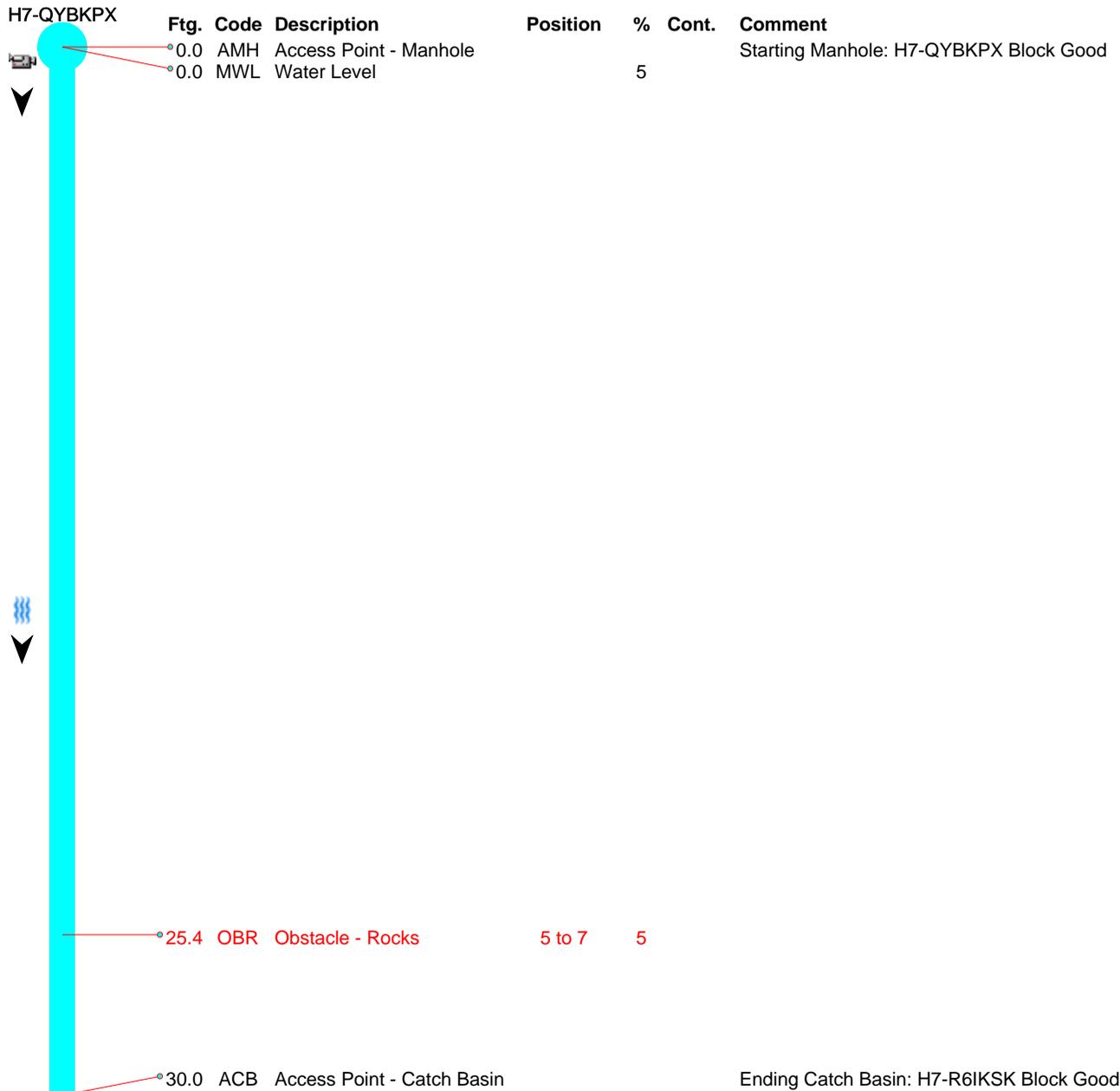
H7-Q27JO0	Ftg. Code	Description	Position	%	Cont.	Comment
 	0.0	ACB Access Point - Catch Basin				Starting Catch Basin: H7-Q27JO0 Block Good
	0.0	MWL Water Level		5		
	73.5	DSF Deposits Settled: Fine	6 to 8	5	S01	
	93.6	DSF Deposits Settled: Fine	6 to 8	5	F01	
	105.0	ACB Access Point - Catch Basin				Ending Catch Basin: H7-Q4CKHH Precast over Block Good

H7-Q4CKHH

<b>Upstream MH</b> H7-Q4CKHH		<b>Downstream MH</b> H7-QYBKPX			
<b>Date</b> 5/13/2021	<b>Time</b> 11:45 AM	<b>Street</b> Esmnt n/o Westwood			<b>Page</b> 1
<b>Sewer Use</b> Stormwater	<b>Pipe Size</b> 36	<b>Pipe ID</b>	<b>Jt. Spacing</b> 20	<b>Shape</b> Circular	<b>Survey Direction</b> Downstream
<b>Pre-Cleaning</b> Jetting	<b>Weather</b> Dry	<b>Media Label</b>	<b>Rim to Invert (U)</b> 9	<b>Rim to Invert (D)</b> 3.8	<b>Flow Direction</b> NE
<b>Date Cleaned</b> 5/6/2021	<b>Surveyed Length</b> 110	<b>Total Length</b> 110	<b>Surveyor</b> Tyler Derenne	<b>Certificate No.</b> U-116-07002794	<b>Surface</b> Turf
<b>Owner</b> City of De Pere		<b>Material</b> Corrugated Metal Pipe		<b>Project</b> 21-15	
<b>Additional Information</b>					



<b>Upstream MH</b> H7-QYBKPX		<b>Downstream MH</b> H7-R6IKSK			
<b>Date</b> 5/13/2021	<b>Time</b> 11:54 AM	<b>Street</b> Esmnt n/o Westwood			<b>Page</b> 1
<b>Sewer Use</b> Stormwater	<b>Pipe Size</b> 36	<b>Pipe ID</b>	<b>Jt. Spacing</b> 20	<b>Shape</b> Circular	<b>Survey Direction</b> Downstream
<b>Pre-Cleaning</b> Jetting	<b>Weather</b> Dry	<b>Media Label</b>	<b>Rim to Invert (U)</b> 3.8	<b>Rim to Invert (D)</b> 4	<b>Flow Direction</b> NE
<b>Date Cleaned</b> 5/6/2021	<b>Surveyed Length</b> 30	<b>Total Length</b> 30	<b>Surveyor</b> Tyler Derenne	<b>Certificate No.</b> U-116-07002794	<b>Surface</b> Turf
<b>Owner</b> City of De Pere		<b>Material</b> Corrugated Metal Pipe		<b>Project</b> 21-15	
<b>Additional Information</b>					



H7-R6IKSK

<b>Upstream MH</b>		<b>Downstream MH</b>			
H7-R6IKSK		H7-SAJM3E			
<b>Date</b>	<b>Time</b>	<b>Street</b>			<b>Page</b>
5/13/2021	12:01 PM	Esmnt w/o S 7th			1
<b>Sewer Use</b>	<b>Pipe Size</b>	<b>Pipe ID</b>	<b>Jt. Spacing</b>	<b>Shape</b>	<b>Survey Direction</b>
Stormwater	36		20	Circular	Downstream
<b>Pre-Cleaning</b>	<b>Weather</b>	<b>Media Label</b>	<b>Rim to Invert (U)</b>	<b>Rim to Invert (D)</b>	<b>Flow Direction</b>
Jetting	Dry		5.3	5.8	NE
<b>Date Cleaned</b>	<b>Surveyed Length</b>	<b>Total Length</b>	<b>Surveyor</b>	<b>Certificate No.</b>	<b>Surface</b>
5/6/2021	167	223	Tyler Derenne	U-116-07002794	Turf
<b>Owner</b>		<b>Material</b>		<b>Project</b>	
City of De Pere		Corrugated Metal Pipe		21-15	
<b>Additional Information</b>					
Reverse					

H7-R6IKSK	Ftg.	Code	Description	Position	%	Cont.	Comment
	0.0	AMH	Access Point - Manhole				Starting Manhole: H7-R6IKSK Block Good
	0.0	MWL	Water Level		5		
	3.7	TB	Tap, Break-in / Hammer	3			
	142.1	TB	Tap, Break-in / Hammer	12			
	142.1	TBI	Tap, Break-in / Hammer: Intruding	12			
	143.2	TB	Tap, Break-in / Hammer	12			
	143.2	TBI	Tap, Break-in / Hammer: Intruding	12			
	150.5	RPP	Point Repair - Patch Repair	7 to 9			Patch
	159.8	D	Pipe Deformed		5		
	161.5	HSV	Hole in Pipe: Soil Visible	12			
	167.0	MSA	Survey Abandoned				Point of Reversal, End T.V.

<b>Upstream MH</b>		<b>Downstream MH</b>			
H7-R6IKSK		H7-SAJM3E			
<b>Date</b>	<b>Time</b>	<b>Street</b>			<b>Page</b>
5/13/2021	7:54 AM	Esmnt w/o S 7th			1
<b>Sewer Use</b>	<b>Pipe Size</b>	<b>Pipe ID</b>	<b>Jt. Spacing</b>	<b>Shape</b>	<b>Survey Direction</b>
Stormwater	36		20	Circular	Upstream
<b>Pre-Cleaning</b>	<b>Weather</b>	<b>Media Label</b>	<b>Rim to Invert (U)</b>	<b>Rim to Invert (D)</b>	<b>Flow Direction</b>
Jetting	Dry		5.3	5.8	NE
<b>Date Cleaned</b>	<b>Surveyed Length</b>	<b>Total Length</b>	<b>Surveyor</b>	<b>Certificate No.</b>	<b>Surface</b>
5/6/2021	56	223	Tyler Derenne	U-116-07002794	Turf
<b>Owner</b>		<b>Material</b>		<b>Project</b>	
City of De Pere		Corrugated Metal Pipe		21-15	
<b>Additional Information</b>					

H7-R6IKSK	Ftg.	Code	Description	Position	%	Cont.	Comment
	56.0	MSA	Survey Abandoned				Camera will not pass, Reverse T.V.
	55.4	OBI	Obstacle - Object Protruding Thru Wall	4 to 8	30		



0.0	MWL	Water Level				
0.0	AMH	Access Point - Manhole				

15

Starting Manhole: H7-SAJM3E Block Good

H7-SAJM3E



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Upstream MH</b> S7thH8-S4LCTO	<b>Downstream MH</b> H8-THSFFT	<b>Size</b> 12	<b>Material</b> Clay Tile	<b>Total Length</b> 382	<b>City</b> City of DePere
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<b>Surveyor's Name</b> Daryl	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> S7th	<b>Location Details</b>
---------------------------------	--	-------------------------------	-------------------------

<b>Direction</b> Downstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 05/31/2017	<b>Time</b> 13:06	<b>Length Surveyed</b>
--------------------------------	---------------------------------------	-----------------------	---------------------------	----------------------	------------------------

**Additional Information**

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Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: S7thH8-S4LCTO
0.0	MWL	Water Level		
0.0	MMC	Material Change		PVC
1.8	MMC	Material Change		CLAY TILE
19.5	MGO	General Observation		SMALL CRACKS IN SOME PIPE
30.1	RFJ	Roots, Fine: Joint	7 to 8	
30.1	RFJ	Roots, Fine: Joint	3 to 5	
39.3	TFC	Tap, Factory Made: Capped	2	
41.3	TFC	Tap, Factory Made: Capped	11	
53.4	TFC	Tap, Factory Made: Capped	11	
58.1	RFJ	Roots, Fine: Joint	7 to 8	
66.3	RFJ	Roots, Fine: Joint	7 to 5	RFJ IN SOME PIPE
79.7	TFC	Tap, Factory Made: Capped	2	
82.2	TFA	Tap, Factory Made: Active	11	ACTIVE? ROOTS IN LATERAL
126.2	TFC	Tap, Factory Made: Capped	2	
128.7	TFC	Tap, Factory Made: Capped	11	
162.9	TFC	Tap, Factory Made: Capped	2	
165.0	TFC	Tap, Factory Made: Capped	10	
183.3	TFC	Tap, Factory Made: Capped	11	
209.5	TFC	Tap, Factory Made: Capped	11	
254.0	TFC	Tap, Factory Made: Capped	2	
255.9	TFC	Tap, Factory Made: Capped	10	
273.2	MWL	Water Level		
286.3	MWL	Water Level		
289.2	TBA	Tap, Break-in / Hammer: Active	2	ACTIVE?
298.7	CM	Crack Multiple	7 to 5	CM IN SOME PIPE
314.3	TFC	Tap, Factory Made: Capped	2	
316.3	TFC	Tap, Factory Made: Capped	11	
318.2	TBA	Tap, Break-in / Hammer: Active	10	ACTIVE?
378.7	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

**Owner** City of DePere    **Customer** ENGINEERING    **Upstream MH** MainH8-UD2EQP    **Downstream MH** H8-XA1DFJ    **Date** 04-16-2014    **Time** 1:30 PM

**Surveyor** DARYL    **Street** Main    **City** City of DePere    **Weather** Dry

**Size** 8    **Material** Concrete segments (unbolted)    **Sewer Use** Sanitary    **Purpose** Maintenance Related    **Length**

**Comments** ROOT CUT BY SEWER JET    **Pre-Cleaning** Jetting    **(TV'd)** 156.9

Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
1.5	SD	Surface Damage		1	SRI S01
38.9	SC	Service Connection	1		TFA
57.0	SD	Surface Damage		1	SRI F01
57.0	SD	Surface Damage		1	SAV S02
74.8	DP	Deposits	7 to 5	1	DAEJ
74.8	GO	General Observation			MWL 10%
77.0	GO	General Observation			MWL 5%
122.9	R	Roots	2 to 5	1	RFJ
125.8	R	Roots	10 to 5	1	RFJ
135.1	R	Roots	8 to 11	1	RFJ
138.1	R	Roots	3 to 5	1	RFJ
141.1	R	Roots		1	RFJ AT SOME JOINTS
156.9	SC	Service Connection	12		TBAI
156.9	SD	Surface Damage		1	SAV F02
156.9	GO	General Observation			CAN'T GET CAMERA BY LATERAL
156.9	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> Main2H8-UD2EQP	<b>Downstream MH</b> H8-XA1DFJ	<b>Date</b> 04-10-2014	<b>Time</b> 10:01 AM
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<b>Surveyor</b> DARYL	<b>Street</b> Main	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 
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<b>Comments</b> UPSTREAM ROOT CUT BY SEWER JET	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 236.4
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SAV S01
4.0	GO	General Observation			MWL 10%
30.6	GO	General Observation			MWL 5%
40.3	JO	Joint Offset		1	JO
41.8	SC	Service Connection	11		TFA
97.9	SC	Service Connection	11		TFA
104.5	R	Roots	7 to 9	1	RFJ
151.7	SC	Service Connection	11		TFA
161.4	GO	General Observation			MWL 10%
172.8	GO	General Observation			MWL 5%
179.6	R	Roots	7 to 8	1	RFJ
179.6	R	Roots	4 to 5	1	RFJ
181.0	GO	General Observation			MWL 10%
182.6	R	Roots	7 to 8	1	RFJ
185.3	R	Roots	7 to 9	1	RFJ
188.5	R	Roots	7 to 11	1	RFJ
188.5	R	Roots	3 to 5	1	RFJ
188.5	GO	General Observation			MWL 25%
191.2	GO	General Observation			MWL 35%
194.6	R	Roots	7 to 11	1	RFJ
194.6	C	Crack	1	1	CL
200.7	R	Roots		1	RFJ AT SOME JOINTS
205.2	GO	General Observation			MWL 50%
209.7	R	Roots	7 to 4	2	RFJ
213.7	GO	General Observation			MWL 15%
217.9	GO	General Observation			MWL 5%
232.5	SC	Service Connection	11		TFA
232.5	R	Roots	11 to 12	1	RFL
236.0	SC	Service Connection	12		TBAI
236.4	GO	General Observation			CAN'T GET CAMERA BY LATERAL
236.4	SD	Surface Damage		1	SAV F01
236.4	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> MainAnnexH8- XA1DFJ	<b>Downstream MH</b> H8-XOACZN	<b>Date</b> 04-08-2014	<b>Time</b> 1:47 PM
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<b>Surveyor</b> DARYL	<b>Street</b> MainAnnex	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 77
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<b>Comments</b> UPSTREAM	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 94
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SAV S01
0.0	DP	Deposits	5 to 7	2	DSZ
1.4	GO	General Observation			MWL 10%
3.2	GO	General Observation			MWL 30%
12.0	GO	General Observation			MWL 15%
17.3	GO	General Observation			MWL 25%
35.9	GO	General Observation			MWL 5%
64.1	DP	Deposits	3 to 5	1	DAE
69.8	SC	Service Connection	12		TFA
84.1	GO	General Observation			MWL 10%
91.2	GO	General Observation			MWL 5%
93.1	SD	Surface Damage		1	SAV F01
94.0	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> ReidH8-YSHALX	<b>Downstream MH</b> H8-ZTK9Q2	<b>Date</b> 04-07-2014	<b>Time</b> 7:10 AM
<b>Surveyor</b> DARYL	<b>Street</b> Reid		<b>City</b> City of DePere	<b>Weather</b> Dry	
<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related		<b>Length</b> 176
<b>Comments</b>				<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 173.7

Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MMC PVC
0.0	GO	General Observation			MWL 5%
2.6	GO	General Observation			MMC CONCRETE
2.6	SD	Surface Damage		2	SAV S01
4.3	GO	General Observation	7 to 12	1	FM
4.3	I	Infiltration	7 to 4	2	IR
25.9	DP	Deposits	7 to 9	1	DAE
25.9	DP	Deposits	3 to 5	1	DAE
32.2	DP	Deposits	7 to 9	1	DAE
32.2	DP	Deposits	3 to 5	1	DAE
131.4	SC	Service Connection	2		TBA?
145.9	R	Roots	9 to 3	1	RFJ
162.6	DP	Deposits	7 to 5	1	DAEJ
168.2	SD	Surface Damage		2	SAV F01
168.2	GO	General Observation			MMC PVC
173.7	IE	End Inspection			



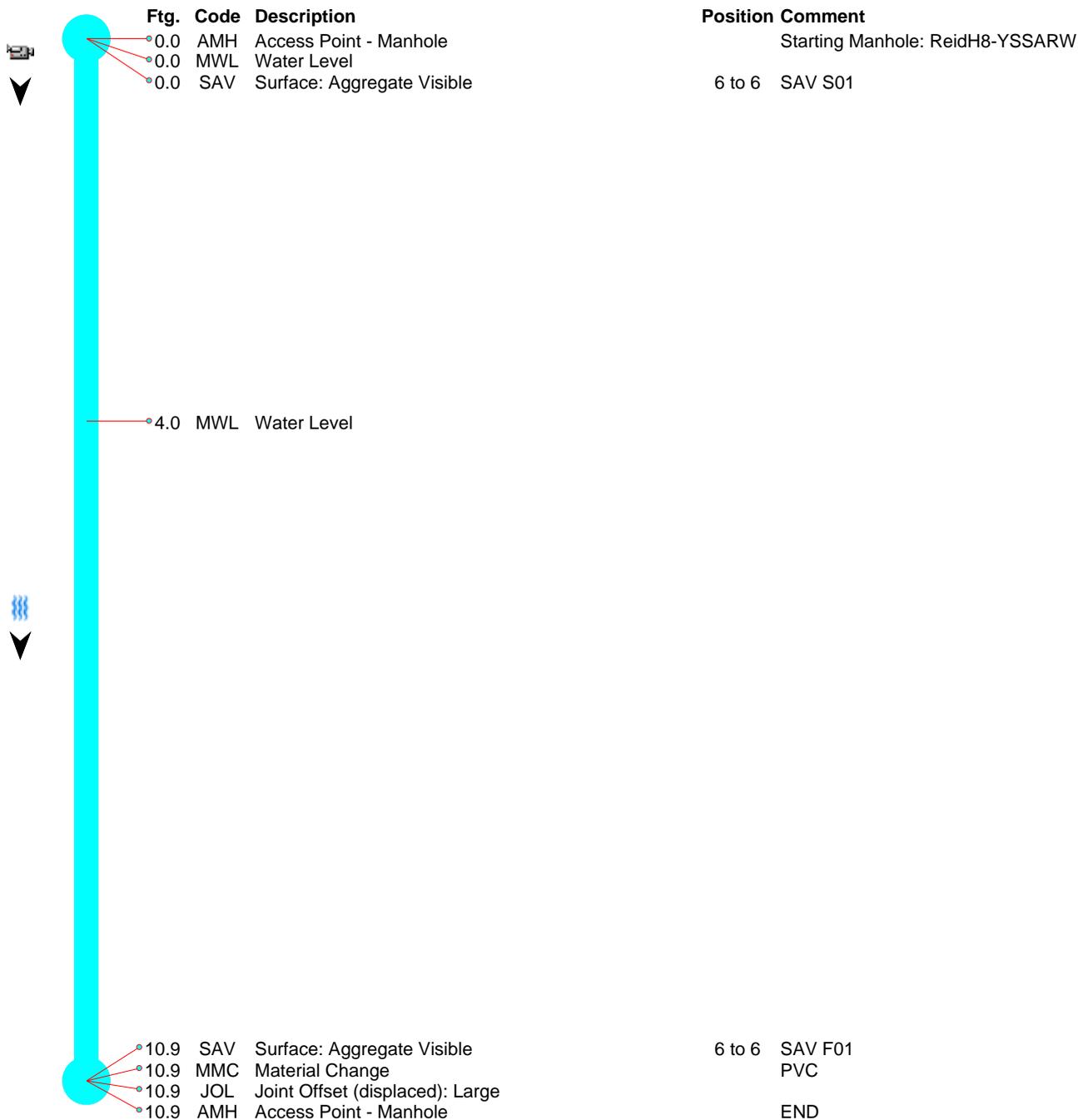
**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

Upstream MH	Downstream MH	Size	Material	Total Length	City
ReidH8-YSSARW	H8-YSHALX	8	Concrete Segments (unbolted)	21	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	Reid	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Downstream	Maintenance Related	Dry	08/24/2022	09:20	

**Additional Information**





**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Upstream MH</b> MainAnnexH8-XOACZN	<b>Downstream MH</b> H8-YSSARW	<b>Size</b> 8	<b>Material</b> Concrete Segments (unbolted)	<b>Total Length</b> 322	<b>City</b> City of DePere
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<b>Surveyor's Name</b> Daryl	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> MainAnnex	<b>Location Details</b>
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<b>Direction</b> Downstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 08/24/2022	<b>Time</b> 08:06	<b>Length Surveyed</b>
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**Additional Information**

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: MainAnnexH8-XOACZN
0.0	MWL	Water Level		
0.0	SAV	Surface: Aggregate Visible	6 to 6	SAV S01
5.7	MGO	General Observation		CRACKS IN SOME PIPE
42.9	MGO	General Observation		AGGREGATE MISSING IN SOME PIPE
99.4	MGO	General Observation		FRACTURES IN SOME PIPE
195.2	RFB	Roots, Fine: Barrel	4 to 5	
199.9	RFB	Roots, Fine: Barrel	7 to 5	RFB IN SOME PIPE
229.4	TBA	Tap, Break-in / Hammer: Active	3	
317.3	SAV	Surface: Aggregate Visible	6 to 6	SAV F01
317.3	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> WILLIAM ST J8-2RIMD5	<b>Downstream MH</b> J8-1LGMDD	<b>Date</b> 08-10-2012	<b>Time</b> 12:00 PM
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<b>Surveyor</b> DARYL	<b>Street</b> WILLIAM ST	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 12	<b>Material</b> Clay Tile	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 151
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 149.6
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MMC PVC
1.2	GO	General Observation			MMC CLAY TILE
1.2	GO	General Observation	12 to 12	1	FH4
2.7	GO	General Observation	12 to 12	1	FH4
5.0	SC	Service Connection	12		TFA?
5.0	GO	General Observation			MWL 20%
7.7	SC	Service Connection	3		TFC
9.6	SC	Service Connection	9		TFA
11.4	GO	General Observation			MWL 30%
25.4	GO	General Observation			MWL 40%
37.0	GO	General Observation			MWL 25%
45.3	GO	General Observation			MWL 10%
76.4	R	Roots	7 to 8	1	RFJ
76.4	R	Roots	4 to 5	1	RFJ
96.2	SC	Service Connection	3		TFC
96.2	C	Crack	11	1	CL
97.2	GO	General Observation			MWL 5%
125.3	C	Crack	12	1	CL
126.9	C	Crack	12	1	CL
146.3	GO	General Observation			MMC PVC
149.6	IE	End Inspection			



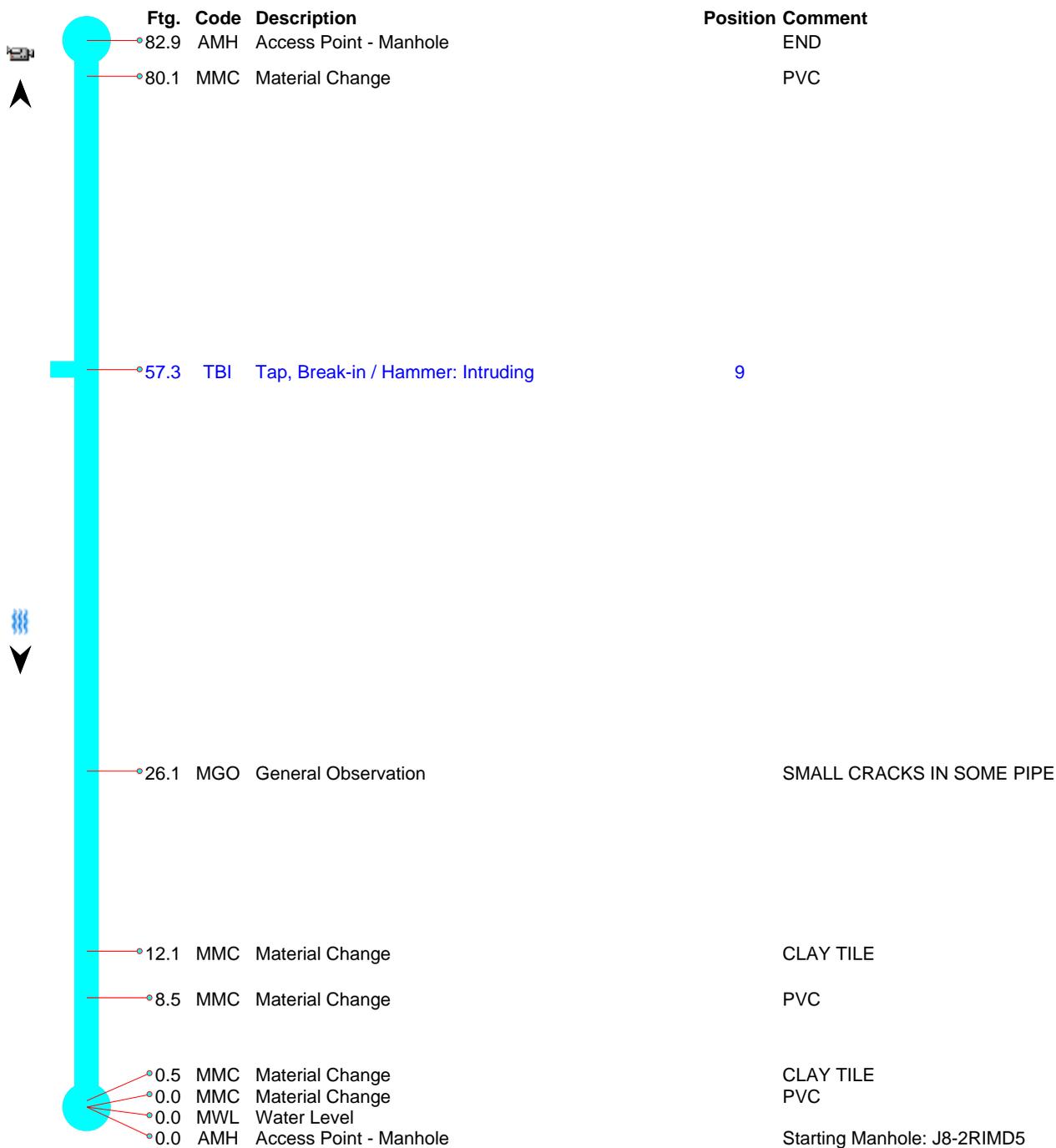
**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

Upstream MH	Downstream MH	Size	Material	Total Length	City
WilliamJ8-3F1MCX	J8-2RIMD5	12	Clay Tile	85	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	William	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Upstream	Maintenance Related	Dry	09/06/2022	11:40	

**Additional Information**  
 UPSTREAM. CHECKING FOR BROKEN PIPE





**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> ALLEY BETW WILL/JAMES/HU RON/SUPER J8- 2QGL2L	<b>Downstream MH</b> J8-2RIMD5	<b>Date</b> 08-09-2012	<b>Time</b> 12:25 PM
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<b>Surveyor</b> DARYL	<b>Street</b> ALLEY BETW WILL/JAMES/HURON/SUPER	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Clay Tile	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 168
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<b>Comments</b> UPSTREAM	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 167.1
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Ftg.	Code	Description	Position	Severity	Comment
1.0	IB	Begin Inspection			
1.0	GO	General Observation			MMC PVC
8.4	GO	General Observation			MWL 5%
35.1	GO	General Observation			MMC CLAY TILE
39.2	SC	Service Connection	9		TFA
53.9	SC	Service Connection	3		TFA
88.6	SC	Service Connection	9		TFA
94.7	SC	Service Connection	3		TFA
130.2	GO	General Observation			MWL 20%
143.9	GO	General Observation			MWL 10%
152.2	SC	Service Connection	9		TFA
154.3	GO	General Observation			MWL 5%
156.3	SC	Service Connection	3		TFA
156.3	GO	General Observation	6	1	FL
162.7	SC	Service Connection	3		TFC
163.6	GO	General Observation			MMC CONCRETE
167.1	IE	End Inspection			



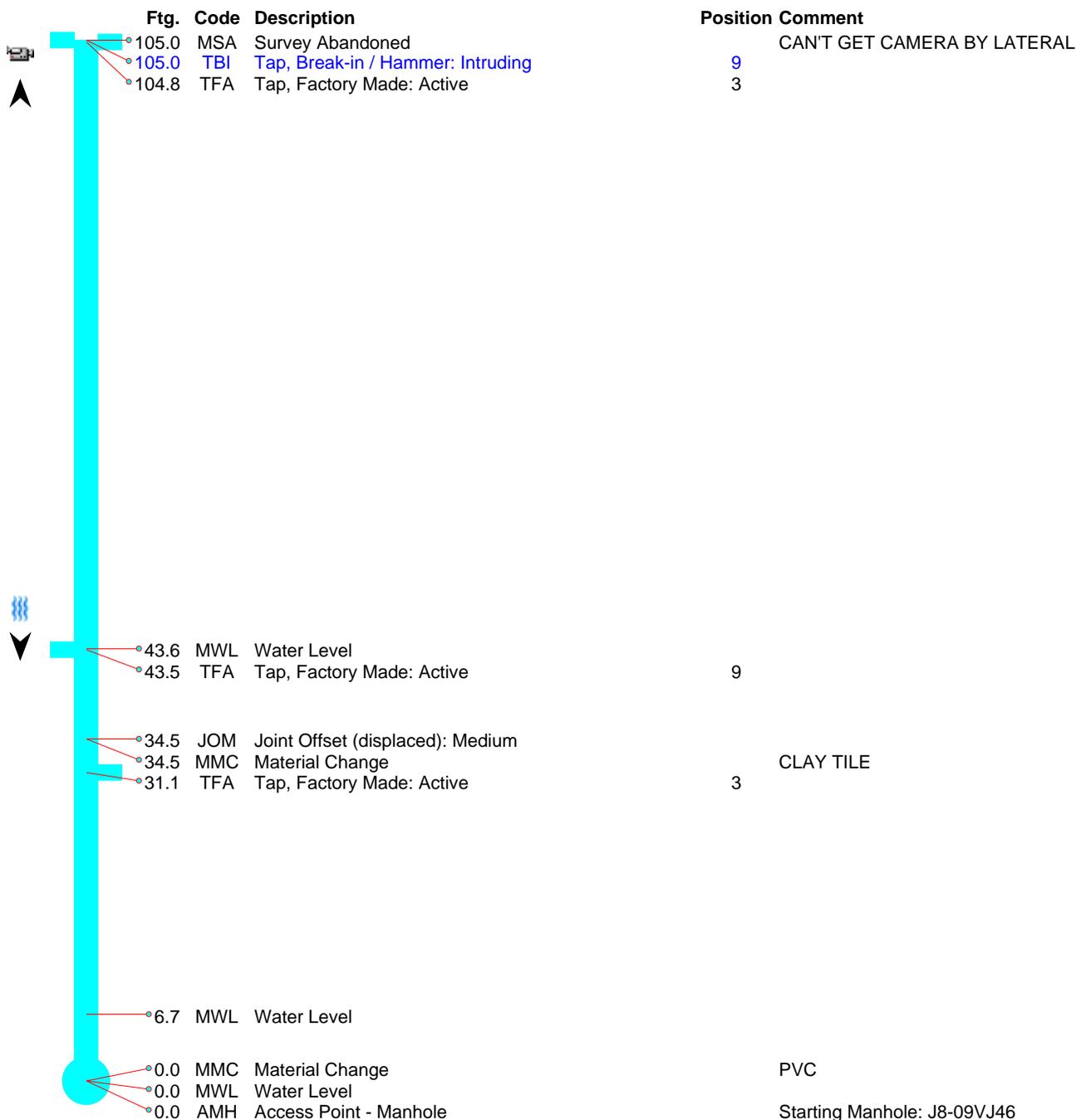
**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

Upstream MH	Downstream MH	Size	Material	Total Length	City
SuperMichJamesWill 2J8-0AMKQB	J8-09VJ46	8	Clay Tile	209	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	SuperMichJamesWill	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Upstream	Maintenance Related	Dry	08/23/2022	12:18	

Additional Information
UPSTREAM





**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
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Upstream MH	Downstream MH	Size	Material	Total Length	City
SuperMichJamesWill J8-0AMKQB	J8-09VJ46	8	Concrete Segments (unbolted)	209	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	SuperMichJamesWill	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Downstream	Maintenance Related	Dry	08/23/2022	08:20	

**Additional Information**

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: SuperMichJamesWillJ8-0AMKQB
0.0	MWL	Water Level		
0.0	SRI	Surface: Roughness Increased	6 to 6	SRI S01
6.1	MMC	Material Change		CLAY TILE
7.6	SRI	Surface: Roughness Increased	6 to 6	SRI F01
35.3	DAE	Deposits Attached: Encrustation	6 to 9	
38.4	TFA	Tap, Factory Made: Active	9	ACTIVE?
40.2	TBI	Tap, Break-in / Hammer: Intruding	9	
40.2	RFL	Roots, Fine: Lateral	7 to 11	
40.4	TFA	Tap, Factory Made: Active	3	
41.7	MGO	General Observation		RFJ IN SOME PIPE
65.9	TBA	Tap, Break-in / Hammer: Active	9	
97.5	TFC	Tap, Factory Made: Capped	3	
99.5	TBI	Tap, Break-in / Hammer: Intruding	3	
99.6	TFA	Tap, Factory Made: Active	9	
99.7	MSA	Survey Abandoned		CAN'T GET CAMERA BY LATERAL



**City of DePere**  
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Upstream MH	Downstream MH	Size	Material	Total Length	City
LewisChicErieHuron J8-5188UQ	J8-4YU5M4	8	Clay Tile	420	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	LewisChicErieHuron	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Downstream	Maintenance Related	Dry	06/20/2019	09:19	

**Additional Information**

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: LewisChicErieHuronJ8-5188UQ
0.0	MWL	Water Level		
1.8	DAE	Deposits Attached: Encrustation	5 to 7	
1.8	RFB	Roots, Fine: Barrel	5 to 7	
4.2	TFC	Tap, Factory Made: Capped	3	
6.9	MWL	Water Level		
22.7	TFA	Tap, Factory Made: Active	9	
32.3	RFJ	Roots, Fine: Joint	10 to 11	
55.6	TBA	Tap, Break-in / Hammer: Active	9	
81.9	TFC	Tap, Factory Made: Capped	9	
85.9	TFA	Tap, Factory Made: Active	3	
120.9	TBA	Tap, Break-in / Hammer: Active	3	
128.8	TFA	Tap, Factory Made: Active	9	
141.1	TFA	Tap, Factory Made: Active	9	
145.1	TFA	Tap, Factory Made: Active	3	
168.6	RFJ	Roots, Fine: Joint	8 to 9	
179.4	TFA	Tap, Factory Made: Active	3	
198.1	TFA	Tap, Factory Made: Active	9	
210.6	TBI	Tap, Break-in / Hammer: Intruding	3	
217.4	RFJ	Roots, Fine: Joint	10 to 4	
230.5	TFA	Tap, Factory Made: Active	3	
238.0	RFJ	Roots, Fine: Joint	1 to 2	
254.0	RFJ	Roots, Fine: Joint	8 to 10	
259.1	TFA	Tap, Factory Made: Active	9	ROOTS IN LATERAL
286.5	CM	Crack Multiple	12 to 5	
286.5	MGO	General Observation		CRACKS IN SOME PIPE
293.6	TBA	Tap, Break-in / Hammer: Active	12	
301.5	TFC	Tap, Factory Made: Capped	3	
311.8	TFC	Tap, Factory Made: Capped	9	
324.6	MWL	Water Level		
328.1	MWL	Water Level		
329.3	RFJ	Roots, Fine: Joint	2 to 3	
333.2	RFJ	Roots, Fine: Joint	7 to 5	RFJ IN SOME PIPE
352.5	TBI	Tap, Break-in / Hammer: Intruding	10	ROOTS IN LATERAL
352.5	MSA	Survey Abandoned		CAN'T GET CAMERA BY LATERAL



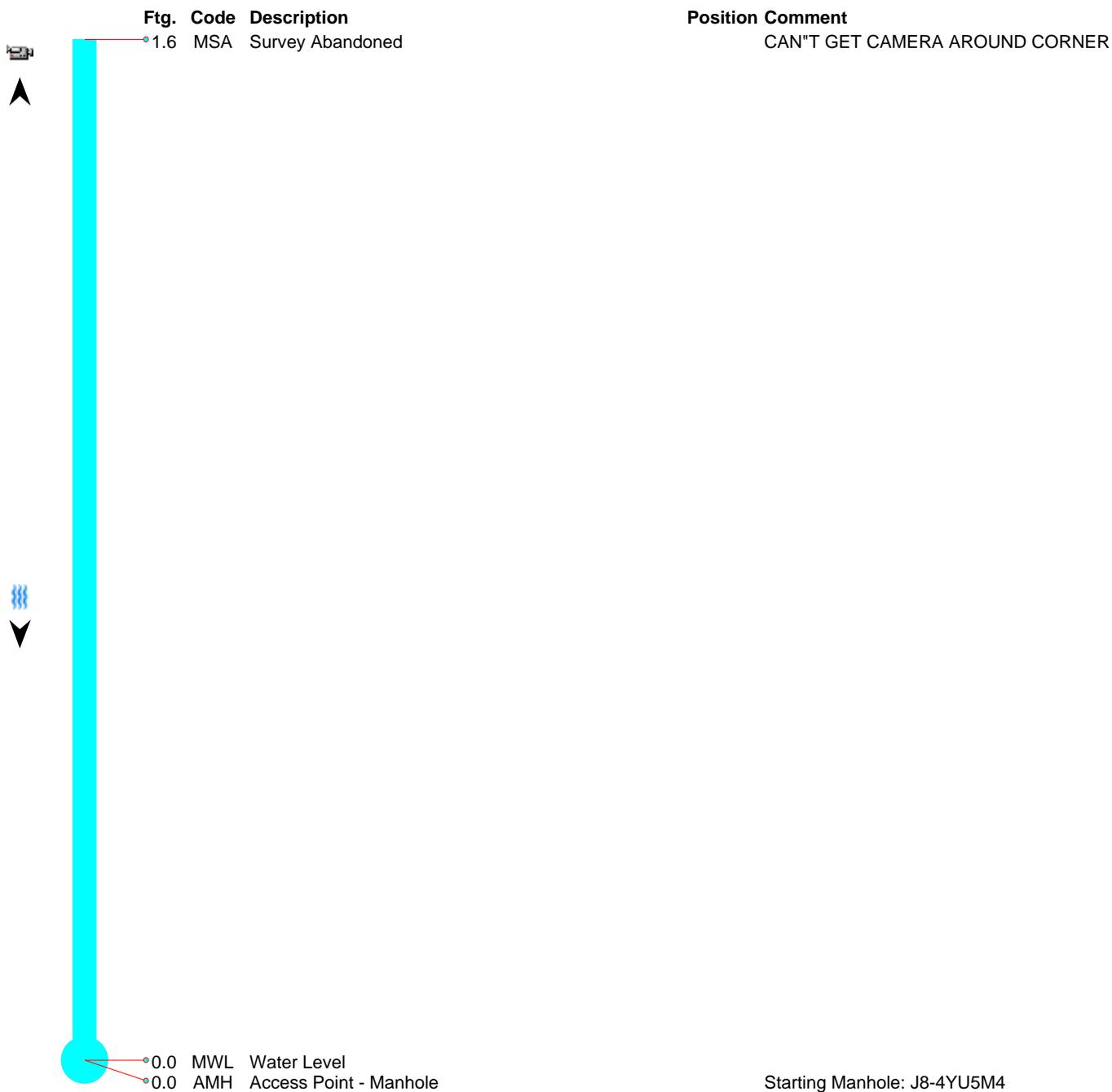
**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

Upstream MH	Downstream MH	Size	Material	Total Length	City
LewisChicErieHuron 2J8-5188UQ	J8-4YU5M4	8	Clay Tile	420	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	LewisChicErieHuron2	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Upstream	Maintenance Related	Dry	08/18/2015	10:18	

Additional Information
UPSTREAM





**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

Upstream MH	Downstream MH	Size	Material	Total Length	City
FtHoward219-3J882I	I9-4B09FG	10	Clay Tile	203	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	FtHoward	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Upstream	Maintenance Related	Dry	01/04/2023	14:02	

Additional Information
UPSTREAM

Ftg.	Code	Description	Position	Comment
126.5	MSA	Survey Abandoned		CAN'T GET CAMERA BY ROOTS
126.0	TFA	Tap, Factory Made: Active	10	ACTIVE?
115.2	MWL	Water Level		
110.1	RFJ	Roots, Fine: Joint	7 to 5	RFJ IN SOME PIPE
104.2	MWL	Water Level		
100.2	RFJ	Roots, Fine: Joint	3	
93.4	TFC	Tap, Factory Made: Capped	9	
90.0	RFJ	Roots, Fine: Joint	2 to 3	
66.1	MWL	Water Level		
51.2	MWL	Water Level		
47.7	MWL	Water Level		
47.7	MMC	Material Change		CLAY TILE
43.8	TFA	Tap, Factory Made: Active	9	
38.9	MWL	Water Level		
37.0	MMC	Material Change		PVC
31.2	MWL	Water Level		
10.2	RFJ	Roots, Fine: Joint	3 to 4	
4.2	MWL	Water Level		
2.2	MGO	General Observation		CRACKS IN SOME PIPE
2.2	MMC	Material Change		CLAYTILE
0.0	MMC	Material Change		PVC
0.0	MWL	Water Level		
0.0	AMH	Access Point - Manhole		Starting Manhole: I9-4B09FG



**City of DePere**  
 925 South Sixth Street  
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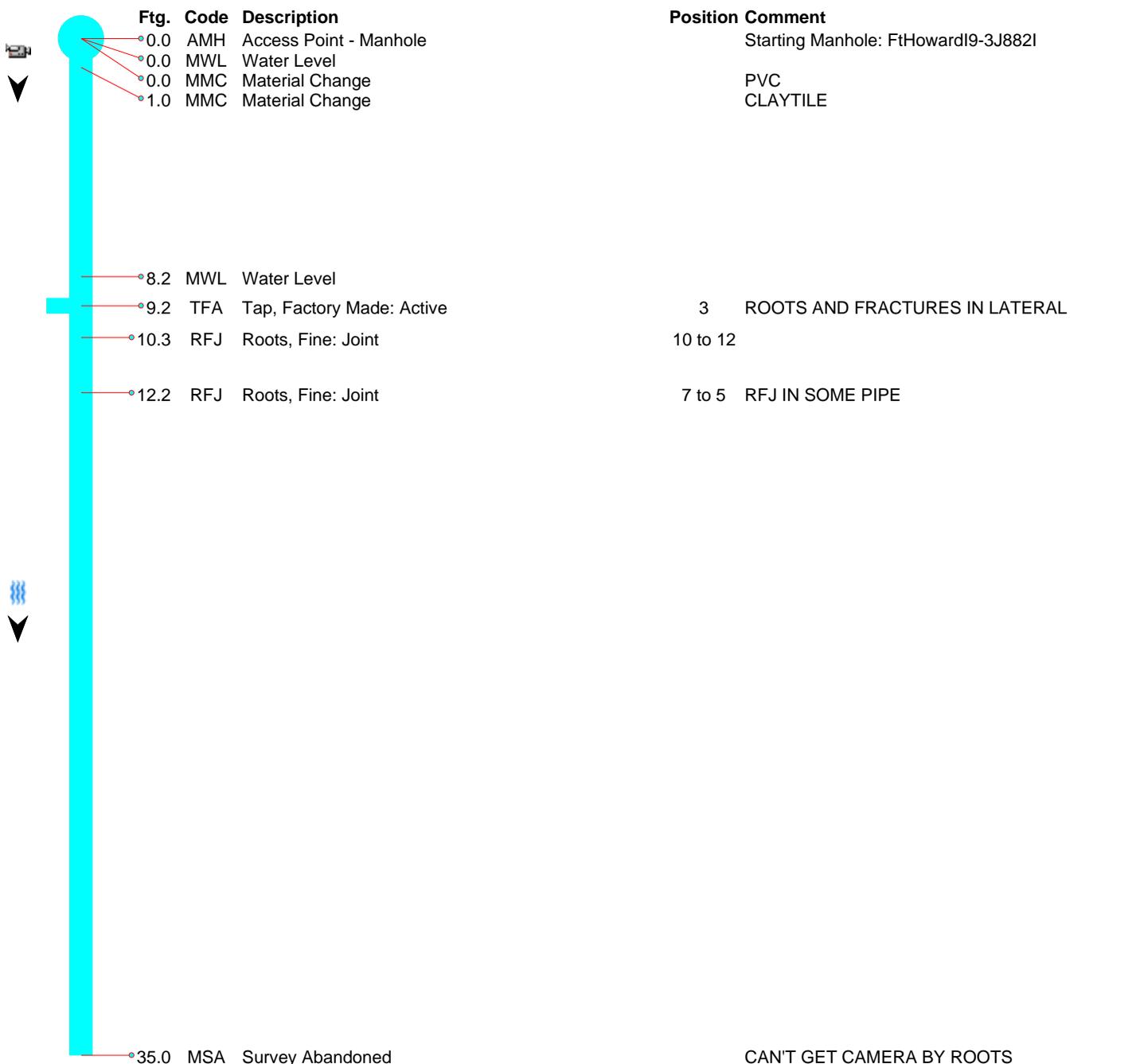
<b>Upstream MH</b> FtHowardI9-3J882I	<b>Downstream MH</b> I9-4B09FG	<b>Size</b> 10	<b>Material</b> Clay Tile	<b>Total Length</b> 203	<b>City</b> City of DePere
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<b>Surveyor's Name</b> Daryl	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> FtHoward	<b>Location Details</b>
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<b>Direction</b> Downstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 01/04/2023	<b>Time</b> 13:20	<b>Length Surveyed</b>
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**Additional Information**

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**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

Upstream MH	Downstream MH	Size	Material	Total Length	City
MoonglowH8-9CSDQT	H8-9IBAQL	8	Reinforced Plastic Pipe (Truss Pipe)	390	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	Moonglow	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Downstream	Maintenance Related	Dry	08/08/2022	08:50	

**Additional Information**

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: MoonglowH8-9CSDQT
0.0	MWL	Water Level		
4.4	TFA	Tap, Factory Made: Active	3	
47.6	TFA	Tap, Factory Made: Active	9	
51.2	TFC	Tap, Factory Made: Capped	9	
77.1	CC	Crack Circumferential	5 to 7	
77.1	IG	Infiltration - Gusher	5 to 7	
77.5	IR	Infiltration - Runner	3 to 5	
108.7	TFA	Tap, Factory Made: Active	3	
168.9	TFA	Tap, Factory Made: Active	9	
208.0	TFA	Tap, Factory Made: Active	3	
284.1	MWL	Water Level		
286.7	TFC	Tap, Factory Made: Capped	9	
290.8	MWL	Water Level		
303.1	MWL	Water Level		
309.3	MWL	Water Level		
313.2	TFC	Tap, Factory Made: Capped	3	IR IN CAP
336.8	MWL	Water Level		
366.5	MMC	Material Change		CONCRETE
367.1	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

Upstream MH	Downstream MH	Size	Material	Total Length	City
Georgial7-S0ERY1	I7-RAVQL8	8	Concrete Segments (unbolted)	198	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	Georgia	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Downstream	Maintenance Related	Dry	07/20/2015	12:30	

**Additional Information**

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: Georgial7-S0ERY1
0.0	MWL	Water Level		
0.0	SRI	Surface: Roughness Increased	6 to 6	S01
1.0	DAE	Deposits Attached: Encrustation	7 to 5	
31.2	MWL	Water Level		
31.5	TFA	Tap, Factory Made: Active	10	
31.5	DAE	Deposits Attached: Encrustation	7 to 5	
43.0	MWL	Water Level		
48.1	SRI	Surface: Roughness Increased	6 to 6	F01
48.1	SAV	Surface: Aggregate Visible	6 to 6	S02
61.6	TFA	Tap, Factory Made: Active	2	
118.3	DAE	Deposits Attached: Encrustation	7 to 11	
118.3	DAE	Deposits Attached: Encrustation	1 to 5	
131.5	TFA	Tap, Factory Made: Active	9	
136.6	TFA	Tap, Factory Made: Active	3	
136.6	MWL	Water Level		
144.2	MWL	Water Level		
191.8	SAV	Surface: Aggregate Visible	6 to 6	F02
191.8	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Upstream MH</b> Georgia217-SH4THL	<b>Downstream MH</b> I7-S0ERY1	<b>Size</b> 8	<b>Material</b> Concrete Segments (unbolted)	<b>Total Length</b> 209	<b>City</b> City of DePere
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<b>Surveyor's Name</b> Daryl	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Georgia	<b>Location Details</b>
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<b>Direction</b> Upstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 07/20/2015	<b>Time</b> 13:57	<b>Length Surveyed</b>
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<b>Additional Information</b> UPSTREAM
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Ftg.	Code	Description	Position	Comment
47.3	MSA	Survey Abandoned		CAN'T GET CAMERA BY DAE
47.3	ID	Infiltration - Dripper	8 to 9	
47.3	DAE	Deposits Attached: Encrustation	7 to 5	
47.2	SAV	Surface: Aggregate Visible	6 to 6	F01
41.5	MWL	Water Level		
39.4	DAE	Deposits Attached: Encrustation	7 to 5	
36.9	MWL	Water Level		
28.4	TFA	Tap, Factory Made: Active	9	
0.0	SAV	Surface: Aggregate Visible	6 to 6	S01
0.0	MWL	Water Level		
0.0	AMH	Access Point - Manhole		Starting Manhole: I7-S0ERY1



**City of DePere**  
 925 South Sixth Street  
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 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> Georgial7-SH4THL	<b>Downstream MH</b> I7-S0ERY1	<b>Date</b> 10-21-2013	<b>Time</b> 9:13 AM
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<b>Surveyor</b> Daryl	<b>Street</b> Georgia	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 209
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<b>Comments</b>	<b>Pre-Cleaning</b> No Pre-Cleaning	<b>(TV'd)</b> 206.4
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.4	DP	Deposits	4 to 5	1	DAEJ
0.4	C	Crack	7	1	CL
4.1	SC	Service Connection	3		TFA
8.3	GO	General Observation			MWL 10%
10.0	SD	Surface Damage		1	SRI S01
12.7	GO	General Observation			MWL 25%
26.0	GO	General Observation			MWL 5%
76.2	GO	General Observation			MWL 15%
86.8	GO	General Observation			MWL 5%
92.6	GO	General Observation			MWL 10%
95.1	SC	Service Connection	3		TFA
99.1	GO	General Observation			MWL 5%
123.9	GO	General Observation			MWL 10%
127.7	GO	General Observation			MWL 30%
131.6	GO	General Observation			MWL 40%
137.6	GO	General Observation			MWL 15%
145.6	GO	General Observation			MWL 10%
150.6	SC	Service Connection	9		TFA
152.1	GO	General Observation			MWL 5%
156.7	DP	Deposits	7 to 5	2	DAEJ
161.5	GO	General Observation			MWL 10%
167.6	GO	General Observation			MWL 5%
176.0	SC	Service Connection	3		TFA
205.4	SD	Surface Damage		1	SRI F01
206.4	IE	End Inspection			



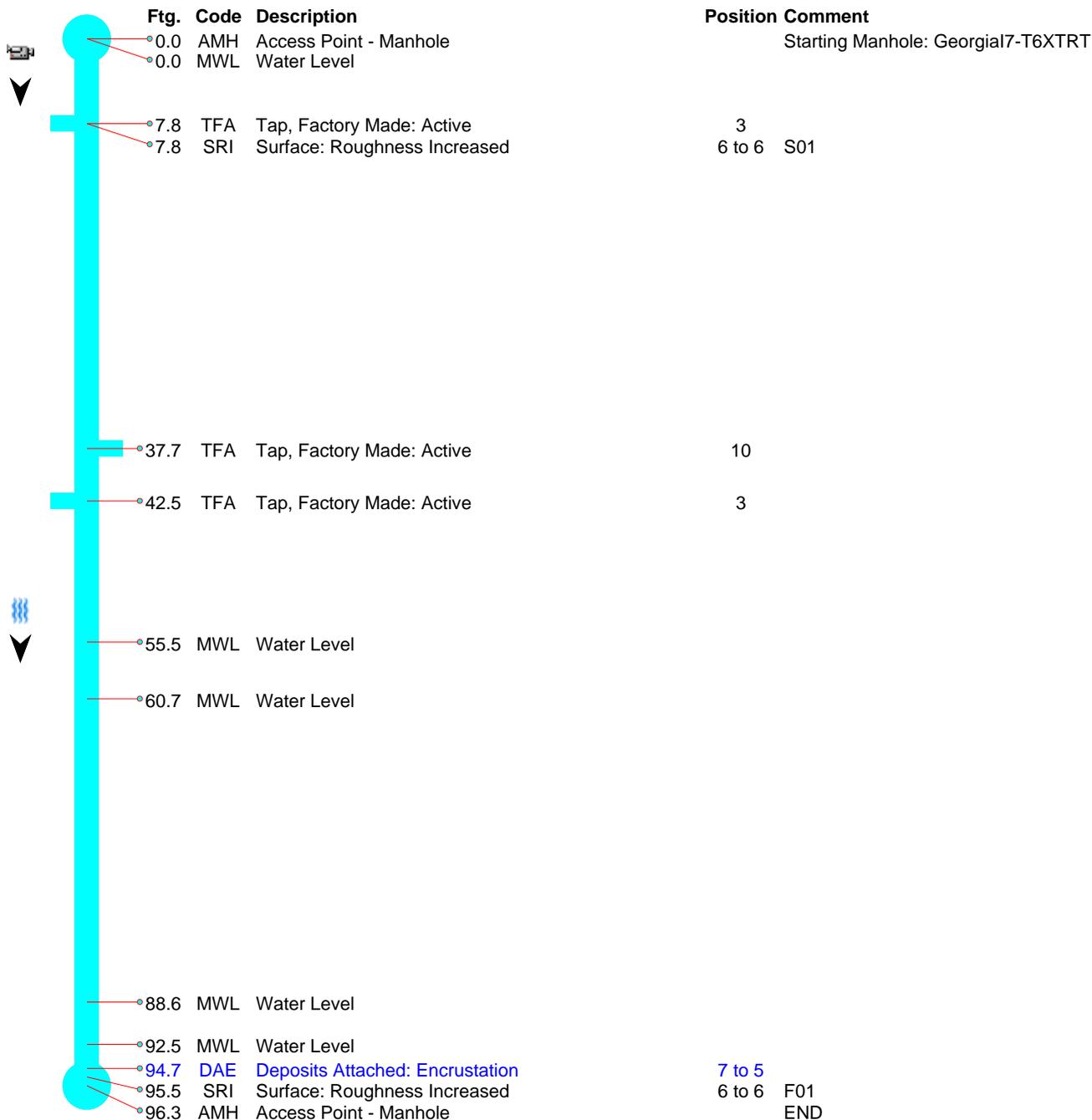
**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

Upstream MH	Downstream MH	Size	Material	Total Length	City
Georgial7-T6XTRT	I7-SH4THL	8	Concrete Segments (unbolted)	100	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	Georgia	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Downstream	Maintenance Related	Dry	07/20/2015	10:26	

**Additional Information**





Upstream MH	Downstream MH	Size	Material	Total Length	City
SWebsterJ8-HCK6GA	J8-FL42UY	8	Concrete Segments (unbolted)	519	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	SWebster	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Downstream	Maintenance Related	Dry	08/07/2015	07:21	

**Additional Information**

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Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: SWebsterJ8-HCK6GA
0.0	MWL	Water Level		
1.2	TFA	Tap, Factory Made: Active	9	
2.9	SRI	Surface: Roughness Increased	6 to 6	S01
15.2	SRI	Surface: Roughness Increased	6 to 6	F01
15.2	MMC	Material Change		CLAY TILE
15.2	FM	Fracture Multiple	7 to 5	
15.2	DAE	Deposits Attached: Encrustation	7 to 12	
16.0	TBI	Tap, Break-in / Hammer: Intruding	11	
18.0	FS	Fracture Spiral	2 to 5	
21.0	DAE	Deposits Attached: Encrustation	7 to 5	
21.0	CS	Crack Spiral	12 to 5	
29.8	DAE	Deposits Attached: Encrustation	7 to 5	DAE IN SOME PIPE
29.8	CS	Crack Spiral	7 to 5	CS IN SOME PIPE
77.8	TFC	Tap, Factory Made: Capped	2	
79.8	TFC	Tap, Factory Made: Capped	10	
111.0	MMC	Material Change		PVC
120.4	MMC	Material Change		CLAY TILE
126.2	TFC	Tap, Factory Made: Capped	2	
136.0	TBA	Tap, Break-in / Hammer: Active	2	
136.0	FM	Fracture Multiple	8 to 4	
181.7	TFC	Tap, Factory Made: Capped	2	
183.5	TFA	Tap, Factory Made: Active	12	
239.0	TFA	Tap, Factory Made: Active	2	
241.1	TFC	Tap, Factory Made: Capped	11	
276.9	MMC	Material Change		PVC
287.2	TFA	Tap, Factory Made: Active	11	
292.0	MMC	Material Change		CLAY TILE
293.4	TFC	Tap, Factory Made: Capped	2	
295.3	TFC	Tap, Factory Made: Capped	10	
344.6	TFB	Tap, Factory Made: Abandoned	2	TFB?
345.8	JSL	Joint Separated (open): Large		
346.5	TFC	Tap, Factory Made: Capped	11	
383.5	MMC	Material Change		PVC
395.9	MMC	Material Change		CLAY TILE
407.8	TFC	Tap, Factory Made: Capped	2	
407.8	DAE	Deposits Attached: Encrustation	3 to 5	
407.8	MSA	Survey Abandoned		CAN'T GET CAMERA BY DAE



**City of DePere**  
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Upstream MH	Downstream MH	Size	Material	Total Length	City
SWebster2J8-HCK6GA	J8-FL42UY	8	Clay Tile	519	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	SWebster	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Upstream	Maintenance Related	Dry	08/07/2015	08:40	

**Additional Information**  
 UPSTREAM

Ftg.	Code	Description	Position	Comment
102.3	MSA	Survey Abandoned		
102.3	DAE	Deposits Attached: Encrustation	3 to 5	
102.3	TFC	Tap, Factory Made: Capped	2	
101.4	CS	Crack Spiral	8 to 4	
80.5	CM	Crack Multiple	11 to 3	
65.4	TFC	Tap, Factory Made: Capped	11	
63.4	TFA	Tap, Factory Made: Active	2	
29.2	DAE	Deposits Attached: Encrustation	7 to 5	DAE IN SOME PIPE
20.4	CS	Crack Spiral	7 to 11	
7.8	JOM	Joint Offset (displaced): Medium		
0.0	MWL	Water Level		
0.0	AMH	Access Point - Manhole		

Starting Manhole: J8-FL42UY



**City of DePere**  
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Upstream MH	Downstream MH	Size	Material	Total Length	City
LewisJ8-0639CK	I8-YYQ9D1	12	Concrete Segments (unbolted)	156	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	Lewis	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Downstream	Maintenance Related	Dry	04/28/2021	12:50	

**Additional Information**

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: LewisJ8-0639CK
0.0	MWL	Water Level		
0.0	MMC	Material Change		PVC
5.5	MMC	Material Change		CONCRETE
5.5	SRI	Surface: Roughness Increased	6 to 6	SRI S01
5.5	MGO	General Observation		SMALL CRACKS IN SOME PIPE
8.7	TFC	Tap, Factory Made: Capped	9	POSSIBLE HOLE IN CAP
11.7	TFA	Tap, Factory Made: Active	3	ACTIVE?
42.4	MGO	General Observation		DAE IN SOME PIPE
49.2	MWL	Water Level		
53.2	TBI	Tap, Break-in / Hammer: Intruding	9	ACTIVE?
69.3	MWL	Water Level		
94.1	MWL	Water Level		
114.1	MWL	Water Level		
125.0	MWL	Water Level		
128.7	MWL	Water Level		
136.4	MWL	Water Level		
147.9	MMC	Material Change		PVC
147.9	SRI	Surface: Roughness Increased	6 to 6	SRI F01
148.6	JOM	Joint Offset (displaced): Medium		
152.2	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
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<b>Upstream MH</b> DriftwoodH7-NWEBHV	<b>Downstream MH</b> H7-P3XE6D	<b>Size</b> 8	<b>Material</b> Concrete Segments (unbolted)	<b>Total Length</b> 381	<b>City</b> City of DePere
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<b>Surveyor's Name</b> Daryl	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Driftwood	<b>Location Details</b>
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<b>Direction</b> Downstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 05/31/2018	<b>Time</b> 12:41	<b>Length Surveyed</b>
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**Additional Information**

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: DriftwoodH7-NWEBHV
0.0	MWL	Water Level		
0.0	SAV	Surface: Aggregate Visible	6 to 6	SAV S01
16.4	DAE	Deposits Attached: Encrustation	7 to 5	
55.3	DAE	Deposits Attached: Encrustation	7 to 5	
60.3	TFA	Tap, Factory Made: Active	11	ACTIVE?
60.3	DAE	Deposits Attached: Encrustation	7 to 10	
94.5	DAE	Deposits Attached: Encrustation	7 to 5	DAE IN SOME PIPE
104.7	MWL	Water Level		
119.2	TFA	Tap, Factory Made: Active	1	ACTIVE?
119.2	SAV	Surface: Aggregate Visible	6 to 6	SAV F01
119.2	MSA	Survey Abandoned		CAN'T GET CAMERA BY DEPOSITS



**City of DePere**  
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Upstream MH	Downstream MH	Size	Material	Total Length	City
Driftwood2H7-NWEBHV	H7-P3XE6D	8	Concrete Segments (unbolted)	381	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	Driftwood	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Upstream	Maintenance Related	Dry	05/31/2018	13:37	

Additional Information
UPSTREAM

Ftg.	Code	Description	Position	Comment
255.2	MSA	Survey Abandoned		END
255.2	SAV	Surface: Aggregate Visible	6 to 6	SAV F01
255.2	TFA	Tap, Factory Made: Active	11	ACTIVE?
253.7	MWL	Water Level		
247.1	TFA	Tap, Factory Made: Active	1	
246.4	RMB	Roots, Medium: Barrel	4 to 5	
241.5	MWL	Water Level		
169.2	TFA	Tap, Factory Made: Active	11	ROOTS IN LATERAL. ACTIVE?
133.5	MWL	Water Level		
129.0	MWL	Water Level		
106.1	TFA	Tap, Factory Made: Active	1	
90.7	TFA	Tap, Factory Made: Active	10	ROOTS IN LATERAL
61.6	RFJ	Roots, Fine: Joint	2 to 5	
61.6	RFJ	Roots, Fine: Joint	7 to 11	
52.3	MWL	Water Level		
47.6	MWL	Water Level		
35.1	DAE	Deposits Attached: Encrustation	7 to 5	DAE IN SOME PIPE
22.5	DAE	Deposits Attached: Encrustation	3 to 5	
19.2	DAE	Deposits Attached: Encrustation	1 to 5	
19.2	TFA	Tap, Factory Made: Active	1	ACTIVE?
12.1	DAE	Deposits Attached: Encrustation	7 to 5	
12.1	TFC	Tap, Factory Made: Capped	1	
8.2	TFA	Tap, Factory Made: Active	10	
0.3	DAE	Deposits Attached: Encrustation	7 to 5	
0.0	SAV	Surface: Aggregate Visible	6 to 6	SAV S01
0.0	MWL	Water Level		
0.0	AMH	Access Point - Manhole		Starting Manhole: H7-P3XE6D



Upstream MH	Downstream MH	Size	Material	Total Length	City
DriftwoodH7-P3XE6D	H7-QBGGU8	8	Concrete Segments (unbolted)	379	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	Driftwood	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Downstream	Maintenance Related	Dry	05/31/2018	09:43	

**Additional Information**

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: DriftwoodH7-P3XE6D
0.0	MWL	Water Level		
0.0	SAV	Surface: Aggregate Visible	6 to 6	SAV S01
1.8	DAE	Deposits Attached: Encrustation	7 to 9	
1.8	DAE	Deposits Attached: Encrustation	2 to 5	
6.7	TFA	Tap, Factory Made: Active	10	
16.9	MWL	Water Level		
35.0	MWL	Water Level		
63.3	TFA	Tap, Factory Made: Active	11	
67.8	TFA	Tap, Factory Made: Active	1	
81.7	DAE	Deposits Attached: Encrustation	1 to 5	
109.2	DAE	Deposits Attached: Encrustation	7 to 5	
117.5	DAE	Deposits Attached: Encrustation	7 to 5	
134.4	RFJ	Roots, Fine: Joint	7 to 10	
134.4	RFJ	Roots, Fine: Joint	1 to 5	
141.7	TFA	Tap, Factory Made: Active	11	ROOTS IN LATERAL
145.6	TFA	Tap, Factory Made: Active	1	ACTIVE?
145.6	DAE	Deposits Attached: Encrustation	3 to 5	
145.6	RFL	Roots, Fine: Lateral	2 to 5	
145.6	SAV	Surface: Aggregate Visible	6 to 6	SAV F01
145.6	MSA	Survey Abandoned		CAN'T GET CAMERA BY DEPOSITS



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Upstream MH	Downstream MH	Size	Material	Total Length	City
Driftwood2H7-P3XE6D	H7-QBGGU8	8	Concrete Segments (unbolted)	379	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	Driftwood	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Upstream	Maintenance Related	Dry	05/31/2018	11:39	

Additional Information
UPSTREAM

Ftg.	Code	Description	Position	Comment
228.3	MSA	Survey Abandoned		CAN'T GET CAMERA BY DEPOSITS
228.3	SAV	Surface: Aggregate Visible	6 to 6	SAV F01
228.3	TFA	Tap, Factory Made: Active	11	ACTIVE?
219.7	MWL	Water Level		
208.9	MWL	Water Level		
201.6	MWL	Water Level		
197.7	MWL	Water Level		
157.1	MWL	Water Level		
150.1	TFA	Tap, Factory Made: Active	2	
148.7	MWL	Water Level		
146.1	TFA	Tap, Factory Made: Active	11	
100.4	DAE	Deposits Attached: Encrustation	7 to 5	DAE IN SOME PIPE
98.4	MWL	Water Level		
94.1	MWL	Water Level		
72.2	TFA	Tap, Factory Made: Active	1	
68.2	TFA	Tap, Factory Made: Active	11	
53.3	DAE	Deposits Attached: Encrustation	7 to 5	
43.2	DAE	Deposits Attached: Encrustation	7 to 8	
43.2	MWL	Water Level		
39.1	MWL	Water Level		
29.9	MWL	Water Level		
25.9	MWL	Water Level		
0.3	DAE	Deposits Attached: Encrustation	7 to 5	
0.0	SAV	Surface: Aggregate Visible	6 to 6	SAV S01
0.0	MWL	Water Level		
0.0	AMH	Access Point - Manhole		Starting Manhole: H7-QBGGU8



Upstream MH	Downstream MH	Size	Material	Total Length	City
DriftwoodH7-QBGGU8	H7-RJNJJ5	8	Concrete Segments (unbolted)	383	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	Driftwood	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Downstream	Maintenance Related	Dry	06/19/2018	08:25	

**Additional Information**

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: DriftwoodH7-QBGGU8
0.0	MWL	Water Level		
0.0	SAV	Surface: Aggregate Visible	6 to 6	SAV S01
1.0	DAE	Deposits Attached: Encrustation	7 to 5	
8.1	TFA	Tap, Factory Made: Active	10	
9.5	DAE	Deposits Attached: Encrustation	1 to 4	
12.0	TFA	Tap, Factory Made: Active	1	
16.1	MWL	Water Level		
27.0	MWL	Water Level		
29.6	MWL	Water Level		
29.6	DAE	Deposits Attached: Encrustation	3 to 5	
37.9	DAE	Deposits Attached: Encrustation	7 to 5	DAE IN SOME PIPE
54.0	MWL	Water Level		
56.3	MWL	Water Level		
57.4	SAV	Surface: Aggregate Visible	6 to 6	SAV F01
57.4	MCU	Camera Underwater		
57.4	MSA	Survey Abandoned		CAMERA UNDERWATER



Upstream MH	Downstream MH	Size	Material	Total Length	City
Driftwood2H7-QBGGU8	H7-RJNJJ5	8	Concrete Segments (unbolted)	383	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	Driftwood	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Upstream	Maintenance Related	Dry	06/19/2018	09:07	

Additional Information
UPSTREAM

Ftg.	Code	Description	Position	Comment
	315.4	MSA Survey Abandoned		CAMERA UNDERWATER
	315.4	MCU Camera Underwater		
	315.4	SAV Surface: Aggregate Visible	6 to 6	SAV F01
	310.3	MWL Water Level		
	297.0	TFA Tap, Factory Made: Active	2	
	296.0	MWL Water Level		
	293.1	MWL Water Level		
	293.1	TFA Tap, Factory Made: Active	11	
	288.4	MWL Water Level		
	268.7	MWL Water Level		
	253.0	MWL Water Level		
	243.6	MWL Water Level		
	239.7	ID Infiltration - Dripper	12 to 1	
	239.7	DAE Deposits Attached: Encrustation	7 to 5	
	214.9	TFA Tap, Factory Made: Active	2	DEPOSITS IN LATERAL
	214.2	MWL Water Level		
	199.3	TFA Tap, Factory Made: Active	10	
	197.9	MWL Water Level		
	145.5	MWL Water Level		
	139.5	MWL Water Level		
	121.2	MWL Water Level		
	109.5	RFJ Roots, Fine: Joint	9 to 1	
	109.5	TFA Tap, Factory Made: Active	2	
	103.7	MWL Water Level		
	88.9	MWL Water Level		
	57.7	MWL Water Level		
	52.9	MWL Water Level		
	43.2	MWL Water Level		
	33.0	MWL Water Level		
	28.1	DAE Deposits Attached: Encrustation	7 to 5	DAE IN SOME PIPE
	20.3	MWL Water Level		
	6.1	DAE Deposits Attached: Encrustation	8 to 12	
	6.1	MWL Water Level		
	6.1	FL Fracture Longitudinal	12	
	6.1	RPP Point Repair - Patch Repair	11 to 1	PATCH
	0.0	SAV Surface: Aggregate Visible	6 to 6	SAV S01
	0.0	MWL Water Level		
	0.0	AMH Access Point - Manhole		Starting Manhole: H7-RJNJJ5



**City of DePere**  
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 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> SuburbanDrH7-ELGJHN	<b>Downstream MH</b> H7-EL8LTY	<b>Date</b> 08-16-2013	<b>Time</b> 8:38 AM
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<b>Surveyor</b> DARYL	<b>Street</b> SuburbanDr	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 12	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 304
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<b>Comments</b> UPSTREAM	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 300.6
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SRI S01
4.0	GO	General Observation			MWL 10%
8.1	GO	General Observation			MWL 25%
32.3	SC	Service Connection	1		TFA
40.8	DP	Deposits	7 to 9	1	DAEJ
50.2	DP	Deposits	7 to 12	1	DAEJ
58.0	DP	Deposits		1	DAEJ AT MOST JOINTS NEXT 100'
91.6	GO	General Observation			MWL 10%
104.8	SC	Service Connection	1		TFA
108.4	GO	General Observation			MWL 25%
129.5	GO	General Observation			MWL 15%
157.7	SD	Surface Damage		1	SRI F01
157.7	SD	Surface Damage		1	SAV S02
157.7	GO	General Observation			MWL 5%
197.5	GO	General Observation			MWL 10%
204.2	SC	Service Connection	12		TFA
216.9	GO	General Observation			MWL 5%
297.9	DP	Deposits	7 to 5	1	DAEJ
297.9	SD	Surface Damage		1	SAV F02
297.9	GO	General Observation			MWL 0%
300.6	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> SuburbanDrH7-EL8LTY	<b>Downstream MH</b> H7-EKTOHE	<b>Date</b> 08-16-2013	<b>Time</b> 9:14 AM
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<b>Surveyor</b> DARYL	<b>Street</b> SuburbanDr	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 15	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 344
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 344.1
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SAV S01
6.1	DP	Deposits	7 to 8	1	DAEJ
6.4	DP	Deposits	3 to 5	1	DAEJ
13.9	DP	Deposits		1	DAEJ AT MOST JOINTS
18.2	I	Infiltration	12	1	ID
38.6	SC	Service Connection	10		TFA
72.2	SC	Service Connection	2		TFA
91.0	GO	General Observation			MWL 10%
112.2	SC	Service Connection	10		TFA
143.5	GO	General Observation			MWL 5%
149.5	SC	Service Connection	2		TFA
159.8	GO	General Observation			MWL 10%
173.7	SC	Service Connection	10		TFA
173.7	DP	Deposits	7 to 10	1	DAE
189.4	GO	General Observation			MWL 5%
205.0	I	Infiltration	11 to 1	1	ID
226.4	SC	Service Connection	2		TFA
255.2	SC	Service Connection	10		TFA
255.2	DP	Deposits	7 to 10	1	DAE
255.2	GO	General Observation			MWL 10%
295.5	GO	General Observation			MWL 15%
307.9	I	Infiltration	12	1	ID
309.2	GO	General Observation			MWL 5%
313.3	SC	Service Connection	2		TFA
316.9	SC	Service Connection	10		TFA
316.9	DP	Deposits	7 to 10	2	DAE
320.1	GO	General Observation			MWL 10%
327.9	I	Infiltration	12	1	ID
337.7	GO	General Observation			MWL 5%
341.9	SD	Surface Damage		1	SAV F01
344.1	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> SuburbanDrH7- EKTOHE	<b>Downstream MH</b> H7-EKGQ35	<b>Date</b> 08-16-2013	<b>Time</b> 10:04 AM
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<b>Surveyor</b> DARYL	<b>Street</b> SuburbanDr	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 15	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 208
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 207.3
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SAV S01
17.4	DP	Deposits	7 to 8	1	DAEJ
17.4	DP	Deposits	2 to 5	1	DAEJ
21.2	DP	Deposits	7 to 5	1	DAEJ
21.2	I	Infiltration	12 to 2	1	ID
25.1	DP	Deposits		1	DAEJ AT MOST JOINTS
29.7	I	Infiltration	11 to 1	1	ID
34.8	SC	Service Connection	11		TFA?
34.8	DP	Deposits	7 to 11	2	DAE
39.1	SC	Service Connection	1		TFA
96.6	SC	Service Connection	10		TFA?
96.6	DP	Deposits	7 to 10	2	DAE
100.4	SC	Service Connection	2		TFA
132.3	I	Infiltration	12	1	ID
136.6	GO	General Observation			MWL 10%
145.3	GO	General Observation			MWL 5%
152.8	SC	Service Connection	11		TFA?
152.8	DP	Deposits	7 to 11	1	DAE
181.4	GO	General Observation			MWL 10%
193.6	SC	Service Connection	2		TFA
198.8	SC	Service Connection	11		TFA?
205.6	SD	Surface Damage		1	SAV F01
207.3	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> SuburbanDrH7-EKGQ35	<b>Downstream MH</b> H7-EKJQWZ	<b>Date</b> 08-16-2013	<b>Time</b> 10:24 AM
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<b>Surveyor</b> DARYL	<b>Street</b> SuburbanDr	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 15	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 107
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 106.9
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SAV S01
7.9	DP	Deposits	7 to 5	1	DAEJ
16.4	DP	Deposits	7 to 5	1	DAEJ
22.5	GO	General Observation			MWL 10%
25.2	DP	Deposits	7 to 5	1	DAEJ
46.0	SC	Service Connection	2		TFA
68.1	SC	Service Connection	10		TFA
72.2	GO	General Observation			MWL 10%
82.9	DP	Deposits	7 to 5	1	DAEJ
91.4	DP	Deposits		2	DAEJ AT SOME JOINTS
101.2	GO	General Observation			MWL 5%
104.1	SD	Surface Damage		1	SAV F01
106.9	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> SuburbanDrH7- EKJQWZ	<b>Downstream MH</b> H7-EK1TFR	<b>Date</b> 08-16-2013	<b>Time</b> 11:47 AM
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<b>Surveyor</b> DARYL	<b>Street</b> SuburbanDr	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 15	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 327
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 328.2
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SAV S01
2.6	GO	General Observation			MWL 10%
10.4	GO	General Observation			MWL 5%
15.0	SC	Service Connection	1		TFA
19.1	SC	Service Connection	11		TFA
35.2	DP	Deposits	7 to 9	1	DAEJ
43.1	DP	Deposits	12 to 5	1	DAEJ
47.1	DP	Deposits		1	DAEJ AT SOME JOINTS
89.6	SC	Service Connection	10		TFA
93.5	SC	Service Connection	1		TFA
127.3	SC	Service Connection	12		TFA
139.1	SC	Service Connection	10		TFA
145.7	GO	General Observation			MWL 10%
172.2	SC	Service Connection	2		TFA
182.2	GO	General Observation			MWL 5%
199.6	SC	Service Connection	11		TFA
245.7	GO	General Observation			MWL 10%
265.1	SC	Service Connection	1		TFA
278.3	SC	Service Connection	11		TFA
300.6	GO	General Observation			MWL 15%
323.0	GO	General Observation			MWL 5%
325.6	SD	Surface Damage		1	SAV F01
328.2	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> SuburbanDrH7-EK1TFR	<b>Downstream MH</b> H7-EJPVO5	<b>Date</b> 08-16-2013	<b>Time</b> 12:10 PM
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<b>Surveyor</b> DARYL	<b>Street</b> SuburbanDr	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 15	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 289
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 290.5
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SAV S01
9.4	DP	Deposits	7 to 5	1	DAEJ
12.7	DP	Deposits	7 to 5	1	DAEJ AT SOME JOINTS
31.6	GO	General Observation			MWL 10%
59.1	GO	General Observation			MWL 5%
66.4	SC	Service Connection	11		TFA
70.2	SC	Service Connection	1		TFA
108.4	DP	Deposits	3 to 5	1	DAE
117.3	GO	General Observation			MWL 10%
124.5	SC	Service Connection	10		TFA
145.4	SC	Service Connection	1		TFA
156.9	GO	General Observation			MWL 5%
168.3	GO	General Observation			MWL 10%
182.1	GO	General Observation			MWL 5%
184.6	SC	Service Connection	10		TFA
217.1	SC	Service Connection	2		TFA
232.0	GO	General Observation			MWL 10%
250.0	SC	Service Connection	11		TFA
288.7	SD	Surface Damage		1	SAV F01
290.5	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> SuburbanDrH7-EJPVO5	<b>Downstream MH</b> H7-EJAXWS	<b>Date</b> 08-19-2013	<b>Time</b> 11:58 AM
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<b>Surveyor</b> DARYL	<b>Street</b> SuburbanDr	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 15	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 290
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 289.2
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SAV S01
17.3	GO	General Observation			MWL 10%
21.1	SC	Service Connection	10		TFA
40.3	DP	Deposits	7 to 11	1	DAEJ
44.8	DP	Deposits	7 to 11	1	DAEJ
48.9	DP	Deposits	1 to 5	1	DAEJ
48.9	GO	General Observation			MWL 15%
63.0	GO	General Observation			MWL 5%
70.2	SC	Service Connection	1		TFA
74.4	SC	Service Connection	11		TFA
102.2	DP	Deposits	7 to 5	1	DAEJ
106.2	DP	Deposits	7 to 5	1	DAEJ
132.7	SC	Service Connection	10		TFA
136.9	SC	Service Connection	1		TFA
136.9	GO	General Observation			MWL 10%
143.5	DP	Deposits	7 to 5	1	DAEJ
146.1	GO	General Observation			MWL 5%
175.7	GO	General Observation			MWL 10%
183.6	DP	Deposits	1 to 4	1	DAEJ
197.0	GO	General Observation			MWL 5%
208.8	SC	Service Connection	11		TFA
213.1	SC	Service Connection	1		TFA
240.9	GO	General Observation			MWL 10%
264.9	GO	General Observation			MWL 5%
264.9	DP	Deposits	1 to 5	1	DAEJ
270.4	SC	Service Connection	10		TFA
279.4	GO	General Observation			MWL 10%
286.7	SD	Surface Damage		1	SAV F01
289.2	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> SuburbanDrH7-EJAXWS	<b>Downstream MH</b> H8-EJ0056	<b>Date</b> 08-06-2013	<b>Time</b> 8:57 AM
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<b>Surveyor</b> DARYL	<b>Street</b> SuburbanDr	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 15	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 289
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 289.1
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 20%
0.0	SD	Surface Damage		1	SRI S01
13.1	GO	General Observation			MWL 10%
26.0	DP	Deposits	7 to 8	1	DAEJ
26.0	DP	Deposits	4 to 5	1	DAEJ
41.2	GO	General Observation			MWL 15%
47.7	GO	General Observation			MWL 20%
59.5	GO	General Observation			MWL 10%
68.9	SC	Service Connection	2		TFA
72.7	SC	Service Connection	11		TFA
98.4	GO	General Observation			MWL 15%
142.0	GO	General Observation			MWL 5%
146.4	SC	Service Connection	2		TFA
150.2	SC	Service Connection	11		TFA
156.4	GO	General Observation			MWL 10%
175.8	GO	General Observation			MWL 20%
186.0	GO	General Observation			MWL 25%
193.5	DP	Deposits	1 to 4	1	DAEJ
216.4	GO	General Observation			MWL 15%
218.5	SC	Service Connection	10		TFA
222.9	SC	Service Connection	2		TFA
227.7	GO	General Observation			MWL 20%
235.4	GO	General Observation			MWL 25%
253.7	GO	General Observation			MWL 30%
253.7	DP	Deposits		2	DAEJ AT SOME JOINTS
286.6	SD	Surface Damage		1	SRI F01
289.1	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> SuburbanDrH8-EJ0056	<b>Downstream MH</b> H8-EKQ2DL	<b>Date</b> 08-19-2013	<b>Time</b> 12:46 PM
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<b>Surveyor</b> DARYL	<b>Street</b> SuburbanDr	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 15	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 290
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 290.6
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SAV S01
15.8	SC	Service Connection	11		TFA
15.8	GO	General Observation			MWL 10%
47.5	DP	Deposits	7 to 12	1	DAEJ
47.5	GO	General Observation			MWL 5%
61.0	DP	Deposits	7 to 5	1	DAEJ AT SOME JOINTS
68.8	SC	Service Connection	1		TFA
74.9	SC	Service Connection	11		TFA
80.0	GO	General Observation			MWL 10%
92.8	GO	General Observation			MWL 5%
99.8	GO	General Observation			MWL 10%
114.4	I	Infiltration	12	1	ID
114.4	GO	General Observation			MWL 5%
142.6	GO	General Observation			MWL 10%
145.4	SC	Service Connection	11		TFA
145.4	DP	Deposits	8 to 10	1	DAE
145.4	GO	General Observation			MWL 5%
147.6	SC	Service Connection	1		TFA
169.1	GO	General Observation			MWL 10%
182.1	GO	General Observation			MWL 5%
211.2	SC	Service Connection	11		TFA
215.5	SC	Service Connection	1		TFA
242.3	GO	General Observation			MWL 10%
265.6	GO	General Observation			MWL 5%
287.7	SD	Surface Damage		1	SAV F01
290.6	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> SuburbanDrH8-EKQ2DL	<b>Downstream MH</b> H8-EN55D7	<b>Date</b> 08-19-2013	<b>Time</b> 1:08 PM
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<b>Surveyor</b> DARYL	<b>Street</b> SuburbanDr	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 15	<b>Material</b> Concrete segments (unbolted)	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 387
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<b>Comments</b> 18"?	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 384.6
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
0.0	GO	General Observation			MWL 5%
0.0	SD	Surface Damage		1	SAV S01
42.5	DP	Deposits	7 to 5	1	DAEJ
54.8	DP	Deposits	7 to 9	1	DAEJ
58.5	DP	Deposits	7 to 5	1	DAEJ AT SOME JOINTS
59.9	SC	Service Connection	11		TFA
64.6	SC	Service Connection	1		TFA
117.3	SC	Service Connection	11		TFA
121.6	SC	Service Connection	1		TFA
183.4	SC	Service Connection	11		TFA
187.8	SC	Service Connection	2		TFA
251.8	SC	Service Connection	11		TFA
254.2	GO	General Observation			MWL 10%
272.2	SC	Service Connection	1		TFA
272.2	DP	Deposits	1 to 5	1	DAE
274.3	GO	General Observation			MWL 15%
297.1	GO	General Observation			MWL 20%
301.4	GO	General Observation			MWL 25%
384.6	SD	Surface Damage		1	SAV F01
384.6	IE	End Inspection			



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

Upstream MH	Downstream MH	Size	Material	Total Length	City
RedMapleG5-SRQVZ7	G5-UN3WFS	8	Concrete Segments (unbolted)	250	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	RedMaple	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Downstream	Maintenance Related	Dry	11/29/2022	10:18	

**Additional Information**

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Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: RedMapleG5-SRQVZ7
0.0	MWL	Water Level		
0.0	SRI	Surface: Roughness Increased	6 to 6	SRI S01
1.5	DAE	Deposits Attached: Encrustation	7 to 5	
15.8	DAE	Deposits Attached: Encrustation	7 to 11	
32.2	MWL	Water Level		
43.3	MWL	Water Level		
69.6	DAE	Deposits Attached: Encrustation	9 to 3	
69.6	ID	Infiltration - Dripper	12	
104.6	TFA	Tap, Factory Made: Active	2	
152.6	MWL	Water Level		
184.8	MWL	Water Level		
203.8	DAE	Deposits Attached: Encrustation	7 to 5	
208.7	DAE	Deposits Attached: Encrustation	2 to 5	
218.6	DAE	Deposits Attached: Encrustation	2 to 5	
228.7	IW	Infiltration - Weeper	1 to 5	
245.9	SRI	Surface: Roughness Increased	6 to 6	SRI F01
247.4	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

Upstream MH	Downstream MH	Size	Material	Total Length	City
RedMapleG5-UN3WFS	G5-WBEX9B	8	Concrete Segments (unbolted)	242	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	RedMaple	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Downstream	Maintenance Related	Dry	11/29/2022	12:01	

**Additional Information**

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: RedMapleG5-UN3WFS
0.0	MWL	Water Level		
0.8	DAE	Deposits Attached: Encrustation	7 to 5	
0.8	ID	Infiltration - Dripper	11 to 12	
7.4	DAE	Deposits Attached: Encrustation	7 to 5	
7.4	ID	Infiltration - Dripper	12 to 1	
15.3	SRI	Surface: Roughness Increased	6 to 6	SRI S01
17.6	DAE	Deposits Attached: Encrustation	7 to 1	
20.2	MWL	Water Level		
26.8	MWL	Water Level		
32.7	DAE	Deposits Attached: Encrustation	10 to 5	
87.5	DAE	Deposits Attached: Encrustation	7 to 9	
102.6	DAE	Deposits Attached: Encrustation	7 to 5	
114.6	MWL	Water Level		
118.4	SRI	Surface: Roughness Increased	6 to 6	SRI F01
118.4	MSA	Survey Abandoned		CAN'T GET CAMERA DOWN PIPE



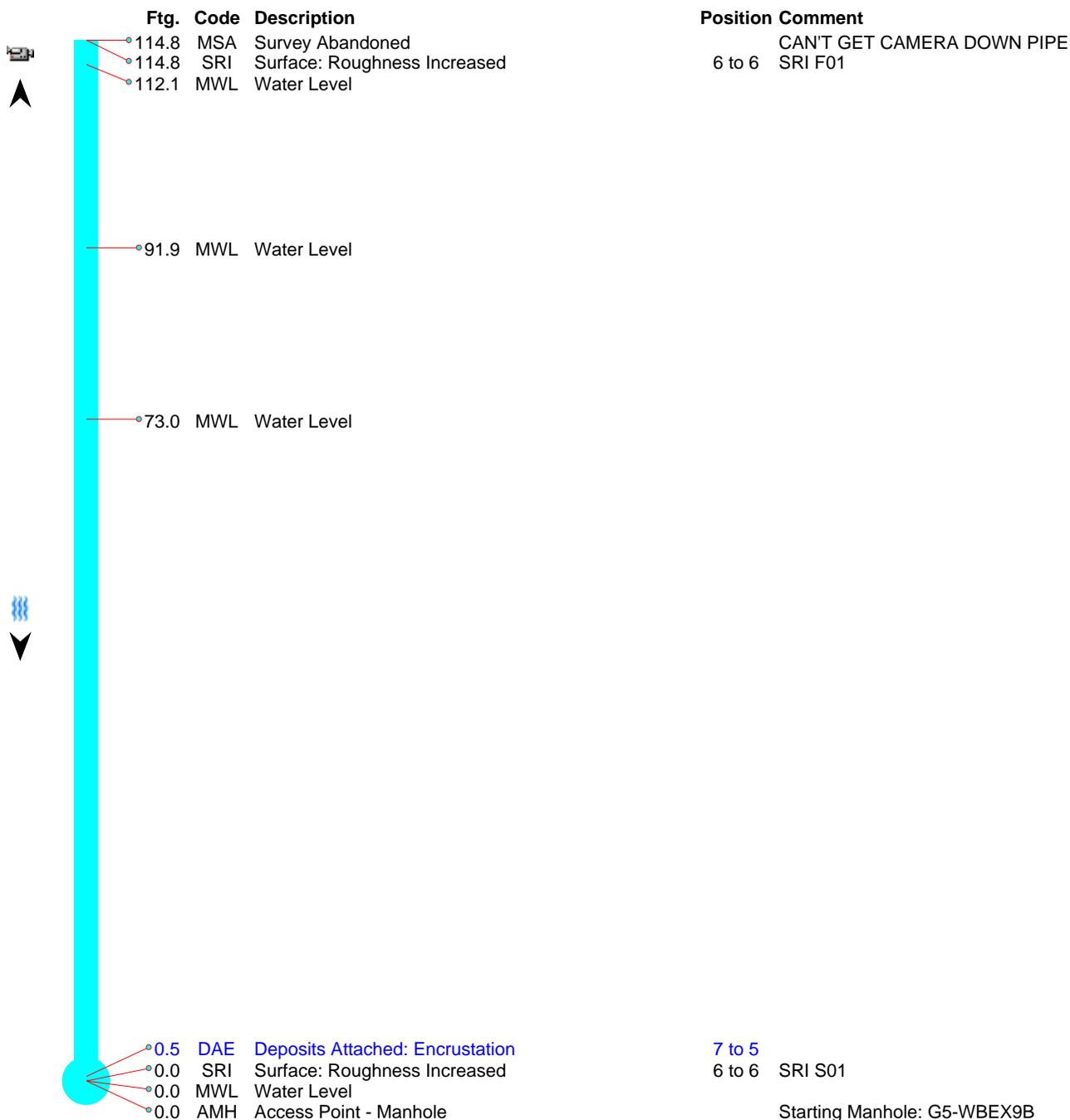
**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

Upstream MH	Downstream MH	Size	Material	Total Length	City
RedMaple2G5-UN3WFS	G5-WBEX9B	8	Concrete Segments (unbolted)	242	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	RedMaple	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Upstream	Maintenance Related	Dry	11/29/2022	13:12	

**Additional Information**  
 UPSTREAM





**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

Upstream MH	Downstream MH	Size	Material	Total Length	City
RedMapleG5-WBEX9B	G5-XSAYD5	10	Concrete Segments (unbolted)	238	City of DePere

Surveyor's Name	Certificate Number	Street Address	Location Details
Daryl	U-312-14702	RedMaple	

Direction	Purpose	Weather	Date	Time	Length Surveyed
Downstream	Maintenance Related	Dry	11/29/2022	13:57	

**Additional Information**

Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: RedMapleG5-WBEX9B
0.0	MWL	Water Level		
1.6	DAE	Deposits Attached: Encrustation	7 to 11	
2.5	CL	Crack Longitudinal	12	
12.9	SRI	Surface: Roughness Increased	6 to 6	SRI S01
52.0	MWL	Water Level		
63.0	MWL	Water Level		
81.7	MWL	Water Level		
83.8	DAE	Deposits Attached: Encrustation	7 to 1	
90.6	MWL	Water Level		
158.7	MWL	Water Level		
164.0	MWL	Water Level		
164.0	DAE	Deposits Attached: Encrustation	1 to 5	
169.0	DAE	Deposits Attached: Encrustation	1 to 5	
170.6	DAE	Deposits Attached: Encrustation	7 to 5	
179.1	MWL	Water Level		
226.2	MWL	Water Level		
227.5	SRI	Surface: Roughness Increased	6 to 6	SRI F01
228.8	MMC	Material Change		PVC
231.7	MMC	Material Change		CONCRETE
231.7	MWL	Water Level		
234.8	AMH	Access Point - Manhole		END



**City of DePere**  
 925 South Sixth Street  
 DePere, WI 54115-1199  
 PH: 920-339-4062

<b>Owner</b> City of DePere	<b>Customer</b> ENGINEERING	<b>Upstream MH</b> Pleasant17-DY6T2Z	<b>Downstream MH</b> I7-BWDU60	<b>Date</b> 08-20-2014	<b>Time</b> 8:45 AM
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<b>Surveyor</b> DARYL	<b>Street</b> Pleasant	<b>City</b> City of DePere	<b>Weather</b> Dry
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<b>Size</b> 8	<b>Material</b> Clay Tile	<b>Sewer Use</b> Sanitary	<b>Purpose</b> Maintenance Related	<b>Length</b> 301
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<b>Comments</b>	<b>Pre-Cleaning</b> Jetting	<b>(TV'd)</b> 294.8
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Ftg.	Code	Description	Position	Severity	Comment
0.0	IB	Begin Inspection			
1.8	SC	Service Connection	9		TFC
1.8	GO	General Observation			MWL 10%
3.9	SC	Service Connection	3		TFC
8.1	GO	General Observation			MWL 5%
13.4	GO	General Observation			MWL 10%
24.5	GO	General Observation			MWL 25%
27.7	SC	Service Connection	9		TFA
31.8	SC	Service Connection	3		TFA?
38.5	GO	General Observation			MWL 5%
43.1	R	Roots	8 to 4	1	RFJ
45.2	C	Crack	1 to 3	1	CS
54.7	GO	General Observation			MWL 15%
59.4	R	Roots	11 to 5	2	RFJ
59.4	I	Infiltration	11 to 1	1	ID
61.3	R	Roots	8 to 4	1	RFJ
61.3	I	Infiltration	11 to 1	1	ID
67.6	R	Roots	7 to 5	1	RFJ
67.6	GO	General Observation			MWL 5%
69.3	R	Roots	11 to 3	2	RFJ
71.1	GO	General Observation			MWL 10%
73.5	R	Roots		1	RFJ AT SOME JOINTS NEXT 15'
74.4	SC	Service Connection	9		TFA
77.7	GO	General Observation			MWL 5%
94.3	SC	Service Connection	3		TFA?
103.7	DP	Deposits		1	DAEJ AT SOME JOINTS
144.4	SC	Service Connection	9		TFC
164.5	SC	Service Connection	3		TFC
168.2	SC	Service Connection	3		TBAI
216.9	SC	Service Connection	10		TBAI
226.4	SC	Service Connection	9		TFC
232.4	SC	Service Connection	3		TFC
258.1	SC	Service Connection	3		TBBI?
260.9	SC	Service Connection	3		TBBI?
263.3	GO	General Observation			MWL 10%
266.0	GO	General Observation			MWL 25%
269.9	GO	General Observation			MWL 30%
273.3	GO	General Observation			MWL 10%
275.0	GO	General Observation			MWL 5%
281.7	GO	General Observation			MWL 10%
287.6	GO	General Observation			MWL 5%
294.1	GO	General Observation			MMC PVC
294.8	IE	End Inspection			



<b>Upstream MH</b> RuskJ8-U06CSU	<b>Downstream MH</b> J8-WC5BO2	<b>Size</b> 8	<b>Material</b> Concrete Segments (unbolted)	<b>Total Length</b> 336	<b>City</b> City of DePere
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<b>Surveyor's Name</b> Daryl	<b>Certificate Number</b> U-312-14702	<b>Street Address</b> Rusk	<b>Location Details</b>
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<b>Direction</b> Downstream	<b>Purpose</b> Maintenance Related	<b>Weather</b> Dry	<b>Date</b> 09/10/2015	<b>Time</b> 11:39	<b>Length Surveyed</b>
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<b>Additional Information</b> 8" NOT 10"?
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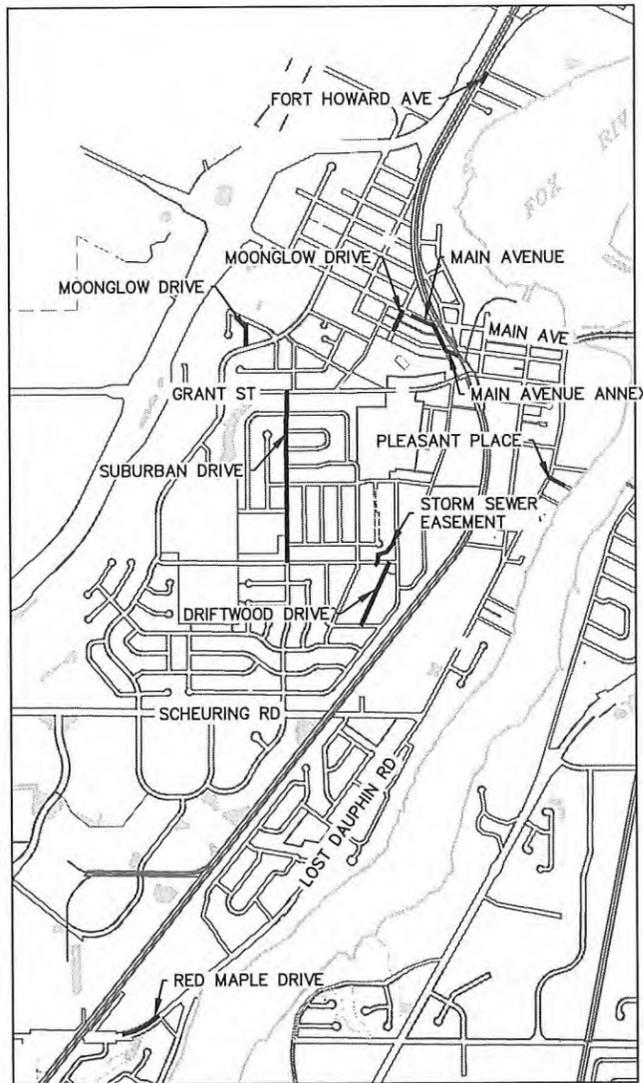
Ftg.	Code	Description	Position	Comment
0.0	AMH	Access Point - Manhole		Starting Manhole: RuskJ8-U06CSU
0.0	MWL	Water Level		
0.0	SRI	Surface: Roughness Increased	6 to 6	S01
1.1	DAE	Deposits Attached: Encrustation	7 to 5	
27.4	TFA	Tap, Factory Made: Active	10	
57.1	TFA	Tap, Factory Made: Active	2	
95.9	MWL	Water Level		
109.3	MWL	Water Level		
132.4	TFA	Tap, Factory Made: Active	10	
137.4	MWL	Water Level		
137.4	TFA	Tap, Factory Made: Active	2	
141.7	MWL	Water Level		
199.0	DAE	Deposits Attached: Encrustation	1 to 5	
208.9	DAE	Deposits Attached: Encrustation	7 to 5	
215.3	TFA	Tap, Factory Made: Active	2	
219.3	TFA	Tap, Factory Made: Active	10	
232.1	DAE	Deposits Attached: Encrustation	7 to 11	
234.9	MWL	Water Level		
237.0	DAE	Deposits Attached: Encrustation	7 to 5	
240.7	MWL	Water Level		
247.0	DAE	Deposits Attached: Encrustation	12 to 5	
276.9	DAE	Deposits Attached: Encrustation	7 to 5	
287.2	DAE	Deposits Attached: Encrustation	7 to 11	
298.3	TFA	Tap, Factory Made: Active	2	
302.7	TFA	Tap, Factory Made: Active	11	
329.8	DAE	Deposits Attached: Encrustation	7 to 5	
329.8	SRI	Surface: Roughness Increased	6 to 6	F01
329.8	ID	Infiltration - Dripper	11 to 1	
330.4	AMH	Access Point - Manhole		END

# PROJECT# 23-03 SEWER LINING

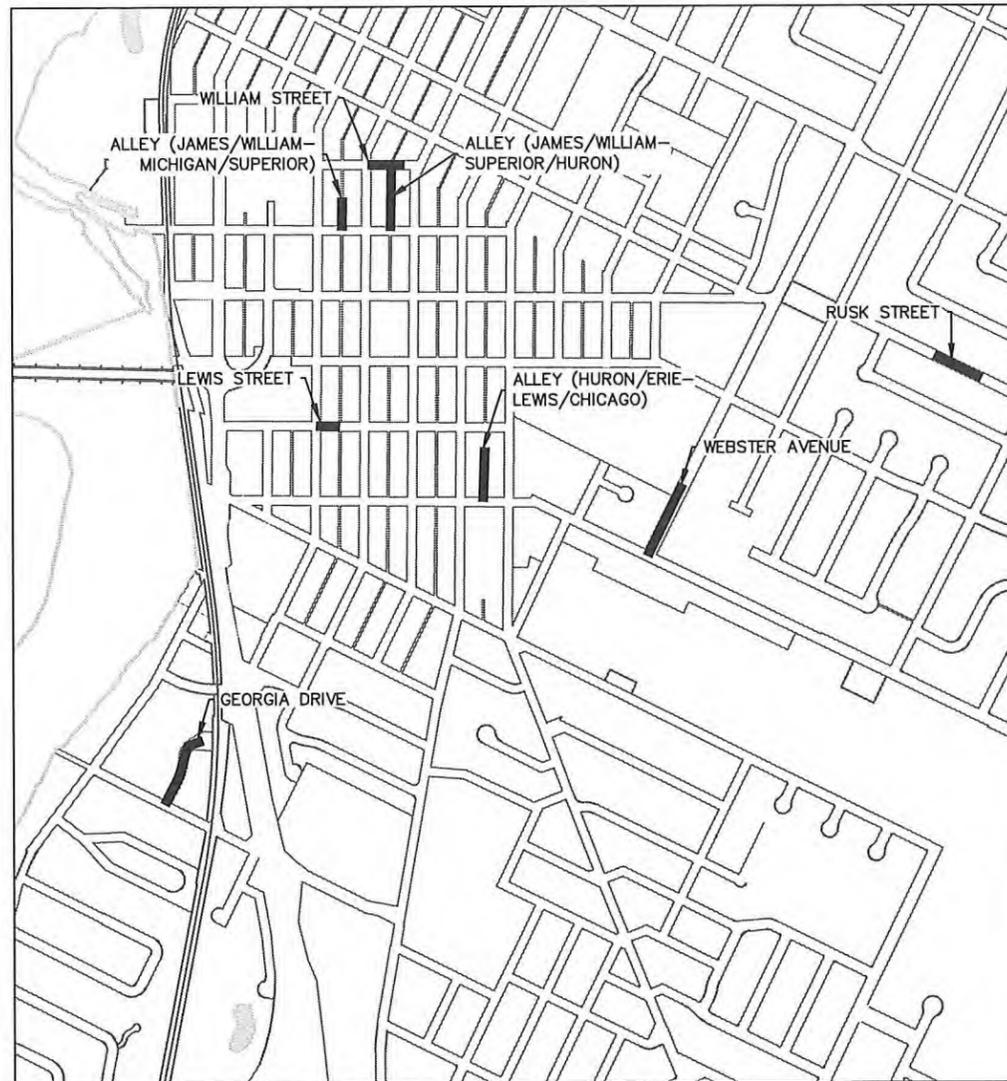
CITY OF DE PERE



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



WEST SIDE LOCATION MAP



EAST SIDE LOCATION MAP

SITE LOCATION MAP  
N.T.S.

SHEET NO.	DESCRIPTION
G001	TITLE SHEET
G002	STANDARD ABBREVIATION & SYMBOLS
C101	STORM SEWER EASEMENT PLAN AND PROFILE SHEET
C102	S SEVENTH PLAN AND PROFILE SHEET
C103	MAIN AVENUE PLAN AND PROFILE SHEET
C104	MAIN AVENUE ANNEX PLAN AND PROFILE SHEET
C105	WILLIAM STREET PLAN AND PROFILE SHEET
C106	ALLEY (JAMES/WILLIAM-SUPERIOR/HURON) PLAN AND PROFILE SHEET
C107	ALLEY (JAMES/WILLIAM-MICHIGAN/SUPERIOR) PLAN AND PROFILE SHEET
C108	ALLEY (HURON/ERIE-LEWIS/CHICAGO) PLAN AND PROFILE SHEET
C109	FORT HOWARD AVENUE PLAN AND PROFILE SHEET
C110	MOONGLOW DRIVE PLAN AND PROFILE SHEET
C111	GEORGIA DRIVE PLAN AND PROFILE SHEET
C112	WEBSTER AVENUE PLAN AND PROFILE SHEET
C113	LEWIS STREET PLAN AND PROFILE SHEET
C114-C115	DRIFTWOOD DRIVE PLAN AND PROFILE SHEET
C116-C120	SUBURBAN DRIVE PLAN AND PROFILE SHEET
C121-C122	RED MAPLE DRIVE PLAN AND PROFILE SHEET
C123	PLEASANT PLACE PLAN AND PROFILE SHEET
C124	RUSK STREET PLAN AND PROFILE SHEET
C401-C402	TRAFFIC CONTROL PLAN SHEETS
C403-C404	TRAFFIC CONTROL DETAILS
C405	OVERALL SITE LAYOUT FOR STORM SEWER LINING
C406-C408	SEWER LINING BASIN ACREAGE

CITY OF DE PERE  
BOARD OF PUBLIC WORKS

2/6/23 DATE CITY ENGINEER *E.P. Rakers*  
 2/8/23 DATE CITY ADMINISTRATOR *Kevin M. DePoe*  
 2/8/23 DATE MAYOR *Dr. J. Buehl*

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
BLVD	BOULEVARD	OBLIT	OBLITERATE
BLDG	BUILDING	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 SYMBOLOGY

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:

- ALL ELEVATIONS ARE REFERENCED TO NAVD 88.
- 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.
- 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.
- 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 SYMBOLOGY

DESCRIPTION	SYMBOL	
	PLAN	PROFILE
EXISTING SANITARY SEWER LINE		(SIZE AND MATERIAL) San
PROPOSED SANITARY SEWER LINE		100'-8" PVC SAN San
EXISTING STORM SEWER LINE		(SIZE AND MATERIAL) ST
PROPOSED STORM SEWER LINE		100'-8" PVC STM ST
EXISTING WATER MAIN LINE		(SIZE AND MATERIAL) W
PROPOSED WATER MAIN LINE		100'-8" PVC WM (TEE-BEND) W
EXISTING ELECTRICAL LINE		E
EXISTING GAS MAIN LINE		G
EXISTING TELEPHONE LINE		T
EXISTING CABLE TV LINE		TV
EXISTING SANITARY LATERAL		San
EXISTING WATER SERVICE		w
RIGHT OF WAY		ROW
PROPERTY LINE		PL
EASEMENT		ESM
SILT FENCE EROSION CONTROL		
EXISTING FIBER OPTIC		FO
EXISTING MAJOR CONTOUR		615
EXISTING MINOR CONTOUR		612
PROPOSED MAJOR CONTOUR		615
PROPOSED MINOR CONTOUR		612

### PROFILE

EXISTING SANITARY SEWER LINE		(SIZE AND MATERIAL)
PROPOSED SANITARY SEWER LINE		100'-8" PVC SAN @ 0.40%
EXISTING STORM SEWER LINE		(SIZE AND MATERIAL)
PROPOSED STORM SEWER LINE		100'-8" PVC STM @ 1.0%
EXISTING WATER MAIN LINE		(SIZE AND MATERIAL)
PROPOSED WATER MAIN LINE		PROPOSE 8" PVC WM

### 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

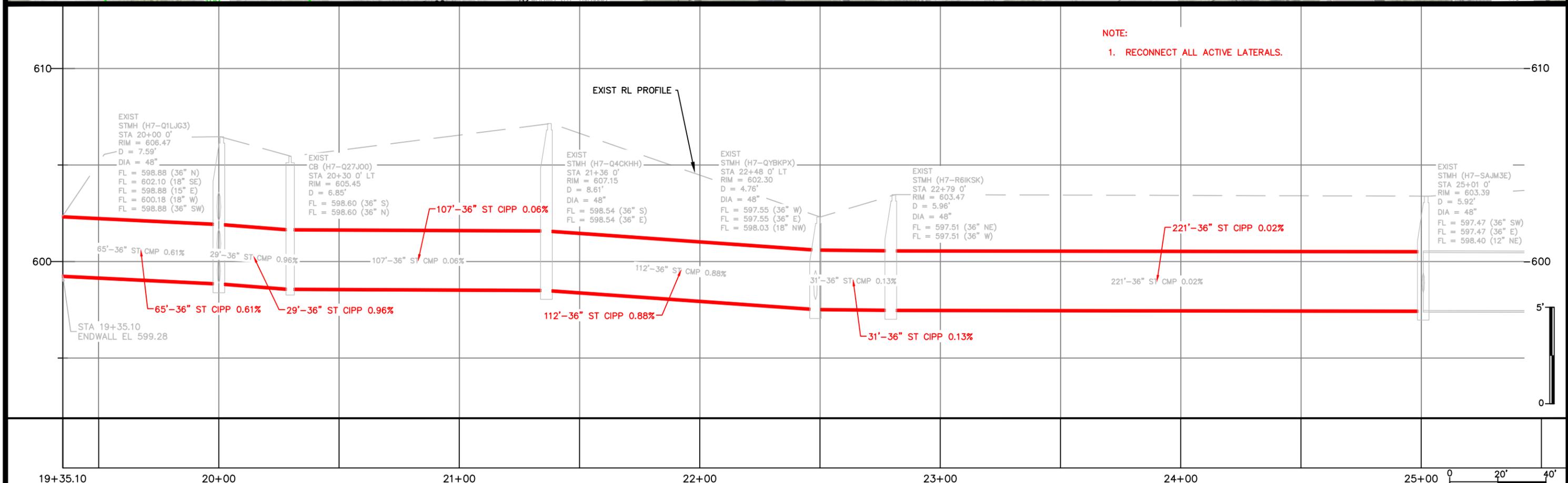
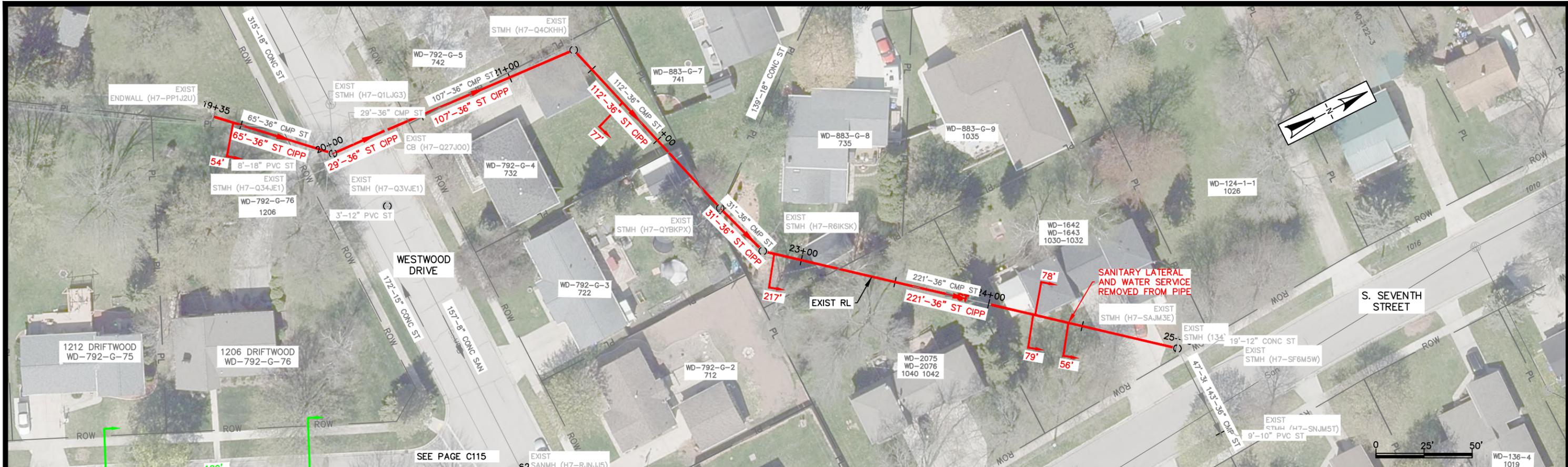
NAME:  
SEWER LINING

PROJECT # 23-03

NO.	DATE	BY	REVISIONS / ISSUES	
			REMARKS	

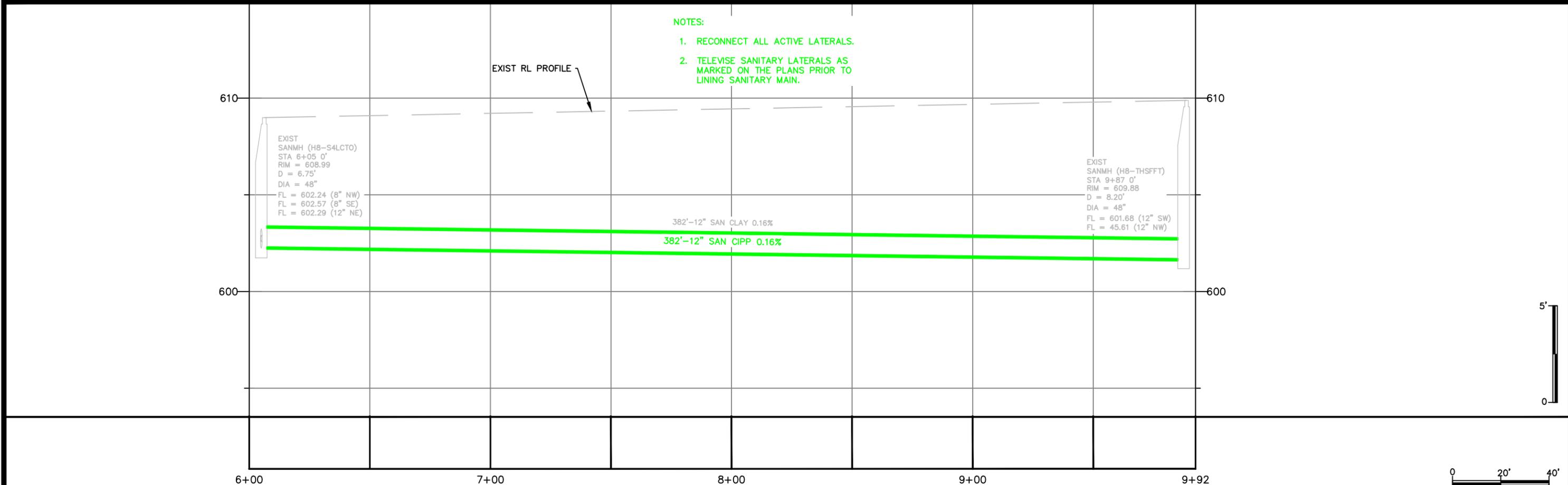
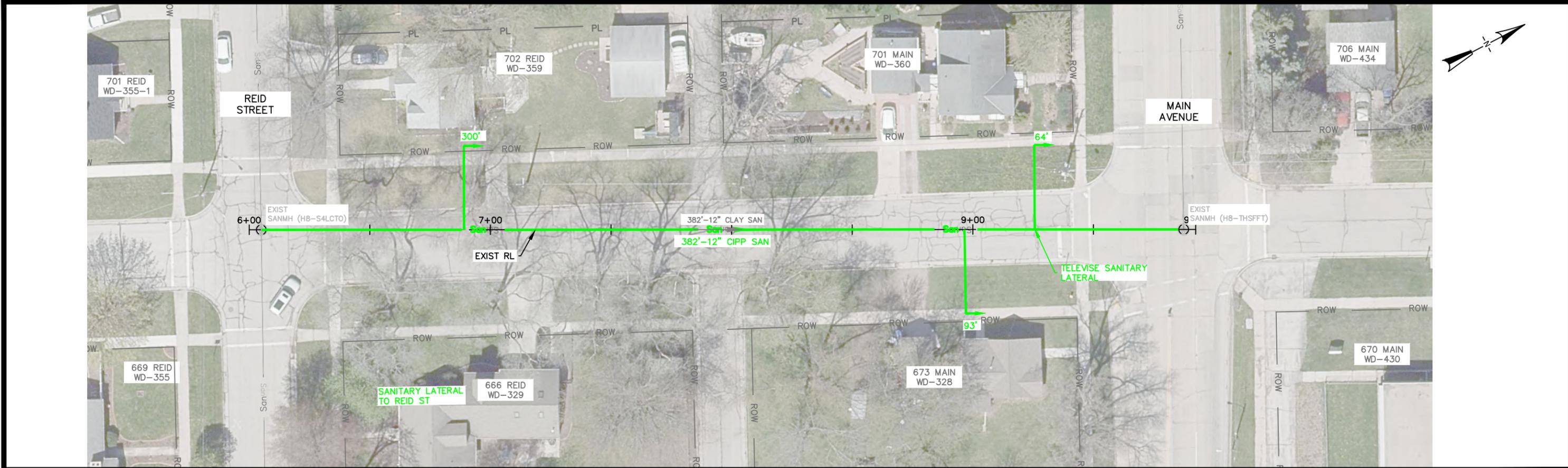
PAGE NO.

G002



NOTE:  
1. RECONNECT ALL ACTIVE LATERALS.

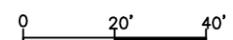
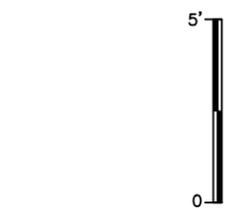
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- NOTES:**
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON THE PLANS PRIOR TO LINING SANITARY MAIN.

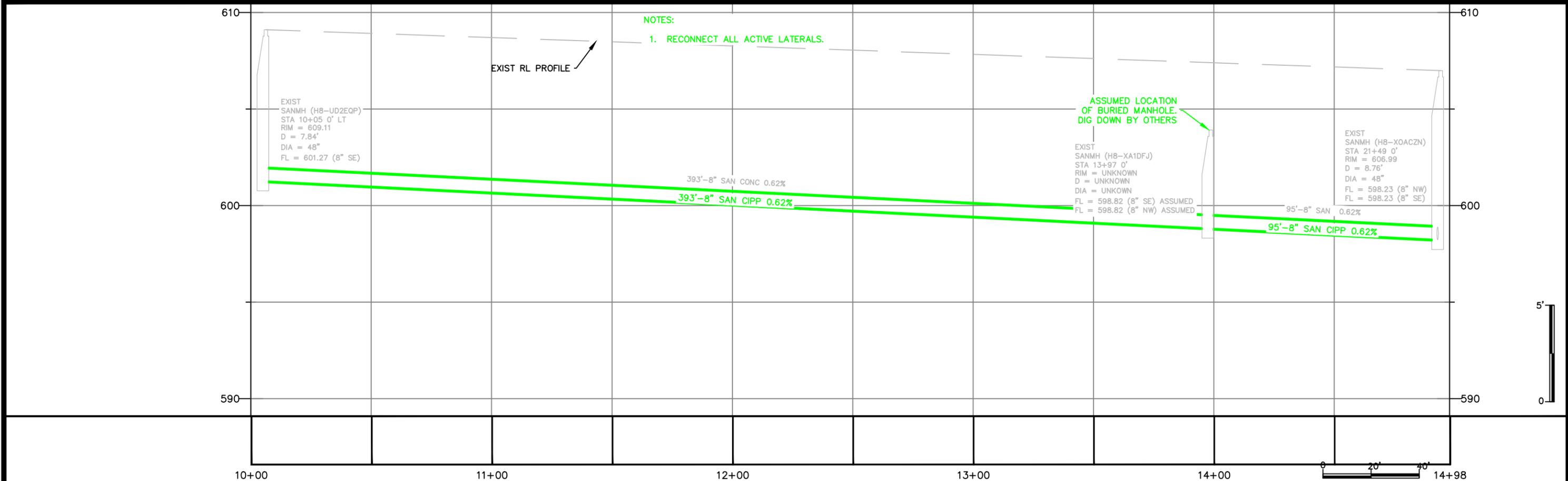
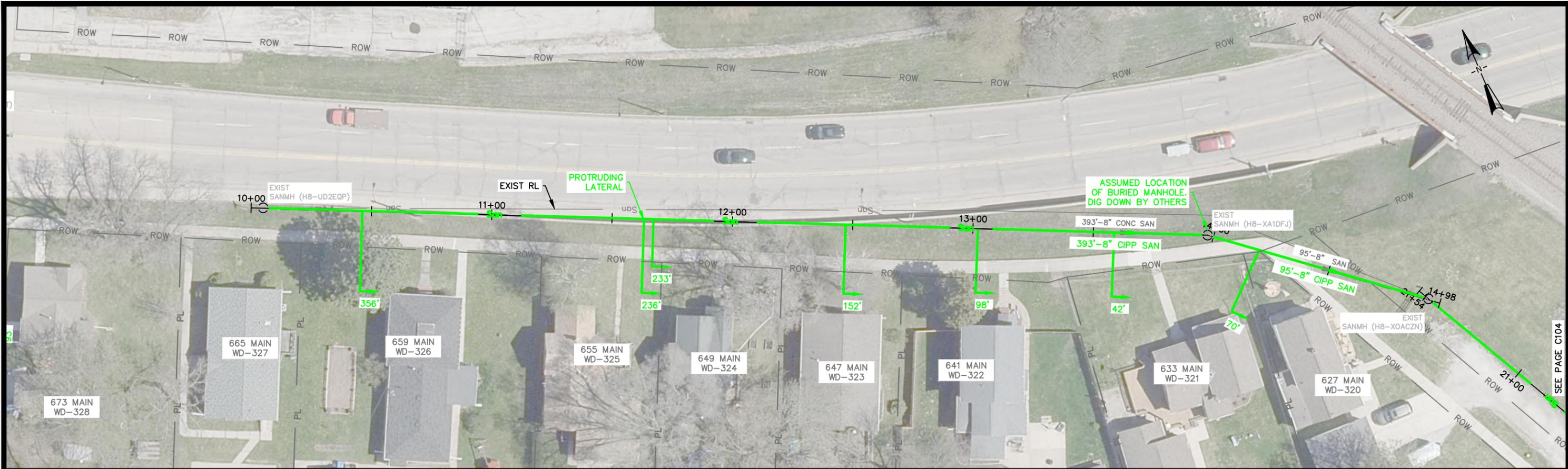
EXIST  
SANMH (H8-S4LCTO)  
STA 6+05 0'  
RIM = 608.99  
D = 6.75"  
DIA = 48"  
FL = 602.24 (8" NW)  
FL = 602.57 (8" SE)  
FL = 602.29 (12" NE)

EXIST  
SANMH (H8-THSFFT)  
STA 9+87 0'  
RIM = 609.88  
D = 8.20"  
DIA = 48"  
FL = 601.68 (12" SW)  
FL = 45.61 (12" NW)



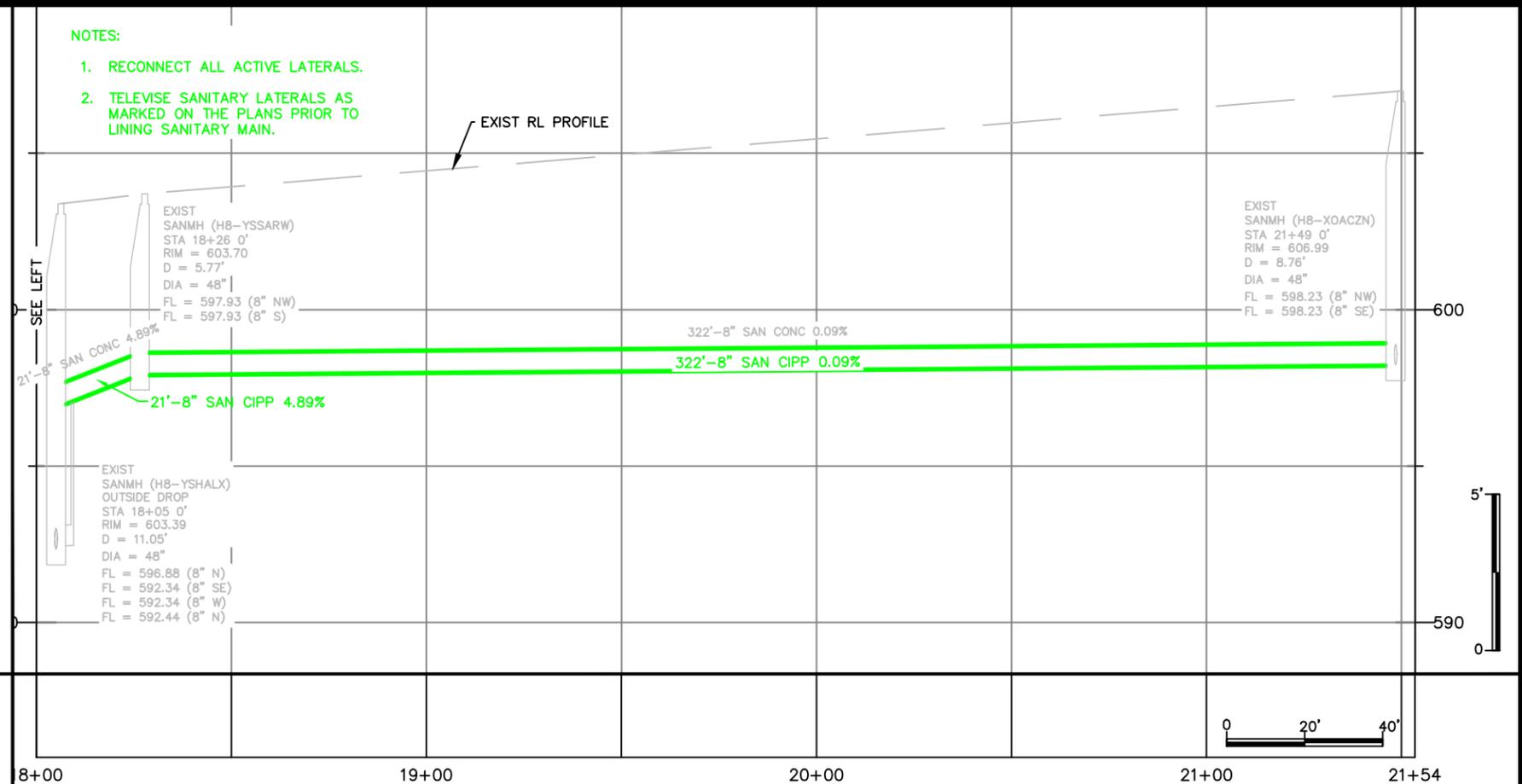
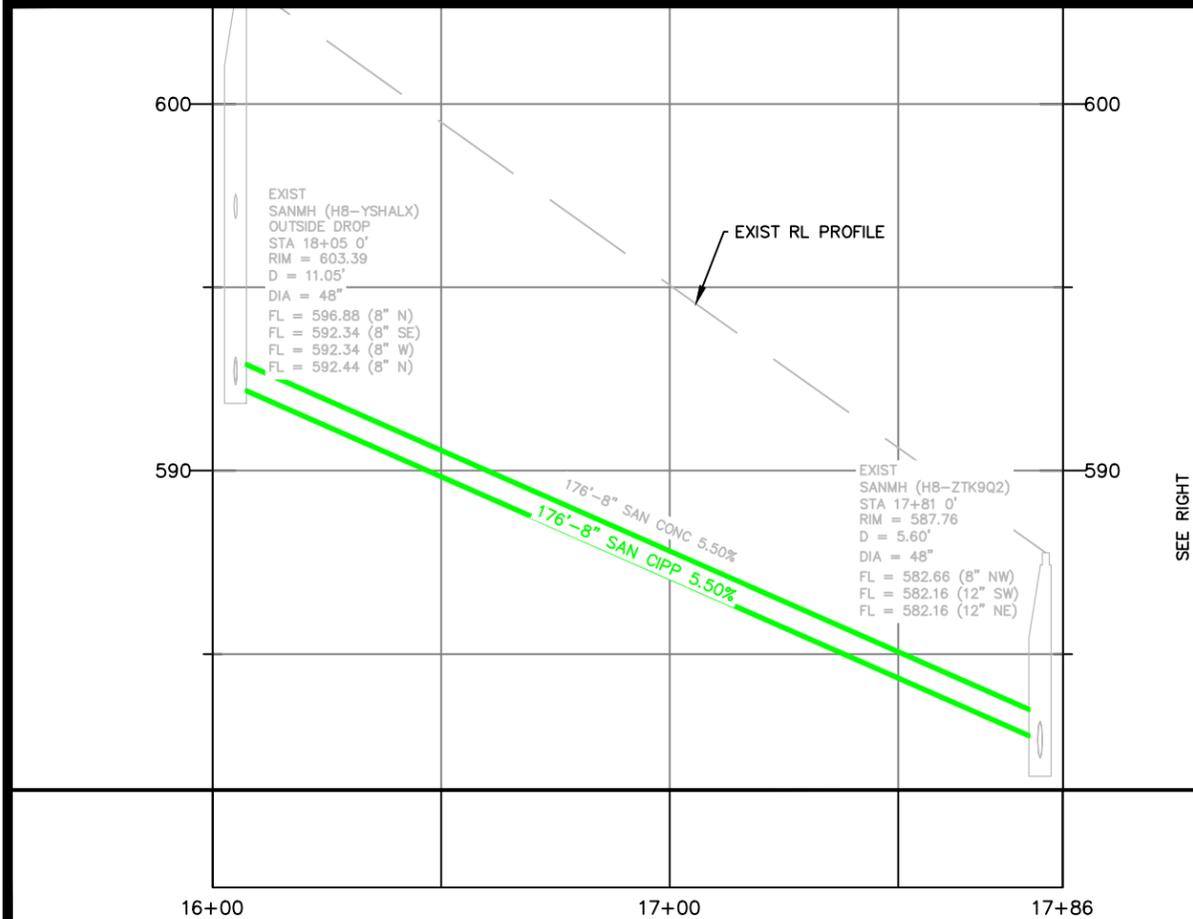
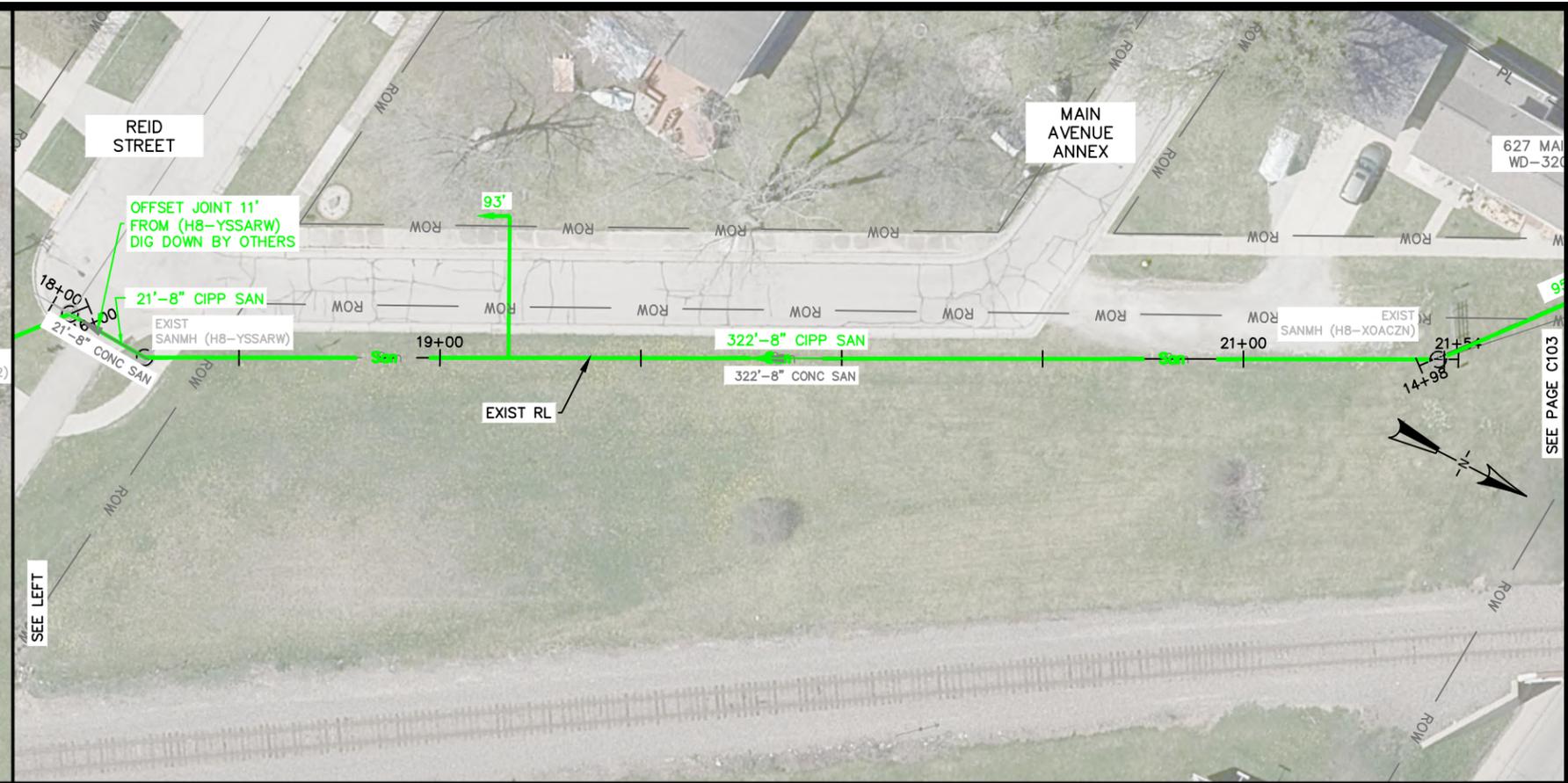
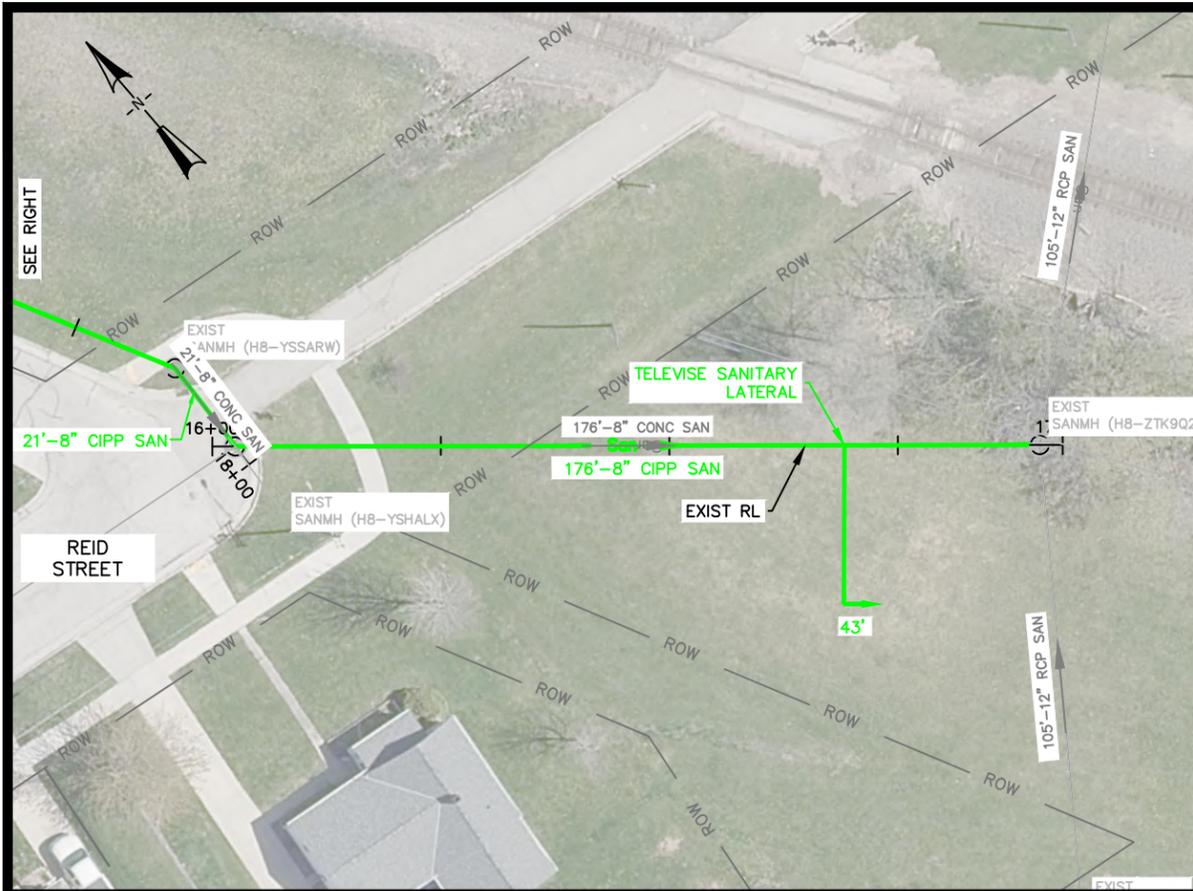
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	ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071		PROJECT # 23-03	DRAWN: KAD	DATE: 01-2023	DESIGNED: KAD			

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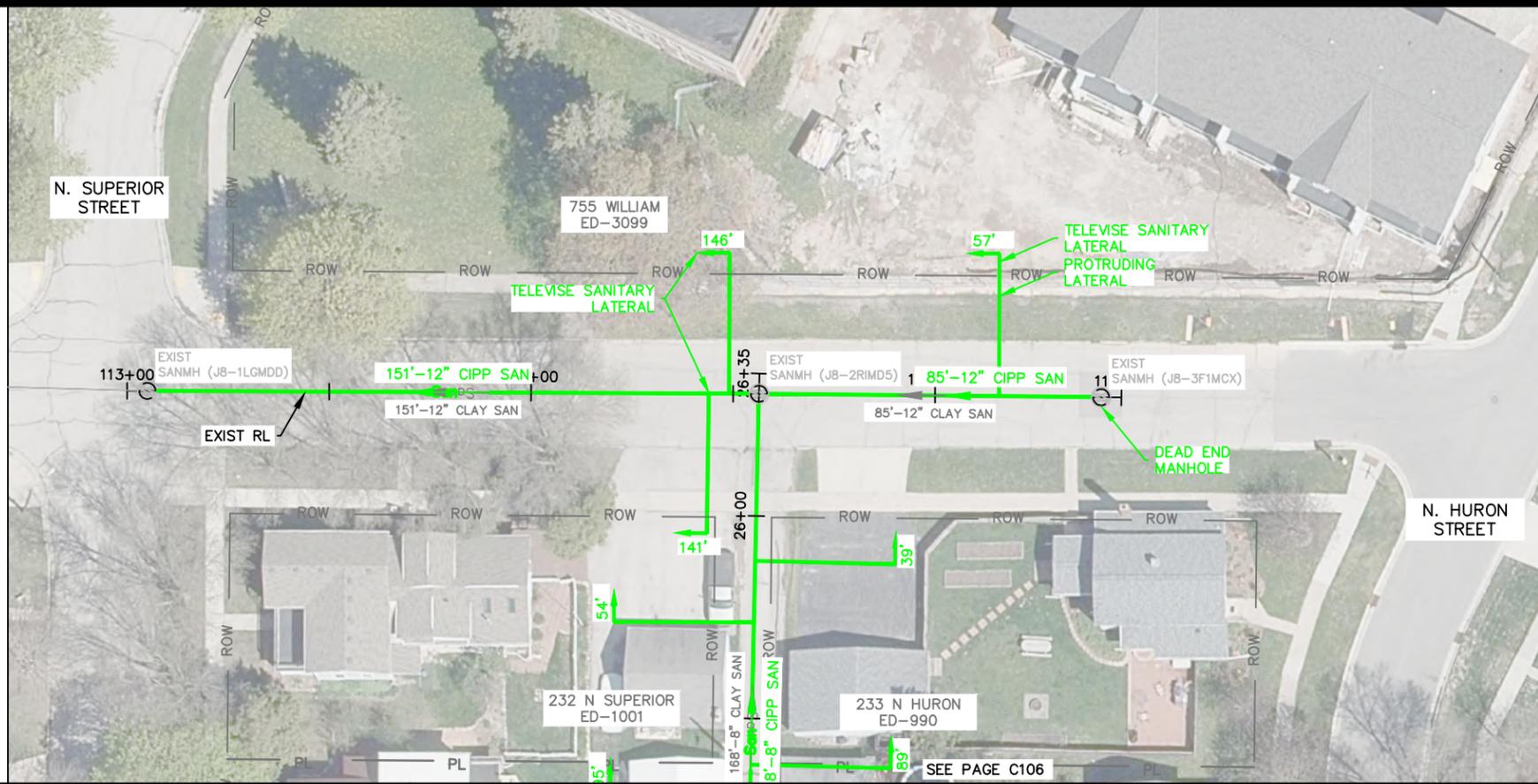
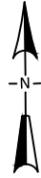
	<b>CITY OF DE PERE</b> ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071	<b>MAIN AVENUE</b> <b>S. SEVENTH ST TO MAIN AVE ANNEX</b>	NAME:	SEWER LINING	BY:	KAD	DATE:	01-2023	REVISIONS / ISSUES		PAGE NO. <b>C103</b>
			PROJECT #	23-03	CHECKED:	EPR	DATE:	01-2023	NO.	DATE	

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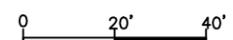
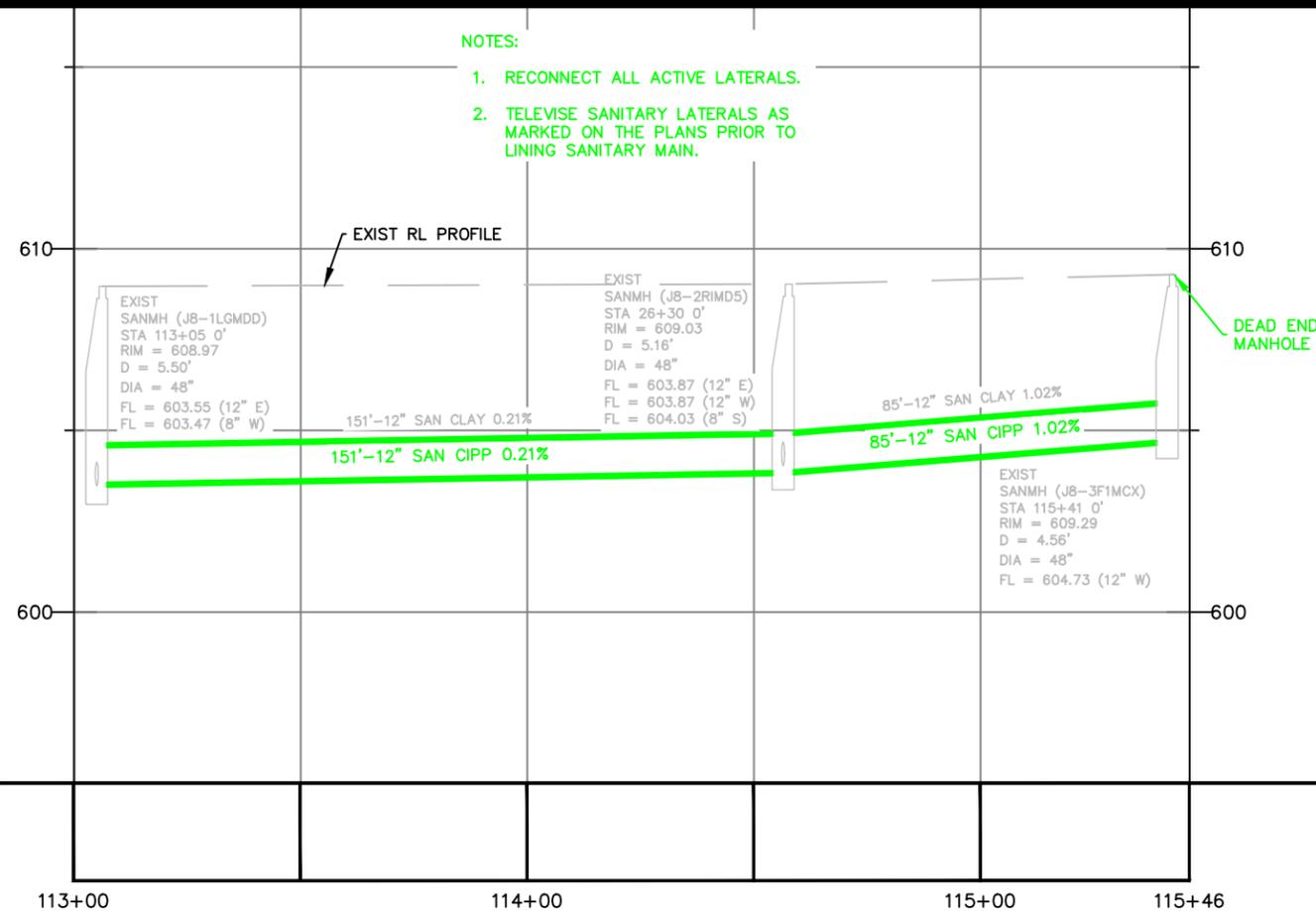
- NOTES:**
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON THE PLANS PRIOR TO LINING SANITARY MAIN.

X:\ENG\Projects\City Projects\2023\Project 23-03 Sewer Lining\200-CAD\23-03 ALIGN.dwg



**NOTES:**

1. RECONNECT ALL ACTIVE LATERALS.
2. TELEWISE SANITARY LATERALS AS MARKED ON THE PLANS PRIOR TO LINING SANITARY MAIN.



**CITY OF DE PERE**

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

**WILLIAM STREET  
N. SUPERIOR ST TO N. HURON ST**

NAME: SEWER LINING

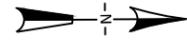
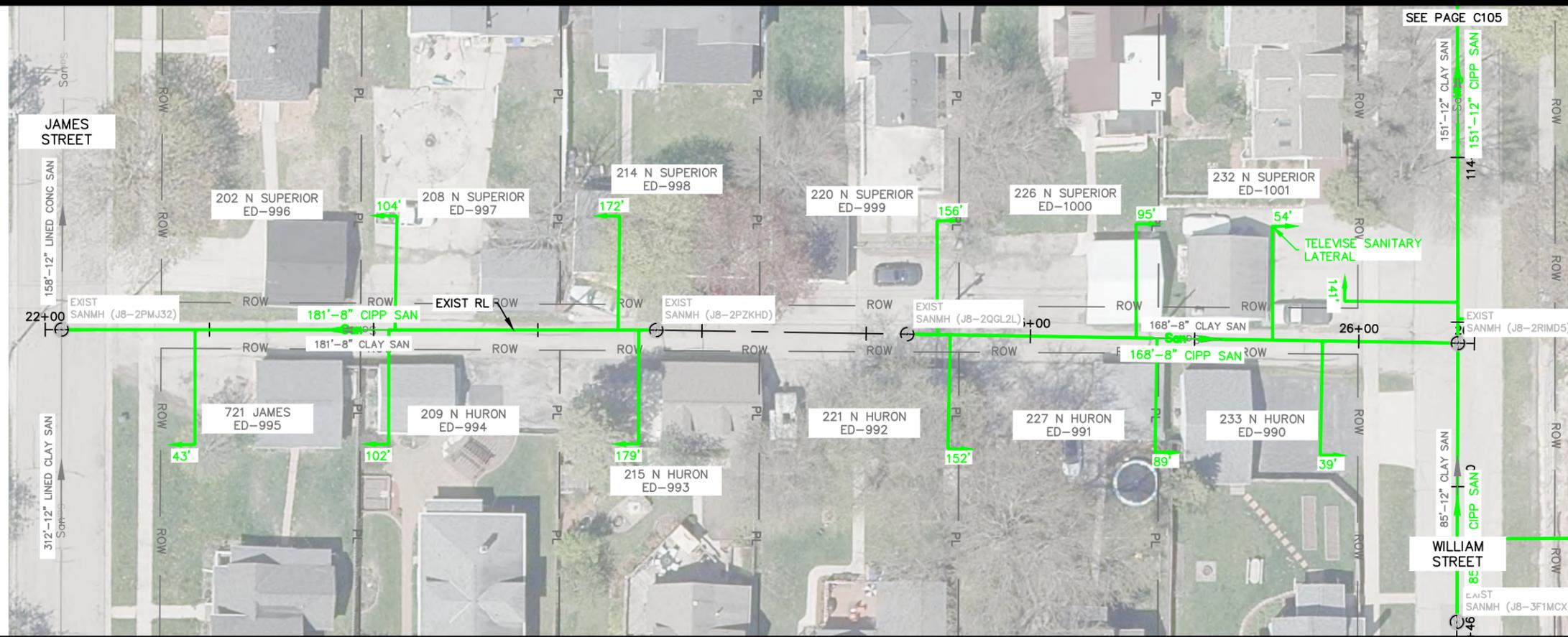
PROJECT # 23-03

NO.	DATE	BY	REVISIONS / ISSUES
SURVEYED			
DRAWN	KAD	01-2023	
DESIGNED	KAD	01-2023	
CHECKED	EPR	01-2023	

NO.	DATE	BY	REVISIONS / ISSUES

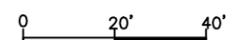
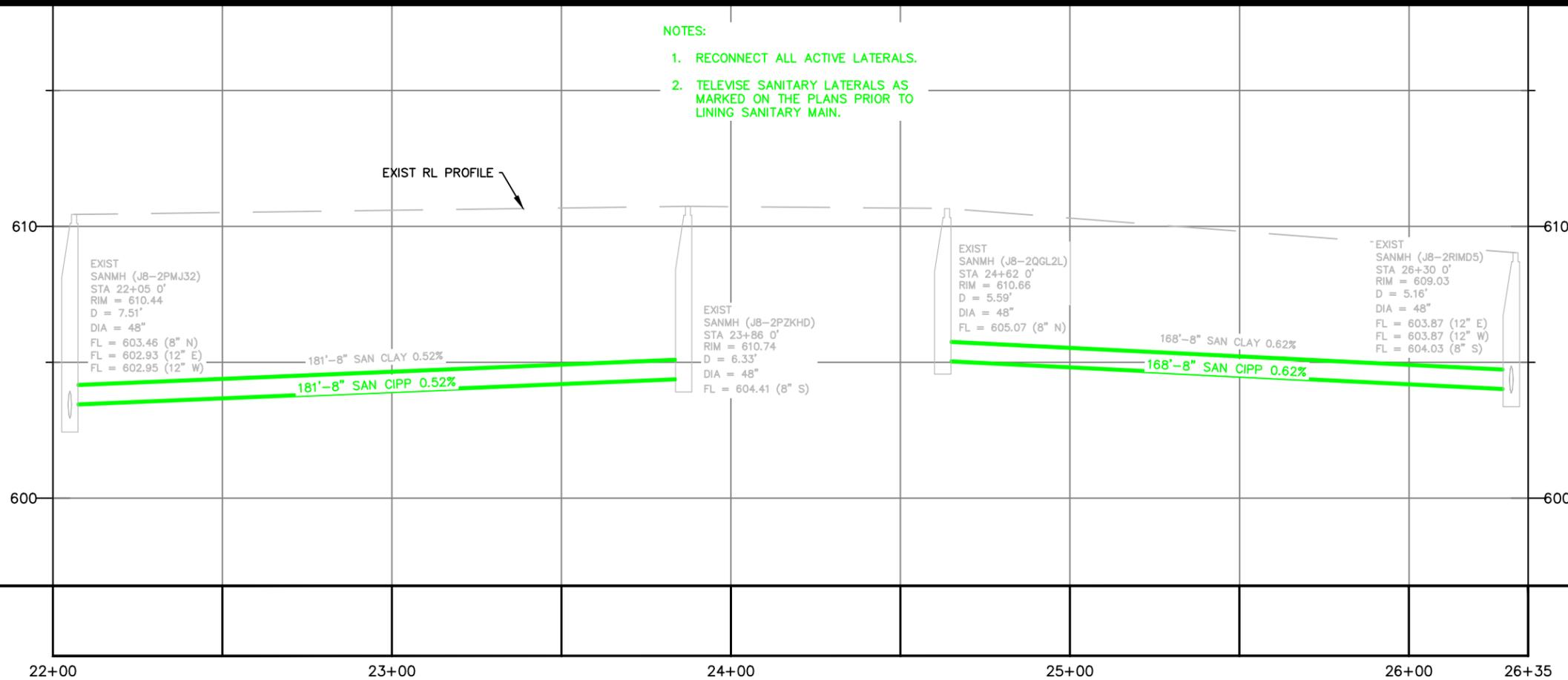
PAGE NO.  
**C105**

X:\ENG\Projects\City Projects\2023\Project 23-03 Sewer Lining\200-CAD\23-03 ALIGN.dwg



**NOTES:**

1. RECONNECT ALL ACTIVE LATERALS.
2. TELEWISE SANITARY LATERALS AS MARKED ON THE PLANS PRIOR TO LINING SANITARY MAIN.



**CITY OF DE PERE**

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

**ALLEY - JAMES ST TO WILLIAM ST  
BETWEEN N. SUPERIOR ST AND N. HURON ST**

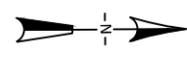
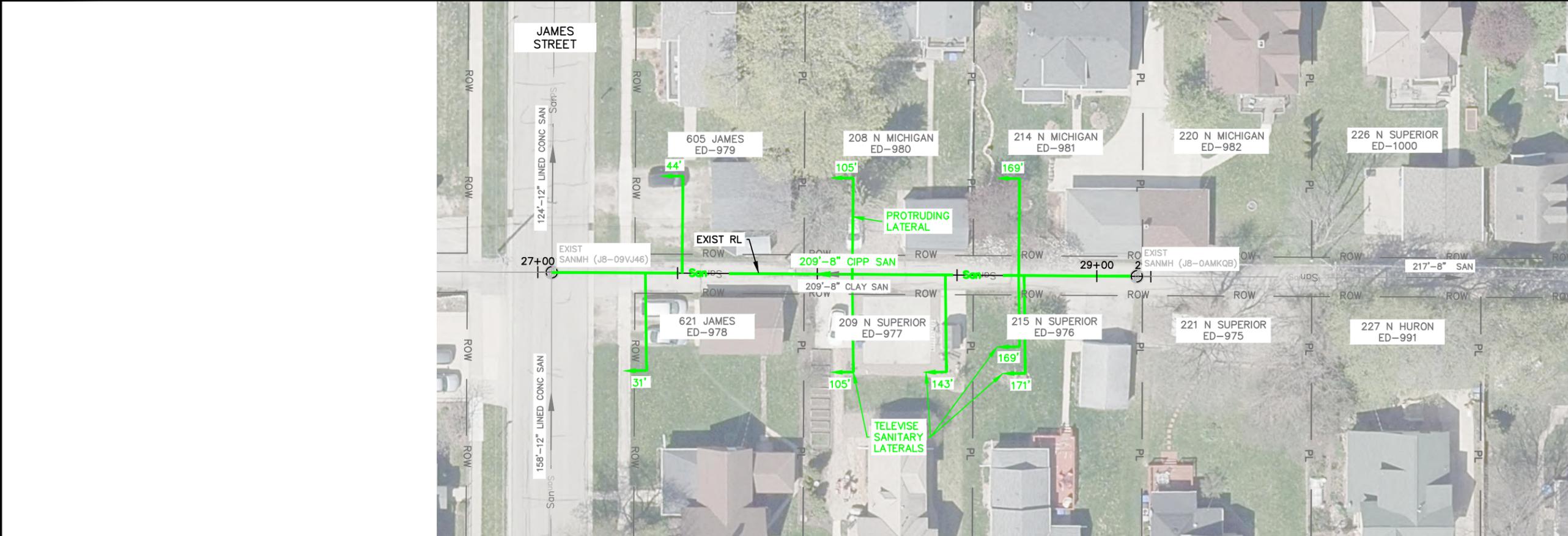
NAME: SEWER LINING  
PROJECT # 23-03

	BY	DATE
SURVEYED		
DRAWN	KAD	01-2023
DESIGNED	KAD	01-2023
CHECKED	EPR	01-2023

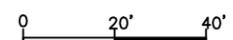
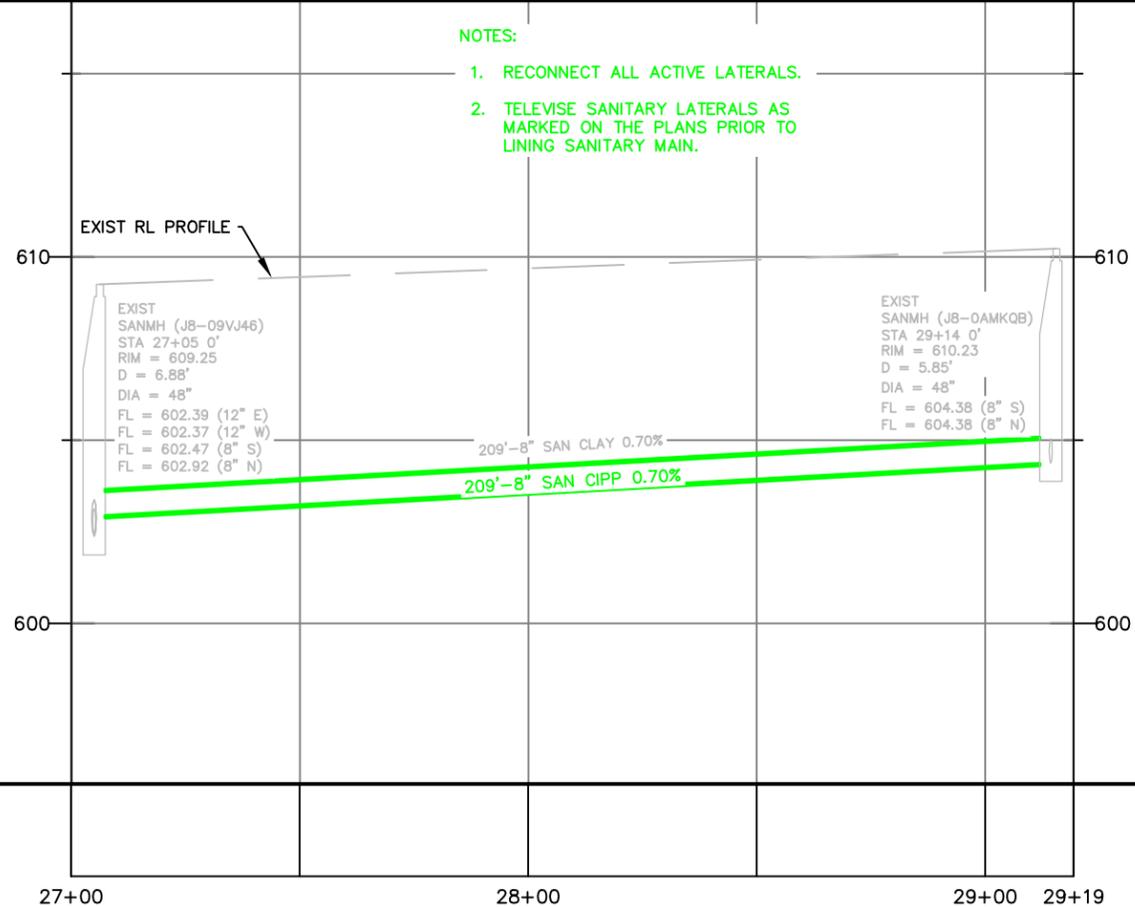
REVISIONS / ISSUES		
NO.	DATE	REMARKS

PAGE NO.  
**C106**

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- NOTES:
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON THE PLANS PRIOR TO LINING SANITARY MAIN.



**CITY OF DE PERE**

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

**ALLEY - JAMES ST TO WILLIAM ST  
BETWEEN N. MICHIGAN ST AND N. SUPERIOR ST**

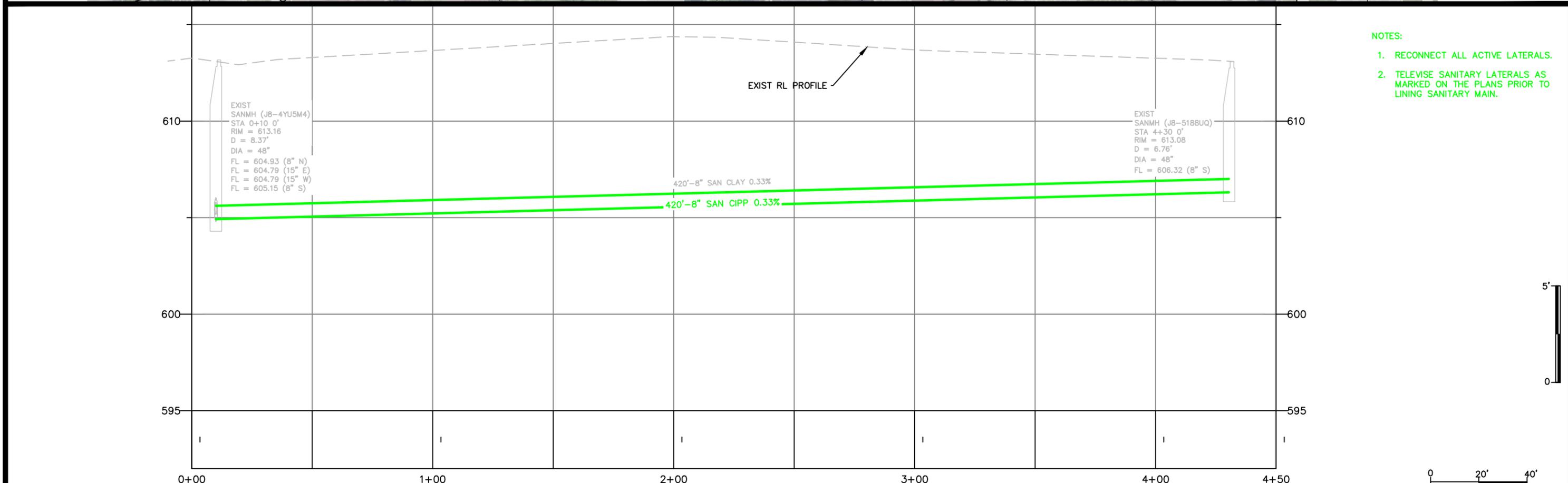
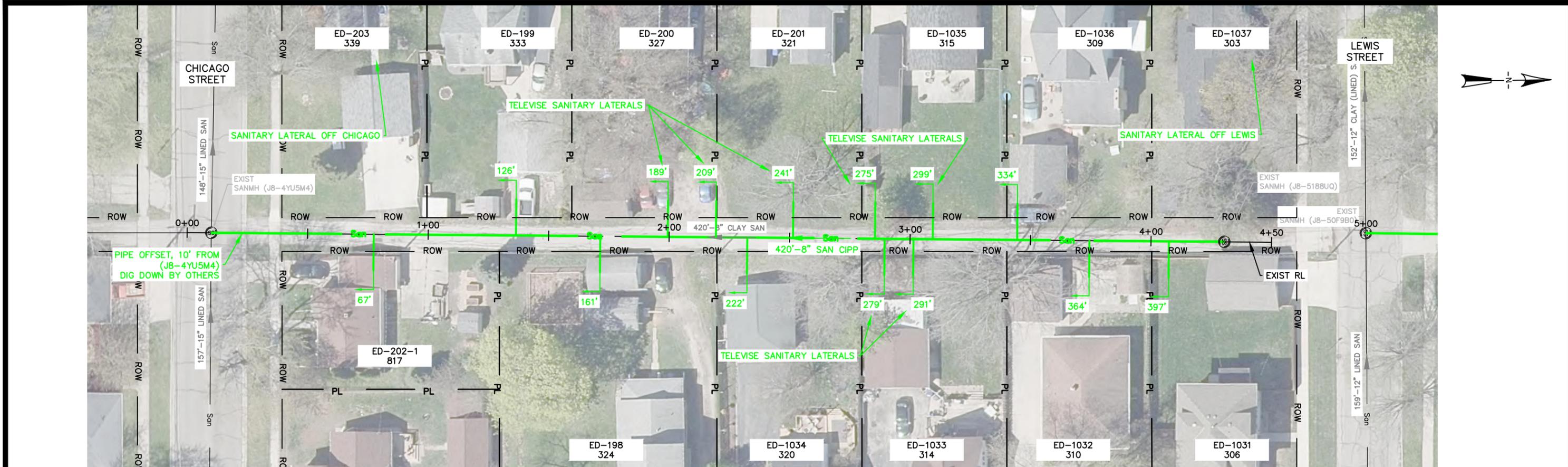
NAME: SEWER LINING  
PROJECT # 23-03

	BY	DATE
SURVEYED		
DRAWN	KAD	01-2023
DESIGNED	KAD	01-2023
CHECKED	EPR	01-2023

REVISIONS / ISSUES		
NO.	DATE	BY

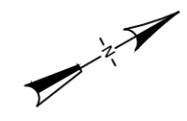
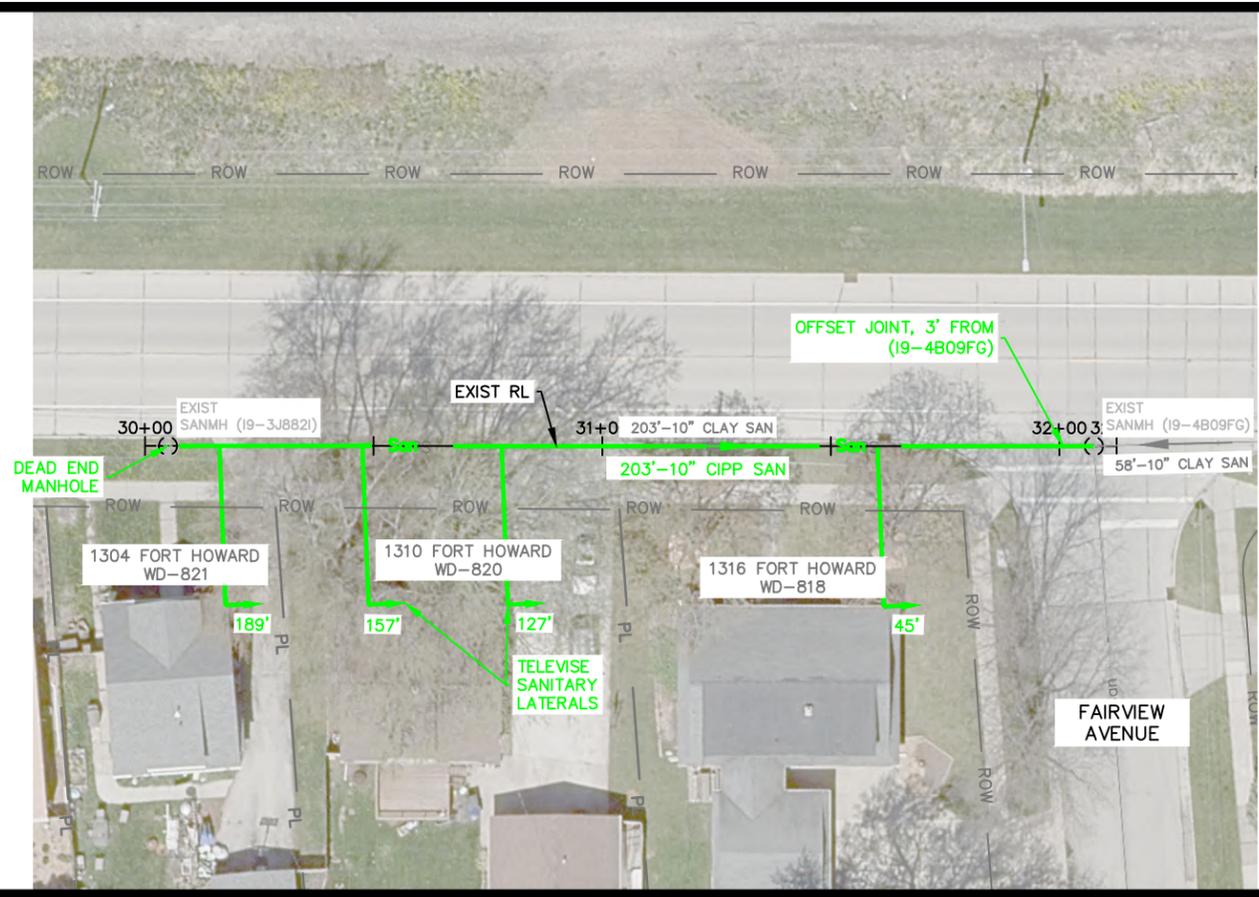
PAGE NO.  
**C107**

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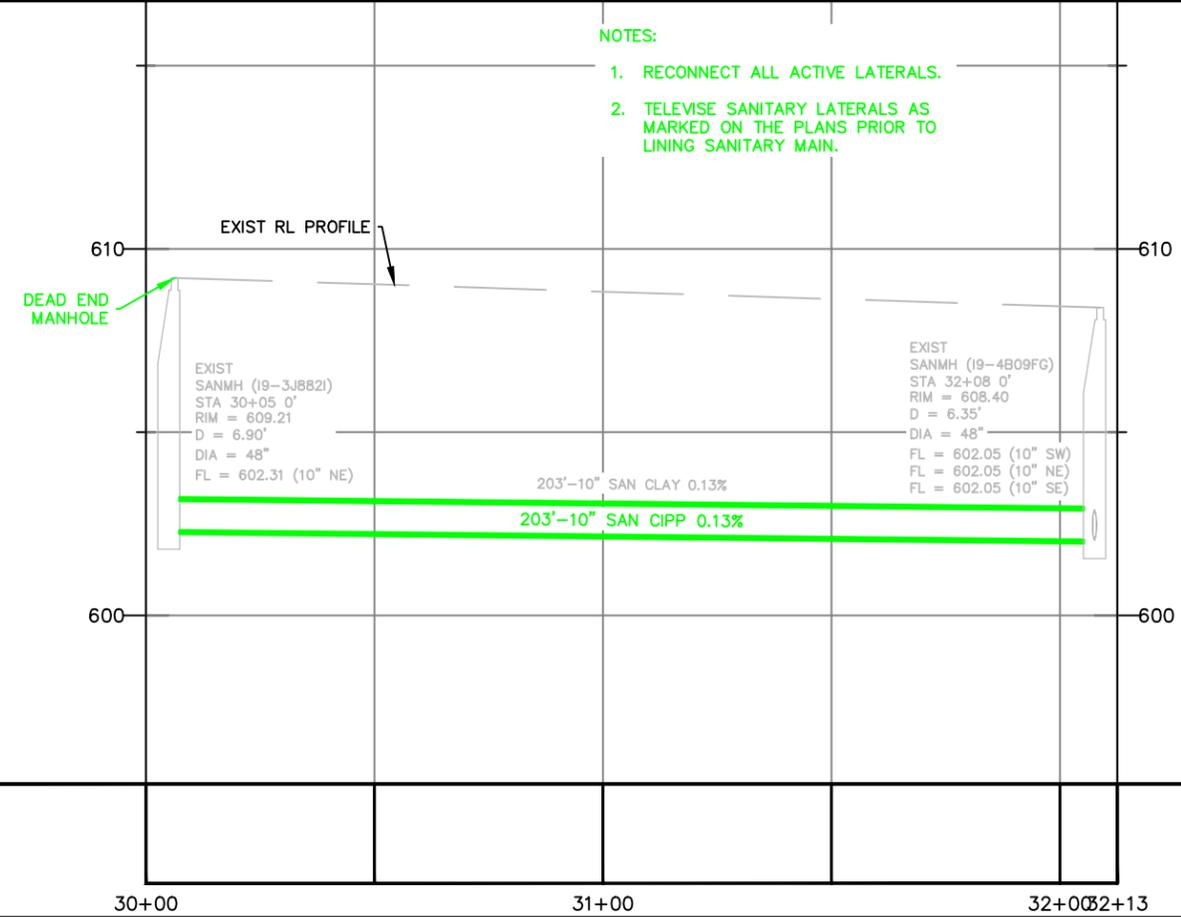


- NOTES:
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON THE PLANS PRIOR TO LINING SANITARY MAIN.

X:\ENG\Projects\City Projects\2022\Project 22-03 Sewer Lining\200-CAD\22-03 align P&P2.dwg



- NOTES:**
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON THE PLANS PRIOR TO LINING SANITARY MAIN.



**CITY OF DE PERE**

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

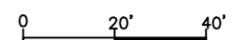
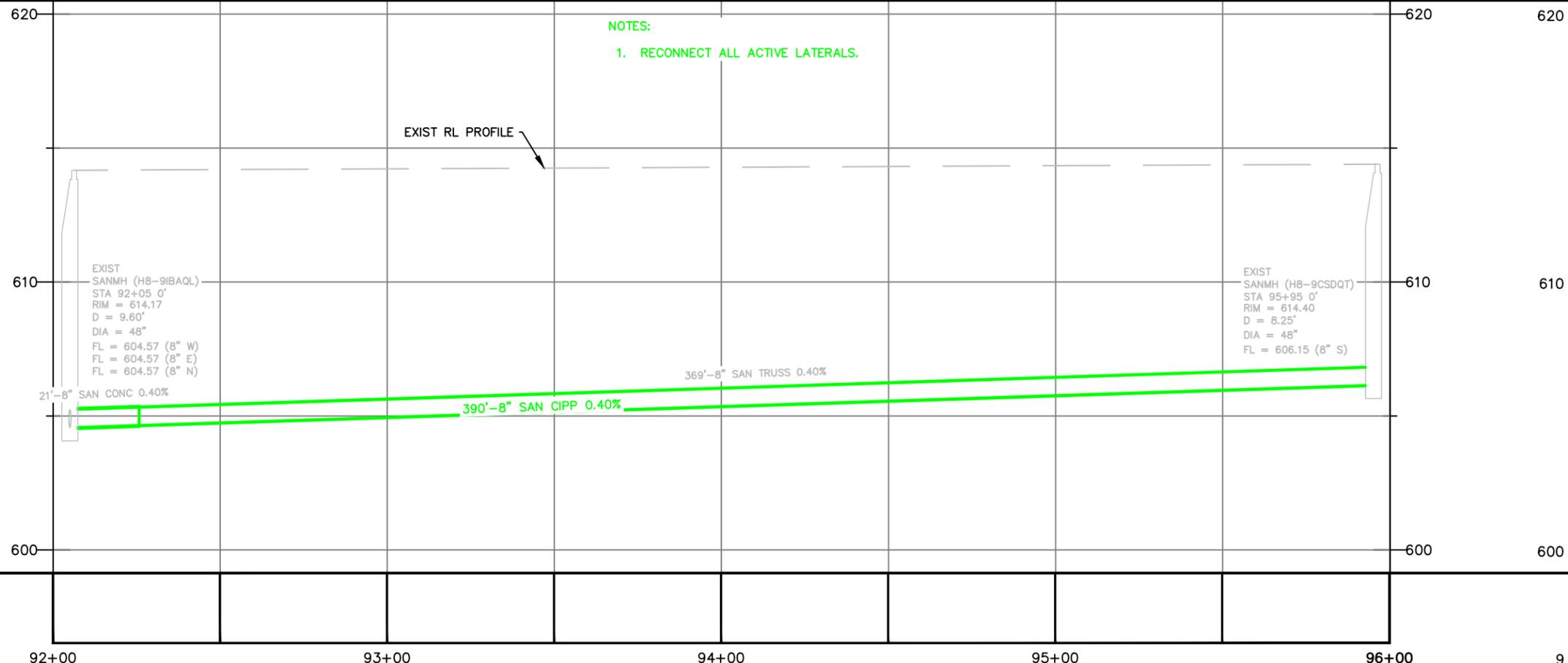
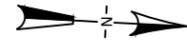
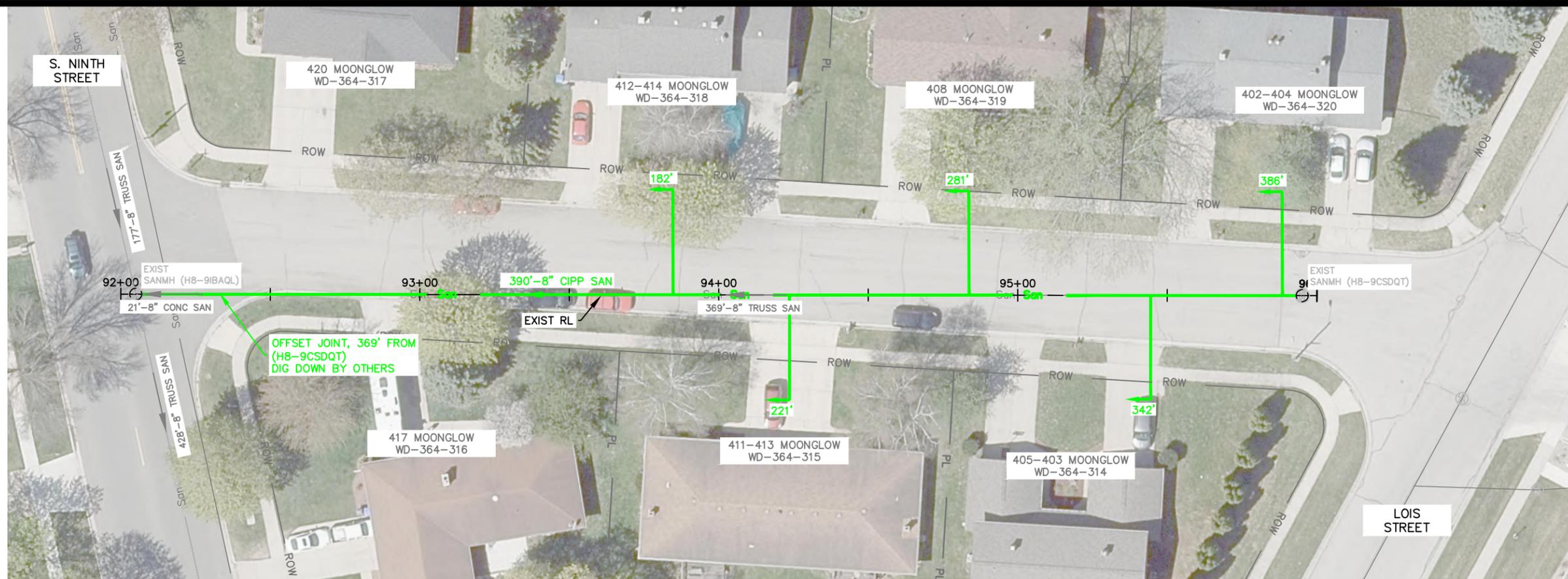
**FORT HOWARD AVE  
FAIRVIEW AVE TO 202' S/O FAIRVIEW AVE**

NAME: SEWER LINING  
PROJECT # 23-03

BY	DATE
SURVEYED	
DRAWN	KAD 01-2023
DESIGNED	KAD 01-2023
CHECKED	EPR 01-2023

REVISIONS / ISSUES		
NO.	DATE	REMARKS

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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

**MOONGLOW DRIVE  
S. NINTH ST TO LOIS ST**

NAME: SEWER LINING  
PROJECT # 23-03

	BY	DATE
SURVEYED		
DRAWN	KAD	01-2023
DESIGNED	KAD	01-2023
CHECKED	EPR	01-2023

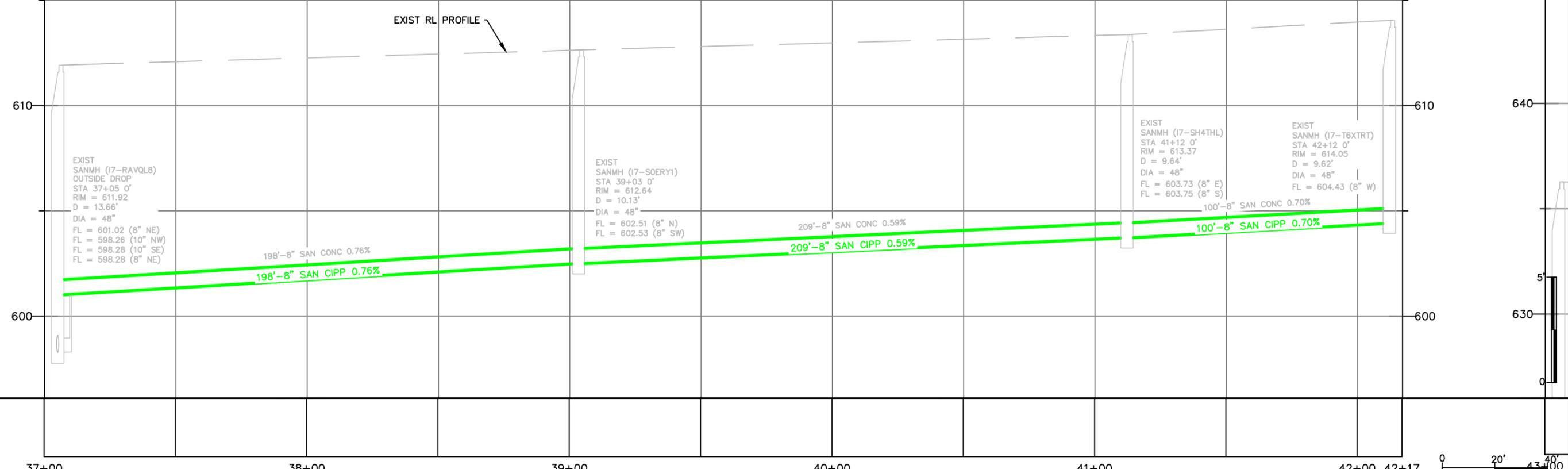
REVISIONS / ISSUES		
NO.	DATE	REMARKS

PAGE NO.  
**C110**

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**NOTES:**  
 1. RECONNECT ALL ACTIVE LATERALS.



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

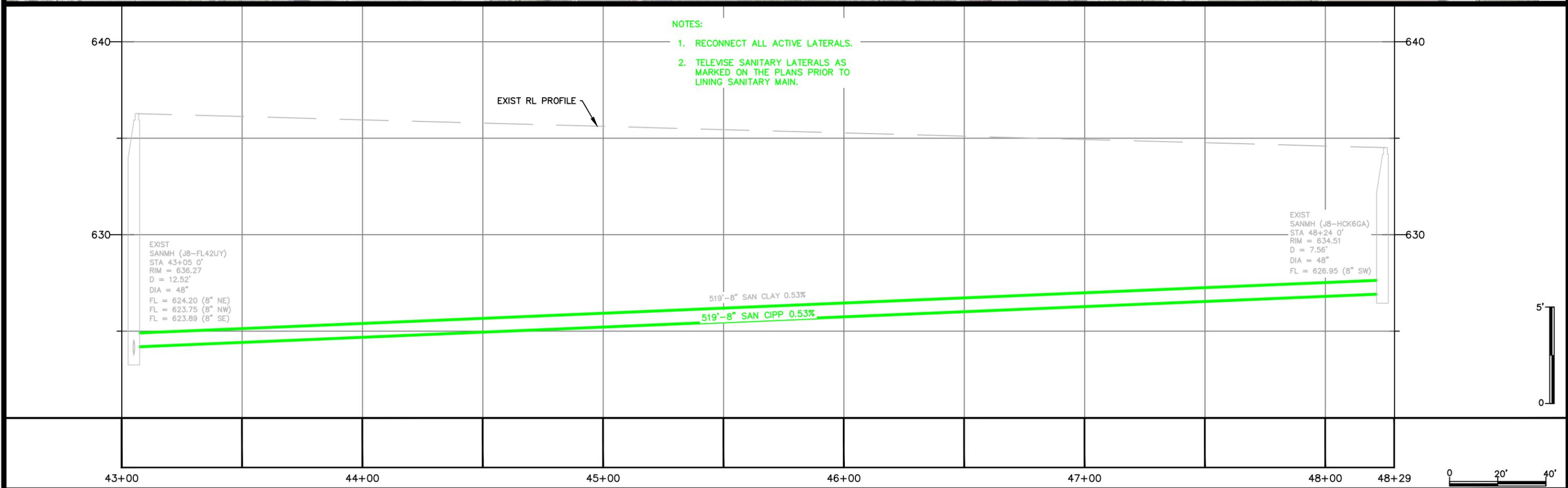
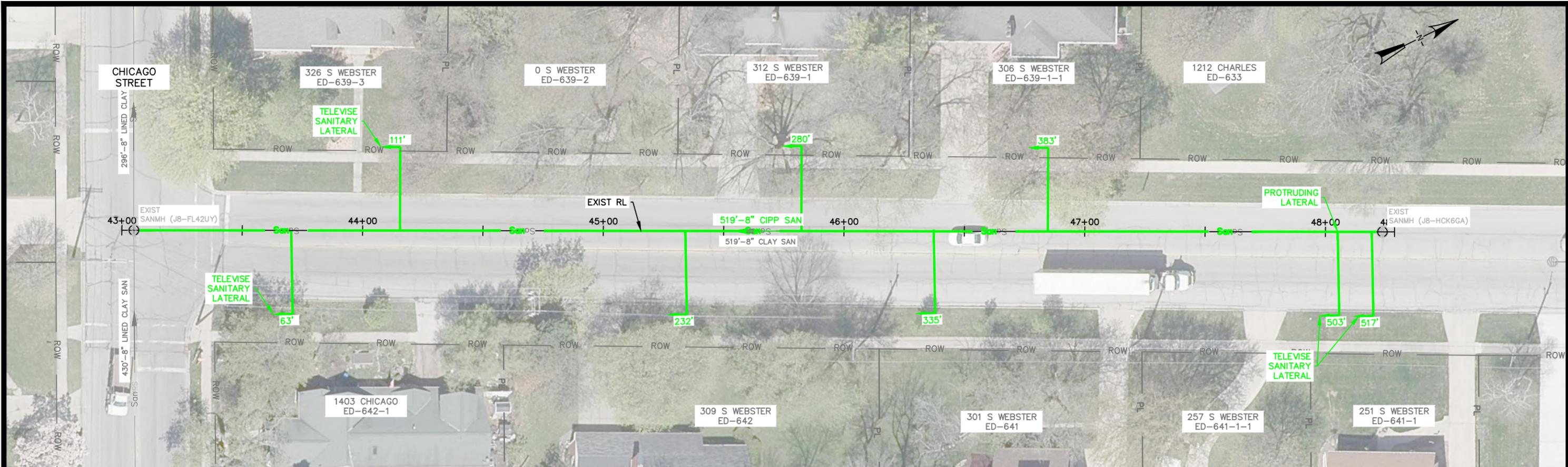
**GEORGIA DRIVE**  
**COOK ST TO TERMINI**

NAME: SEWER LINING  
 PROJECT # 23-03

BY	DATE
KAD	01-2023
KAD	01-2023
EPR	01-2023

REVISIONS / ISSUES		
NO.	DATE	REMARKS

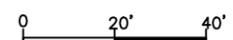
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- NOTES:
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON THE PLANS PRIOR TO LINING SANITARY MAIN.

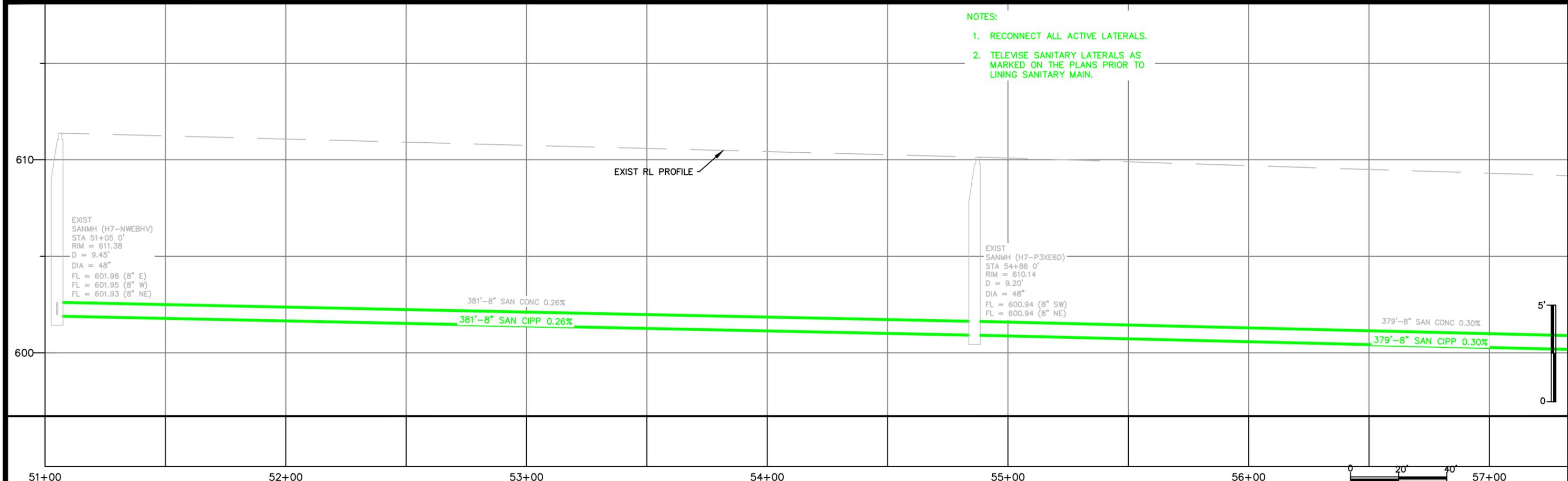
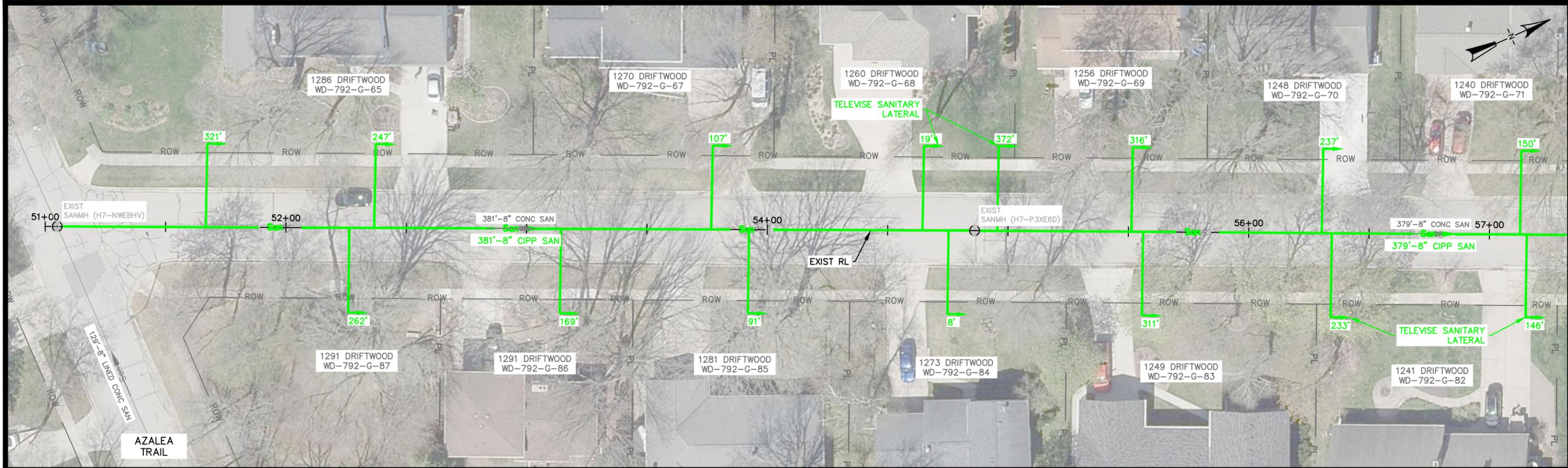
EXIST  
SANMH (J8-FL42UY)  
STA 43+05.0'  
RIM = 636.27  
D = 12.52'  
DIA = 48"  
FL = 624.20 (8" NE)  
FL = 623.75 (8" NW)  
FL = 623.89 (8" SE)

EXIST  
SANMH (J8-HCK6GA)  
STA 48+24.0'  
RIM = 634.51  
D = 7.56'  
DIA = 48"  
FL = 626.95 (8" SW)



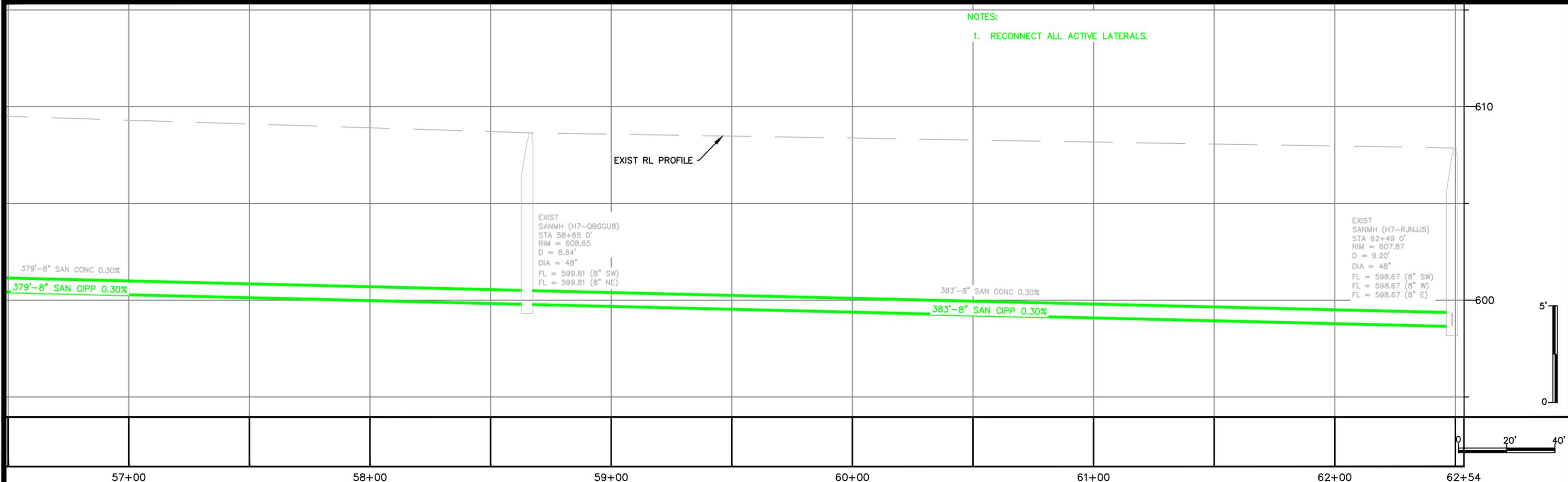
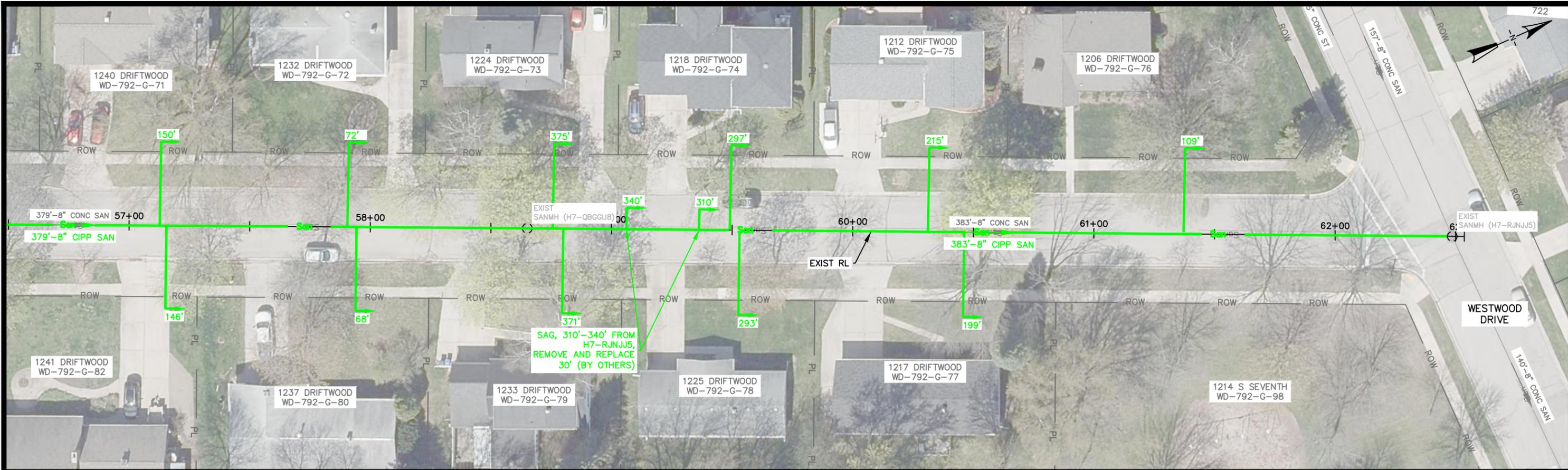
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	<b>CITY OF DE PERE</b> ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071	<b>DRIFTWOOD DRIVE</b> <b>AZALEA TRAIL TO 600' N/O AZALEA TRAIL</b>		NAME:	SEWER LINING	BY:	KAD	DATE:	01-2023	REVISIONS / ISSUES		PAGE NO. <b>C114</b>
				PROJECT #	23-03	CHECKED:	EPR	DATE:	01-2023	NO.	DATE	

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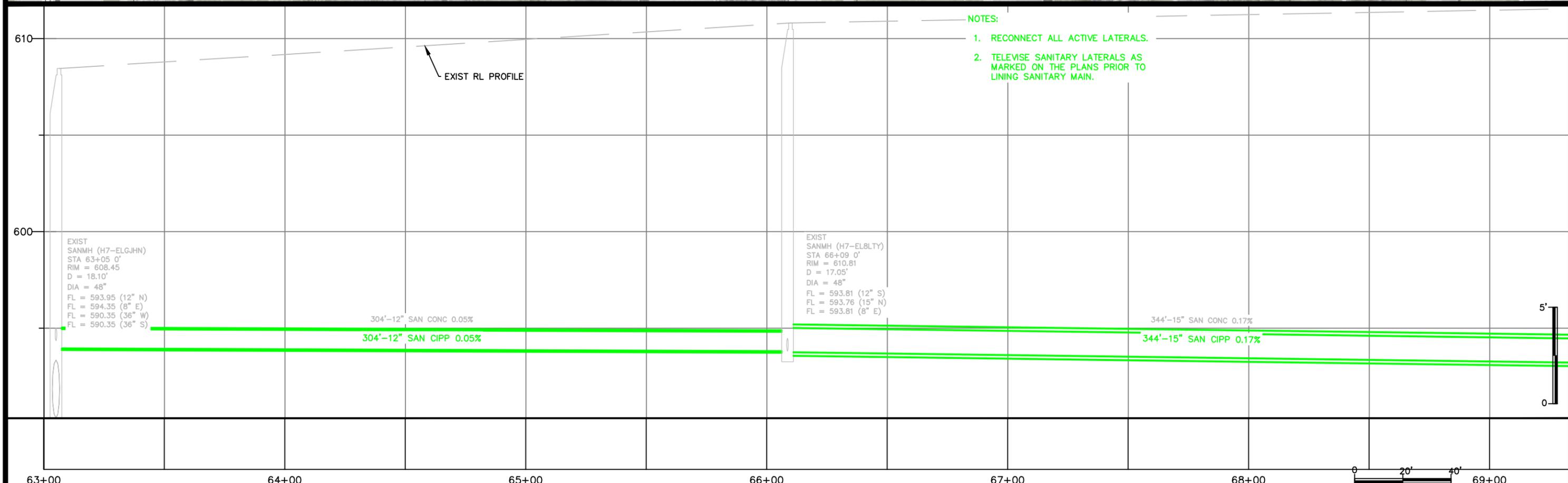
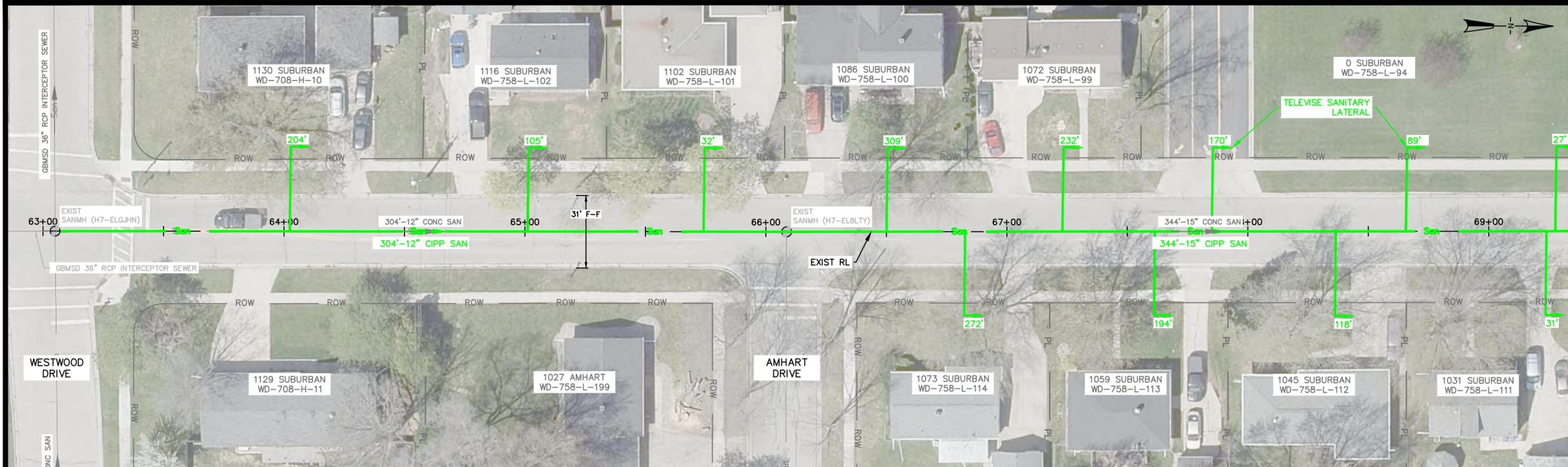


NOTES:  
1. RECONNECT ALL ACTIVE LATERALS.

EXIST  
SANMH (H7-QBGGU8)  
STA 58+65 0'  
RIM = 608.65  
D = 8.84'  
DIA = 48"  
FL = 599.81 (8" SW)  
FL = 599.81 (8" NE)

EXIST  
SANMH (H7-RJNJJ5)  
STA 62+49 0'  
RIM = 607.87  
D = 9.20'  
DIA = 48"  
FL = 598.67 (8" SW)  
FL = 598.67 (8" W)  
FL = 598.67 (8" E)

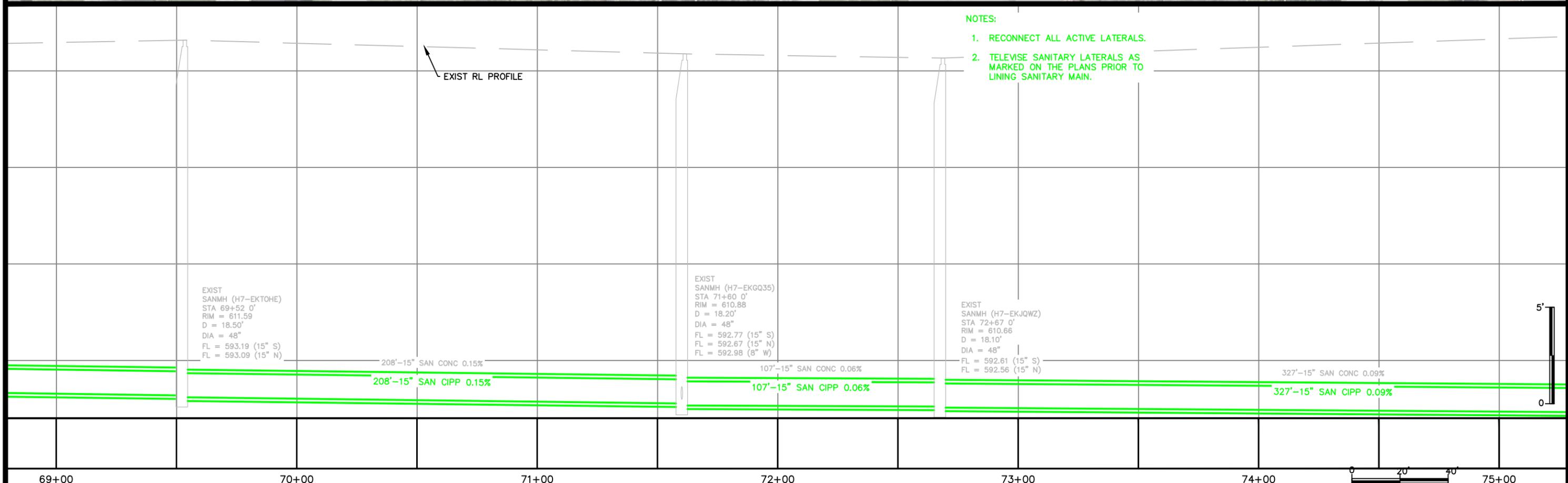
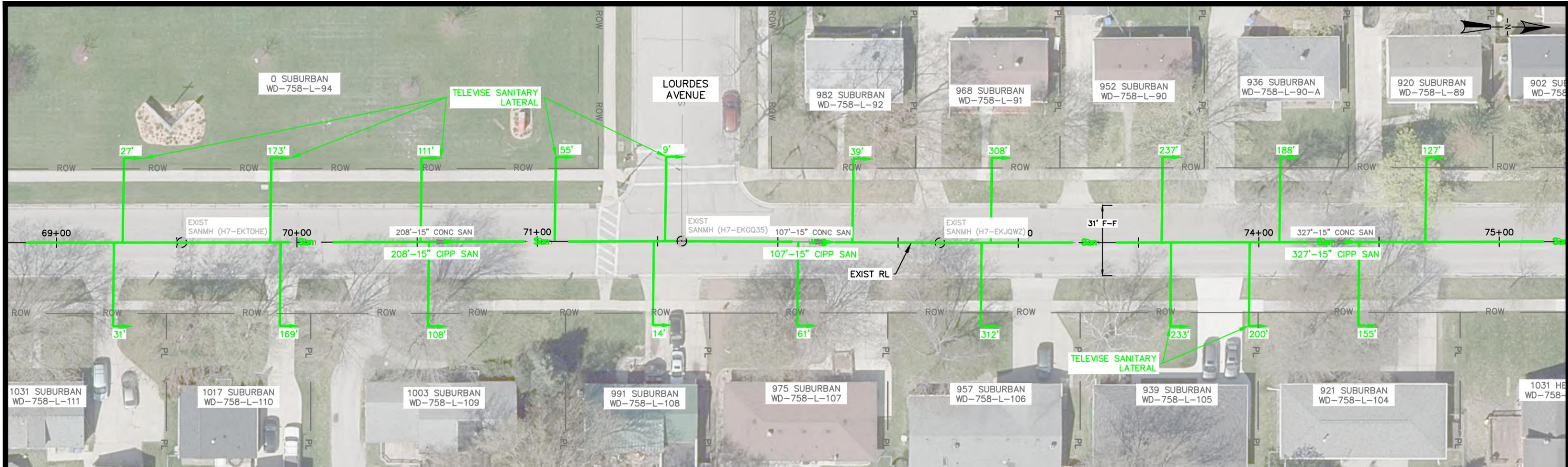
X:\ENG\Projects\City Projects\2023\Project 23-03 Sewer Lining\200-CAD\23-03 ALIGN.dwg



- NOTES:
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON THE PLANS PRIOR TO LINING SANITARY MAIN.

	<b>CITY OF DE PERE</b>	<b>SUBURBAN DRIVE</b>	NAME: SEWER LINING	BY: KAD	DATE: 01-2023	REVISIONS / ISSUES		PAGE NO.	
	ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071	<b>WESTWOOD DR TO 300' N/O AMHART DR</b>	PROJECT # 23-03	DESIGNED: KAD	DATE: 01-2023	NO.	DATE	BY	REMARKS

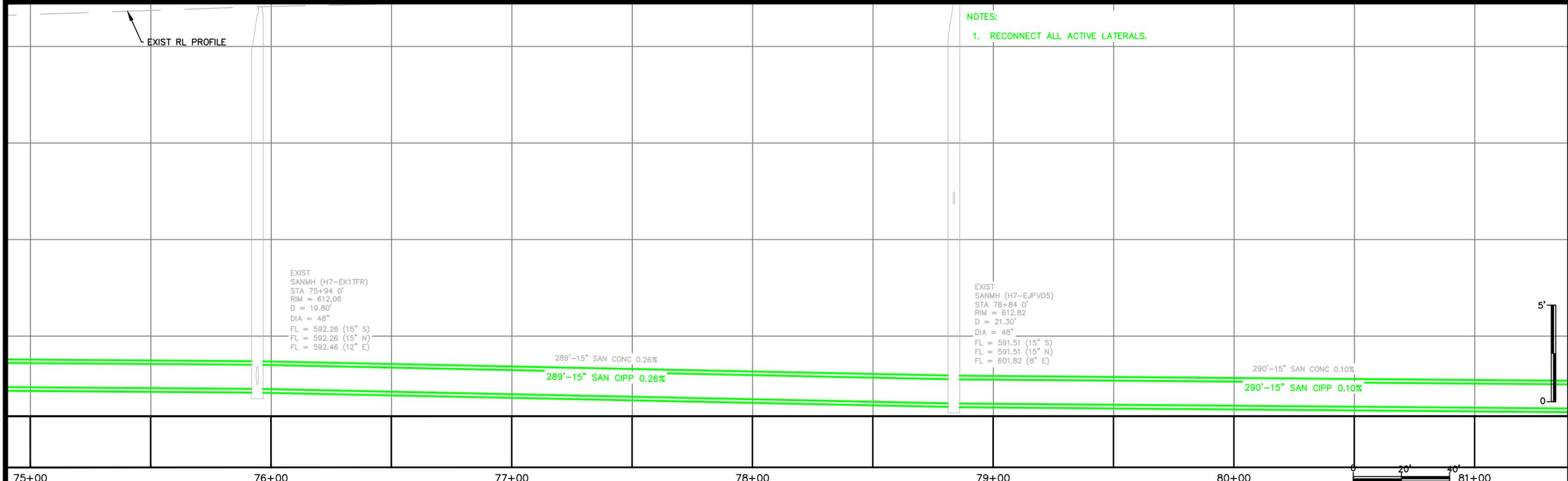
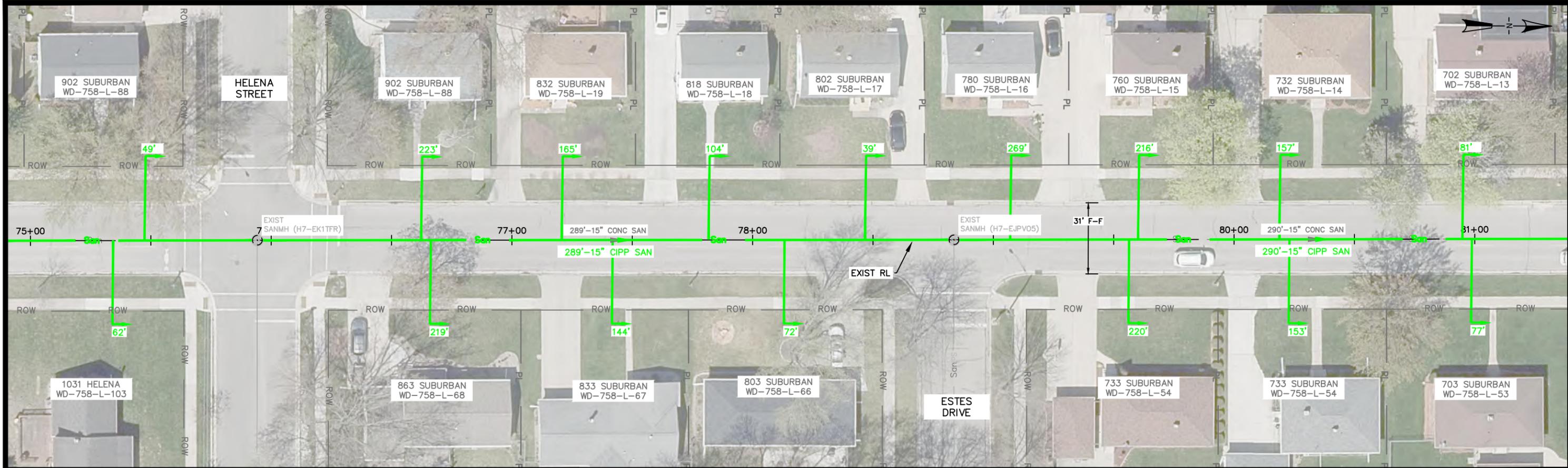
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- NOTES:**
1. RECONNECT ALL ACTIVE LATERALS.
  2. TELEWISE SANITARY LATERALS AS MARKED ON THE PLANS PRIOR TO LINING SANITARY MAIN.

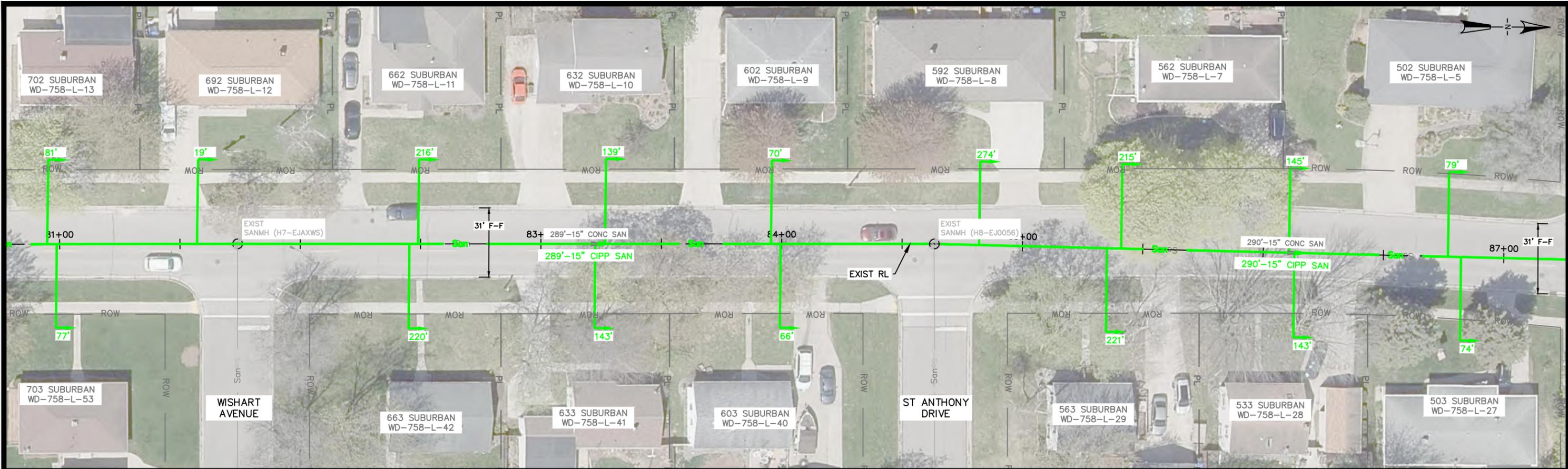
	<b>CITY OF DE PERE</b> ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071	<b>SUBURBAN DRIVE</b> <b>300' N/O AMHRT DR TO 450' N/O LOURDES AVE</b>	NAME:	SEWER LINING			BY	DATE	REVISIONS / ISSUES		PAGE NO.
			PROJECT #	23-03					NO.	DATE	
			SURVEYED			KAD	01-2023				
			DESIGNED			KAD	01-2023				
			CHECKED			EPR	01-2023				

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NOTES:  
1. RECONNECT ALL ACTIVE LATERALS.

	<b>CITY OF DE PERE</b>	<b>SUBURBAN DRIVE</b> <b>450' N/O LOURDES AVE TO 200' N/O ESTES DR</b>	NAME: SEWER LINING	BY: KAD	DATE: 01-2023	REVISIONS / ISSUES		PAGE NO. <b>C118</b>
	ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071		PROJECT # 23-03	DESIGNED: KAD 01-2023	CHECKED: EPR 01-2023	NO.	DATE	



NOTES:  
1. RECONNECT ALL ACTIVE LATERALS.

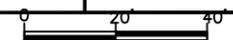
EXIST  
SANMH (H7-EJAXWS)  
STA 81+74 0'  
RIM = 614.61  
D = 23.50'  
DIA = 48"  
FL = 591.21 (15" S)  
FL = 591.11 (15" N)  
FL = 601.51 (8" E)

289'-15" SAN CONC 0.16%  
289'-15" SAN CIPP 0.16%

EXIST  
SANMH (H8-EJ0056)  
STA 84+63 0'  
RIM = 615.74  
D = 25.20'  
DIA = 48"  
FL = 590.64 (15" S)  
FL = 590.54 (15" N)  
FL = 601.24 (8" E)

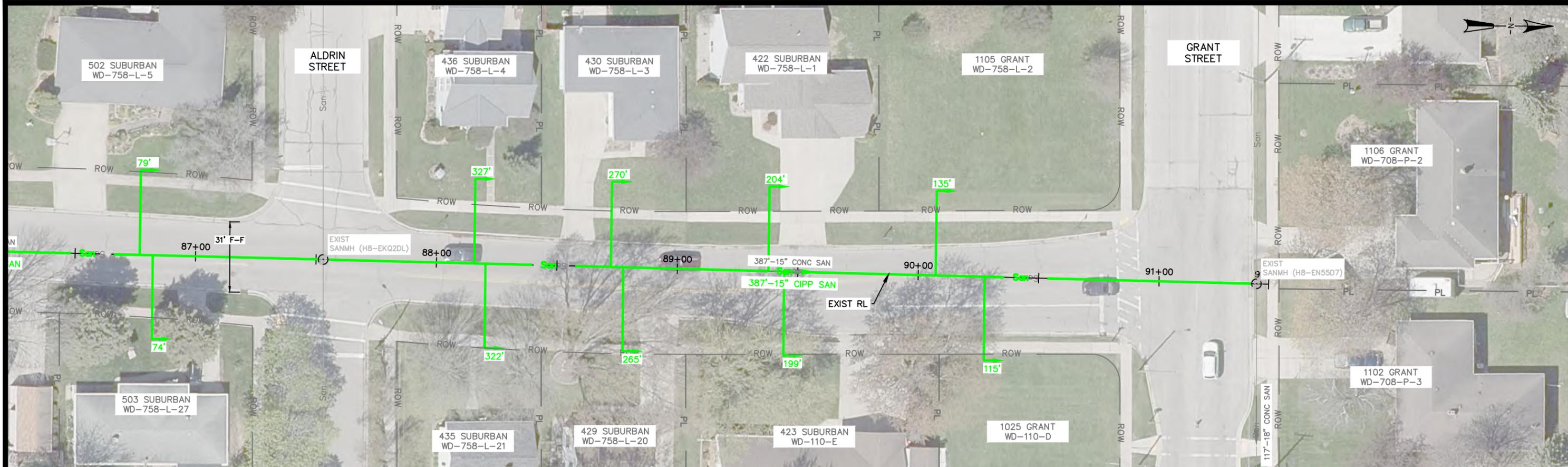
290'-15" SAN CONC 0.38%  
290'-15" SAN CIPP 0.38%

81+00                      82+00                      83+00                      84+00                      85+00                      86+00                      87+00

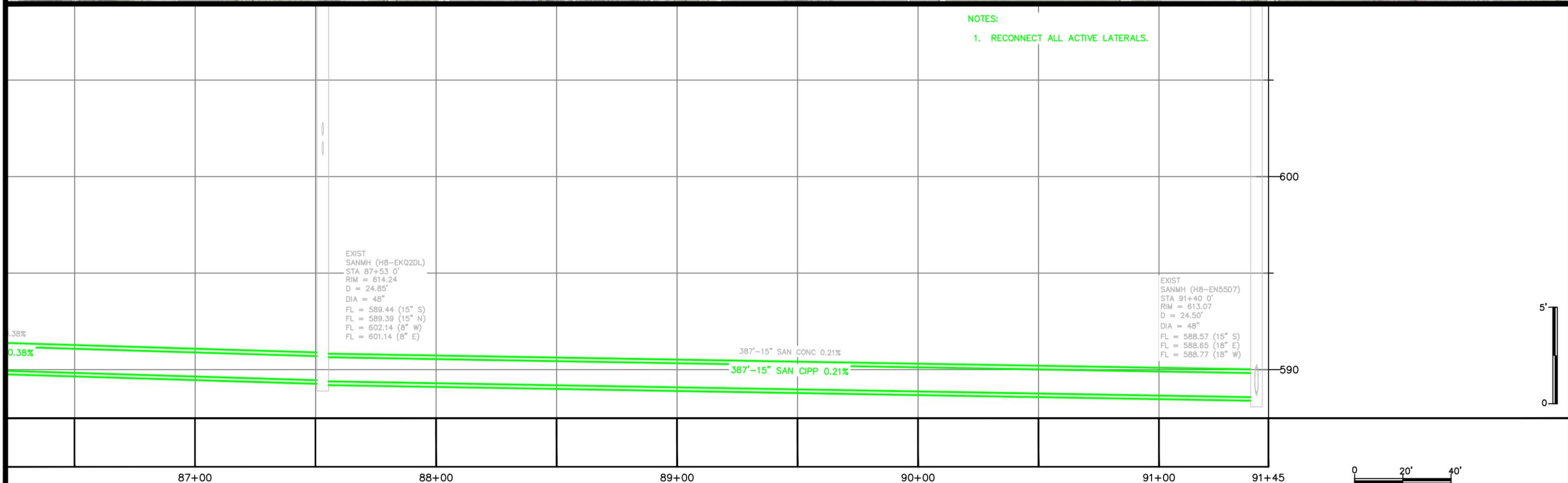


	<b>CITY OF DE PERE</b>		<b>SUBURBAN DRIVE</b>		NAME: SEWER LINING	BY: KAD	DATE: 01-2023	REVISIONS / ISSUES		PAGE NO. <b>C119</b>	
	ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115				PROJECT #	DESIGNED	01-2023	NO.	DATE		REMARKS
	OFFICE 920-339-4061 FAX 920-339-4071				23-03	CHECKED	01-2023				

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NOTES:  
1. RECONNECT ALL ACTIVE LATERALS.



EXIST  
SANMH (H8-EKQ2DL)  
STA 87+53.0'  
RIM = 614.24  
D = 24.85'  
DIA = 48"  
FL = 589.44 (15" S)  
FL = 589.39 (15" N)  
FL = 602.14 (8" W)  
FL = 601.14 (8" E)

EXIST  
SANMH (H8-EN55D7)  
STA 91+40.0'  
RIM = 613.07  
D = 24.50'  
DIA = 48"  
FL = 588.57 (15" S)  
FL = 588.65 (18" E)  
FL = 588.77 (18" W)

387'-15" SAN CONC 0.21%  
387'-15" SAN CIPP 0.21%

87+00

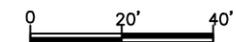
88+00

89+00

90+00

91+00

91+45



**CITY OF DE PERE**

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

**SUBURBAN DRIVE**

**250' N/O ST ANTHONY DR TO GRANT ST**

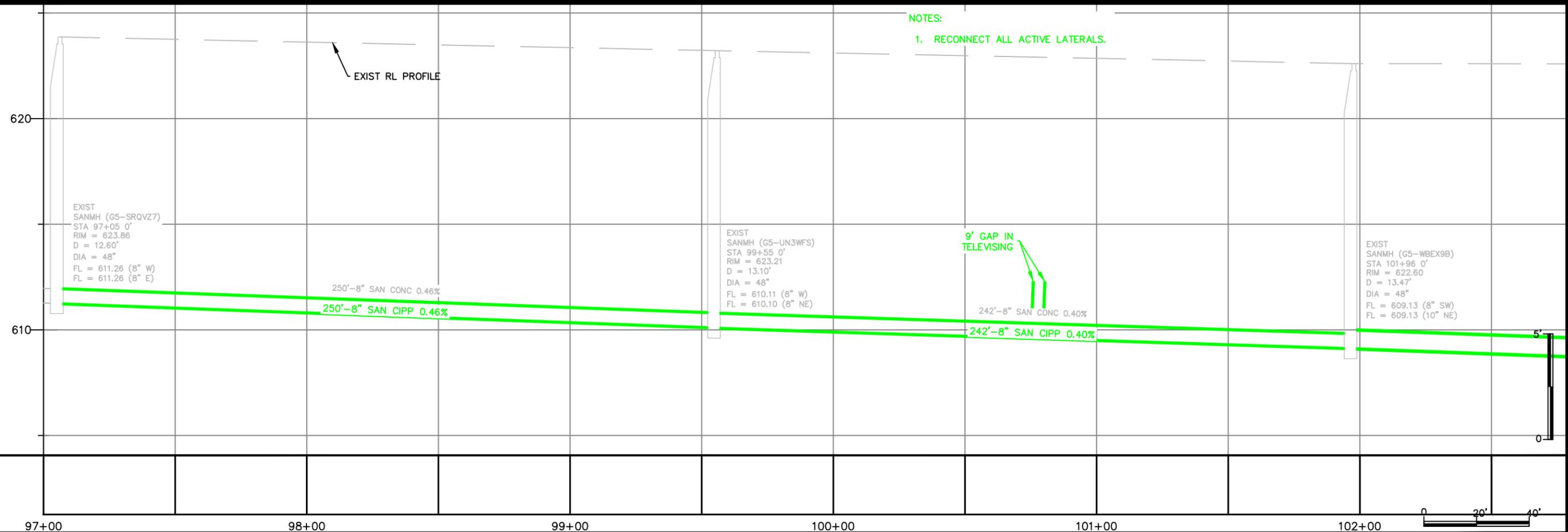
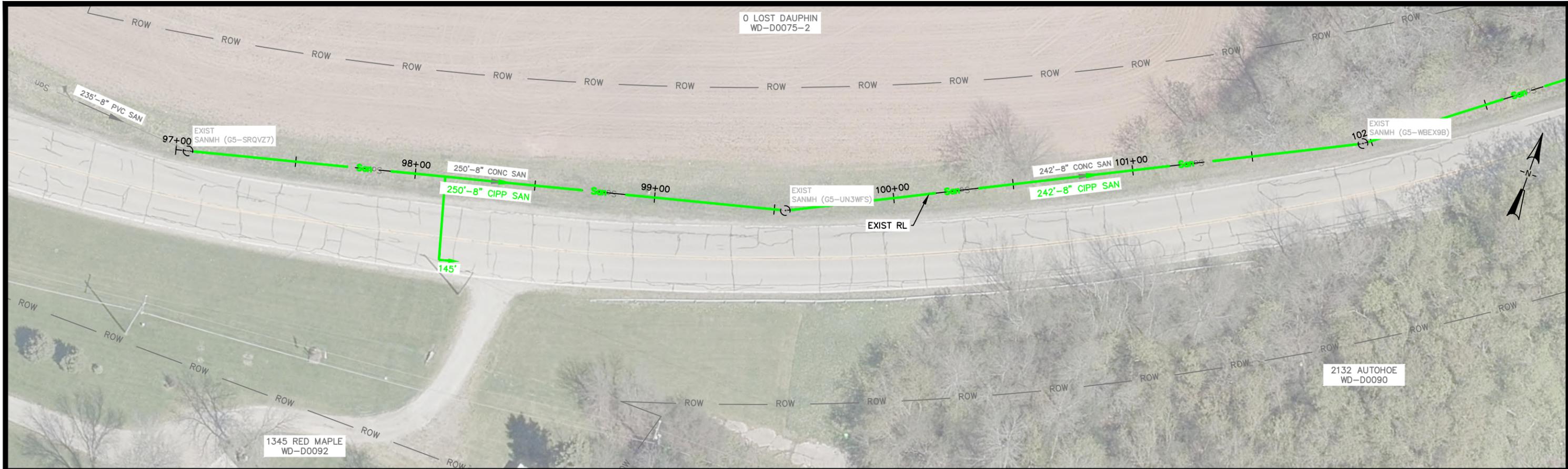
NAME: SEWER LINING

PROJECT # 23-03

	BY	DATE
SURVEYED		
DRAWN	KAD	01-2023
DESIGNED	KAD	01-2023
CHECKED	EPR	01-2023

REVISIONS / ISSUES		
NO.	DATE	REMARKS

PAGE NO.  
**C120**



NOTES:  
1. RECONNECT ALL ACTIVE LATERALS.

EXIST  
SANMH (G5-SRQVZ7)  
STA 97+05 0'  
RIM = 623.86  
D = 12.60'  
DIA = 48"  
FL = 611.26 (8" W)  
FL = 611.26 (8" E)

EXIST  
SANMH (G5-UN3WFS)  
STA 99+55 0'  
RIM = 623.21  
D = 13.10'  
DIA = 48"  
FL = 610.11 (8" W)  
FL = 610.10 (8" NE)

EXIST  
SANMH (G5-WBEX9B)  
STA 101+96 0'  
RIM = 622.60  
D = 13.47'  
DIA = 48"  
FL = 609.13 (8" SW)  
FL = 609.13 (10" NE)



**CITY OF DE PERE**

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

**RED MAPLE ROAD**

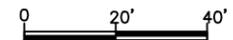
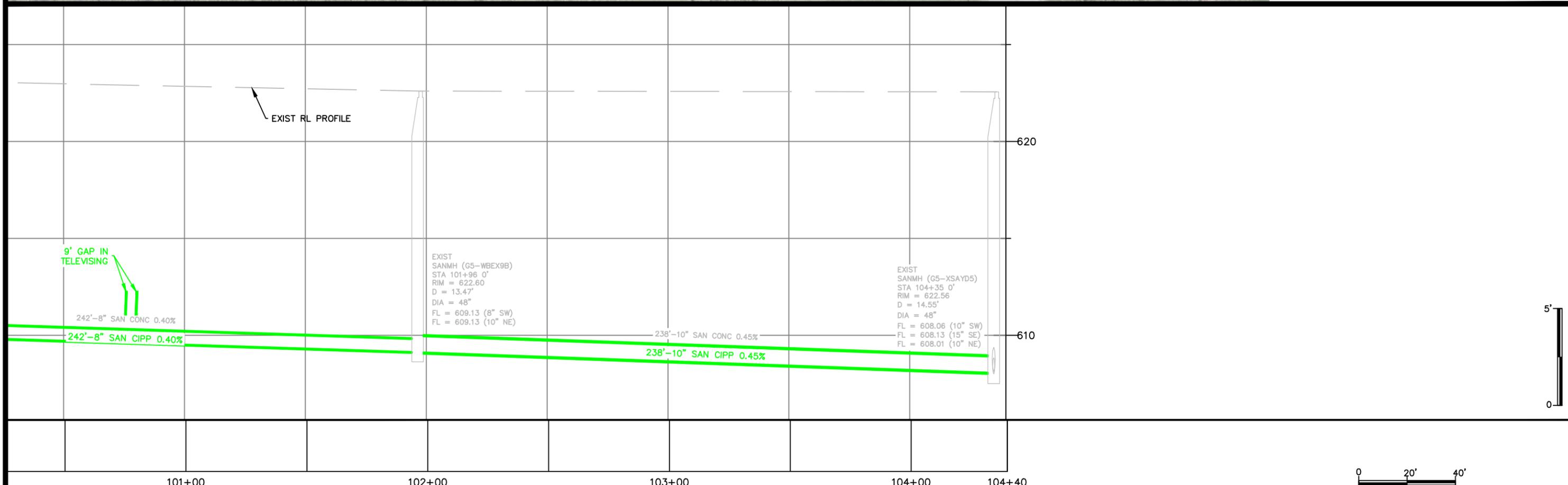
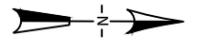
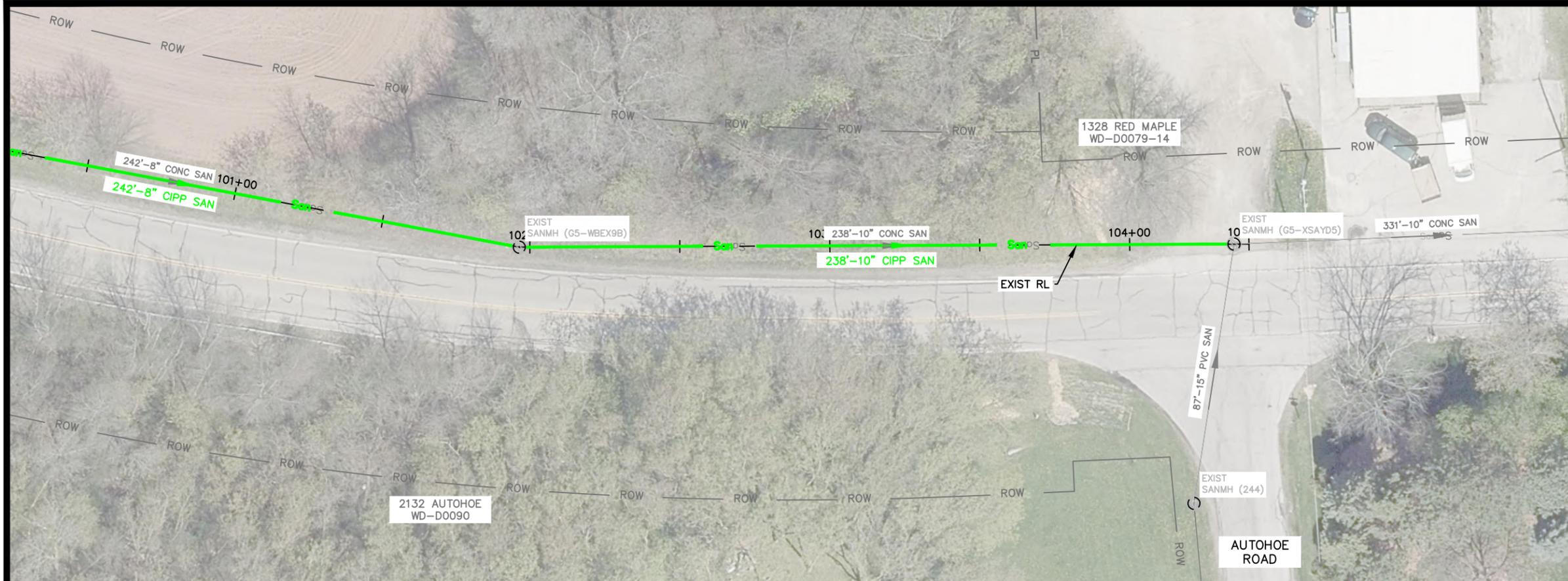
**235' E/O RED TAIL GLEN TO 835' E/O RED TAIL GLEN**

NAME: SEWER LINING  
PROJECT # 23-03

SURVEYED	BY	DATE
DRAWN	KAD	01-2023
DESIGNED	KAD	01-2023
CHECKED	EPR	01-2023

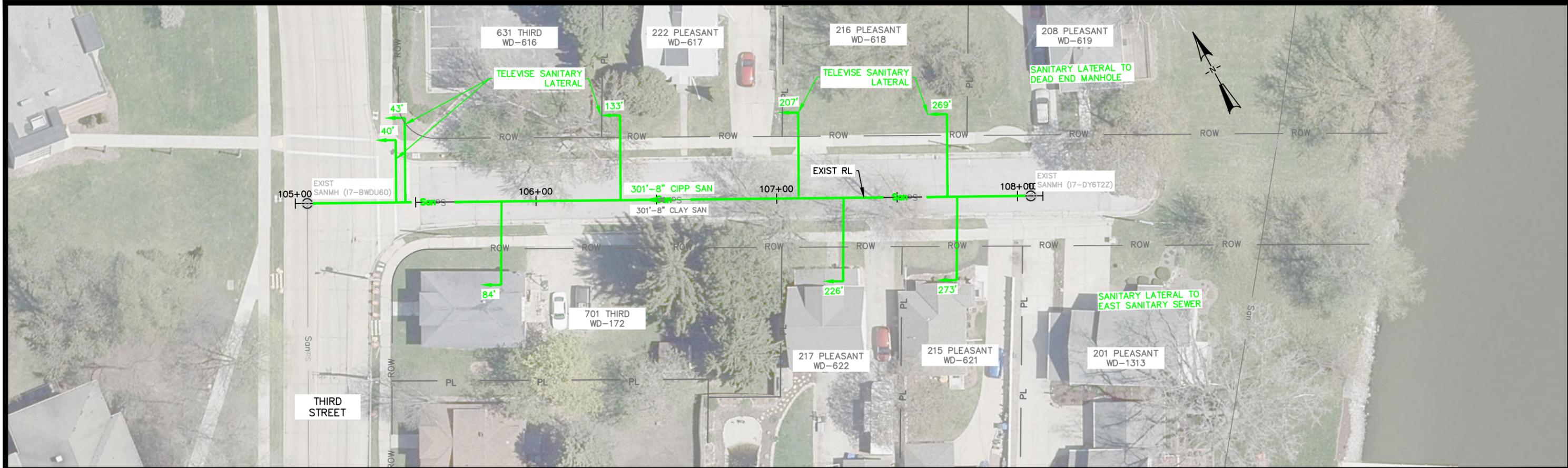
REVISIONS / ISSUES		
NO.	DATE	REMARKS

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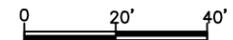
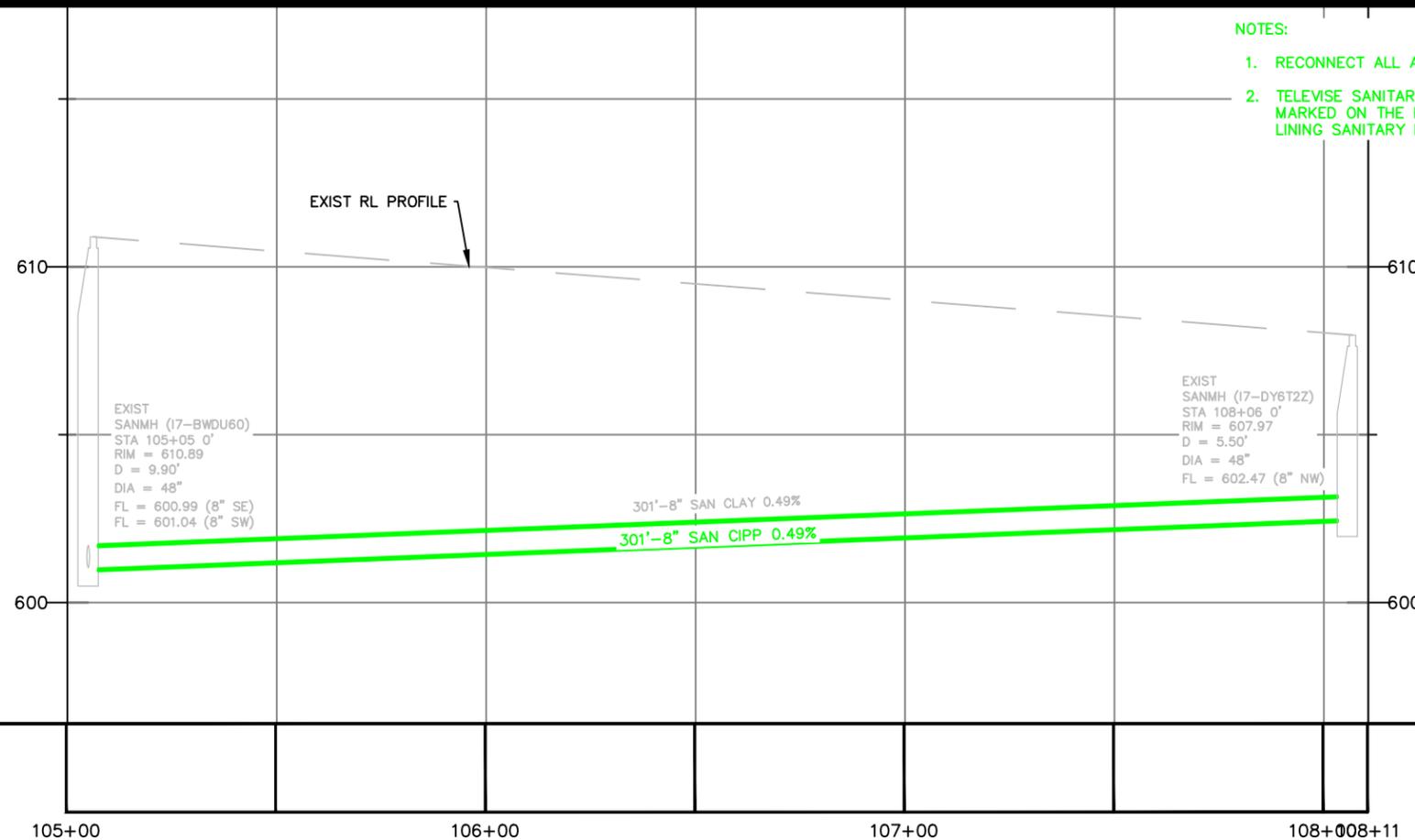
	<b>CITY OF DE PERE</b>	<b>RED MAPLE ROAD</b> <b>835' E/O RED TAIL GLEN TO AUTOHOE RD</b>	NAME:	SEWER LINING		BY:	DATE:	REVISIONS / ISSUES			PAGE NO.
	ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071		PROJECT #	23-03				NO.	DATE	BY	
			SURVEYED			KAD	01-2023				
			DESIGNED			KAD	01-2023				
			CHECKED			EPR	01-2023				

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**NOTES:**

1. RECONNECT ALL ACTIVE LATERALS.
2. TELEWISE SANITARY LATERALS AS MARKED ON THE PLANS PRIOR TO LINING SANITARY MAIN.



**CITY OF DE PERE**

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

**PLEASANT PLACE  
THIRD ST TO TERMINI**

NAME: SEWER LINING

PROJECT # 23-03

NO.	DATE	BY	REVISIONS / ISSUES
SURVEYED			
DRAWN	KAD	01-2023	
DESIGNED	KAD	01-2023	
CHECKED	EPR	01-2023	

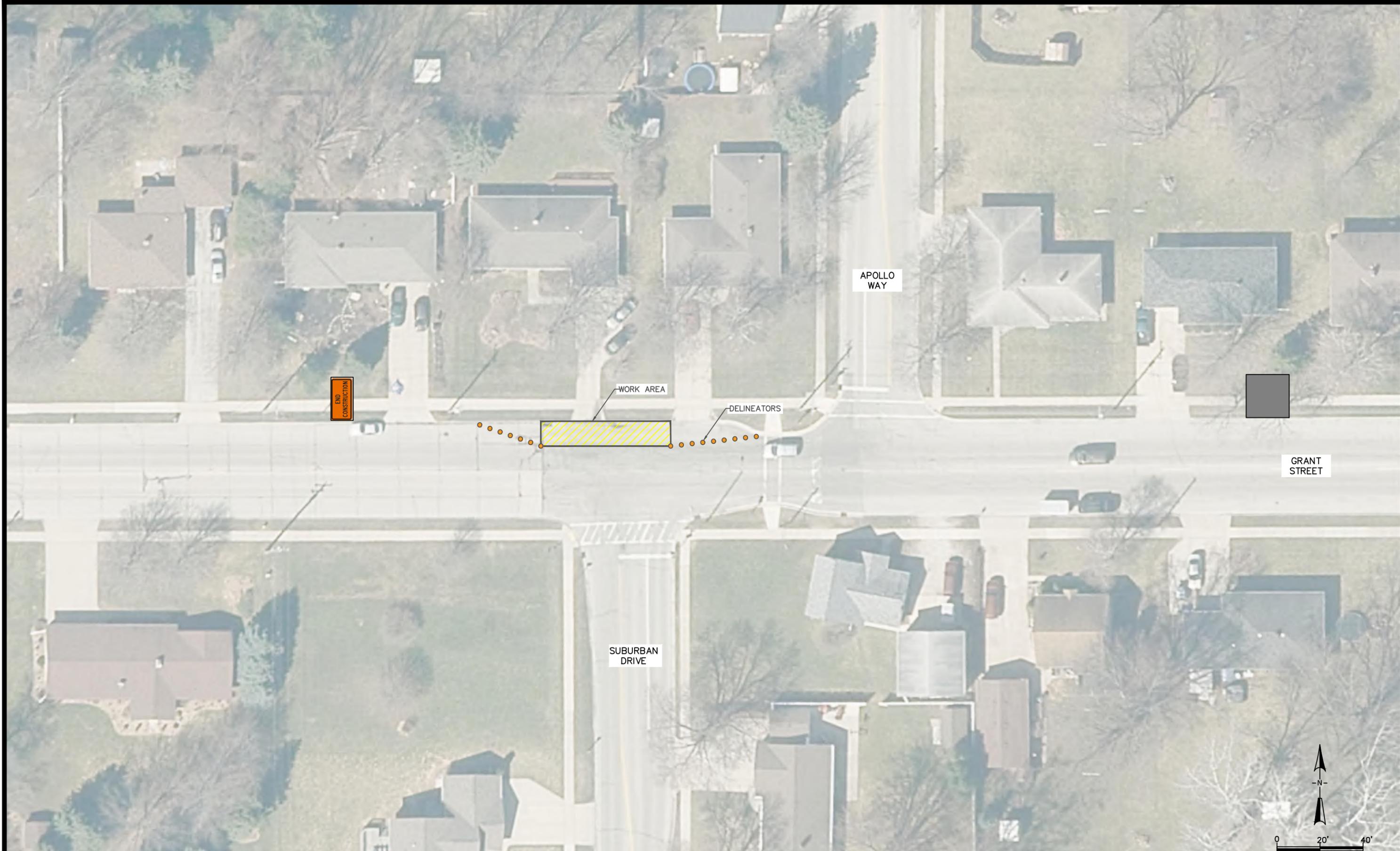
NO.	DATE	BY	REMARKS

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NAME: SEWER LINING	BY	DATE	REVISIONS / ISSUES		PAGE NO. <b>C401</b>
PROJECT # 23-03	SURVEYED KAD	02-2023	NO.	DATE	
	DESIGNED EPR	02-2023	BY	REMARKS	
	CHECKED				



END  
CONSTRUCTION

WORK AREA

DELINEATORS

APOLLO  
WAY

GRANT  
STREET

SUBURBAN  
DRIVE



0 20' 40'



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ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
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**TRAFFIC CONTROL PLAN  
SUBURBAN DRIVE AND GRANT STREET**

NAME:  
SEWER LINING

PROJECT # 23-03

	BY	DATE
SURVEYED		
DRAWN	KAD	02-2023
DESIGNED		
CHECKED	EPR	02-2023

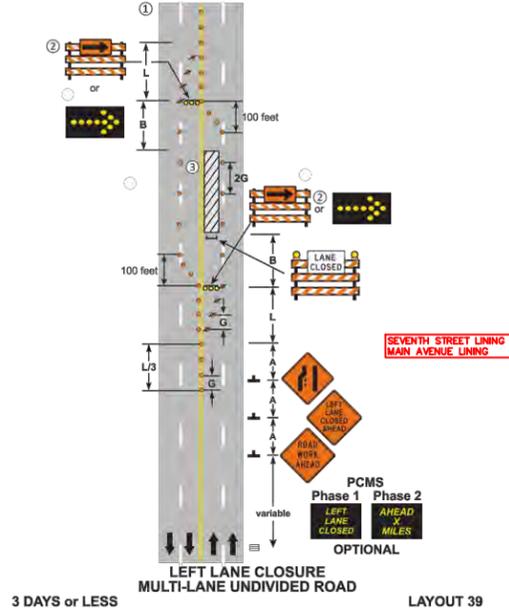
REVISIONS / ISSUES		
NO.	DATE	BY

PAGE NO.  
**C402**

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**NOTES:**

- The advance warning sign sequence is shown for one direction only. Signing from the other direction shall be identical.
- For speeds 45 mph and greater, an Arrow Board shall be used. If Arrow Board is not used, substitute a Type III Barricade with W01-6 Sign in the lane closure taper.
- Lane may be opened when workers are not present in the work area.
- END ROAD WORK sign should be placed 500 feet past work area.
- When available width is less than 16 feet, a Max Width (W12-52) sign should be used with a posted width 1 foot less than available width.



**NOTES:**

- The Flaggers and the Flagger Ahead signs may be omitted if the posted speed limit is 40 mph or less and there is at least 10 feet of drivable surface outside of the channelizing devices.
- Parking and stopping should be prohibited along the work area and tapers.
- The flagger shall be visible for at least the Decision Sight Distance (D).
- END ROAD WORK sign should be placed 500 feet past work area.
- When available width is less than 16 feet a Max Width (W12-52) sign should be used with a posted width 1 foot less than available width.

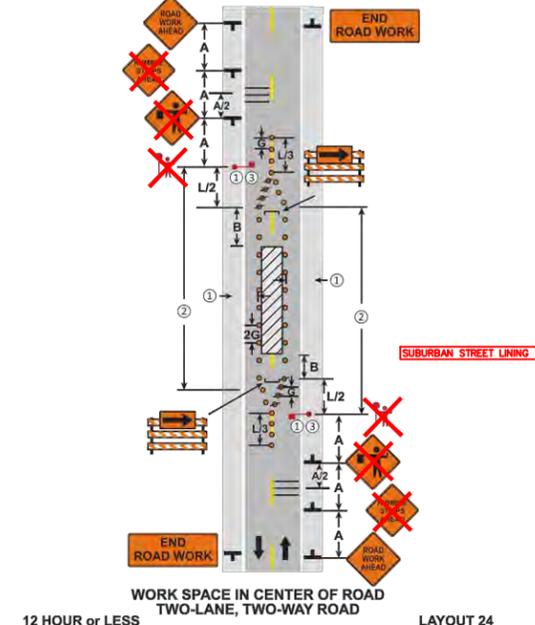
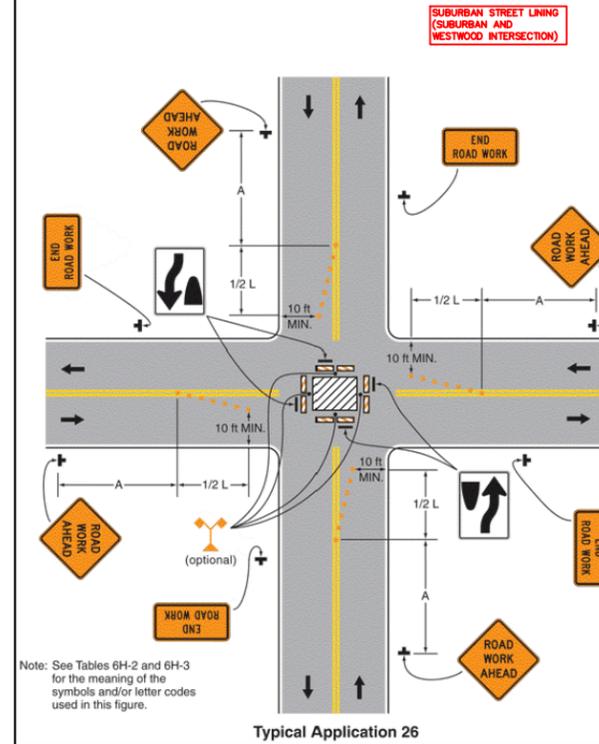


Figure 6H-26. Closure in the Center of an Intersection (TA-26)

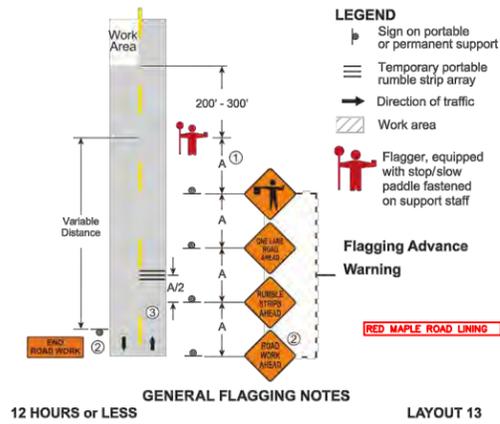


**NOTES:**

- The first advance warning sign should typically be located in advance of the anticipated traffic backup or queue.
- When a side road or ramp intersects the facility on which the work is being performed, additional traffic controls shall be provided.

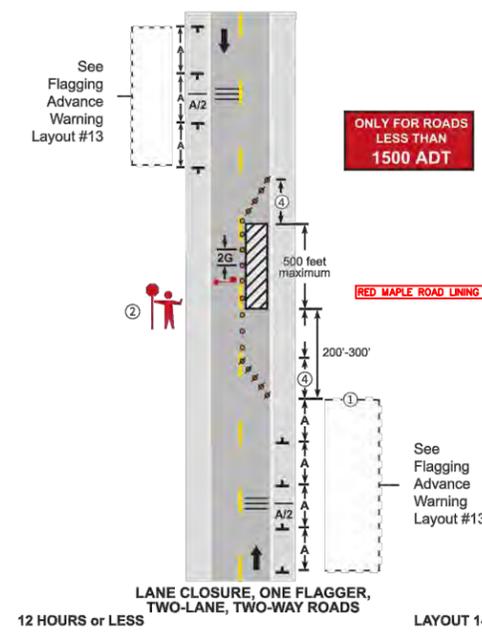
**FLAGGING**

- When the flagging operation is not in effect, remove temporary portable rumble strips prior to covering or removing all advance signing.
- For moving work operations, post additional W20-7a flagger signs at approximately 3,500' intervals in the moving work operation.
- Sign not required if flagging operation occurs within a signed road work zone area.
- The Flagger may be equipped with an air horn.
- STOP/SLOW paddle sign size is minimum of 18" x 18"
- TEMPORARY PORTABLE RUMBLE STRIPS**
- Utilize temporary portable rumble strips on all flagging operations that last longer than 60 minutes.
- Each temporary portable rumble strip array consists of three rumble strips placed perpendicular to the direction of travel according to manufacturers recommendation, placed transverse across the lane at locations shown.
- Only use temporary portable rumble strips from the approved products list.
- Place advance signing prior to installing temporary portable rumble strips.
- Do not install temporary portable rumble strips on gravel, milled surfaces, or asphalt that has been paved for less than 12 hours.
- Temporary portable rumble strips are not required on roadways with posted speed limits of 35 mph or less.



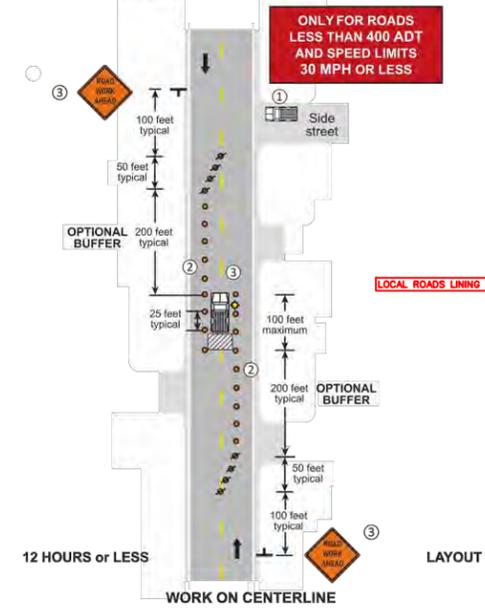
**NOTES:**

- The approach sight distance to the flagger shall be at least the Decision Sight Distance (D).
- If the flagger's ability to see oncoming motorists beyond the work space is less than the Decision Sight Distance (D), two flaggers shall be used.
- If the work space must be left unattended at night use Layout 12.
- The two-way taper should be 60 feet in length and using 5 equally spaced channelizing devices.
- END ROAD WORK sign should be placed 500 feet past work area.



**NOTES:**

- Additional Work Vehicle shall be parked off of the roadway. Do not obstruct the shoulder in the work area.
- A minimum of 10 feet of drivable surface outside of the channelizers should be maintained on all sides. Anything less than 10 feet shall be approved by the road authority.
- Channelizers and ROAD WORK AHEAD signs are optional at 15 minutes or less.
- END ROAD WORK sign should be placed 500 feet past work area.
- When available width is less than 16 feet, a Max Width (W12-52) sign should be used with a posted width 1 foot less than available width.



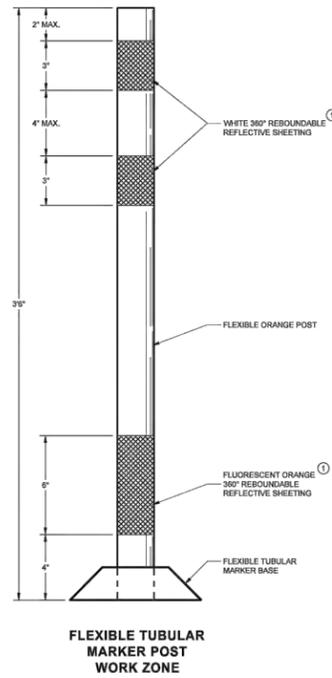
**CITY OF DE PERE**

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

**TRAFFIC CONTROL DETAILS**

NAME: SEWER LINING	BY	DATE	REVISIONS / ISSUES		PAGE NO. <b>C403</b>
PROJECT # 23-03	SURVEYED	02-2023	NO.	DATE	
	DRAWN	KAD	BY	REMARKS	
	DESIGNED	EPR			

SDD 15C11-a Channelizing Devices, Flexible Tubular Marker Post

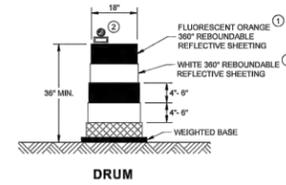


**GENERAL NOTES**  
 DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.  
 SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.  
 THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.  
 ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

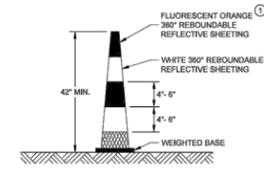
**CHANNELIZING DEVICES  
 FLEXIBLE TUBULAR  
 MARKER POST**  
 STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
 APPROVED  
 May 2021 */s/ Andrew Heistler*  
 DATE WORK ZONE ENGINEER

SDD 15C11 - 09a

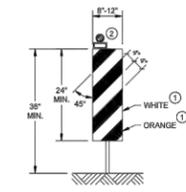
SDD 15C11-b Channelizing Devices, Drums, Cones, Barricades and Vertical Panels



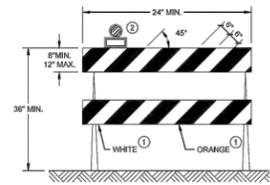
**DRUM**



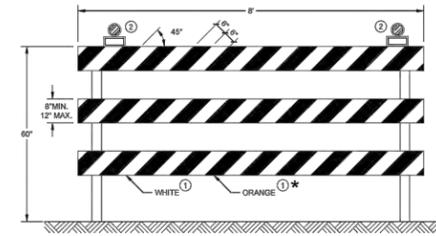
**42" CONE**  
 DO NOT USE IN TAPERS  
 1/2 SPACING OF DRUMS



**VERTICAL PANEL**  
 THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



**TYPE II BARRICADE**  
 FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



**TYPE III BARRICADE**  
 IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.  
 \* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

**GENERAL NOTES**  
 ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.  
 ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

**CHANNELIZING DEVICES  
 DRUMS, CONES, BARRICADES  
 AND VERTICAL PANELS**  
 STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
 APPROVED  
 May 2021 */s/ Andrew Heistler*  
 DATE WORK ZONE ENGINEER

SDD 15C11 - 09b

SDD 15C11 - 09a

6

6

6

6



**CITY OF DE PERE**  
 ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115  
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**TRAFFIC CONTROL DETAILS**

NAME: SEWER LINING	BY	DATE	REVISIONS / ISSUES		PAGE NO. <b>C404</b>
PROJECT # 23-03	SURVEYED	02-2023	NO.	DATE	
	DRAWN	02-2023	BY	REMARKS	
	DESIGNED				
	CHECKED	02-2023			

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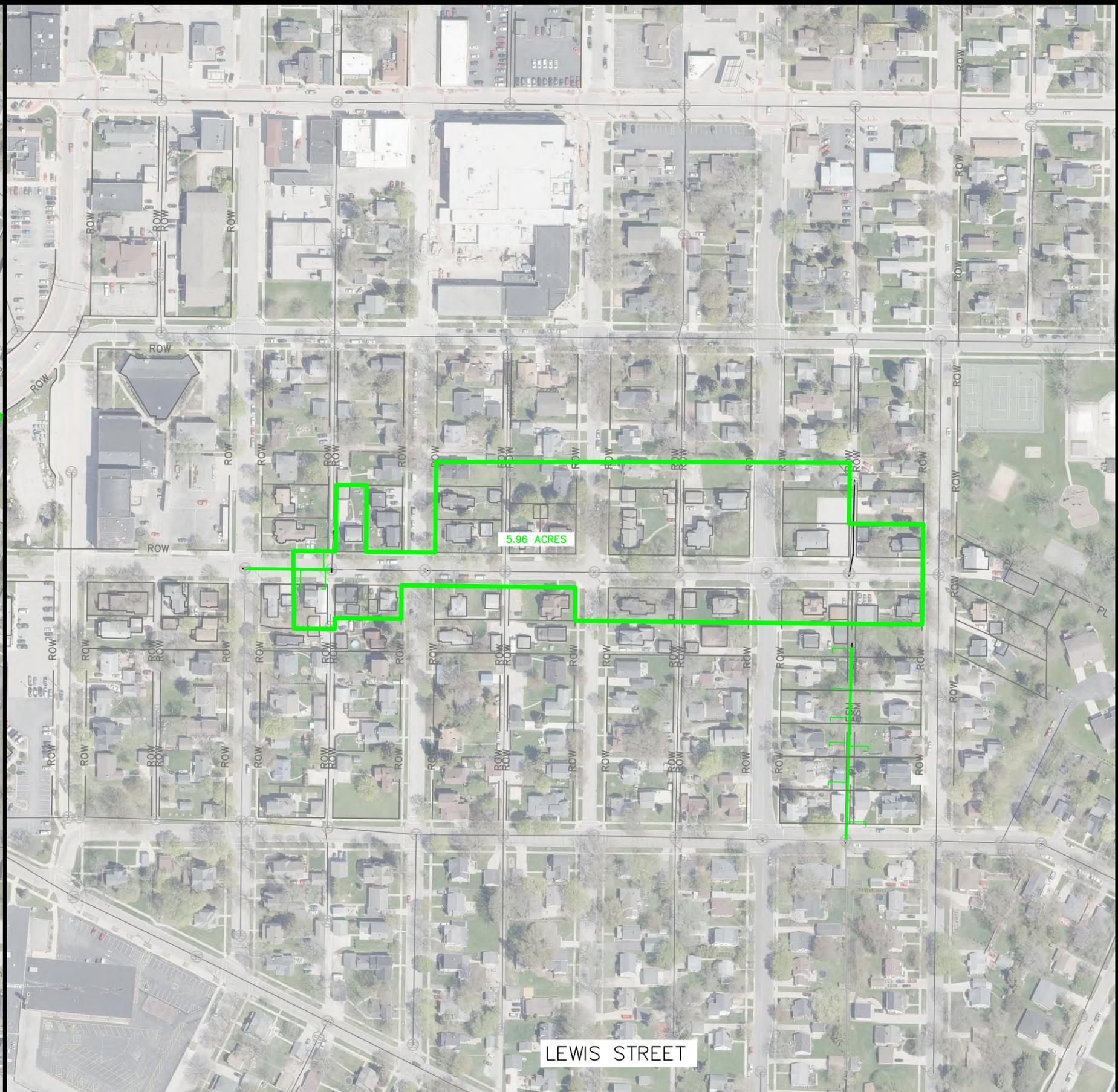
**STORM SEWER EASEMENT  
 WESTWOOD DR TO S SEVENTH ST**

NAME: SEWER LINING  
 PROJECT # 23-03

NO.	DATE	BY
SURVEYED	01-2022	MJT
DRAWN	01-2022	MJT
DESIGNED	01-2022	MJT
CHECKED	01-2022	EPR

REVISIONS / ISSUES		
NO.	DATE	REMARKS

PAGE NO.  
**C405**



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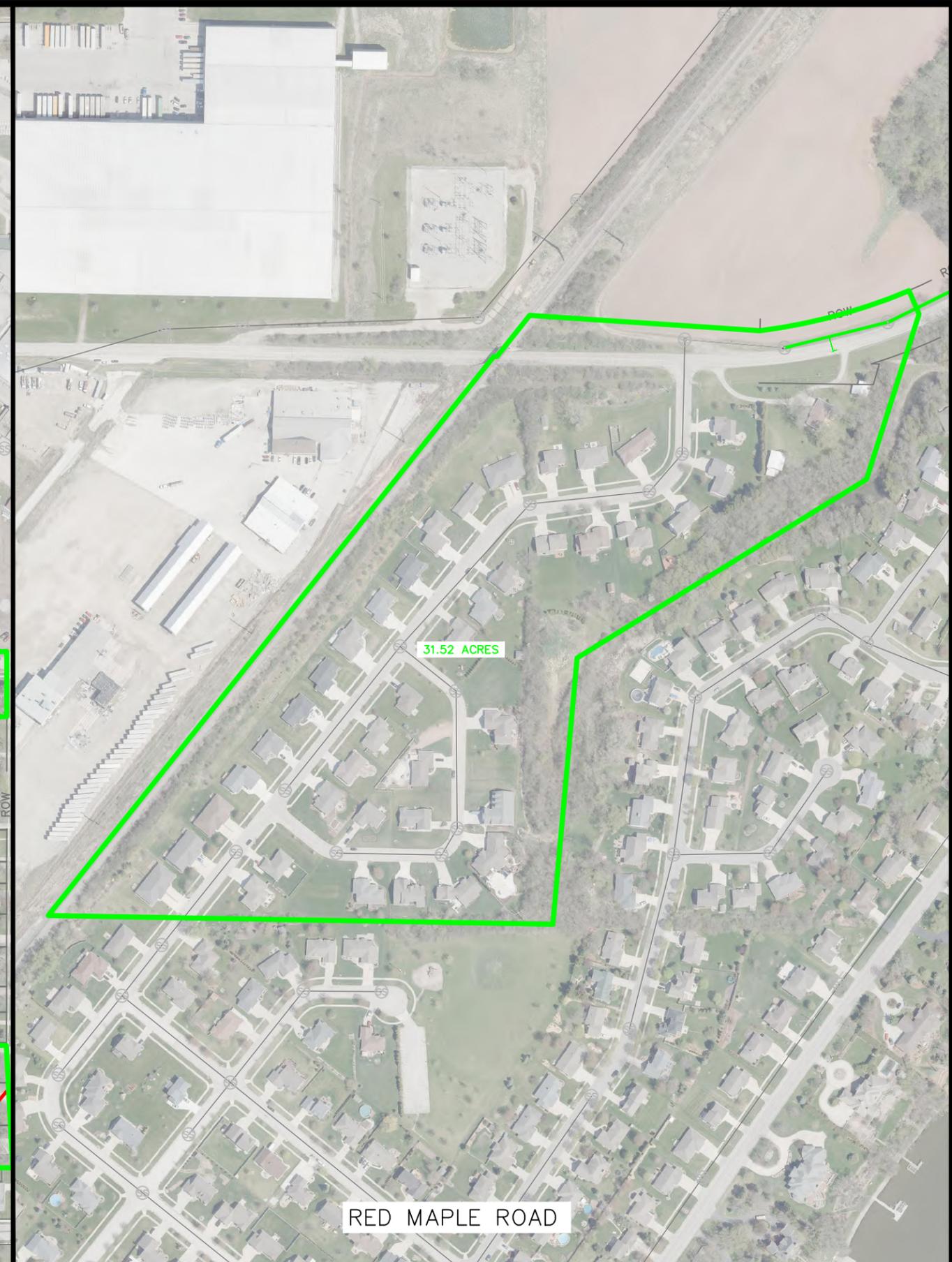
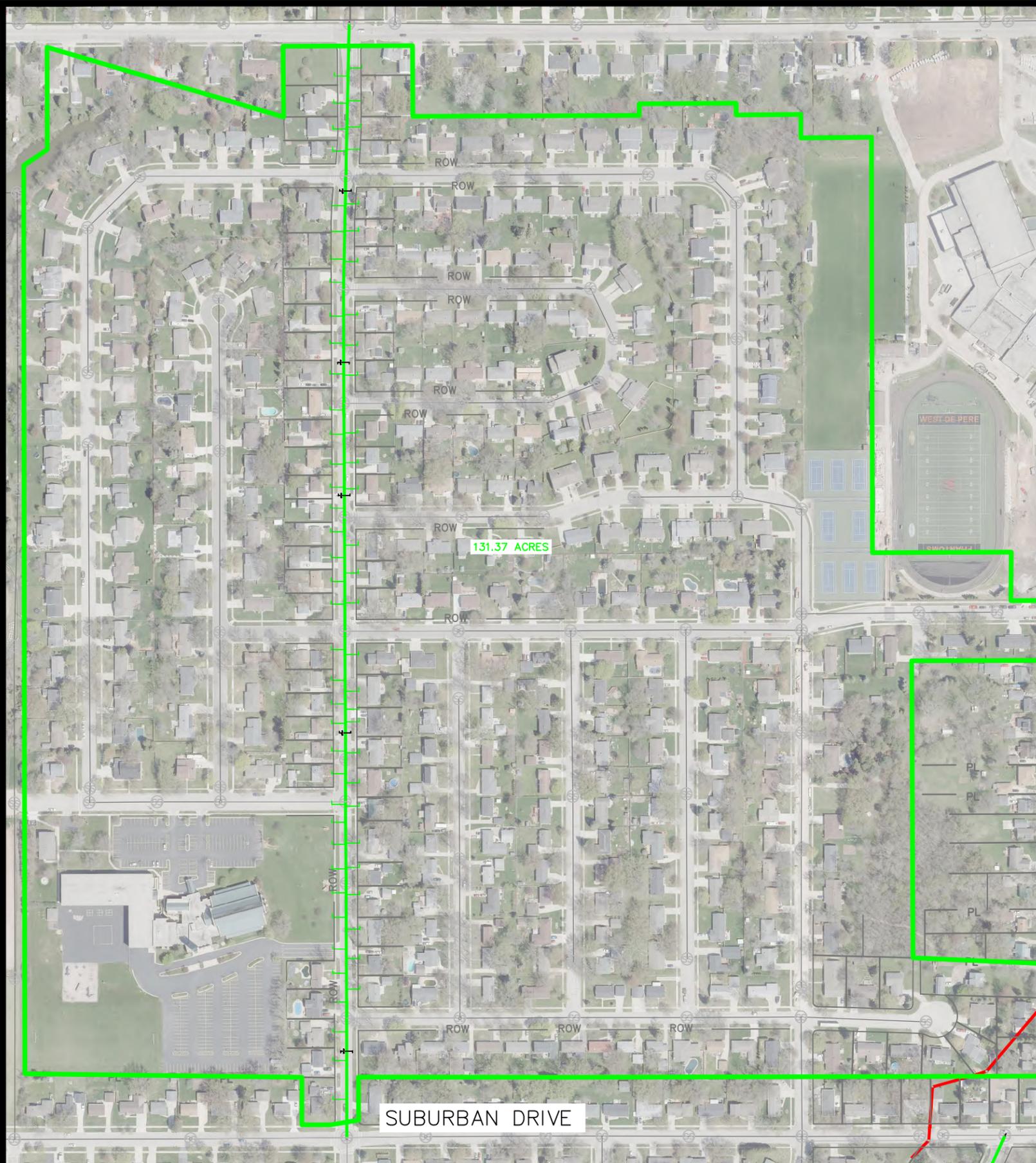
**DRAINAGE BASIN MAPS  
 MISCELLANEOUS LOCATIONS**

NAME: SEWER LINING

PROJECT # 23-03

	BY	DATE
SURVEYED		
DRAWN	KAD	01-2023
DESIGNED	KAD	01-2023
CHECKED	EPR	01-2023

REVISIONS / ISSUES		
NO.	DATE	REMARKS



NAME: SEWER LINING	BY	DATE	REVISIONS / ISSUES		PAGE NO. <b>C407</b>	
PROJECT # 23-03	SURVEYED DRAWN DESIGNED CHECKED	KAD KAD EPR	NO.	DATE		BY



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**DRAINAGE BASIN MAPS  
 MISCELLANEOUS LOCATIONS**

NAME: SEWER LINING

PROJECT # 23-03

	BY	DATE
SURVEYED		
DRAWN	KAD	01-2023
DESIGNED	KAD	01-2023
CHECKED	EPR	01-2023

REVISIONS / ISSUES			
NO.	DATE	BY	REMARKS