

CITY OF DE PERE

PROJECT

22-11

2022 UTILITY AND STREET CONSTRUCTION WATERVIEW HEIGHTS FIFTH ADDITION

**BID DATE:
JUNE 30, 2022
@ 1:00 PM**

Bid documents, including plans and specifications, are available for download at www.QuestCDN.com. The QuestCDN website can also be accessed through the City website at 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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JUNE 10, 2022 – JUNE 17, 2022

CITY OF DE PERE

ADVERTISEMENT TO BID

PROJECT 22-11

2022 UTILITY AND STREET CONSTRUCTION WATERVIEW HEIGHTS FIFTH ADDITION

Online bids will be received and accepted for Project 22-11 2022 Utility and Street Construction Waterview Heights Fifth Addition via the online electronic bidding service through QuestCDN.com, until 1:00 PM, Thursday, June 30, 2022, at which time they will be publicly accepted, displayed and read aloud.

Project 22-11 for which proposals are being sought includes the following approximate quantities:

- 4,800 LF New Sanitary Sewer (8-inch)
- 5,900 LF New Water Main (8-inch to 12-inch)
- 8,800 LF New Storm Sewer (8-inch to 42-inch)
- New Sanitary Sewer Lateral Installation (4-inch), and Associated Appurtenances
- New Water Service Installation (1-inch), and Associated Appurtenances
- New Storm Sewer Lateral Installation (6-inch), and Associated Appurtenances
- 18,600 CY Pond Unclassified Excavation
- Street Unclassified Excavation
- 11,000 LF New Concrete Curb and Gutter
- 1,400 SY New 6-inch Concrete Sidewalk
- 4,000 Tons of Asphaltic Concrete Pavement Placement
- Erosion Control & Restoration

Complete digital project bidding documents are available for viewing and/or downloading at 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 #8169523 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 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 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

Project 22-11
2022 Utility and Street Construction Waterview Heights Fifth Addition

City of De Pere

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 Director of Public Works. Such forms shall be filed with the Director of Public Works no later than 4:00 PM, Monday, June 27, 2022. Prospective bidders who have previously submitted such forms subsequent to January 1, 2022 will not be required to separately submit such form for this project.

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

Dated this 10th day of June 2022.

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

Project 22-11

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 1st of this year will not be required to separately submit such form for this project.

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

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

4.3 Subsurface and Physical Conditions

- A. The technical data includes:
 - 1. Those reports known to Owner of explorations and tests of subsurface conditions at or contiguous to the Site; and
 - 2. Those drawings known to Owner of physical conditions relating to existing surface or subsurface structures at the Site (except underground Facilities).
 - 3. In preparation of the Plans and Specifications, Engineer relied upon the following reports of explorations and tests of subsurface conditions at the Site:
 - a. Waterview Heights Fifth Addition Soil Boring Log by PSI (Draft)
- B. Limited Reliance by Contractor on Technical Data Authorized: Contractor may rely upon the accuracy of the “technical data” contained in such reports and drawings, but such reports and drawings are not Contract Documents. Contractor may not rely upon or make any claim against Owner, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors with respect to:
 - 1. the completeness of such reports and drawings for Contractor’s purposes, including but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto; or
 - 2. Other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or
 - 3. Any Contractor interpretation of or conclusion drawn from any “technical data” or any such other data, interpretations, opinions, or information.

4.4 On request, Owner will provide Bidder access to the Site to conduct such examinations, investigations, explorations, tests, and studies as Bidder deems necessary for submission of a Bid. Bidder shall fill all holes and clean up and restore the Site to its former condition upon completion of such explorations, investigations, tests, and studies. Bidder shall comply with all applicable Laws and Regulations relative to excavation and utility locates.

4.5 Reference is made to Section 01 10 00: Summary of Work, for work that will be completed and for the identification of the general nature of other work that is to be performed at the Site by Owner or others (such as utilities and other prime contractors) that relates to the Work contemplated by these Bidding Documents. On request, Owner will provide to each Bidder for examination access to or copies of Contract Documents (other portions thereof related to price) for such other work.

4.6 It is the responsibility of each Bidder before submitting a Bid to:

- A. Examine and carefully study the Bidding Documents, the other related data identified in the Bidding Documents, and any Addenda;
- B. Visit the Site and become familiar with and satisfy Bidder as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work;

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

ARTICLE 5 – SITE AND OTHER AREAS

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

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

ARTICLE 6 – INTERPRETATIONS AND ADDENDA

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

ARTICLE 7 – BID SECURITY

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

ARTICLE 8 – CONTRACT TIMES

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

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

ARTICLE 9 – LIQUIDATED DAMAGES

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

ARTICLE 10 – SUBSTITUTE AND “OR-EQUAL” ITEMS

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

ARTICLE 11 – SUBCONTRACTORS, SUPPLIERS, AND OTHERS

11.1 The Bidder shall submit with the Bid to Owner a list of all such Subcontractors, Suppliers, individuals, or entities proposed for those portions of the Work for which such identification is required. Such list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each such Subcontractor, Supplier, individual, or entity, Owner may, before the Notice of Award is given, request apparent Successful Bidder to submit a substitute, in which case apparent Successful Bidder shall submit an acceptable substitute, Bidder’s Bid price will be increased (or decreased) by the difference in cost occasioned by such substitution, and Owner may consider such price adjustment in evaluating Bids and making the Contract award.

11.2 If apparent Successful Bidder declines to make any such substitution, Owner may award the Contract to the next lowest Bidder that proposed to use acceptable Subcontractors, Suppliers, individuals, or entities. Declining to make requested substitutions will not constitute grounds for forfeiture of the Bid security of any Bidder. Any Subcontractor, Supplier, individual, or entity so listed and against which Owner makes no written objection prior to the giving of the Notice of Award will be deemed acceptable to Owner subject to revocation of such acceptance after the Effective Date of the Agreement.

11.3 Contractor shall not be required to employ any Subcontractor, Supplier, individual, or entity against whom Contractor has reasonable objection.

ARTICLE 12 – PREPARATION OF BID

12.1 The Bid form is included with the Bidding documents.

12.2 All blanks on the Bid Form shall be completed by printing in ink or by typewrite and the Bid signed in

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

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

ARTICLE 13 – BASIS OF BID; COMPARISON OF BIDS

13.1 Unit Price

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

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

ARTICLE 14 – SUBMITTAL OF BID

14.1 A Bid shall be submitted no later than date and time prescribed and at place indicated in Advertisement for Bids and shall be submitted electronically using the QuestCDN online bidding vBid platform. No paper bids will be accepted.

14.2 See Bid Form for a list of documents typically required to be submitted with the Bid.

ARTICLE 15 – MODIFICATION AND WITHDRAWAL OF BID

15.1 A Bid may be modified or withdrawn by an appropriate document duly executed in the manner that a Bid must be executed and delivered to the place where Bids are to be submitted prior to the date and time for the opening of Bids.

15.2 If within 24 hours after Bids are opened, any Bidder files a duly signed written notice with Owner and promptly thereafter demonstrates to the reasonable satisfaction of Owner that there was a material and substantial mistake in the preparation of its Bid, that Bidder may withdraw its Bid, and the Bid security will be returned. Thereafter, if the Work is rebid, that Bidder will be disqualified from further bidding on the Work.

ARTICLE 16 – OPENING BIDS

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

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

<https://meet.goto.com/387187157>

You can also dial in using your phone.

United States (Toll Free): 1 877 309 2073
- One-touch: <tel:+18773092073,387187157#>

Access Code: 387-187-157

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

ARTICLE 17 – BIDS REMAIN SUBJECT TO ACCEPTANCE

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

ARTICLE 18 – EVALUATION OF BIDS AND AWARD OF CONTRACT

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

ARTICLE 19 – CONTRACT SECURITY AND INSURANCE

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

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

ARTICLE 20 – SIGNING OF AGREEMENT

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

END OF SECTION

SECTION 00 41 13

CITY OF DE PERE

BID FORM

PROJECT 22-11

This bid, submitted by the undersigned Bidder to the City of De Pere, in accordance with the Advertisement to Bid, which will be received until 1:00 PM, Thursday June 30, 2022 is to furnish and deliver all materials, and to perform and do all work on the project designated per Section 01 10 00 Summary of Work.

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

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

Addendum No.

Addendum Date

BASIS OF BID:

Bidder will complete the Work in accordance with the Contract documents for the following price(s):

As stated in the attached Unit Price Bid Schedule.

Unit Prices have been computed in accordance with the General Conditions.

Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

TOTAL BID PRICE: \$_____

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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)

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City of De Pere

Name (typed or printed): _____

Title: _____

(CORPORATE SEAL)

Attest _____

Date of Qualification to do business in Wisconsin is ____/____/____.

Joint Venture

Name of Joint Venture: _____

First Joint Venturer Name: _____ (SEAL)

By: _____

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

Name (typed or printed): _____

Title: _____

Second Joint Venturer Name: _____ (SEAL)

By: _____

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

Name (typed or printed): _____

Title: _____

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

Bidder's Business Address _____

Phone No. _____ Fax No. _____

E-mail _____

SUBMITTED on _____, 20____.

State Contractor License No. _____ (if applicable)

SECTION 00 41 43

CITY OF DE PERE

PROJECT 22-11

BID SCHEDULE – UNIT PRICE

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
SANITARY SEWER					
SS-01	Provide 8" PVC Sanitary Sewer (Granular Backfill)	LF	4700	\$ _____	\$ _____
SS-02	Provide 4" PVC Sanitary Sewer Lateral	LF	3410	\$ _____	\$ _____
SS-03	Provide Sanitary Sewer Risers	VF	140	\$ _____	\$ _____
SS-04	Provide 8" x 4" Sanitary Wye	EA	80	\$ _____	\$ _____
SS-05	Provide 4' Diameter Sanitary Sewer Manhole	VF	260	\$ _____	\$ _____
SS-06	Core Drill Sanitary Manhole	EA	3	\$ _____	\$ _____
SS-07	Connect to Existing Sanitary Sewer	EA	3	\$ _____	\$ _____
SS-08	Reconstruct Existing 4' Diameter Manhole	EA	1	\$ _____	\$ _____
SS-09	Remove Existing Sanitary Manhole and Reconnect Sanitary Sewer	LS	1	\$ _____	\$ _____
STORM SEWER					
ST-01	Provide 8" PVC Storm Sewer (Natural Backfill)	LF	235	\$ _____	\$ _____
ST-02	Provide 12" PVC, RCP Class III, or PP Storm Sewer (Natural Backfill)	LF	2410	\$ _____	\$ _____
ST-03	Provide 12" PVC, RCP Class III, or PP Storm Sewer (Granular Backfill)	LF	480	\$ _____	\$ _____

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ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
STORM SEWER CONTINUED					
ST-04	Provide 15" PVC, RCP Class III, or PP Storm Sewer (Natural Backfill)	LF	1230	\$ _____	\$ _____
ST-05	Provide 15" PVC, RCP Class III, or PP Storm Sewer (Granular Backfill)	LF	30	\$ _____	\$ _____
ST-06	Provide 18" PVC, RCP Class III, or PP Storm Sewer (Natural Backfill)	LF	1115	\$ _____	\$ _____
ST-07	Provide 18" PVC, RCP Class III, or PP Storm Sewer (Granular Backfill)	LF	60	\$ _____	\$ _____
ST-08	Provide 24" PVC, RCP Class III, or PP Storm Sewer (Natural Backfill)	LF	1090	\$ _____	\$ _____
ST-09	Provide 24" PVC, RCP Class III, or PP Storm Sewer (Granular Backfill)	LF	85	\$ _____	\$ _____
ST-10	Provide 30" PVC, RCP Class III, or PP Storm Sewer (Natural Backfill)	LF	710	\$ _____	\$ _____
ST-11	Provide 36" PVC, RCP Class III, or PP Storm Sewer (Natural Backfill)	LF	620	\$ _____	\$ _____
ST-12	Provide 36" PVC, RCP Class III, or PP Storm Sewer (Granular Backfill)	LF	60	\$ _____	\$ _____
ST-13	Provide 42" PVC, RCP Class III, or PP Storm Sewer (Natural Backfill)	LF	55	\$ _____	\$ _____
SS-14	Provide 6" PVC Storm Sewer Lateral	LF	2650	\$ _____	\$ _____
ST-15	Provide 8" x 6" Storm Branch or Inserta-Tee	EA	2	\$ _____	\$ _____
ST-16	Provide 12" X 6" Storm Branch or Inserta Tee	EA	18	\$ _____	\$ _____
ST-17	Provide 15" X 6" Storm Branch or Inserta Tee	EA	6	\$ _____	\$ _____

Project 22-11
2022 Utility and Street Construction Waterview Heights Fifth Addition

City of De Pere

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
STORM SEWER CONTINUED					
ST-18	Provide 18" X 6" Storm Branch or Inserta Tee	EA	5	\$_____	\$_____
ST-19	Provide 24" X 6" Storm Branch or Inserta Tee	EA	9	\$_____	\$_____
ST-20	Provide 30" X 6" Storm Branch or Inserta Tee	EA	12	\$_____	\$_____
ST-21	Provide 36" X 6" Storm Branch or Inserta Tee	EA	10	\$_____	\$_____
ST-22	Provide 4' Diameter Storm Manhole	VF	210	\$_____	\$_____
ST-23	Provide 5' Diameter Storm Manhole	VF	60	\$_____	\$_____
ST-24	Provide 6' Diameter Storm Manhole	VF	15.5	\$_____	\$_____
ST-25	Provide 4' Diameter Storm Manhole Inlet	VF	57	\$_____	\$_____
ST-26	Provide 5' Diameter Storm Manhole Inlet	VF	20.5	\$_____	\$_____
ST-27	Provide Type A Inlet	EA	7	\$_____	\$_____
ST-28	Provide Type B Inlet	EA	36	\$_____	\$_____
ST-29	Provide 12" RCP Endwall	EA	6	\$_____	\$_____
ST-30	Provide 15" RCP Endwall	EA	1	\$_____	\$_____
ST-31	Provide 24" RCP Endwall	EA	2	\$_____	\$_____
ST-32	Provide 42" RCP Endwall	EA	1	\$_____	\$_____
ST-33	Pond Discharge Structure	EA	2	\$_____	\$_____

Project 22-11
2022 Utility and Street Construction Waterview Heights Fifth Addition

City of De Pere

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
WATER MAIN					
W-01	Provide 8" PVC Water Main (Natural Backfill)	LF	2500	\$ _____	\$ _____
W-02	Provide 8" PVC Water Main (Granular Backfill)	LF	280	\$ _____	\$ _____
W-03	Provide 12" PVC Water Main (Natural Backfill)	LF	3000	\$ _____	\$ _____
W-04	Provide 1" HDPE Water Service	LF	6530	\$ _____	\$ _____
W-05	Provide 2" Corporation with Plug/Saddle with 2" Galvanized Pipe	EA	1	\$ _____	\$ _____
W-06	Provide 1" Corporation and Curb Stop	EA	80	\$ _____	\$ _____
W-07	Provide 6" Gate Valve	EA	3	\$ _____	\$ _____
W-08	Provide 8" Gate Valve	EA	13	\$ _____	\$ _____
W-09	Provide 12" Gate Valve	EA	8	\$ _____	\$ _____
W-10	Provide Connection to Existing Water Main	EA	2	\$ _____	\$ _____
W-11	Provide Connection to Existing Water Main 8"x 8" Tapping Tee and Valve	EA	2	\$ _____	\$ _____
W-12	Provide Hydrant (7' Bury)	EA	4	\$ _____	\$ _____
W-13	Provide Hydrant (6.5' Bury)	EA	11	\$ _____	\$ _____
W-14	Provide 6" PVC Hydrant Lead	LF	51	\$ _____	\$ _____
W-15	Provide 6" PVC Service	LF	23	\$ _____	\$ _____
W-16	Provide Water Main Offset	EA	3	\$ _____	\$ _____

Project 22-11
2022 Utility and Street Construction Waterview Heights Fifth Addition

City of De Pere

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
WATER MAIN CONTINUED					
W-17	Abandon/Remove Water Main and Appurtenances	LS	1	\$ _____	\$ _____
STREET AND DRAINAGE					
SD-01	Provide Clearing and Grubbing	LS	1	\$ _____	\$ _____
SD-02	Topsoil Stripping (Fill Areas)	SY	10000	\$ _____	\$ _____
SD-03	Unclassified Excavation (Street)	CY	5000	\$ _____	\$ _____
SD-04	Unclassified Excavation (Pond)	CY	18600	\$ _____	\$ _____
SD-05	Provide 1 1/4" Crushed Aggregate Base Course, 12" thick	SY	19900	\$ _____	\$ _____
SD-06	Provide 3/4" Crushed Aggregate Base Course (2' Wide)	SY	160	\$ _____	\$ _____
SD-07	Provide Asphaltic Concrete Pavement Type 4 LT 58-28 S, 1 3/4" Upper Layer	SY	15950	\$ _____	\$ _____
SD-08	Provide Asphaltic Concrete Pavement Type 3 LT 58-28 S, 2 1/4" Lower Layer	SY	15950	\$ _____	\$ _____
SD-09	Provide 24" Concrete Curb and Gutter (Slip Form)	LF	10350	\$ _____	\$ _____
SD-10	Provide 8" Concrete Pad for CBU	SY	30	\$ _____	\$ _____
SD-11	Provide 4" Concrete Sidewalk and Ramp	SY	1350	\$ _____	\$ _____
SD-12	Provide Detectable Warning Field (Natural)	EA	28	\$ _____	\$ _____
SD-13	Landscaping – Topsoil, Seed, Fertilizer and Hydroseeding	SY	33700	\$ _____	\$ _____

Project 22-11
2022 Utility and Street Construction Waterview Heights Fifth Addition

City of De Pere

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID
STREET AND DRAINAGE CONTINUED					
SD-14	Landscaping – Topsoil, Seed Mix No. 10, Fertilizer and Temporary Erosion Control Blanket (Class I) for Pond Slopes	SY	5200	\$ _____	\$ _____
SD-15	Landscaping – Topsoil, Seed Mix No. 10, Fertilizer and Temporary Erosion Control Blanket (Class I) for Drainage Swales	SY	19000	\$ _____	\$ _____
SPECIAL CONSTRUCTION					
SC-01	Provide Silt Fence	LF	6000	\$ _____	\$ _____
SC-02	Provide Erosion Bales	EA	36	\$ _____	\$ _____
SC-03	Inlet Protection Type A	EA	13	\$ _____	\$ _____
SC-04	Inlet Protection Type D	EA	48	\$ _____	\$ _____
SC-05	Rip Rap Erosion Control	SY	90	\$ _____	\$ _____
SC-06	Tracking Pad	EA	3	\$ _____	\$ _____
SC-07	Install Cluster Mailbox Unit Locations	EA	4	\$ _____	\$ _____
TOTAL AMOUNT BID:					\$ _____

SECTION 00 43 13

CITY OF DE PERE

BID BOND

KNOW ALL MEN BY THESE PRESENTS: That _____,

as Principal, hereinafter called Principal, and _____,

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

WHEREAS, Principal has made a proposal to the City for furnishing all materials, labor, tools, equipment and incidentals necessary to complete the work of Project 22-11 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>
Water main	PVC	
Valves		
Hydrants		
Inlets / Catch Basins	RCP	
Manholes	RCP	
Sanitary Sewer	PVC	
Storm Sewer (PVC) (List Proposed Size)		
Storm Sewer (RCP) (List Proposed Size)		
Storm Sewer (PP) (List Proposed Size)		

SECTION 00 43 36

TABULATION OF SUBCONTRACTORS

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

<u>PORTION OF WORK</u>	<u>BUSINESS NAME</u>	<u>BUSINESS ADDRESS</u>
Asphaltic Concrete Pavement		
Concrete Driveway and Sidewalk		
Concrete Curb and Gutter		
Utility Work		
Excavation		
Landscape Restoration		

SECTION 00 51 00

NOTICE OF AWARD

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

Project Description: 22-11 2022 Utility and Street Construction Waterview Heights Fifth Addition

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 June 10, 2022 and June 17, 2022.

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

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

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

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

Dated this _____ day of _____ 2022.

DEPARTMENT OF PUBLIC WORKS

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

ACCEPTANCE OF NOTICE

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

_____, this the _____ day of _____, 20____

By: _____

Title: _____

SECTION 00 52 13

CONTRACT

This Contract, made and entered into this day _____ (date to be affixed by City), by and between (Contractor Name), hereinafter called Contractor, and the City of De Pere, a municipal corporation of the State of Wisconsin, hereinafter called City.

WITNESSETH: That, in consideration of the covenants and agreements herein contained, to be performed by the parties hereto, and of the payments hereinafter agreed to be made, it is mutually agreed as follows:

ARTICLE I - SCOPE OF WORK

The Contractor shall furnish all materials and all equipment and labor necessary, and perform all work shown on the drawings and described in the specifications for the project entitled Project 22-11 2022 Utility and Street Construction Waterview Heights Fifth Addition, 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 June 10, 2022 and June 17, 2022.
- (b) Drawings designated for Project 22-11 2022 Utility and Street Construction Waterview Heights Fifth Addition dated June 10, 2022.
- (c) City of De Pere 2022 Construction Specifications.
- (d) Special Provisions dated June 10, 2022.
- (e) Proposal submitted by (Contractor Name) dated Bid Date.
- (f) Addenda No. dated

ARTICLE II - TIME OF COMPLETION

- (a) The work to be performed under the Contract shall be commenced within (number spelled out) (__) calendar days after receipt of written notice to proceed. The work shall be completed within (Number spelled out) (__) calendar days) or (specific calendar dates) after receipt of Notice to Proceed.
- (b) Time is of the essence with respect to the date of completion herein above stated. Failure to complete the work within the number of calendar days stated in this Article, or interim dates included in the work sequence in Section 01 10 00, Summary of Work, including any extensions granted thereto, shall entitle the City to deduct from the monies due the Contractor an amount equal to Update based on 00 70 00 - General Conditions (Page 27)(\$) per day for each calendar day of delay in the completion of the work. Such amount shall be considered and treated not as a penalty but as liquidated damages, which the City will sustain, by failure of the Contractor to complete the work within the time stated.

ARTICLE III - PAYMENT

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

ARTICLE IV – CONTRACT DOCUMENTS

(a) Contents

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

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- 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: 22-11 2022 Utility and Street Construction Waterview Heights Fifth Addition

You are hereby notified to commence work in accordance with the CONTRACT dated _____, within ten (10) days of this Notice. All work under this contract shall be completed within _____ (NUMBER IN WORDS) (___#) consecutive days from the start of construction or _____ (DATE) whichever comes first.

Department of Public Works

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

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by

_____, this _____ day of _____, 20____.
Company Name

Signature

BY: _____
Printed Name

TITLE: _____

SECTION 00 61 13

CITY OF DE PERE

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: That (CONTRACTOR NAME), as Principal, hereinafter called Contractor, and _____, as Surety, hereinafter called Surety, are held and firmly bound unto the City of De Pere, a municipal corporation of the State of Wisconsin, as Obligee, hereinafter called the City, for the use and benefit of claimants as herein below defined in the amount _____ (CONTRACT AMT. SPELLED OUT) (\$) for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated _____ (date to be affixed by City) entered into a contract with City for Project 22-11, 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.

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City of De Pere

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

SIGNED AND SEALED THIS _____ DAY OF _____, 20__.

In Presence of:

(WITNESS)

(CONTRACTOR)

(WITNESS)

(SURETY)

SECTION 00 61 16

CITY OF DE PERE

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: That (CONTRACTOR'S NAME), as Principal, hereinafter called Contractor, and _____, as Surety, hereinafter called Surety, are held and firmly bound unto the City of De Pere, a municipal corporation of the State of Wisconsin, as Obligee, hereinafter called City, in the amount of (AMOUNT WRITTEN OUT) (\$_____) for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assign, jointly and severally, firmly by these presents.

WHEREAS, Contractor has by written agreement dated _____ (date to be affixed by City), entered into a contract with the City for Project 22-11, 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:			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:		(Date)
	(Contractor)	
Payment of:	\$	
	(Line 8 or other - attach explanation of other amount)	
is recommended by:		(Date)
	(Owner)	

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:

Contractor's Amended Responsibilities:

Project 22-11
Waterview Heights Utility and Street Construction

City of De Pere

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

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. Willie Mays Circle from the 1200 feet west of Lost Dauphin to Lost Dauphin Road
 - 1) Utilities and street construction
 - b. Battery Avenue from Meadow Rose Lane to Lost Dauphin Road
 - 1) Utilities and street construction.
 - c. Brookline Avenue from Meadow Rose Lane to Vin Scully Lane
 - 1) Utilities and street construction
 - d. Vin Scully Lane from Brookline Avenue to Lost Dauphin Road
 - 1) Utilities and street construction
 - e. Lansdowne Street from Meadow Rose Lane to Vin Scully Lane
 - 1) Utility and street construction on each end with grading and restoration in between.
 - f. Addison Street from Meadow Rose Lane to Lost Dauphin Road.
 - 1) Utility and street construction on the west end, storm sewer construction on the east end to the pond, and grading and restoration for the remainder of the street.
 - g. Lost Dauphin Road from Willie Mays Circle to Addison Street
 - 1) Storm sewer and grading
2. Work will be performed under the following prime contract:
- a. Project 22-11 2022 Utility and Street Construction Waterview Heights Fifth Addition

B. The Work includes:

1. Water main and associated appurtenances installation.
2. Storm sewer and associated appurtenances installation.
3. Sanitary sewer and associated appurtenances installation.
4. Curb and gutter installation.
5. Asphaltic concrete paving.
6. Terrace restoration.
7. Clearing and grubbing.
8. Unclassified excavation for roadway and pond construction.
9. Grading.
10. Ditching.

- 11. Erosion control.
- 12. Traffic control.

1.4 WORK SEQUENCE/SCHEDULE

- A. The anticipated start date of the project is September 15, 2022.
- B. Project shall be completed by July 31, 2023.
- C. There are several internal dates required for the project:
 - 1. Willie Mays Circle – Complete utility installation, street excavation, gravelling, and utility easement grading by October 15th, 2022. Utility easement grading shall be completed to within 6 inches of final grade to allow for private utility construction.
 - 2. Complete curb and gutter installation by June 30, 2023
- D. Conduct construction activities to maintain access to businesses and residences throughout construction.
- E. Topsoil, seed, and mulch shall be completed prior to asphaltic concrete pavement placement.

1.5 USE OF PREMISES

- A. Contractor shall have full use of the premises for construction operations, including use of the Project Site, as allowed by law, ordinances, permits, easement agreements and the Contract documents.
- B. Contractor's use of premises is limited only by Owner's right to perform work or to retain other contractors on portions of the Project.
- C. The Project Site is limited to property boundaries, rights-of-way, easements, and other areas designated in the Contract Documents.
- D. Provide protection and safekeeping of material and products stored on or off the premises.
- E. Move any stored material or products which interfere with operations of Owner or other Contractors.

1.6 WARRANTY

- A. The Contractor warrants and guarantees to the City that all work shall be in accordance with the Contract Documents and will not be defective. Prompt notice of all defects will be given to the Contractor. All defective work, whether or not in place, may be rejected, corrected or accepted as provided in this proposal.

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

1.7 WORK BY OTHERS

- A. Utility installation for the subdivision will occur concurrently with this project.
- B. Apartment complex construction at the west end of Willie Mays Circle will occur concurrently with the project.
- C. Home builders will be allowed to start construction during concurrently with this project.
- 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) (920-438-1039)
- B. AT&T, Victoria Kassab, (yk352k@att.com) (920-202-4002)
- C. Wisconsin Public Service, Bob Laskowski, (rtlaskowski@wisconsinpublicservice.com) (920-617-2775)
- D. Charter, Vince Albin, (vince.albin@charter.com) (920-378-0444)
- E. Nsight, Rick Vincent, (rick.vincent@nsight.com) (920-617-7316)
- F. TDS Metrocom, Steve Jakubiec, (steve.jakubiec@tdstelecom.com) (920-882-4166)
- G. Net-Lec (Mi-Tech Services), Dennis Lafave, (dlafave@mi-tech.us) (920-619-9774)
- H. CenturyLink, Relocation Team, (relocations@lumen.com) (800-871-9244)

- I. Central Brown County Water Authority, Rob Michaelson, (rmichaelson@mpu.org) (920-686-4354)

1.9 MISCELLANEOUS PROVISIONS

- A. All access to the site shall be from Lost Dauphin Road. The existing subdivision to the north shall not be used.
- B. Any lane closures on Lost Dauphin Road will require approval from the Brown County Highway Department.
- C. All hydrant caps to be painted color class-AA light blue.
- D. Excess clean fill, including from trench excavation, will be allowed to be placed on site as directed by the City.
- E. Cluster mailbox units and unit parcels shall be provided by the City for contractor installation. Units shall similar to the Village of Howard specification and as follows:
 1. Type IV per the exhibit.
 2. Units will be black with decorative post and top covers.

PART 2 – PRODUCTS

PART 3 – EXECUTION

END OF SECTION

SECTION 01 22 01

MEASUREMENT AND PAYMENT SANITARY SEWER

PART 1 – GENERAL

1.1 SUMMARY

- | | |
|--|---------------------|
| A. Section includes: | <u>Bid Item No.</u> |
| 1. Sanitary Sewer Mains (Granular Backfill) | SS-01 |
| 2. Sanitary Sewer Laterals | SS-02 |
| 3. Sanitary Sewer Risers | SS-03 |
| 4. Sanitary Sewer Service Branches | SS-04 |
| 5. Sanitary Sewer Manholes | SS-05 |
| 6. Core Drilling to Existing Sanitary Manhole | SS-06 |
| 7. Connect to Existing Sanitary Sewer Main | SS-07 |
| 8. Manhole Reconstruct | SS-08 |
| 9. Remove Manhole and Reconnect Sanitary Sewer | SS-09 |
- B. Unit Prices include:
1. Defined work for each Unit Price Item which will provide a functionally complete Project when combined with all unit price items. If there are specific work items which the Contractor believes are not identified in any Unit Price Item, but is required to provide a functionally complete Project, then the identified specific work items shall be included in the appropriate Unit Price Item.
 2. The method of measurement for payment.
 3. The price per unit for payment.

1.2 GENERAL WORK ITEMS

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

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

1.3 SANITARY SEWER MAINS (GRANULAR BACKFILL)

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

1.4 SANITARY SEWER LATERALS

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

1.5 SANITARY SEWER RISERS

- A. The unit price for Sanitary Sewer Risers work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Sanitary sewer riser pipe and fittings of material stated in the Unit Price Bid Schedule and installed using the open trench method.
 - 3. Risers to be installed at the main.
 - 4. Tracer wire.
- B. Measurement for payment will be the height of riser.
- C. The unit of measurement for payment is vertical feet.

1.6 SANITARY SEWER SERVICE BRANCHES

- A. The unit price for Sanitary Sewer Service Branches work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Sanitary sewer service branches of same material strength or better than sanitary sewer main pipe.
 - 3. Installation along with the sanitary sewer main pipe installation.
 - 4. Plug (where required).
- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

1.7 SANITARY SEWER MANHOLES

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

1.8 CORE DRILLING TO EXISTING SANITARY MANHOLE

- A. The unit price for Core Drilling to Existing Sanitary Manhole work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Core drilling into existing sanitary sewer manhole (where required).
 - 3. Install A-Lok boot.
 - 4. Reform flow line in existing sanitary manhole.
- B. Measurement for payment will be the actual number complete.
- C. The unit of measurement for payment is each.

1.9 CONNECT TO EXISTING SANITARY SEWER MAIN

- A. The unit price for Connect to Existing Sanitary Sewer Main work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Sanitary Sewer Pipe same material strength or better than sewer main. Provide Fernco with stainless steel sheer bands and connection water tight seal.
 - 3. Backfilling and compacting.
- B. Measurement for payment will be the actual number completed.
- C. The unit of measurement for payment is each.

1.10 MANHOLE RECONSTRUCT

- A. The unit price for Manhole Reconstruct work includes:
 - 1. General Work Items of Article 1.2.
 - 2. City of De Pere will provide structure castings. Contractor will pick up castings at 925 South Sixth Street.
 - 3. Removal of the casting, existing adjusting rings and sections of structure.
 - 4. Providing precast cone section for manholes.
 - 5. Providing concrete adjusting rings and a 2 inch rubber riser ring from the WisDOT approved product list.
 - 6. Bituminous plastic cement sealing the exterior of the adjusting rings and casting.
 - 7. The ring will be secured to the precast section with a 3 ½ inch wide Kent Seal or equal.
 - 8. Above the concrete ring attach ¼ inch thru 3 inch thick ring using two ⁵/₁₆ inch bead above and below the ring of sealant type as recommended by the rubber manufacturer.
 - 9. Initial and final adjustment.
 - 10. Backfilling and compacting.
- B. Measurement for payment will be the actual number of structure reconstructed.
- C. The unit of measurement for payment is each.

1.11 REMOVE MANHOLE AND RECONNECT SANITARY SEWER

- A. The unit price for Remove Manhole and Reconnect Sanitary Sewer work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Excavating.
 - 3. Remove and dispose of manhole.
 - 4. Remove and replace pipe (if applicable).
 - 5. Connection to existing sanitary sewer.
 - 6. Bypass pumping (if required).
- B. Measurement for payment will not be measured.
- C. The unit of measurement for payment is lump sum.

END OF SECTION

SECTION 01 22 02

MEASUREMENT AND PAYMENT STORM SEWER

PART 1 – GENERAL

1.1 SUMMARY

- | | <u>Bid Item No.</u> |
|--|--|
| A. Section includes: | |
| 1. Storm Sewer Mains (Granular Backfill) | ST-03, ST-05, ST-07, ST-09, ST-12 |
| 2. Storm Sewer Mains (Natural Backfill) | ST-01, ST-02, ST-04, ST-06, ST-08, ST-10, ST-11, ST-13 |
| 3. Storm Sewer Laterals | ST-14 |
| 4. Storm Sewer Service Branches | ST-15, ST-16, ST-17, ST-18, ST-19, ST-20, ST-21 |
| 5. Storm Sewer Manholes | ST-22, ST-23, ST-24, ST-25, ST-26 |
| 6. Catch Basin/Inlets | ST-27, ST-28 |
| 7. Flared End Section | ST-29, ST-30, ST-31, ST-32 |
| 8. Pond Discharge Structure | ST-33 |
| B. Unit Prices include: | |
| 1. Defined work for each Unit Price Item which will provide a functionally complete Project when combined with all unit price items. If there are specific work items which the Contractor believes are not identified in any Unit Price Item, but is required to provide a functionally complete Project, then the identified specific work items shall be included in the appropriate Unit Price Item. | |
| 2. The method of measurement for payment. | |
| 3. The price per unit for payment. | |

1.2 GENERAL WORK ITEMS

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

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

1.3 STORM SEWER MAINS (GRANULAR BACKFILL)

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

1.4 STORM SEWER MAINS (NATURAL BACKFILL)

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

1.5 STORM SEWER LATERALS

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

1.6 STORM SEWER SERVICE BRANCHES/INSERTA TEES

- A. The unit price for Storm Sewer Service Branches/Inserta Tees work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Storm sewer service branches of same material strength or better than storm sewer main pipe (where required).
 - 3. Core drilling into concrete storm sewer main (where required).
 - 4. Installation along with the storm sewer main pipe installation.
 - 5. Plug (where required).

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

1.7 STORM SEWER MANHOLES

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

1.8 CATCH BASIN/INLETS

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

1.9 FLARED END SECTION

- A. The unit price for Flared End Section includes:
 - 1. General Work Items of Article 1.2.
 - 2. Precast concrete components.
 - 3. Anchors to storm sewer pipe.
- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

1.10 PROVIDE POND OUTFALL STRUCTURE

- A. The unit price for Provide Pond Outfall Structure work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Precast reinforced concrete components.
 - 3. Joint flexible gasket material.
 - 4. Grout seal between the manhole and structure and the sewer pipe.
 - 5. Installation of the grate.
 - 6. Bedding material.
 - 7. Sewer pipe stub with connections and watertight plug (where required).
 - 8. Grouted rip rap.
- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

END OF SECTION

SECTION 01 22 03

MEASUREMENT AND PAYMENT WATER SYSTEM

PART 1 – GENERAL

1.1 SUMMARY

- | | |
|---|---------------------|
| A. Section includes: | <u>Bid Item No.</u> |
| 1. Water Mains (Granular Backfill) | W-02 |
| 2. Water Mains (Natural Backfill) | W-01, W-03 |
| 3. Water Services | W-04, W-15 |
| 4. Corporation and Curb Stop | W-06 |
| 5. 2" Corporation with Plug or Saddle and Galvanized Pipe | W-05 |
| 6. Fire Hydrants | W-12, W-13 |
| 7. Hydrant Leads | W-14 |
| 8. Valves | W-07, W-08, W-09 |
| 9. Connection to Existing Water Mains | W-10, W-11 |
| 10. Water Main Offset | W-16 |
| 11. Abandon/Remove Water Main and Appurtenances | W-17 |
- B. Unit Prices include:
1. Defined work for each Unit Price Item which will provide a functionally complete Project when combined with all unit price items. If there are specific work items which the Contractor believes are not identified in any Unit Price Item, but is required to provide a functionally complete Project, then the identified specific work items shall be included in the appropriate Unit Price Item.
 2. The method of measurement for payment.
 3. The price per unit for payment.

1.2 GENERAL WORK ITEMS

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

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

1.3 WATER MAINS (GRANULAR BACKFILL)

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

1.4 WATER MAINS (NATURAL BACKFILL)

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

1.5 WATER SERVICES

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

1.6 CORPORATION AND CURB STOPS

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

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

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

1.8 FIRE HYDRANTS

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

1.9 HYDRANTS LEADS

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

1.10 VALVES

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

1.11 CONNECTIONS TO EXISTING WATER MAINS

- A. The unit price for Connection to Existing Water Mains work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Locating existing water main.
 - 3. Connection to the end of existing pipe.
 - a. Remove existing plug.
 - b. Direct connection to end of existing pipe.
 - c. Transition fittings, if required.
 - 4. Tapping tee and valve (where applicable)
- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

1.12 WATER MAIN OFFSET

- A. The unit price for Water Main Offset work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Ductile iron fittings and PVC pipe.
 - 3. Tracer wire.
 - 4. Polyethylene encasement of ductile iron pipe and fittings.
 - 5. Blocking and joint restraints.
- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

1.13 ABANDON / REMOVE WATER MAIN AND APPURTENANCES

- A. The unit price for Abandon/Remove Water Main and Appurtenances work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Excavating
 - 3. Plug tee at main.
 - 4. Removing existing water main where in conflict with other utilities.
 - 5. Providing and placing flowable fill.
 - 6. Backfilling and compacting.
 - 7. Removal and disposal of appurtenances as shown on the Drawings.
- B. Measurement for payment will not be made.
 - 1. This item applies to work at Battery Avenue and Lost Dauphin Road.
- C. The unit of measurement for payment is lump sum.

END OF SECTION

SECTION 01 22 04

MEASUREMENT AND PAYMENT STREET AND DRAINAGE CONSTRUCTION

PART 1 – GENERAL

1.1 SUMMARY

- | | |
|--|---------------------|
| A. Section includes: | <u>Bid Item No.</u> |
| 1. Clearing and grubbing | SD-01 |
| 2. Site topsoil stripping | SD-02 |
| 3. Topsoil and Unclassified Excavation | SD-03, SD-04 |
| 4. Crushed Aggregate Base and Surface Course | SD-05, SD-06 |
| 5. Asphaltic Concrete Pavement | SD-07, SD-08 |
| 6. Portland Cement Concrete Curb and Gutter | SD-09 |
| 7. Portland Cement Concrete Driveway and Sidewalk | SD-10, SD-11 |
| 8. Detectable Warning Field Natural | SD-12 |
| 9. Landscaping – Topsoil, Seed, Fertilize, and Stabilization | SD-13, SD-14, SD-15 |
- B. Unit Prices include:
1. Defined work for each Unit Price Item which will provide a functionally complete Project when combined with all unit price items. If there are specific work items which the Contractor believes are not identified in any Unit Price Item, but is required to provide a functionally complete Project, then the identified specific work items shall be included in the appropriate Unit Price Item.
 2. The method of measurement for payment.
 3. The price per unit for payment.

1.2 GENERAL WORK ITEMS

- A. Include with the appropriate Unit Price Item the following work items which are common to the Unit Price Items for street and drainage systems.
- B. If there is a specific Unit Price Item for any of the following items, then the work item shall be included with that specific unit price item.
1. Traffic Control.
 2. Sawcutting asphalt and/or concrete.
 3. Removal, hauling and disposal of surface materials including road pavement, curb and gutter, sidewalk, driveways and other pavement surfaces in the trench area and as shown on the drawings.
 4. Maintenance, protection, replacement and/or repair of facilities not designated for alteration on the Site.
 5. Site access requirements including temporary aggregate material as required for local traffic access.

6. Dust control.
7. Remove and replace existing mailboxes and traffic signs.
8. Restroom facilities.
9. Construction staking and other survey work not provided by the Engineer.
10. Regulatory requirements.
11. Quality assurance and quality control testing and inspections.
12. Final casting and valve box adjustment.
13. Shop drawings and other submittals.

1.3 CLEARING AND GRUBBING

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

1.4 TOPSOIL STRIPPING

- A. The unit price for Topsoil Stripping work includes:
 1. General Work Items of Article 1.2.
 2. Removal of topsoil in fill areas.
 3. Hauling and stockpiling topsoil.
 4. Placing unclassified material in stripped areas to subgrades shown on the Drawings.
 5. Compaction of subgrade and fill areas.
 6. Respreading topsoil to final grades shown on the Drawings.
 7. Finish grading.
- B. Measurement for payment will be the area of topsoil stripped in the fill areas.
- C. The unit of measurement for payment is square yards.

1.5 TOPSOIL AND UNCLASSIFIED EXCAVATION

- A. The unit price for Topsoil and Unclassified Excavation work includes:
 1. General Work Items of Article 1.2.
 2. Removal of topsoil to depth available.
 3. Hauling and stockpiling topsoil.
 4. Excavation to subgrades shown on the Drawings.
 5. Hauling of unclassified material.

6. Placing unclassified material in fill areas to subgrades shown on the Drawings and the subgrade required for placement of topsoil.
7. Compaction of subgrade and fill areas.
8. Test rolling subgrade.
9. Excavation of undercut areas for placing topsoil.
10. Respreading topsoil to final grades shown on the Drawings.
11. Disposal of surplus topsoil, unclassified material and unsuitable material.
12. Preparation of disposal site and transportation of material over an Engineer approved haul route from the site including all loading and dumping of material.
13. Finish grading.

B. Measurement of payment will not be made unless there is a change in project scope. The estimated quantity represents the computed volume by comparing the triangulated surfaces and will be the basis for payment.

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

1.6 CRUSHED AGGREGATE BASE AND SURFACE COURSE

A. The unit price for Crushed Aggregate Base and Surface Course work includes:

1. General Work Items of Article 1.2.
2. Aggregate material.
3. Preparation of foundation.
4. Placing and compacting to thickness and width shown on the Drawings or specified elsewhere.
5. Maintenance until surface pavement is constructed.
6. Preparation of crushed aggregate base for paving.
7. Adjustment of manholes and valve boxes to proposed finish road grade.

B. Measurement of payment will be:

1. Width:
 - a. The width will not be greater than the maximum trench width at the surface which is greater of the pipe outside diameter plus twenty-four (24) inches or the distance from the surface to the top of the pipe embedment; or
 - b. If the surface removal and the replacement limits are shown on the drawings outside the maximum trench width, then the actual average width of the area will be measured.
2. The depth will be the actual measured depth not to exceed the depth shown on the drawings or specified elsewhere.
3. The length will be the actual length measured longitudinally along the installed facility.

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

1.7 ASPHALTIC CONCRETE PAVEMENT

- A. The unit price for Asphaltic Concrete Pavement work includes:
1. General Work Items of Article 1.2.
 2. Asphaltic concrete mixture, tack coat and other required materials
 3. Surface preparation.
 4. Provide tack coat on base material.
 5. Saw cutting and/or mill adjacent and abutting pavement surfaces.
 6. Asphaltic concrete placement and compaction to thickness and width shown on the drawings or specified elsewhere.
 7. Tack coat between asphaltic concrete courses and abutting pavements.
- B. Measurement of payment will be:
1. Width:
 - a. The width will not be greater than the maximum trench width at the surface which is greater of the pipe outside diameter plus twenty-four (24) inches or the distance from the surface to the top of the pipe embedment; or
 - b. If the surface removal and the replacement limits are shown on the drawings outside the maximum trench width, then the actual average width of the area will be measured.
 2. The length will be the actual length measured longitudinally along the installed facility.
 3. The depth will be the depth shown on the drawings or specified elsewhere with the following reduction in the Unit Price for deficiencies in required thickness:

Thickness Deficiency – Percent of Unit for Payment	
Deficiency in Thickness of Average of Four Core Samples	Percent of Unit Price for Payment
0.00 to 0.125 inches	100%
0.126 to 0.25 inches	85%
0.251 to 0.375 inches	70%
0.376 to 0.5 inches	55%
Greater than 0.5 inches	0%

- C. The Unit Price shall be adjusted for deficiencies for less than minimum density represented by the average lot density of five nuclear density tests of 750 tons of asphaltic concrete placed as shown in the following table:

Density Deficiency-Percent of Unit Price for Payment	
% Lot Density Below Specified Minimum	WisDOT Mixes
From 0.5-1.0 inclusive	98%
From 1.1-1.5 inclusive	95%
From 1.6-2.0 inclusive	91%
From 2.1-2.5 inclusive	85%
From 2.6-3.0 inclusive	70%
More than 3.0	0%

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

1.8 PORTLAND CEMENT CONCRETE CURB AND GUTTER

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

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

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

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

1.9 PORTLAND CEMENT CONCRETE DRIVEWAY AND SIDEWALK

A. The unit price for Portland Cement Concrete Sidewalk and Driveway work includes:

1. General Work Items of Article 1.2.
2. Providing Portland cement concrete mixture of thickness shown in the drawings or specified elsewhere.
3. Providing reinforcement.
4. Providing expansion joint.
5. Providing curing.
6. Existing pavement removal.
7. Subgrade preparation.
8. Providing contraction joints.
9. Handicap ramps.
10. Sidewalk steps.
11. Saw cutting adjacent surfaces.
12. Finishing.
13. Protection.
14. Restoration.

B. Measurement for payment will be the average horizontal length and width of the concrete placed.

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

1.10 DETECTABLE WARNING FIELD NATURAL

A. The unit price for Detectable Warning Field Natural work includes:

1. General Work Items of Article 1.2.
2. Providing and installing Detectable Warning Field per ADA requirements.
3. Each detectable warning field shall be two (2) feet by four (4) feet.

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

C. The unit of measurement for payment is each.

1.11 LANDSCAPING- TOPSOIL, SEED, FERTILIZE AND STABILIZATION

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

1. General Work Items of Article 1.2.
2. Provide 4" topsoil or salvaged topsoil.
3. Provide seed.
4. Provide fertilizer.
5. Provide mulch, hydroseed, and/or erosion control revegetation mat.
6. Provide maintenance.

B. Measurement for payment will be the width and length not greater than the road right-of-way, not greater than the easement and not greater than fifteen (15) feet beyond the top of either side of ditches outside the right-of-way or as shown on the plans.

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

END OF SECTION

SECTION 01 22 05

MEASUREMENT AND PAYMENT SPECIAL CONSTRUCTION

PART 1 – GENERAL

1.1 SUMMARY

- | | |
|--|---------------------|
| A. Section includes: | <u>Bid Item No.</u> |
| 1. Silt Fence Erosion Control | SC-01 |
| 2. Erosion Bales | SC-02 |
| 3. Inlet Protection Erosion Control | SC-03, SC-04 |
| 4. Rip Rap Erosion Control | SC-05 |
| 5. Tracking Pad | SC-06 |
| 6. Install Cluster Mailbox Units (CBU) | SC-07 |
- B. Unit Prices include:
1. Defined work for each Unit Price Item which will provide a functionally complete Project when combined with all unit price items. If there are specific work items which the Contractor believes are not identified in any Unit Price Item, but is required to provide a functionally complete Project, then the identified specific work items shall be included in the appropriate Unit Price Item.
 2. The method of measurement for payment.
 3. The price per unit for payment.

1.2 GENERAL WORK ITEMS

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

1.3 SILT FENCE EROSION CONTROL

- A. The unit price for Silt Fence Erosion Control work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Provide fabric and post.
 - 3. Excavate to anchor fabric and compact soil or provide soil class C-3 to anchor the fabric.
 - 4. Inspection and maintenance of the installed silt fence.
 - 5. Removal of the silt fence.
 - 6. Finish grading.
 - 7. Topsoil, seeding, fertilizing, and mulching area in the vicinity of the removed silt fence which does not have established turf.
- B. Measurement of payment will be the actual horizontal length installed.
- C. The unit of measurement for payment is linear feet.

1.4 EROSION BALES

- A. The unit price for Erosion Bales work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Provide straw bales and anchor stakes.
 - 3. Excavate and embed the straw bales.
 - 4. Inspection and maintenance of the installed straw bales.
 - 5. Removal of the straw bales.
 - 6. Finish grading.
 - 7. Topsoil, seeding, fertilizing, and mulching area in the vicinity of the removed erosion bales which does not have established turf.
- B. Measurement for payment will be the actual number of bales installed.
- C. The unit of measurement for payment is each.

1.5 INLET PROTECTION EROSION CONTROL

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

C. The unit of measurement for payment is each.

1.6 RIP RAP EROSION CONTROL

A. The unit price for Rip Rap Erosion Control work includes:

1. General Work Items of Article 1.2.
2. Provide rip rap material and geotextile fabric.
3. Excavate and place rip rap material.

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

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

1.7 TRACKING PAD

A. The unit price for Tracking Pad work includes:

1. General Work Items of Article 1.2.
2. Install to the dimensions as shown on the drawing or specified elsewhere.
3. Providing filter fabric.
4. Providing crushed aggregate base course (3 inch clear stone).
5. Daily maintenance of aggregate.
6. Removal of aggregate and restore with topsoil, seed, fertilizer and mulch.

B. Measurement for payment will be the actual number of tracking pads installed.

C. The unit of measurement for payment is each.

1.8 CLUSTER MAILBOX UNIT (CBU'S) INSTALLATION

A. The unit price for Cluster Mailbox Unit (CBU's) Installation work includes:

1. General Work Items of Article 1.2.
2. Transport CBU's from 925 S. Sixth Street to the project site. CBU's to be provided by City.
3. Install City provided anchors.
4. Install City provided CBU's including decorative post and top covers.
5. Install Unit Parcel Box units.

B. Measurement for payment will be for each CBU installation location.

1. Each location consists of three boxes (2 CBU's and 1 United Parcel Box).

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

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

PART 2 – PRODUCTS

PART 3 – EXECUTION

END OF SECTION

SECTION 01 32 33

CONSTRUCTION PHOTOGRAPHS

PART 1 – GENERAL

1.1 SUMMARY

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

1.2 SUBMITTALS

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

1.3 QUALITY ASSURANCE

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

PART 2 – PRODUCTS

PART 3 – EXECUTION

3.1 UTILITY AND STREET CONSTRUCTION SITES

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

END OF SECTION

SECTION 01 33 00

SUBMITTALS

PART 1 – GENERAL

1.1 SUMMARY

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

1.2 SUBMITTAL PROCEDURES

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

- a. Project name.
 - b. Date.
 - c. Name and address of the Engineer.
 - d. Name and address of the Contractor.
 - e. Name and address of the subcontractor.
 - f. Name and address of the supplier.
 - g. Name of the manufacturer.
 - h. Number and title of appropriate Specification Section.
 - i. Drawing number and detail references, as appropriate.
 4. Each submittal shall be stamped by the Contractor indicating that submittal was reviewed for conformance with the Contract Documents. The Engineer will not accept unstamped submittals.
- C. Submittal Transmittal: Package each submittal appropriately for transmittal and handling. Transmit each submittal to the Engineer. The Engineer will not accept submittals received from sources other than the Contractor.
1. On the transmittal, record relevant information and requests for Engineer action. On a form, or separate sheet, record deviations from Contract Document requirements, including variations, limitations, and justifications. Include Contractor's certification that information complies with Contract Document requirements.

1.3 CONTRACTOR'S PROGRESS SCHEDULE

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

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

1.4 SCHEDULE OF SHOP DRAWINGS AND SAMPLE SUBMITTALS

- A. Submit four (4) hard copies or electronic copies of preliminary submittal schedule in accordance with the General Conditions of the Contract and as follows:
- 1. Coordinate submittal schedule with the subcontractors, Schedule of Values, and of products as well as the Contractor's Progress Schedule.
 - 2. Prepare the schedule in chronological order. Provide the following information:
 - a. Scheduled date for the first submittal.
 - b. Related Section number.
 - c. Submittal category (Shop Drawings, Product Data, or Samples).
 - d. Name of the subcontractor.
 - e. Description of the part of the work covered.
 - f. Scheduled date for the Engineer's final release or approval.
- B. Distribution: Following response to the initial submittal, print and distribute copies of the revised construction schedule to the Engineer, Subcontractors, and other parties required to comply with scheduled dates. Post copies in the field office. When revisions are made, distribute to the same parties. Delete parties from distribution when they have completed their assigned portion of the work and are no longer involved in construction activities.
- C. Schedule Updating: Revise the schedule after each meeting or activity where revisions have been recognized or made. Issue the updated schedule concurrently with the report of each meeting.

1.5 SHOP DRAWINGS

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

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

- B. Collect product data into a single submittal for each element of construction of system. Product data includes printed information, such as manufacturer's installation instructions, catalog cuts, standard color charts, roughing-in diagrams and templates, standard wiring diagrams, and performance curves.
 - 1. Mark each copy to show actual product to be provided. Where printed Product Data includes information on several products that are not required, mark copies to indicate the applicable information. Include the following information:
 - a. Manufacturer's printed recommendations.
 - b. Compliance with trade association standards.
 - c. Compliance with recognized testing agency standards.
 - d. Application of testing agency labels and seals.
 - e. Notation of dimensions verified by field measurement.
 - f. Notation of coordination requirements.
- C. Do not use shop drawings without an appropriate final stamp indicating action taken.
- D. Submittals: Submit four (4) copies of each required submittal. The Engineer will retain two (2) copies, and return the others to the Contractor marked with action taken and corrections or modifications required.
- E. Distribution: Furnish copies of reviewed submittal to installers, subcontractors, suppliers, manufacturers, fabricators, and others required for performance of construction activities. Show distribution on transmittal forms. Maintain one copy at the project site for reference.
 - 1. Do not proceed with installation until a copy of the Shop drawing is in the Installer's possession.
 - 2. Do not permit use of unmarked copies of the Shop Drawing in connection with construction.

1.6 ENGINEER'S ACTION

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

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

PART 2 – PRODUCTS

PART 3 – EXECUTION

END OF SECTION

SECTION 01 41 00

REGULATORY REQUIREMENTS

PART 1 – GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Underground Utilities.
 - 2. Property Monuments.
 - 3. Traffic Control.
 - 4. Permits for Project.

1.2 UNDERGROUND UTILITIES

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

1.3 PROPERTY MONUMENTS

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

1.4 TRAFFIC CONTROL

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

1.5 PERMITS FOR PROJECT

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

Project 22-11
Waterview Heights Utility and Street Construction

City of De Pere

1. WDNR
 - a. Water Main Extension
 - b. Sanitary Sewer Extension
 - c. WRAPP/NOI
2. Brown County Highway Department

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

PART 2 – PRODUCTS (Not used)

PART 3 – EXECUTION (Not used)

END OF SECTION

SECTION 01 71 23

FIELD ENGINEERING

PART 1 – GENERAL

1.1 SUMMARY

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

1.2 SUBMITTALS

- A. None

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION

3.1 PREPARATION

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

3.2 ENGINEERING SURVEYS TO BE PROVIDE BY THE ENGINEER

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

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

C. New Road Construction

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

3.3 ENGINEERING SURVEYS TO BE PROVIDED BY THE CONTRACTOR

A. General

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

B. Gravity Sewer Systems and Water Distribution Systems

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

C. New Road Construction

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

END OF SECTION

SECTION 31 23 00.1

EARTHWORK

PART 1 – GENERAL

1.1 SUMMARY

- A. Work in this section shall include but not be limited to the following:
 - 1. Excavation.
 - 2. Test rolling.
 - 3. Filling and compacting.
 - 4. Backfilling around structures.
 - 5. Disposal of surplus materials.
 - 6. Finish grading.

1.2 REFERENCE STANDARDS

- A. American Society for Testing and Materials (ASTM)
 - 1. D4318 Test Method for Liquid Limit, Plastic Limit, and Plasticity Index of Soils.
 - 2. D1140 Test for Amount of Material in Soils Finer than the No. 200 Sieve
 - 3. D1556 Test for Density of Soil in Place by the Sand-Cone Method
 - 4. D1557 Test Methods for Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using 10-Lb (4.54 kg) Rammer and 18 in. (457 mm) Drop
 - 5. D2216 Laboratory Determination of Water (Moisture) Content of Soil, Rock, and Soil-Aggregate Mixtures
 - 6. D2922 Test for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)
 - 7. D3017 Test for Moisture Content of Soil and Soil-Aggregate by Nuclear Method (Shallow Depth)

1.3 SUBMITTALS

- A. Submit the following in accordance with Section 01 33 00, Submittals:
 - 1. Two (2) copies of testing data of laboratory tests to the owner's representative if material is brought from off site.

1.4 DENSITY TESTING

- A. The Engineer will provide an independent testing laboratory to provide testing services.
- B. Anticipated testing schedule as follows:

<u>Fill Utilized For:</u>	<u>Number of Acceptable Tests for Each Class or Fill:</u>
Embankments, dikes or berms	1 test per 600 cubic yards
Structural or controlled fills	1 test per 1,500 square feet, minimum of 1 test per lift
Trench backfill under paved or surfaced areas greater than 15' depth	1 test per 100 feet of trench or any portion thereof, in the lower 1/4, each middle 1/4, and upper 1/4 of backfill
Trench backfill under paved or surfaced areas less than 15' depth	1 test per 100 feet of trench or any portion thereof, in the lower 1/3, middle 1/3, and upper 1/3 of backfill
Lateral trench backfill	1 test per 100 feet of trench with a minimum of 1 test location per trench in the lower 1/3, middle 1/3, and upper 1/3.
Non-structural fills	1 test per 2,000 cubic yards

PART 2 – PRODUCTS

2.1 SOIL MATERIALS

- A. Soil used for borrow, fill, and backfilling shall meet the requirements of soil class as called for on plans or in specifications.
- B. As a minimum, all soil shall meet the requirements of Soil Class G-1.
- C. All soil classes shall be as per Section 31 05 10, Soils and Aggregates for Earthwork.

PART 3 – EXECUTION

3.1 EXCAVATION

- A. Excavation to Correct Grade
 - 1. Excavate site of structures and pavements as follows:
 - a. To elevation shown on the plans.
 - b. To such additional width as necessary for erection and removal of forms, shoring or sheeting, and finishing of walls.
 - 2. Excavation of unsuitable materials.
 - a. Excavate unsuitable soil materials under a proposed structure.
 - b. Excavation shall extend lateral a minimum of 5 feet beyond the building limits plus 1 foot for each foot of cut below the foundation.
 - c. Notify the Owner's project representative prior to proceeding with their removal of unsuitable material.
- B. Borrow Excavation
 - 1. Clear site in accordance with Section, 31 10 00, Site Clearing.

2. Strip and stockpile topsoil.
3. Excavate, haul, place, and compact borrow soil material.
4. Regrade borrow areas as shown on the plans or in an acceptable manner to facilitate proper site drainage.
5. Replace stockpiled topsoil.
6. Surplus topsoil may be utilized in borrow area regarding.
7. Seed and mulch in accordance with Section 32 92 00, Turf and Grasses.

C. Excavation Precautions

1. Excavation slope stability.
 - a. Maintain excavation slope to ensure a stable excavation and prevent caving.
 - b. Provide and erect all timber work, shoring, sheeting, bracing, etc. necessary to prevent caving and displacement of adjacent property.
 - 1) Shoring shall be placed so as not to interfere with building work.
 - 2) Shoring shall be independent of footings.
2. Underpinning existing structures.
 - a. Underpin as necessary to protect existing structures and foundations.
 - b. Furnish all material, labor, and equipment necessary to complete underpinning operations.
3. Dewatering of excavations.
 - a. Contractor shall provide and maintain all equipment necessary to keep excavated areas free of all groundwater, surface water, or precipitation.
 - b. Soil which becomes soft, yielding, or loses support due to inadequate dewatering efforts shall be dealt with as follows:
 - 1) Excavate disturbed soil materials for their entire depth.
 - 2) Replace excavated materials with an approved fill material.
4. Protect excavation from freezing.
 - a. Take precautions necessary to prevent frost from entering subgrade soils.
 - b. If subgrade becomes frozen, remove snow, ice, and frozen soil prior to placement of additional fill or finish surfacings.

3.2 FILLING AND COMPACTING

- A. Layer thickness for fill soil shall be as follows:
 1. Layer thickness shall be dependent on the soil classification type, weight, and soil contact pressure of compaction equipment being used.
 2. Layer thickness shall not exceed 8 inches.
- B. Compaction
 1. Compaction method for fill soils shall be appropriate for soil material being compacted and provide sufficient soil contact pressure to thoroughly compact entire lift thickness.
- C. Proper soil moisture contents for compaction shall be maintained in all soils.
 1. Optimum moisture content as determined by Modified (ASTM D1557) Proctor shall be used

to determine acceptance moisture contents for soil compaction.

2. Contractor shall scarify and compact existing ground prior to placing fill material.

D. Compaction requirements for all fill soils unless specified elsewhere shall be as follows:

- Class 1
- Fills supporting structures.
 - Subgrade under pavements or floors.
 - Backfill under piping and conduits.

- Class 2
- Fills which do not support structures.

COMPACTION REQUIREMENTS FOR
VARIOUS SOIL CLASSES

Soil Class	Required Compaction (%) of Modified Proctor Density	
	Class 1	Class 2
B-3 through B-4	95	90
C-1 through C-6	95	90
D-1 through D-3, and G-1 and G-2	95	90
E-1	95	90

3.3 TEST ROLLING

- A. The following testing services shall be provided:
1. The subgrade condition and elevation shall be checked by the Engineer prior to placement of fill material. The subgrade will be proof rolled using a tandem axle dump truck fully loaded with fill material to the maximum legal weight limit. The fill condition and elevation shall be checked by the Engineer prior to placement of subsequent courses.
- B. Treat areas showing yielding or rutting under test rolling as follows:
1. Replace and/or recompact as necessary to stabilize the area.
 2. Retest soil areas replaced or recompact.

3.4 BACKFILLING AROUND STRUCTURES

- A. Do not backfill any foundation, wall, or structure prior to inspection by the Engineer.
- B. Backfilling under pipes or conduits in areas excavated due to construction.
1. Contractor shall furnish and compact Soil Class A-7 under all piping or conduits.
 - a. Compact fill shall extend from undisturbed earth to grade.
 - b. Place and compact fill in all areas disturbed by construction.

3.5 DISPOSAL OF SURPLUS MATERIALS

- A. The Owner shall have prior claim to all surplus excavated material. If such claim is exercised by the Owner, the material shall be deposited at such points as may be directed by the Engineer at the expense of the Contractor, the haul not to exceed two (2) miles. If Owner does not desire to claim surplus excavated material, the Contractor shall be totally responsible for obtaining a disposal site. No material shall be disposed of in a floodplain, wetland or waterway.

After delivery to any designated location, such material shall be leveled off by the Contractor.

3.6 FINISH GRADING

- A. Grade, trim, and shape subgrade to required grade and section.
1. Adjust slopes by grading so that transition is smooth and gradual.
 2. The crests of cut banks shall be rounded and shaped.
 3. Washouts and ruts shall be refilled, regarded, and properly compacted.
 4. Remove all stones 3 inches or larger from grading limits.
- B. Vertical Grading Tolerances
1. Rough grading tolerance.
 - a. Areas to be topsoiled – rough grade to within 0.2 foot of finish grades.
 2. Areas having paved surfaces (i.e., concrete, asphalt, etc.).
 - a. Maximum allowable variation from correct profile and section shall not be more than ¼-inch in 10 feet.

END OF SECTION

SECTION 32 90 00.1

HYDROSEEDING

PART 1 -GENERAL

1.1 SUMMARY

- A. Work Included: This section includes the following:
 - 1. Hydroseeding

1.2 SUBMITTALS

- A. Submit the following:
 - 1. Hydroseeding manufacturer.

PART 2 - PRODUCTS

2.1 HYDROSEEDING

- A. Manufacturer: Central Fiber Corporation, Second Nature Wood fiber blend mulch, or equal.
- B. Include specified seed: temporary seed of oats or winter wheat, as specified, fertilizer, and hydroseed mulch

PART 3 - EXECUTION

3.1 HYDROSEEDING

- A. Minimum application rate shall be 1,500 lbs. per acre.
- B. The hydroseed mixture shall be agitated in the mixing tank for a minimum of 3 minutes prior to application.
- C. The mixture shall be blown into place within 2 hours of mixing.

END OF SECTION

SECTION 33 00 05

DOUBLE AND TRIPLE WALLED POLYPROPYLENE PIPE

PART 1 – GENERAL

1.1 SUMMARY

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

1.2 REFERENCES

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

1.3 SUBMITTALS

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

1.4 QUALITY ASSURANCE

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

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

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

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

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

1.5 DELIVERY, STORAGE, AND HANDLING

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

PART 2 – PRODUCTS

2.1 NON-PRESSURE RATED PIPE

A. Mainline Gravity Sewer and Sewer Services

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

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

B. Sewer Services

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

2.2 DEFLECTION TEST REQUIREMENTS

- A.** Deflection testing procedures shall conform to Section 01 45 23 10, Testing and Inspection of Pipeline and Appurtenances.
- B.** The following table shall be used for the mandrel setting for Polypropylene Pipe:

Table 1
SaniTite HP Recommended Mandrel Settings

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

END OF SECTION

EXHIBIT 1

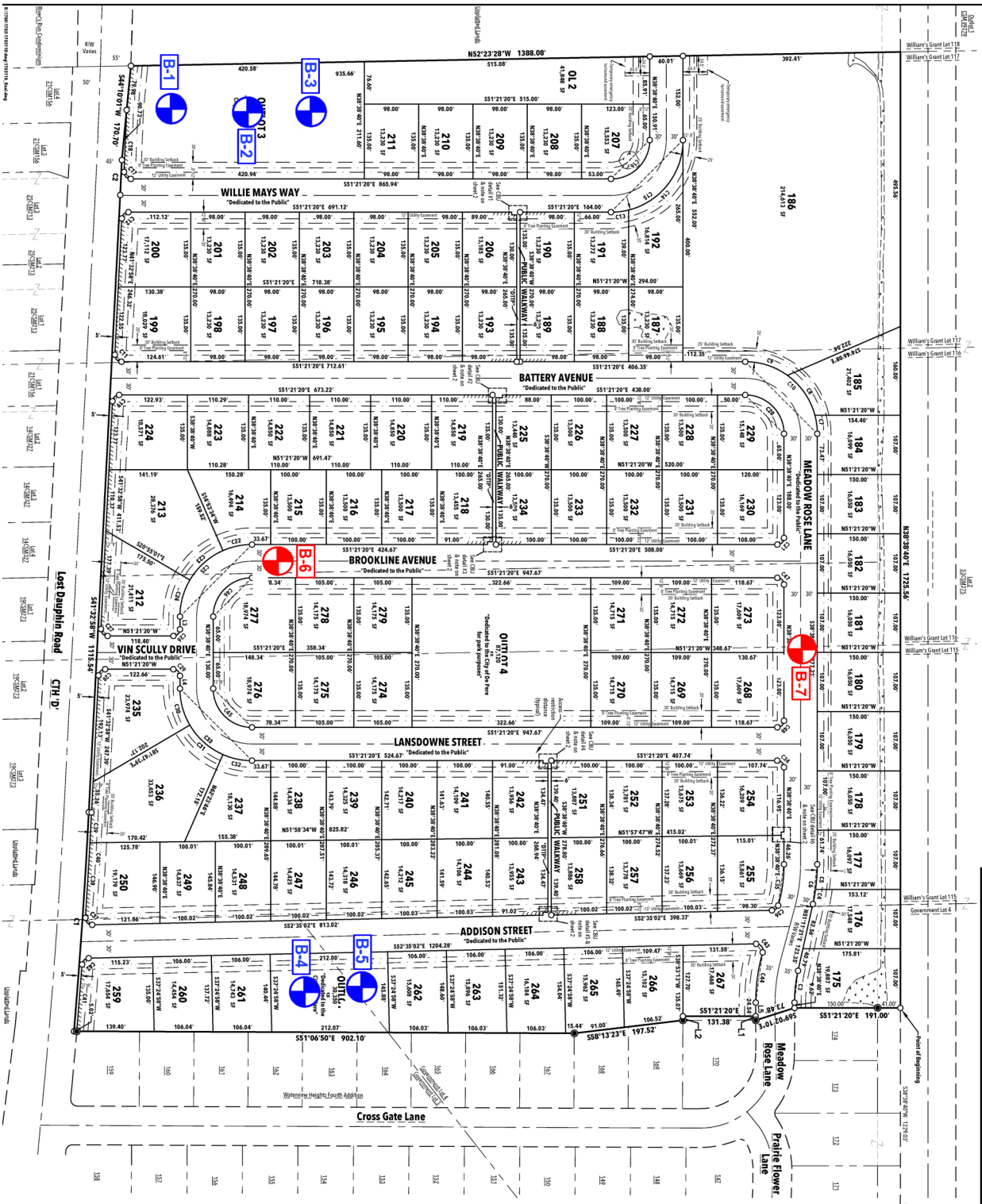
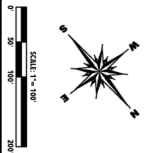
WATERVIEW HEIGHTS FIFTH ADDITION BORING LOG
BY PSI (DRAFT)

WATERVIEW HEIGHTS FIFTH ADDITION

PART OF GOVERNMENT LOT 3 AND PART OF GOVERNMENT LOT 4, ALL IN SECTION 22,
NORTH, RANGE 20 EAST, AND PART OF LOTS 115, 116 AND 117 OF WILLIAMS GRANT SUBDIVISION,
ALL LOCATED IN THE CITY OF DE PERE, BROWN COUNTY, WISCONSIN

Legend

- Approximate Sanitary Sewer
- Boring Location
- Approximate Stormwater
- Boring Location



Project: Waterview Heights Fourth Addition Subdivision

Project No.: 00941736

Location: Lost Dauphin Road
De Pere, Wisconsin

Drill Date: June 2, 2022
Drilled By: AD/KH

DEPTH/EL. (feet)		VISUAL SOIL CLASSIFICATION	SAMPLE NO.	N (bpf)	Qp (tsf)	Qu (tsf)	MC (%)	REMARKS
		GROUND SURFACE ELEVATION: 629.9						
1	628.9	0-3" 10YR Dark brown CLAY LOAM, moist (TOPSOIL)	1-SS	4	-	-	24	
		2.5YR 3/3 Dark reddish brown Silty CLAY LOAM,1,f,sbk,mfi,moist						
2	627.9	2.5YR 5/4 Reddish brown Silty CLAY, 1,thin,pl,mfi,moist	2-SS	16	3.5	-	27	
3	626.9							
4	625.9		3-SS	12	4.5+	4.7	24	
5	624.9							
6	623.9		4-SS	12	4.5+	2.6	24	
7	622.9							
8	621.9		5-SS	12	3.5	2.5	22	
9	620.9							
10	619.9		6-SS	8	3.25	-	21	
11	618.9							
12	617.9	2.5YR 3/2 Dusky red SILTY CLAY,1, thin,pl,mfi,moist	7-SS	13	4.5	3.6	24	
13	616.9							
14	615.9		8-SS	9	4.25	2.9	24	
15	614.9							
16	613.9	END OF BORING @ 16± FEET						
FIELD OBSERVATIONS:				ADDITIONAL COMMENTS:				
Water Level during drilling: Not Encountered								
Water Level upon completion: Not Present								
Caved at upon completion: 11± feet below existing grade (EL. 618.9±)								
Delay Time: N/A								
Water Level delayed: N/A								
Caved at delayed: N/A								

Note: Lines of stratification represent an approximate boundary between soil types. Variations may occur between sampling intervals and/or boring locations. Transitions may also be gradual.

Project: Waterview Heights Fourth Addition Subdivision

Project No.: 00941736

Location: Lost Dauphin Road
De Pere, Wisconsin

Drill Date: June 2, 2022
Drilled By: AD/KH

DEPTH/EL. (feet)		VISUAL SOIL CLASSIFICATION		SAMPLE NO.	N (bpf)	Qp (tsf)	Qu (tsf)	MC (%)	REMARKS	
		GROUND SURFACE ELEVATION: 629.2								
1	628.2	0-4"10YR Dark brown CLAY LOAM, moist (TOPSOIL)		1-SS	4	-	-	22	↓	
		2.5YR 3/3 Dark reddish brown SILTY CLAY LOAM, 1,f,sbk,mfi,moist								
2	627.2	2.5YR 5/4 Reddish brown Silty CLAY,1,thin,pl,mfi,moist		2-SS	8	1.5	1.2	36		
3	626.2			3-SS	10	4.5+	3.5	24		
4	625.2									
5	624.2			4-SS	13	4.5+	2.1	22		
6	623.2									
7	622.2			5-SS	10	3.5	4.5	21		
8	621.2									
9	620.2			6-SS	8	3.5	-	19		
10	619.2									
11	618.2			2.5YR 3/2 Dusky red SILTY CLAY,1,thin,pl,mfi,moist	7-SS	11	2.5	2.9		23
12	617.2									
13	616.2	8-SS	10		4.0	3.5	24			
14	615.2									
15	614.2	END OF BORING @ 16± FEET								
16	613.2									
FIELD OBSERVATIONS: Water Level during drilling: Not Encountered Water Level upon completion: Not Present Caved at upon completion: 7± feet below existing grade (EL. 622.2±) Delay Time: N/A Water Level delayed: N/A Caved at delayed: N/A					ADDITIONAL COMMENTS:					

Note: Lines of stratification represent an approximate boundary between soil types. Variations may occur between sampling intervals and/or boring locations. Transitions may also be gradual.

Project: Waterview Heights Fourth Addition Subdivision

Project No.: 00941736

Location: Lost Dauphin Road
De Pere, Wisconsin

Drill Date: June 2, 2022
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DEPTH/EL. (feet)		VISUAL SOIL CLASSIFICATION		SAMPLE NO.	N (bpf)	Qp (tsf)	Qu (tsf)	MC (%)	REMARKS
		GROUND SURFACE ELEVATION: 630.3							
1	629.3	0-1" 10YR Dark brown CLAY LOAM, moist (TOPSOIL)		1-SS	4	3.25	3.1	22	
		2.5YR 3/3 Dark reddish brown Silty CLAY LOAM, 1,f,sbk,mfi,moist							
2	628.3	2.5YR 5/4 Reddish brown Silty CLAY, 1,thin,pl,mfi,moist		2-SS	7	4.25	3.9	27	
3	627.3								
4	626.3								
5	625.3			3-SS	9	1.0	2.0	13	
6	624.3								
7	623.3			4-SS	9	3.5	4.1	21	
8	622.3								
9	621.3			5-SS	12	2.25	-	22	
10	620.3								
11	619.3			6-SS	10	3.0	3.3	21	
12	618.3								
13	617.3			7-SS	9	-	-	24	
14	616.3								
15	615.3			8-SS	9	3.5	3.0	25	
16	614.3								
		END OF BORING @ 16± FEET							
FIELD OBSERVATIONS:					ADDITIONAL COMMENTS:				
Water Level during drilling: Not Encountered					↓				
Water Level upon completion: Not Present					↓				
Caved at upon completion: 9± feet below existing grade (EL. 621.3±)					↓				
Delay Time: N/A					⚡				
Water Level delayed: N/A					⚡				
Caved at delayed: N/A					⚡				

Note: Lines of stratification represent an approximate boundary between soil types. Variations may occur between sampling intervals and/or boring locations. Transitions may also be gradual.

Project: Waterview Heights Fourth Addition Subdivision

Project No.: 00941736

Location: Lost Dauphin Road
De Pere, Wisconsin

Drill Date: June 2, 2022
Drilled By: AD/KH

DEPTH/EL. (feet)		VISUAL SOIL CLASSIFICATION	SAMPLE NO.	N (bpf)	Qp (tsf)	Qu (tsf)	MC (%)	REMARKS
		GROUND SURFACE ELEVATION: 625.6						
1	624.6	0-3" 10YR Dark brown CLAY LOAM, moist (TOPSOIL)	1-SS	5	2.5	-	27	
		2.5YR 3/3 Dark reddish brown Silty CLAY LOAM,1,f,sbk,mfi,moist						
2	623.6	2.5YR 5/ Reddish brown Silty CLAY,1,thin,pl,mfi,moist	2-SS	13	1.5	1.0	34	
3	622.6							
4	621.6							
5	620.6		3-SS	15	4.5+	-	23	
6	619.6							
7	618.6		4-SS	1	3.75	4.5	20	
8	617.6							
9	616.6		5-SS	13	3.75	2.4	23	
10	615.6							
11	614.6		6-SS	11	3.25	3.1	23	
12	613.6							
13	612.6		7-SS	9	1.25	-	23	
14	611.6							
15	610.6		8-SS	8	2.25	2.6	23	
16	609.6							
END OF BORING @ 16± FEET								
FIELD OBSERVATIONS: Water Level _{during drilling} : Not Encountered Water Level _{upon completion} : Not Present Caved at _{upon completion} : 7± feet below existing grade (EL. 618.6±) Delay Time: N/A Water Level _{delayed} : N/A Caved at _{delayed} : N/A				ADDITIONAL COMMENTS:				

Note: Lines of stratification represent an approximate boundary between soil types. Variations may occur between sampling intervals and/or boring locations. Transitions may also be gradual.

Project: Waterview Heights Fourth Addition Subdivision

Project No.: 00941736

Location: Lost Dauphin Road
De Pere, Wisconsin

Drill Date: June 2, 2022
Drilled By: AD/KH

DEPTH/EL. (feet)		VISUAL SOIL CLASSIFICATION	SAMPLE NO.	N (bpf)	Qp (tsf)	Qu (tsf)	MC (%)	REMARKS	
		GROUND SURFACE ELEVATION: 625.7							
1	624.7	0-4" 10YR Dark brown CLAY LOAM, moist (TOPSOIL)	1-SS	5	-	-	26	↓	
		2.5YR 3/3 Dark reddish brown SILTY CLAY LOAM, 1,f,sbk,mfi,moist							
2	623.7	2.5YR 5/4 Reddish brown Silty CLAY, 1,thin,pl,mfi,moist	2-SS	8	4.5+	3.2	26		
3	622.7		3-SS	9	4.5+	4.1	24		
4	621.7								
5	620.7		4-SS	11	3.75	2.5	23		
6	619.7								
7	618.7		5-SS	12	3.5	2.9	50		
8	617.7								
9	616.7		6-SS	12	2.75	3.3	21		
10	615.7								
11	614.7		7-SS*	22	-	-	-		
12	613.7								
13	612.7		8-SS	9	2.25	-	21		
14	611.7								
15	610.7		END OF BORING @ 16± FEET						
16	609.7								
FIELD OBSERVATIONS: Water Level _{during drilling} : Not Encountered Water Level _{upon completion} : Not Present Caved at _{upon completion} : 10± feet below existing grade (EL. 615.7±) Delay Time: N/A Water Level _{delayed} : N/A Caved at _{delayed} : N/A				ADDITIONAL COMMENTS: * No Sample Recovery					

Note: Lines of stratification represent an approximate boundary between soil types. Variations may occur between sampling intervals and/or boring locations. Transitions may also be gradual.

Project: Waterview Heights Fourth Addition Subdivision

Project No.: 00941736

Location: Lost Dauphin Road
De Pere, Wisconsin

Drill Date: June 2, 2022
Drilled By: AD/KH

DEPTH/EL. (feet)	VISUAL SOIL CLASSIFICATION GROUND SURFACE ELEVATION: 628.3	SAMPLE NO.	N (bpf)	Qp (tsf)	Qu (tsf)	MC (%)	REMARKS
1	0-7": Dark brown CLAY, with silt and trace root matter, moist (TOPSOIL)	1-SS	5	-	-	19	
2	Reddish brown CLAY, with silt, moist			4.5+	3.9	26	
3	Light brown SILT, with sand, very moist	2-SS	7	-	-	16	
4							
5	Reddish brown Silty CLAY, moist	3-SS	9	2.0	2.2	17	
6							
7	Reddish brown CLAY, with silt, moist	4-SS	10	4.5+	4.1	16	
8							
9							
10							
11	Reddish brown Silty CLAY, moist	5-SS	11	4.5	3.8	19	
12							
13							
14							
15	Dark reddish gray Silty CLAY, moist	6-SS	8	2.5	1.8	21	
16							
17							
18							
19	Dark reddish gray Silty CLAY, moist	7-SS	9	2.0	1.7	24	
20							
	END OF BORING @ 20± FEET						
FIELD OBSERVATIONS: Water Level during drilling: Not Encountered Water Level upon completion: Not Present Caved at upon completion: 15± feet below ground surface (EL. ±) Delay Time: N/A Water Level delayed: N/A Caved at delayed: N/A			ADDITIONAL COMMENTS:				

Note: Lines of stratification represent an approximate boundary between soil types. Variations may occur between sampling intervals and/or boring locations. Transitions may also be gradual.



DRAFT

SOIL BORING LOG: B - 7

Project: Waterview Heights Fourth Addition Subdivision

Project No.: 00941736

Location: Lost Dauphin Road
De Pere, Wisconsin

Drill Date: June 2, 2022
Drilled By: AD/KH

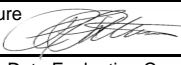
DEPTH/EL. (feet)		VISUAL SOIL CLASSIFICATION	SAMPLE NO.	N (bpf)	Qp (tsf)	Qu (tsf)	MC (%)	REMARKS	
		GROUND SURFACE ELEVATION: 633.6							
1	632.6	0-4": Dark brown CLAY, with silt and trace root matter, moist (TOPSOIL)	1-SS	4	-	-	28		
		Reddish brown Silty CLAY, moist			-	-	35		
2	631.6								
3	630.6	Reddish brown CLAY, with silt, moist	2-SS	11	4.5+	4.1	22		
4	629.6								
5	628.6								
6	627.6	Light brown SILT, with sand, very moist	3-SS	10	-	-	24		
7	626.6								
8	625.6	Reddish brown CLAY, with silt, moist	4-SS	12	3.5	3.2	19		
9	624.6								
10	623.6								
11	622.6	Reddish brown Silty CLAY, moist	5-SS	11	3.0	2.1	21		
12	621.6								
13	620.6								
14	619.6		6-SS	7	4.0	-	19		
15	618.6								
16	617.6								
17	616.6								
18	615.6								
19	614.6	Dark grayish brown Silty CLAY, moist	7-SS	7	2.5	-	23		
20	613.6								
END OF BORING @ 20± FEET									
FIELD OBSERVATIONS:				ADDITIONAL COMMENTS:					
Water Level <small>during drilling</small> : Not Encountered				▼					
Water Level <small>upon completion</small> : Not Present				▼					
Caved at <small>upon completion</small> : 16± feet below ground surface (EL. 617.6±)				⬇					
Delay Time: N/A									
Water Level <small>delayed</small> : N/A				⚡					
Caved at <small>delayed</small> : N/A									

Note: Lines of stratification represent an approximate boundary between soil types. Variations may occur between sampling intervals and/or boring locations. Transitions may also be gradual.

SOIL EVALUATION - STORM

Page 1 of 2

In accordance with SPS 382.365 & 385, Wis. Adm. Code and WDNR Standard 1002

Attach complete site plan on paper not less than 8 1/2 x 11 inches in size. Plan must include, but not limited to: vertical and horizontal reference point (BM), direction and percent slope, scale or dimensions, north arrow, and BM referenced to nearest road. Please print all information. Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04 (1) (m)].						County				
						Brown				
						Parcel I.D.				
						Reviewed by:				
						Date:				
Property Owner				Property Location:						
				Govt. Lot						
Property Owner's Mailing Address				Lot #	Block #	Subd. Name or CSM#				
City State Zip Code Phone Number				<input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town		Nearest Road				
				DePere						
Drainage area _____ <input type="checkbox"/> sq. ft. <input type="checkbox"/> acres Optional: Test Site Suitable for (check all that apply) <input type="checkbox"/> Irrigation <input type="checkbox"/> Bioretention trench <input type="checkbox"/> Trench(es) <input type="checkbox"/> Rain Garden <input type="checkbox"/> Grassed swale <input type="checkbox"/> Reuse <input type="checkbox"/> Infiltration trench <input type="checkbox"/> SDS (> 15' wide) <input type="checkbox"/> Other _____				Hydraulic Application Test Method: <input checked="" type="checkbox"/> Morphological Evaluation <input type="checkbox"/> Double Ring Infiltrometer <input type="checkbox"/> Other (specify)		Soil Moisture Date of Borings: June 2, 2022 USDA-NRCS WETS Value: 10 <input type="checkbox"/> Dry = 1; <input checked="" type="checkbox"/> Normal = 2; <input type="checkbox"/> Wet = 3.				
1	Obs. #	<input checked="" type="checkbox"/> Boring <input type="checkbox"/> Pit		B-1 Ground surface elevation 629.86± Elevation of limiting factor <613.9±						
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	% Fines	Hydraulic App. Rate Inches/Hr.
1	0-3	3" topsoil								
2	3-24	2.5YR 3/3		sicl	1 f sbk	mfi		<15		0.04
3	24-144	2.5YR 5/4		sic	1 thin pl	mfi		<15		0.07
4	144-192	2.5YR 3/2		sic	1 thin pl	mfi		<15		0.07
Comment:										
2	Obs. #	<input checked="" type="checkbox"/> Boring <input type="checkbox"/> Pit		B-2 Ground surface elevation 629.17± Elevation of limiting factor <613.2±						
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	% Fines	Hydraulic App. Rate Inches/Hr.
1	0-4	4" topsoil								
2	4-24	2.5YR 3/3		sicl	1 f sbk	mfi		<15		0.04
3	24-144	2.5YR 5/4		sic	1 thin pl	mfi		<15		0.07
4	144-192	2.5YR 3/2		sic	1 thin pl	mfi		<15		0.07
Comments:										
CST/PSS Name (Please Print)				Signature				CST/PSS/Geologist Number		
Patrick J. Patterson								G-229		
Address				Date Evaluation Conducted				Telephone Number		
821 Corporate Court, Waukesha, WI 53189				6/2/2022				262 521 2125		

SBD-10793 (R.01/17)

3	Obs. #	<input checked="" type="checkbox"/> Boring B-3		Ground surface elevation 630.25±		Elevation of limiting factor <614.2±				
		<input type="checkbox"/> Pit								
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	% Fines	Hydraulic App. Rate Inches/Hr.
1	0-1	1" topsoil								
2	1-24	2.5YR 3/3		sicl	1 f sbk	mfi		<15		0.04
3	24-156	2.5YR 5/4		sic	1 thin pl	mfi		<15		0.07
4	156-192	2.5YR 3/2		sic	1 thin pl	mfi		<15		0.07
Comments:										

4	Obs. #	<input checked="" type="checkbox"/> Boring B-4		Ground surface elevation 625.63±		Elevation of limiting factor <609.6±				
		<input type="checkbox"/> Pit								
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	% Fines	Hydraulic App. Rate Inches/Hr.
1	0-1	3" topsoil								
2	1-24	2.5YR 3/3		sicl	1 f sbk	mfi		<15		0.04
3	24-192	2.5YR 5/4		sic	1 thin pl	mfi		<15		0.07
Comments										

5	Obs. #	<input checked="" type="checkbox"/> Boring B-5		Ground surface elevation 625.66±		Elevation of limiting factor <609.7±				
		<input type="checkbox"/> Pit								
Horizon	Depth in.	Dominant Color Munsell	Redox Description Qu. Sz. Cont. Color	Texture	Structure Gr. Sz. Sh.	Consistence	Boundary	% Rock Frag.	% Fines	Hydraulic App. Rate Inches/Hr.
1	0-1	4" topsoil								
2	1-24	2.5YR 3/3		sicl	1 f sbk	mfi		<15		0.04
3	24-192	2.5YR 5/4		sic	1 thin pl	mfi		<15		0.07
Comments:										

EXHIBIT 2

VILLAGE OF HOWARD CBU STANDARD

- Also consider that it is probably important to make sure that CBU's and their foundation pads are installed before the first Builder shows up, so that home placement and driveways won't interfere with the CBU and pad later.
 - Make sure the product you order is USPS approved - F SERIES
 - Either the Post office, Developer or Municipality can Pass the keys out. If you have residents stopping by Public Works to get their garbage cans anyway that might make sense for the Municipality. Handing out keys only happens once.
 - When homeowners move, they are supposed to hand CBU mailbox keys to the new homeowners.
 - If a resident loses their keys, they will have to call the post office and for a fee USPS will install a new lock and provide a new set of keys.

- Florence Manufacturing and Salsbury Industries are the two primary manufacturers of USPS approved cluster mailboxes in the United States. The number of compartment slots and compartment slot sizes vary in each CBU type.

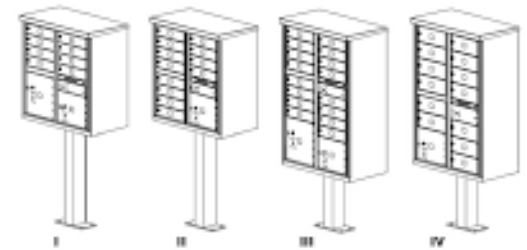
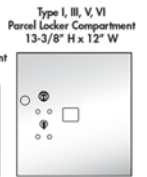
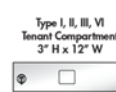
- All CBUs have the same outside overall dimensions: 30.5" wide by 18" deep. They all have the same total height. The posts are taller or shorter depending on how many compartments are selected. Standard 3" tall compartment door sizes come in 8, 12, and 16 unit configurations, while the larger 4-3/4" compartment door size comes in a 13 unit configuration. CBU's have two half double doors on the front that the postal employee opens to load the mail into. They also come with optional decorative features and parcel box models for larger delivery items.

- The two most common CBU models that might be used in a subdivision can be seen here and are approximately \$1,400 each, Howard is going to standardize on the Type IV unit below.

Cluster Box Unit Standard Compartment Sizes

All CBU Types are USPS Approved and pre-configured with standard tenant and parcel locker compartment heights which meet specific regulations.

Note: All CBU parcel locker compartments are 19.5/8" H x 12" W



	TYPE I	TYPE II	TYPE III	TYPE IV
INSTALLED HEIGHT	62"	62"	62"	62"
DEPTH	27-7/8"	27-7/8"	27-7/8"	27-7/8"
WIDTH	30-1/2"	30-1/2"	30-1/2"	30-1/2"
WEIGHT (WITHOUT POSTAL)	147 LBS	147 LBS	147 LBS	147 LBS
WEIGHT (WITH POSTAL)	225 LBS	225 LBS	225 LBS	225 LBS
QTY OF STANDARD COMPARTMENTS	8	22	36	13
QTY OF PARCEL COMPARTMENTS	2	3	2	1
PARCEL COMPARTMENT HEIGHT	30", 31"	30"	30", 31"	30"

- Type III – is a 16 compartment CBU that has 3" tall and 12" wide slots. Good for letters and magazines but that's about it. It has 2 lower parcel boxes built in the bottom and 1 outgoing mail slot. 2 CBU units will serve up to 32 lots.

- Type IV – is a 13 compartment CBU that has 4-3/4" tall and 12" wide slots. It has 1 lower parcel box built in the bottom and 1 outgoing mail slot. Smaller flexible Amazon packages might fit in these larger slots but it only has one parcel box. 2 CBU units will serve up to 26 lots. In my opinion this is better but could result in the need for an one extra CBU location in a subdivision having the same number of lots.

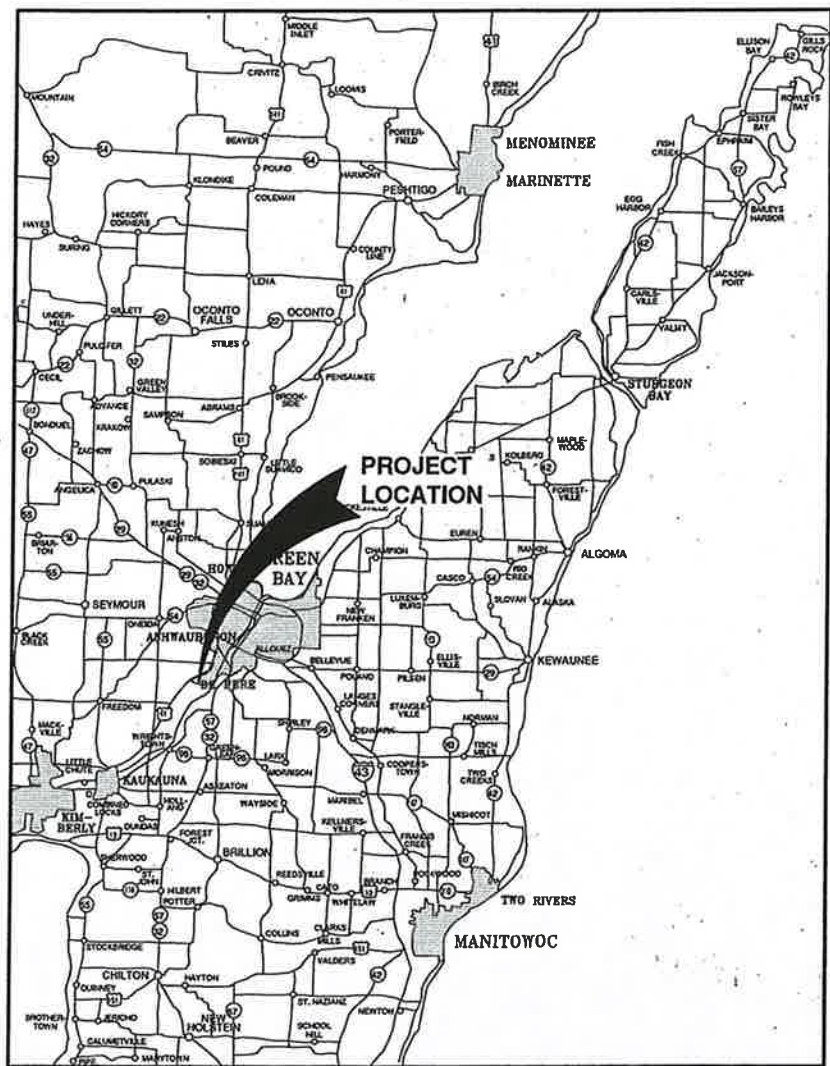
- You can rationalize why you would want a particular CBU for each situation. There is no right or wrong answer and the post office doesn't really care which is used.



2022 UTILITY AND STREET CONSTRUCTION WATERVIEW HEIGHTS FIFTH ADDITION CITY OF DE PERE, BROWN COUNTY, WI

CONTRACT NO. 22-11

ATTENTION!
DOWNLOADED PLANS ARE NOT SCALEABLE, NEITHER THE
OWNER OR THE ENGINEER SHALL BE HELD RESPONSIBLE
FOR THE SCALE OR PRINT QUALITY OF DOWNLOADED PLANS.
ONLY PRINTED PLANS FROM BLUE PRINT SERVICE CO., INC.
SHALL BE CONSIDERED TO BE SCALEABLE PLANS.



VICINITY MAP

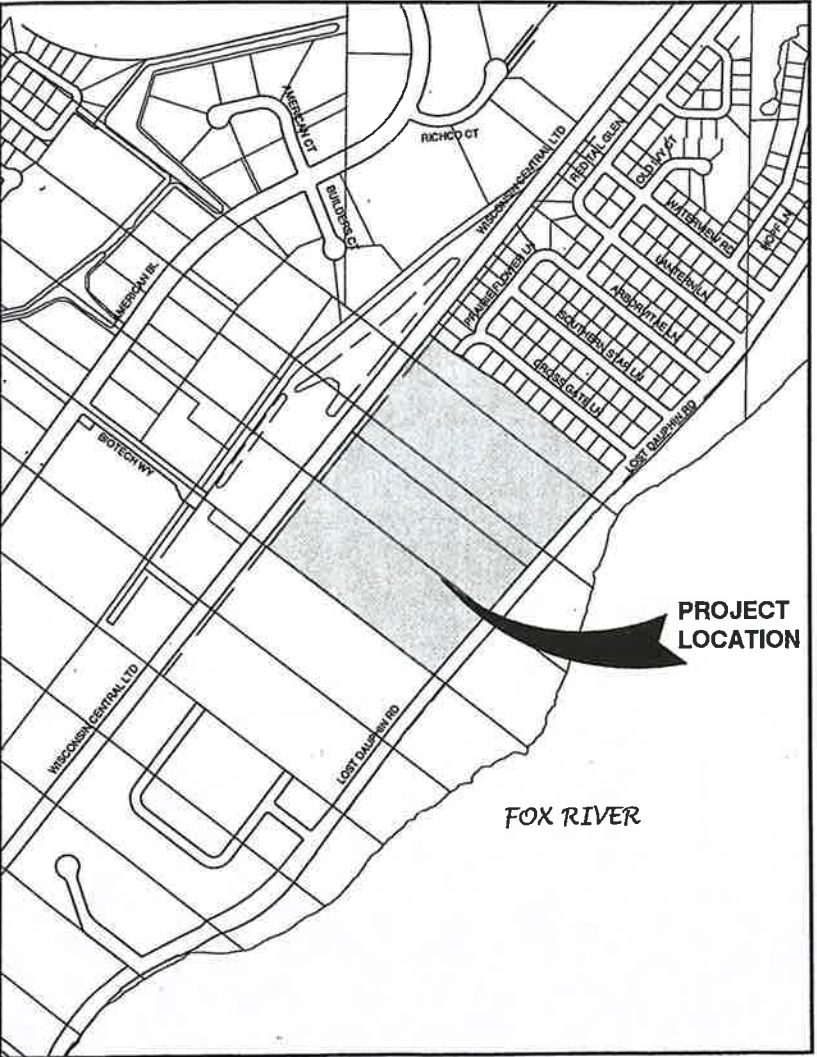
NOTE:
EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE
RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES,
WHETHER SHOWN OR NOT, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITY
OWNERS SHALL BE NOTIFIED FOR LOCATES BY THE CONTRACTOR 72 HOURS PRIOR TO
EXCAVATION.

NOTE:
ALL EROSION CONTROL MEASURES SHALL
BE IN PLACE PRIOR TO CONSTRUCTION
AND SHALL CONFORM TO THE WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
CONSTRUCTION SITE EROSION CONTROL
AND TECHNICAL STANDARDS.



6/15/2022
DATE
6/15/22
DATE
6/15/22
DATE

E.P. Robaidek
CITY ENGINEER
M. M. Doherty
CITY ADMINISTRATOR
J. J. Boyle
MAYOR



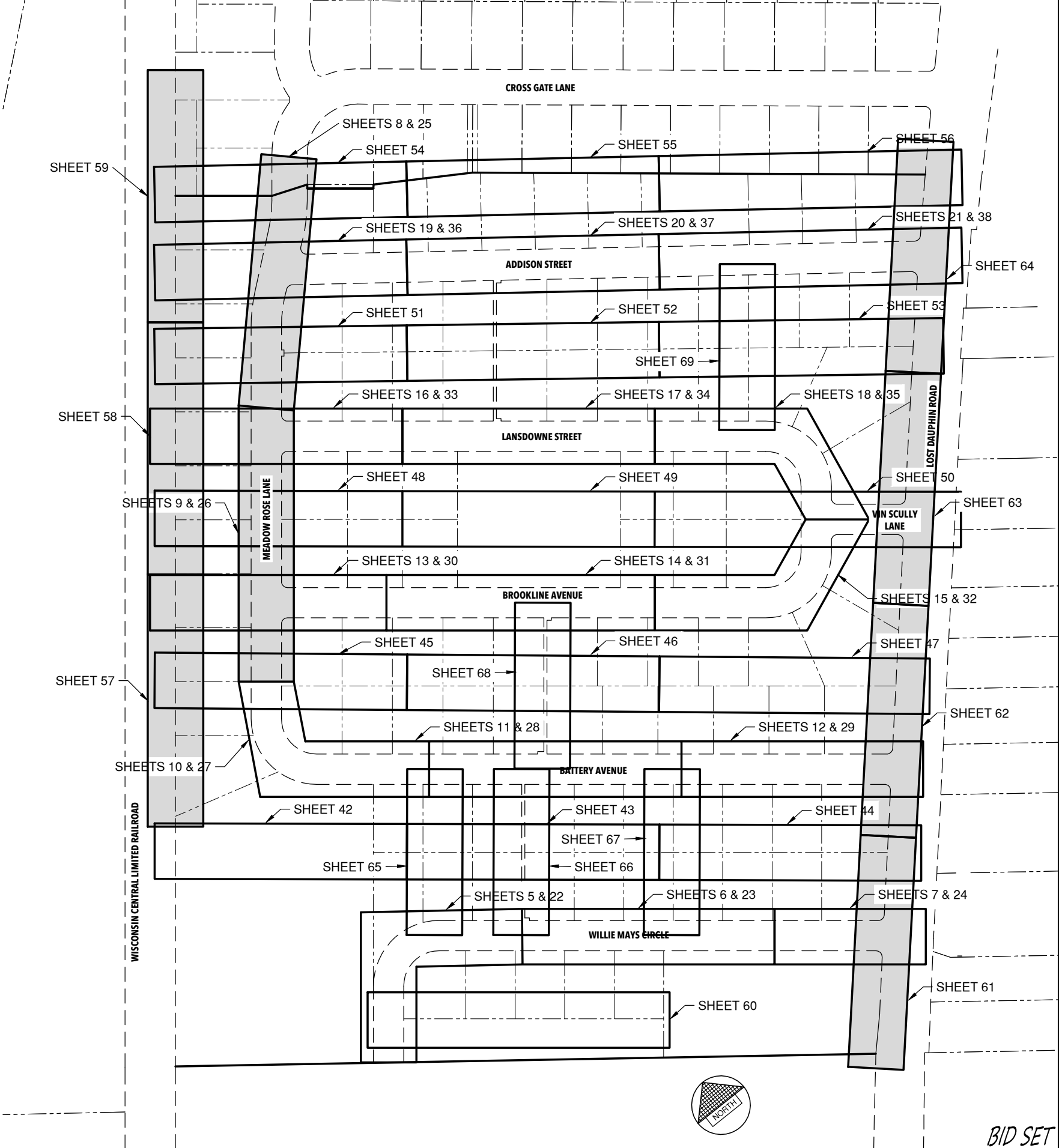
LOCATION MAP

SHT. NO.

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BACK PROPERTY LINE BETWEEN WILLIE MAYS CIRCLE AND BATTERY AVENUE - STA. 905+00 TO STA. 910+00
BACK PROPERTY LINE BETWEEN WILLIE MAYS CIRCLE AND BATTERY AVENUE - STA. 910+00 TO STA. 915+50
BACK PROPERTY LINE BETWEEN BATTERY AVENUE AND BROOKLINE AVENUE - STA. 700+00 TO STA. 705+00
BACK PROPERTY LINE BETWEEN BATTERY AVENUE AND BROOKLINE AVENUE - STA. 705+00 TO STA. 710+00
BACK PROPERTY LINE BETWEEN BATTERY AVENUE AND BROOKLINE AVENUE - STA. 710+00 TO STA. 716+00
BACK PROPERTY LINE BETWEEN LANSDOWNE STREET AND BROOKLINE AVENUE - STA. 500+00 TO STA. 505+00
BACK PROPERTY LINE BETWEEN LANSDOWNE STREET AND BROOKLINE AVENUE - STA. 505+00 TO STA. 510+00
VIN SCULLY LANE AND BACK PROPERTY LINE BETWEEN LANSDOWNE STREET AND BROOKLINE AVENUE
STA. 510+00 TO STA. 516+00
BACK PROPERTY LINE BETWEEN ADDISON STREET AND LANSDOWNE STREET - STA. 300+00 TO STA. 305+00
BACK PROPERTY LINE BETWEEN ADDISON STREET AND LANSDOWNE STREET - STA. 305+00 TO STA. 310+00
BACK PROPERTY LINE BETWEEN ADDISON STREET AND LANSDOWNE STREET - STA. 310+00 TO STA. 316+00
BACK PROPERTY LINE BETWEEN CROSS GATE LANE AND ADDISON STREET - STA. 100+00 TO STA. 105+00
BACK PROPERTY LINE BETWEEN CROSS GATE LANE AND ADDISON STREET - STA. 105+00 TO STA. 111+00
BACK PROPERTY LINE BETWEEN CROSS GATE LANE AND ADDISON STREET - STA. 111+00 TO STA. 116+00
BACK PROPERTY LINE AT WISCONSIN CENTRAL LTD RAILROAD - STA. 55+00 TO STA. 60+00
BACK PROPERTY LINE AT WISCONSIN CENTRAL LTD RAILROAD - STA. 60+00 TO STA. 65+00
BACK PROPERTY LINE AT WISCONSIN CENTRAL LTD RAILROAD - STA. 65+00 TO STA. 68+00
BACK PROPERTY LINE AT WILLIE MAYS CIRCLE - STA. 104+00 TO STA. 110+00
LOST DAUPHIN ROAD - STA. 90+00 TO STA. 95+00
LOST DAUPHIN ROAD - STA. 95+00 TO STA. 100+00
LOST DAUPHIN ROAD - STA. 100+00 TO STA. 105+00
LOST DAUPHIN ROAD - STA. 150+00 TO STA. 108+50
WATERMAIN BETWEEN WILLIE MAYS CIRCLE AND BATTERY AVENUE - STA. 1000+00 TO STA. 1003+36
STORM SEWER BETWEEN WILLIE MAYS CIRCLE AND BATTERY AVENUE - STA. 2000+00 TO STA. 2004+09
STORM SEWER BETWEEN WILLIE MAYS CIRCLE AND BACKYARD TO EAST - STA. 3000+00 TO STA. 3002+24.50
STORM SEWER BETWEEN BATTERY AVENUE AND BROOKLINE AVENUE - STA. 4000+00 TO STA. 4003+69.50
STORM SEWER BETWEEN LANSDOWNE STREET AND ADDISON STREET - STA. 5000+00 TO STA. 5003+61.66
OVERALL UTILITY PLAN
OVERALL GRADING AND EROSION CONTROL PLAN
STAGES OF CONSTRUCTION
RESTORATION PLAN
WEST POND PLAN AND DETAILS
EAST POND PLAN AND DETAILS
ALIGNMENT PLAN
MISCELLANEOUS DETAILS
MISCELLANEOUS DETAILS
MISCELLANEOUS DETAILS
MISCELLANEOUS DETAILS
EROSION CONTROL - INLET PROTECTION TYPES A, B, C AND D
EROSION CONTROL - INLET PROTECTION TYPE D-HR AND TYPE D-M
EROSION CONTROL - DITCH CHECK DETAILS
EROSION CONTROL - SHEET FLOW DETAILS
EROSION CONTROL - TRACKOUT CONTROL PRACTICES
EROSION CONTROL - EROSION MAT SLOPE APPLICATION DETAILS
EROSION CONTROL - EROSION MAT CHANNEL APPLICATION DETAILS



1-33 CROSS SECTIONS											
NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN	CHECKED	DESIGNED	BDR
								JMS			

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

INDEX TO DRAWINGS

DATE
01/20/22
FILE
0404471KEY
JOB NO.
0404471

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
920-662-9641 www.releeinc.com

SHEET NO.
2

File: R:\0400\0404\040447\dwg\0404471KEY.dwg
Plot Date: Jan 05, 2022 - 7:59am
LAYOUT: LEGEND

PROPOSED
EXISTING
FIRE HYDRANT
WATER VALVE/CURB STOP
WATER MANHOLE
REDUCER/INCREASER
SANITARY MANHOLE
LIFT STATION
TRACER WIRE SIGNAL CONNECTION BOX
AIR RELIEF MANHOLE
STORM MANHOLE
OPEN STORM MANHOLE
STORM INLET
STORM INLET MANHOLE
YARD DRAIN

LEGEND
SOIL BORING
POWER POLE
POWER POLE W/GUY WIRE
LIGHT POLE
TRAFFIC SIGNAL POLE
ELECTRIC MANHOLE
ELECTRIC METER
TELEPHONE MANHOLE
TELEPHONE PEDESTAL
CABLE TV MANHOLE
CABLE TV PEDESTAL
GAS VALVE
GAS METER
MAILBOX
SIGN
POST
IRON PIPE/ROD
PK NAIL
INLET PROTECTION
DECIDUOUS TREE
CONIFEROUS TREE
BUSH
BALE DITCH CHECK
RIP RAP
LATERAL LOCATION
SPOT ELEVATION
FIRST FLOOR/BASEMENT ELEVATION
APPROXIMATE ROCK ELEVATION
EXISTING CULVERT
TRACKING PAD
CUT AND PLUG

EDGE OF PAVEMENT
EDGE OF GRAVEL
PROPOSED CURB & GUTTER
EXISTING CURB & GUTTER
TREE/BRUSH LINE
EXISTING CONTOUR LINE
PROPOSED CONTOUR LINE
RETAINING WALL
GUARD RAIL
FENCE
SILT FENCE
PROPOSED SANITARY SEWER
EXISTING SANITARY SEWER (SIZE NOTED)
PROPOSED FORCEMAIN
EXISTING FORCEMAIN (SIZE NOTED)
PROPOSED STORM SEWER
EXISTING STORM SEWER (SIZE NOTED)
PROPOSED WATERMAIN
EXISTING WATERMAIN (SIZE NOTED)
GAS LINE
OVERHEAD TELEPHONE LINE
UNDERGROUND TELEPHONE LINE
FIBER OPTIC LINE
OVERHEAD ELECTRIC LINE
UNDERGROUND ELECTRIC LINE
OVERHEAD CABLE TV LINE
UNDERGROUND CABLE TV LINE
R/W LINE
PROPERTY LINE
EASEMENT LINE
BUILDING SETBACK LINE
SECTION LINE

GR.	GRAVEL	WM	WATERMAIN	VPC	VERTICAL POINT OF CURVATURE	R/W	RIGHT OF WAY
BIT.	BITUMINOUS	HYD.	HYDRANT	VPI	VERTICAL POINT OF INTERSECTION	T/C	TOP OF CURB
ASPH.	ASPHALT PAVEMENT	WV	WATER VALVE	VPT	VERTICAL POINT OF TANGENCY	F/L	FLOW LINE
CONC.	CONCRETE	SAN	SANITARY SEWER	PC	POINT OF CURVATURE	C/L	CENTERLINE
SW	SIDEWALK	MH	MANHOLE	PI	POINT OF INTERSECTION	P/L	PROPERTY LINE
BLDG	BUILDING	ST	STORM SEWER	PT	POINT OF TANGENCY	R/L	REFERENCE LINE
HSE	HOUSE	CB	CATCH BASIN	R	RADIUS	INV.	INVERT
PED	PEDESTAL	TELE	TELEPHONE	EX	EXISTING	CMP	CORRUGATED METAL PIPE
PP	POWER POLE	ELEC	ELECTRIC	PR	PROPOSED	RCP	REINFORCED CONCRETE PIPE
LP	LIGHT POLE	TV	TELEVISION	EOR	END OF RADIUS	CULV.	CULVERT
BM	BENCH MARK	STA.	STATION	B-B	BACK TO BACK (OF CURB)		

UTILITY INFORMATION:

UTILITIES PRESENT:

CITY OF DE PERE PUBLIC WORKS DEPARTMENT, TOWN OF LAWRENCE PUBLIC WORKS DEPARTMENT, WISCONSIN PUBLIC SERVICE CORP., AT & T, TIME WARNER CABLE, NET LEC, CENTURYLINK AND WINDSTREAM COMMUNICATIONS

UTILITIES SHOWN ON THIS MAP ARE BASED ON LOCATES FROM:

DIGGER'S HOTLINE TICKET NUMBER --# & DATE--, VISIBLE OBSERVATION (--DATE--) AND RECORD UTILITY PLAN DOCUMENTS. UTILITY LINE LOCATIONS SHOULD BE VERIFIED PRIOR TO ANY DIGGING. THIS SITE MAY CONTAIN BURIED UTILITIES NOT IDENTIFIED ON THIS MAP.

DIGGERS HOTLINE = 1-800-242-8511

WATER/SANITARY/STORM SEWER:
DEPARTMENT OF PUBLIC WORKS
CITY OF DE PERE
925 SIXTH ST.
DE PERE, WI 54155

(920) 339-8076

WATER/SANITARY/STORM SEWER:
DEPARTMENT OF PUBLIC WORKS
TOWN OF LAWRENCE
2595 FRENCH RD.
DE PERE, WI 54115

(920) 347-3711

GAS & ELECTRIC:
WISCONSIN PUBLIC SERVICE CORP.
700 N. ADAMS ST.
GREEN BAY, WI 54307

(800) 797-7434

TELECOMMUNICATIONS:
AT & T / SBC
205 S. JEFFERSON ST.
GREEN BAY, WI 54301

(920) 433-4147

TELECOMMUNICATIONS:
TIME WARNER CABLE
2580 W. MASON ST.
GREEN BAY, WI 54303

(920) 944-1581

TELECOMMUNICATIONS:
NET LEC / NSIGHT / CELLCOM
C/O MI TECH SERVICES
1700 INDUSTRIAL DR.
GREEN BAY, WI 54302

(920) 288-8908

TELECOMMUNICATIONS:
CENTURYLINK
P.O. BOX 260
WAUSAUKEE, WI 54177

(715) 856-9738

TELECOMMUNICATIONS:
WINDSTREAM COMMUNICATIONS
4001 RODNEY PARHAM RD.
LITTLE ROCK, AR 72212

(501) 748-7000



TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE.

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN JMS
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

LEGEND AND GENERAL NOTES

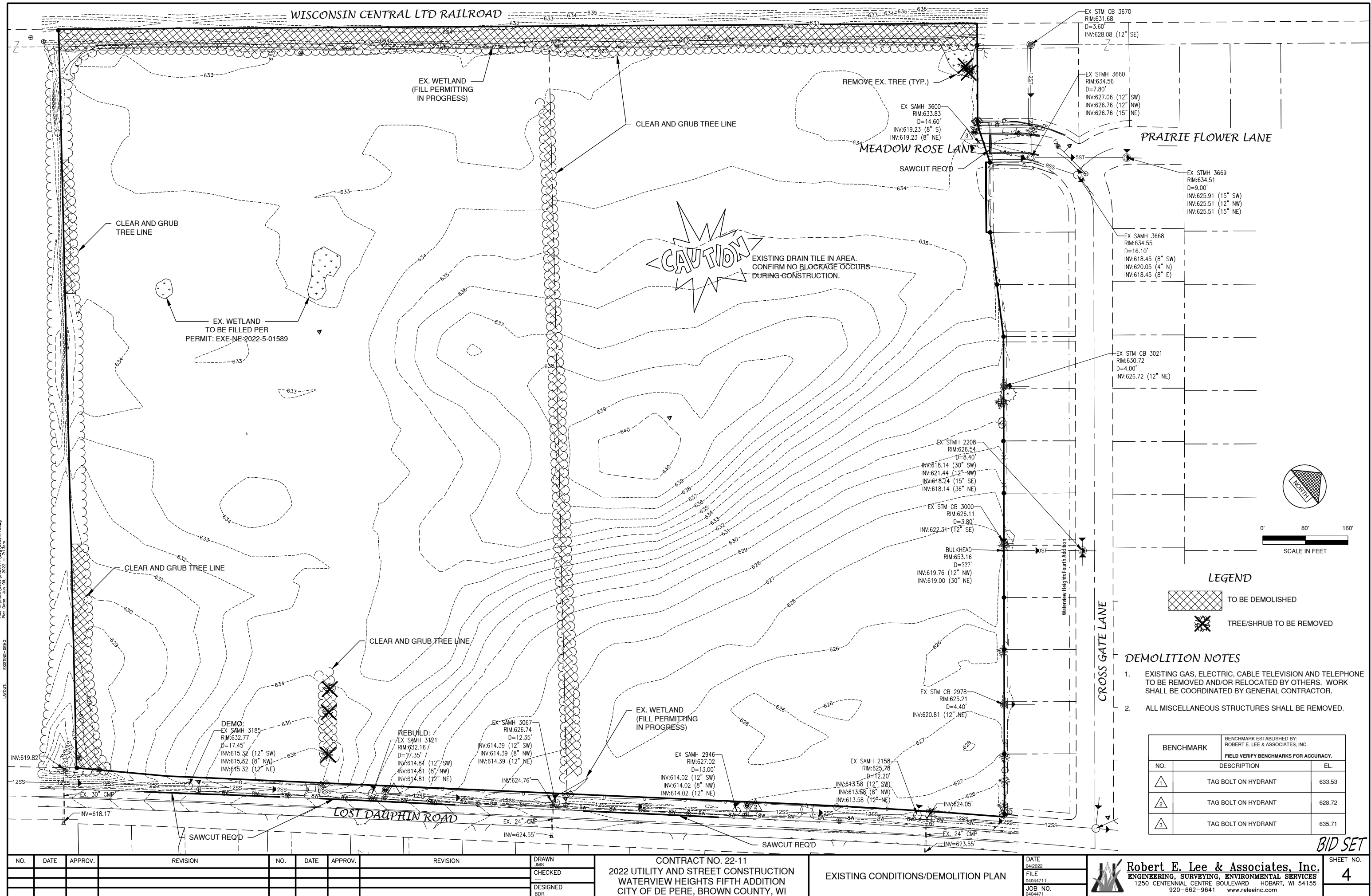
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JOB NO. 0404471



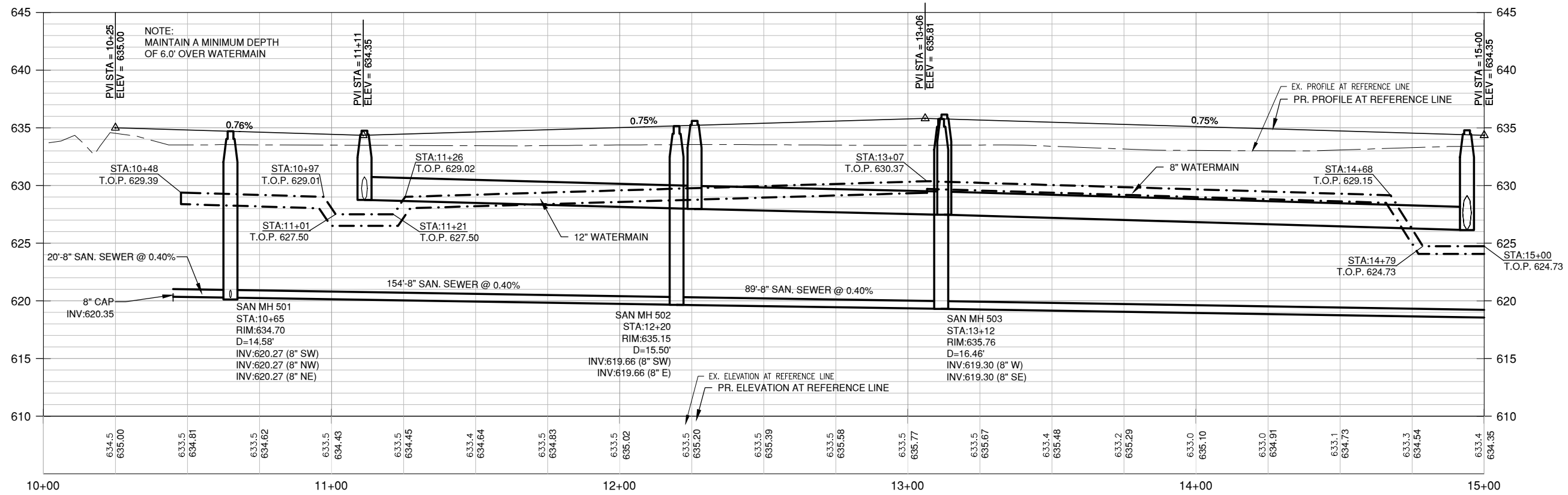
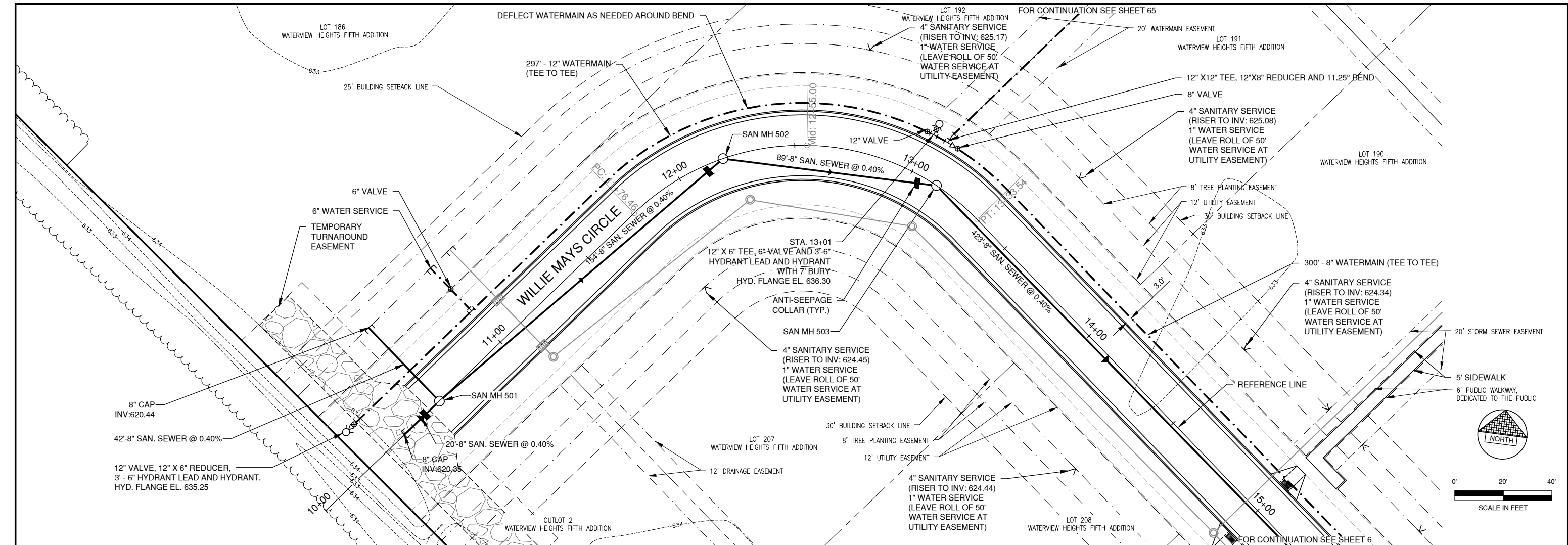
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SHEET NO.
3

BID SET



File: R:\0400\0404\0404.dwg
Plot Date: Jun 16, 2022 - 7:53 am
LWJ:R
A1-101 5-W



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

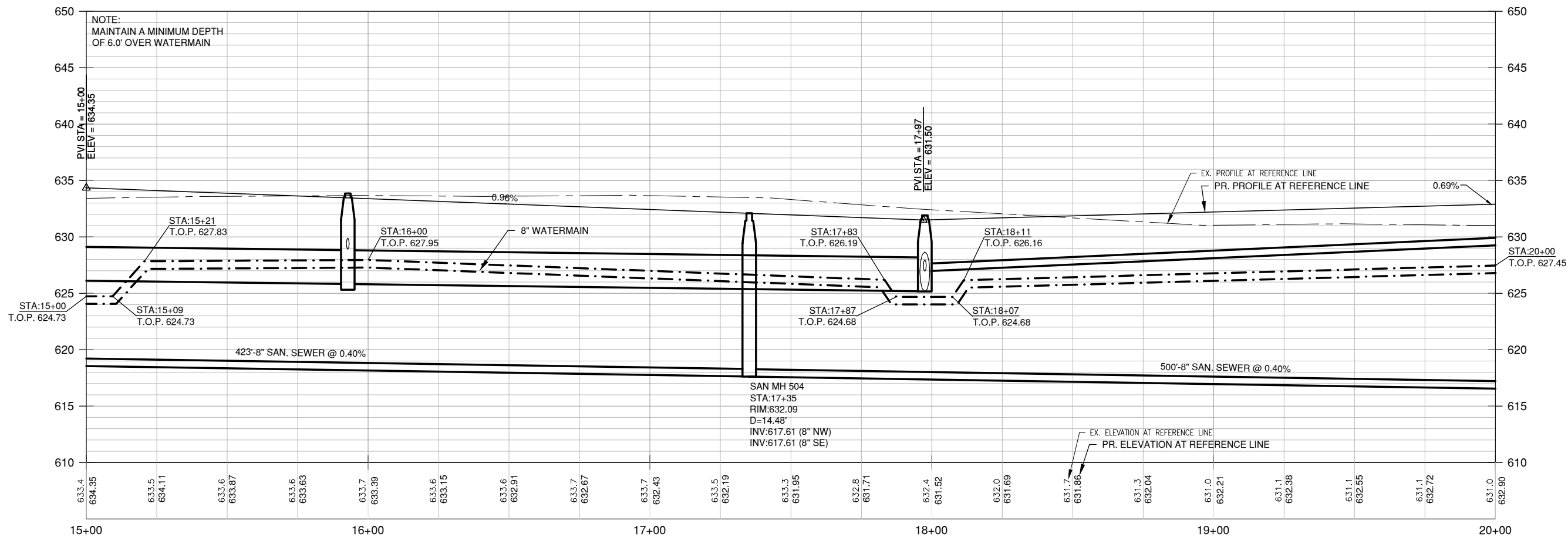
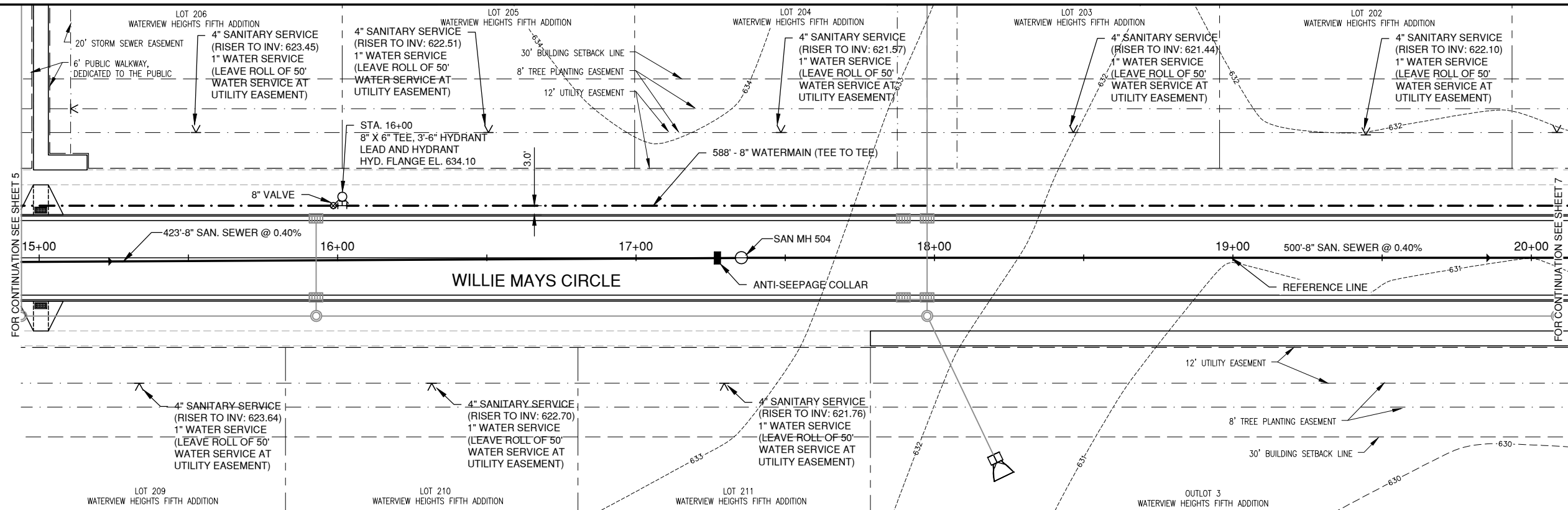
DRAWN JMS-LLP
CHECKED ---
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WISCONSIN

SANITARY SEWER AND WATERMAIN
WILLIE MAYS CIRCLE
STA. 10+00 TO STA. 15+00

DATE
06/20/22
FILE
A-ALL-10
JOB NO.
0404471

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 LWS:R

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

CONTRACT NO. 22-11
 2022 UTILITY AND STREET CONSTRUCTION
 WATERVIEW HEIGHTS FIFTH ADDITION
 CITY OF DE PERE, BROWN COUNTY, WISCONSIN

SANITARY SEWER AND WATERMAIN
 WILLIE MAYS CIRCLE
 STA. 15+00 TO STA. 20+00

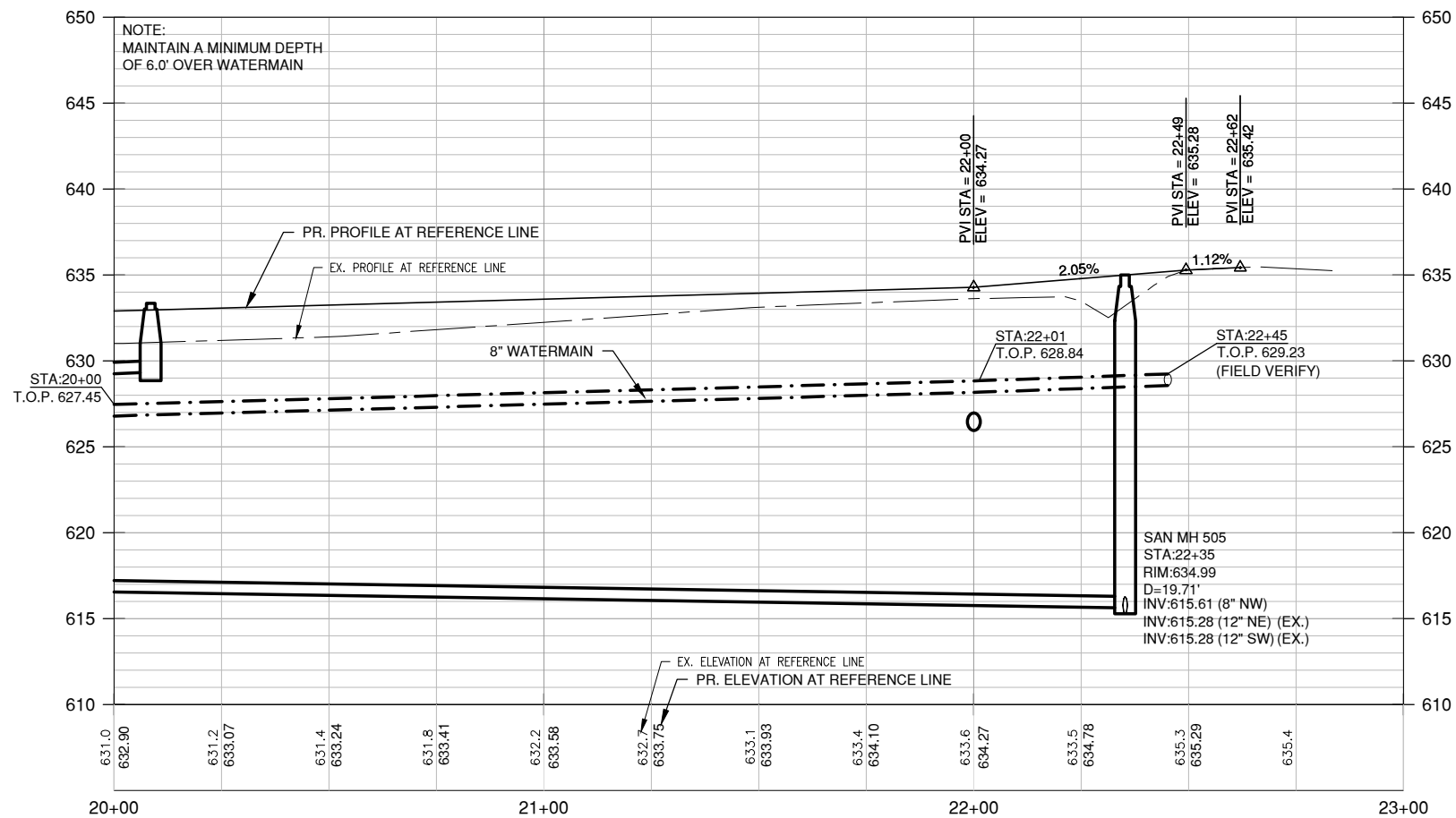
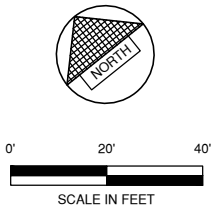
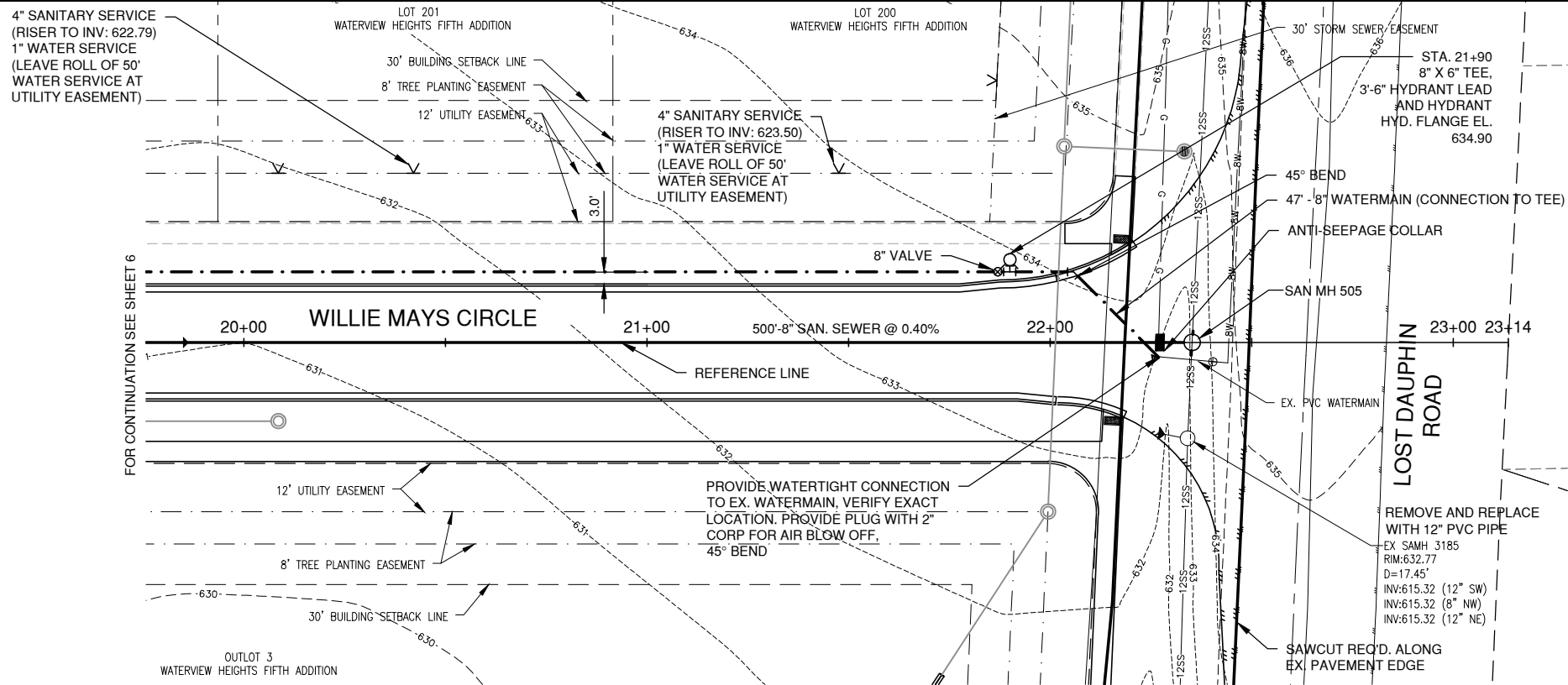
DATE
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 FILE
 A-ALL-10
 JOB NO.
 0404471



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BID SET
 SHEET NO.
6

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Plot Date: Jun 16, 2022 - 7:53 am
LAYOUT: AL-103 S-W



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN JMS-LLP
CHECKED ---
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WISCONSIN

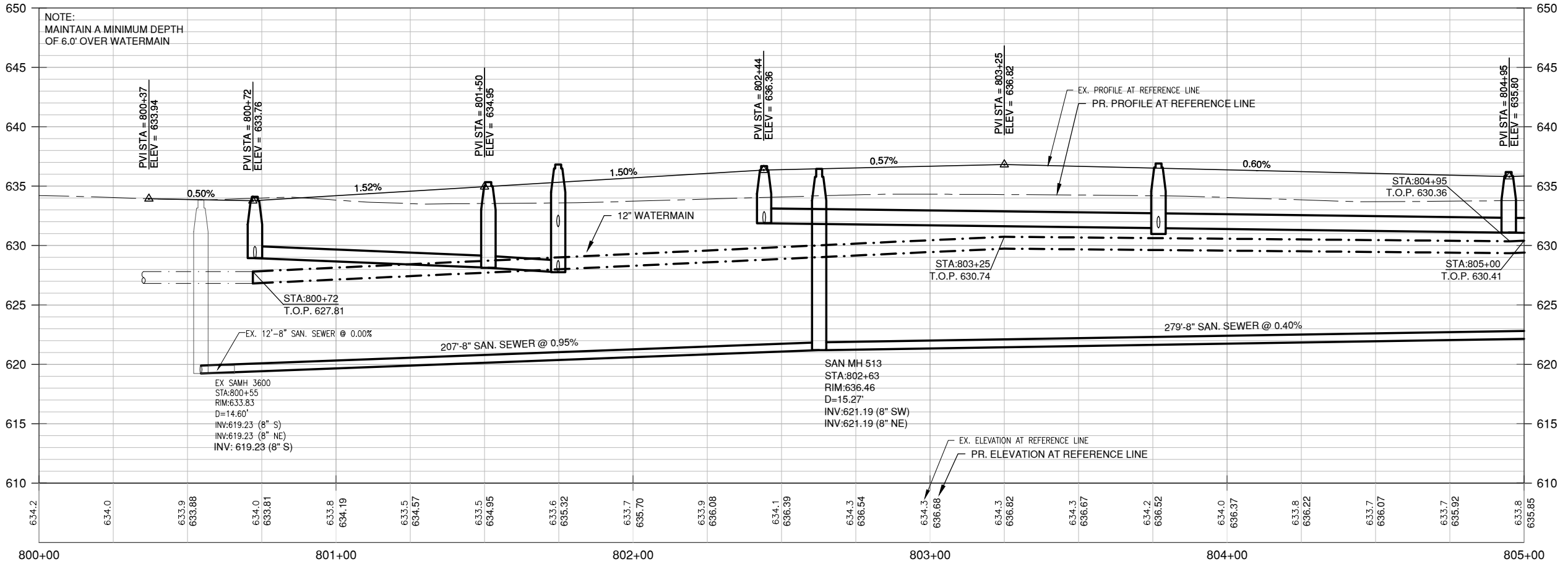
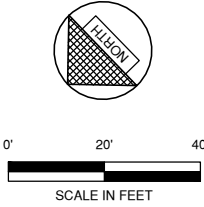
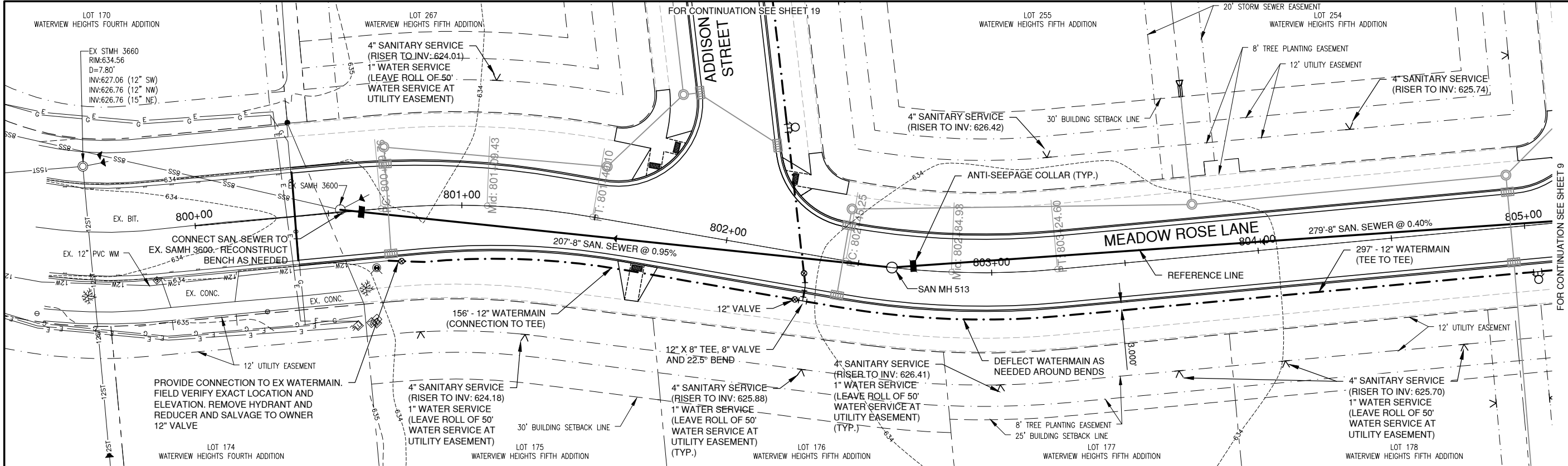
SANITARY SEWER AND WATERMAIN
WILLIE MAYS CIRCLE
STA. 20+00 TO STA. 23+00

DATE 06/20/22
FILE A-ALL-10
JOB NO. 0404471



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BID SET
SHEET NO.
7



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Plot Date: Jun 15, 2022 - 9:00am
LAYOUT: MPT 5-W

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN LLP
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

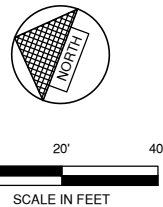
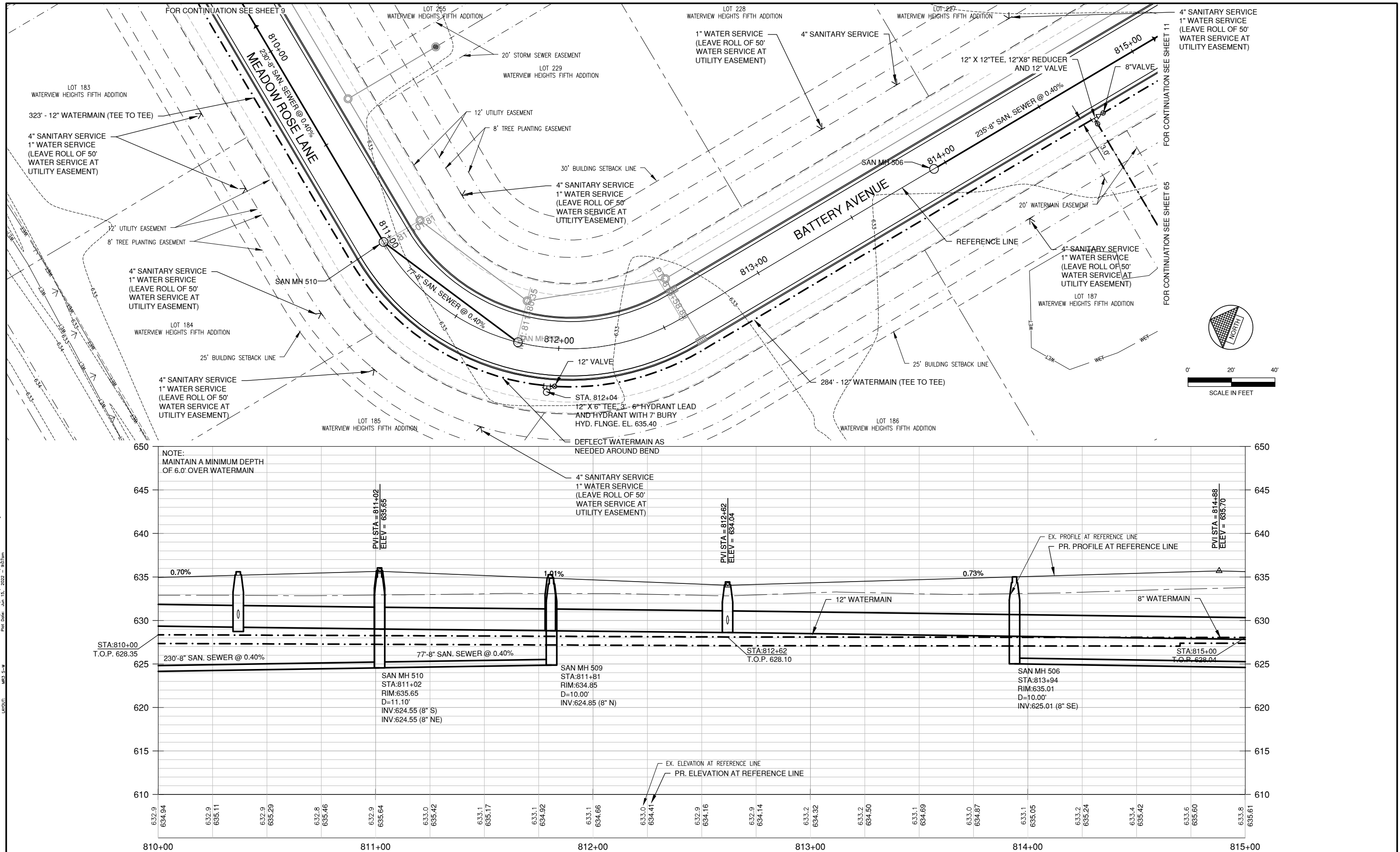
SANITARY SEWER AND WATERMAIN
MEADOW ROSE LANE
STA. 800+00 TO STA. 805+00

DATE
05/20/22
FILE
A MEADOW ROSE
JOB NO.
0404471

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BID SET
SHEET NO.
8

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LAYOUT: MP3 3-W

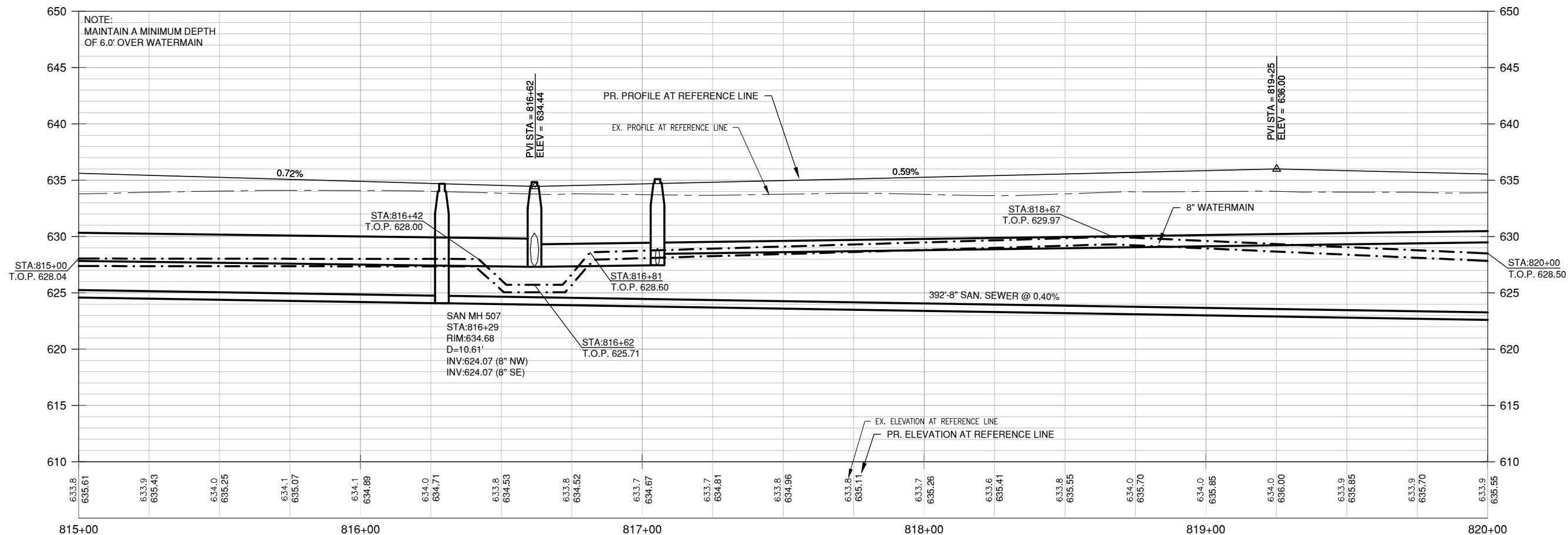
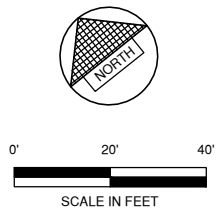
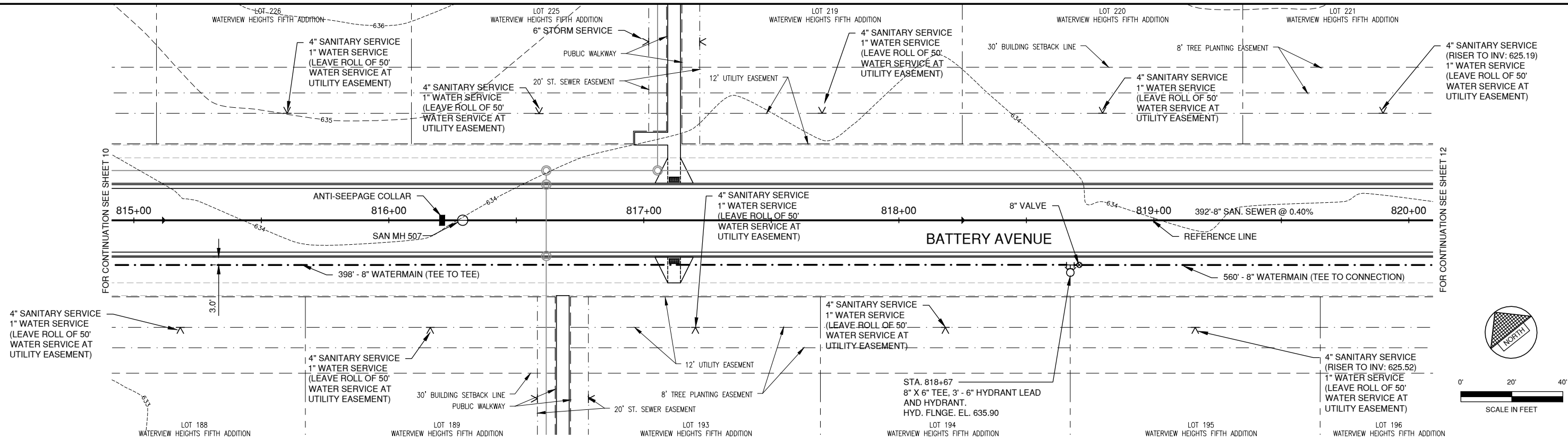


NO.				DATE				APPROV.				REVISION				DRAWN			
																LLP			
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																BDR			

CONTRACT NO. 22-11 2022 UTILITY AND STREET CONSTRUCTION WATERVIEW HEIGHTS FIFTH ADDITION CITY OF DE PERE, BROWN COUNTY, WI										SANITARY SEWER AND WATERMAIN MEADOW ROSE LANE AND BATTERY AVENUE STA. 810+00 TO STA. 815+00									
DATE 05/20/22					FILE A_Meadow Rose					JOB NO. 0404471					Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155 920-662-9641 www.releeinc.com				

SHEET NO.	10
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File: R:\0400\0404\0404471\A\MEADOW ROSE.dwg
Plot Date: Jun 15, 2022 - 9:07 am
MPK 5-W
LAYOUT



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN LLP
CHECKED ---
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

SANITARY SEWER AND WATERMAIN
BATTERY AVENUE
STA. 815+00 TO STA. 820+00

DATE
05/20/22
FILE
A MEADOW ROSE
JOB NO.
0404471



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BID SET
SHEET NO.
11

File: R:\0400\0404\0404471\Drawings\MEADOW ROSE.dwg
Plot Date: Jun 15, 2022 - 9:07 am
LAYOUT: MRS 5-W

LOT 221
WATERVIEW HEIGHTS FIFTH ADDITION

LOT 222
WATERVIEW HEIGHTS FIFTH ADDITION

LOT 223
WATERVIEW HEIGHTS FIFTH ADDITION

LOT 224
WATERVIEW HEIGHTS FIFTH ADDITION

FOR CONTINUATION SEE SHEET 11

4" SANITARY SERVICE
(RISER TO INV: 625.08)
1" WATER SERVICE
(LEAVE ROLL OF 50'
WATER SERVICE AT
UTILITY EASEMENT)

LOT 196
WATERVIEW HEIGHTS FIFTH ADDITION

4" SANITARY SERVICE
(RISER TO INV: 624.47)
1" WATER SERVICE
(LEAVE ROLL OF 50'
WATER SERVICE AT
UTILITY EASEMENT)

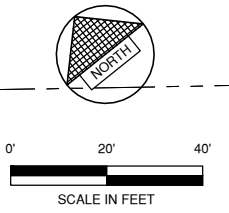
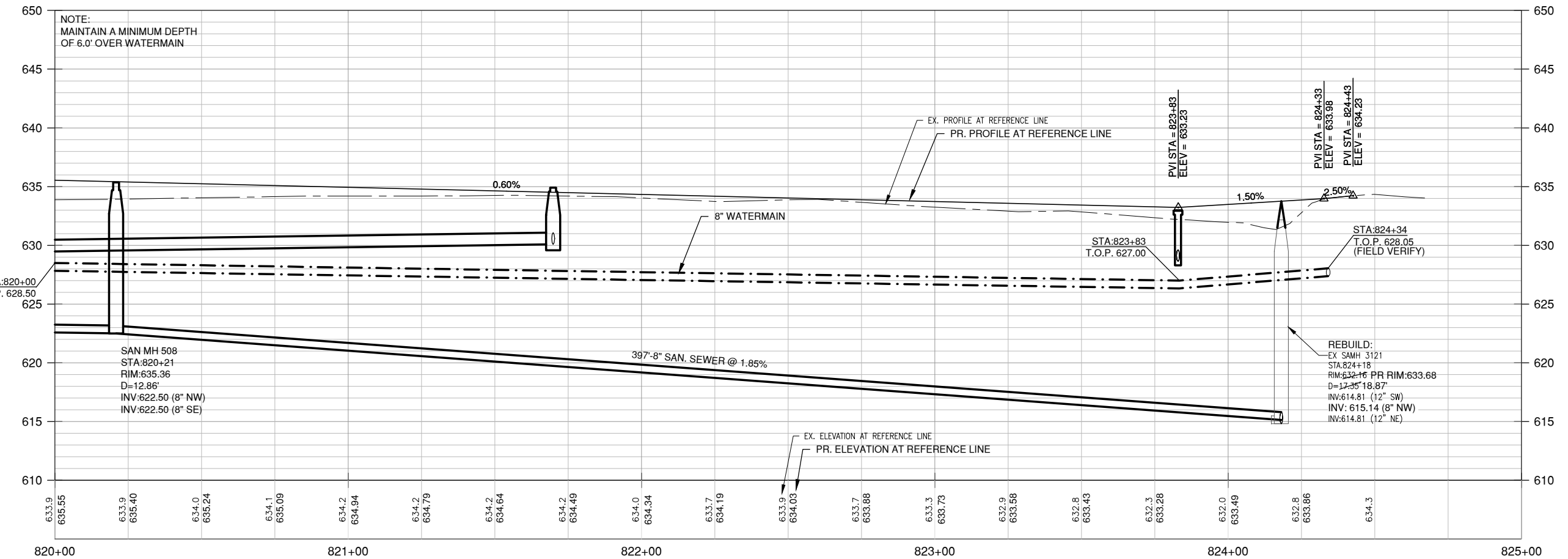
LOT 197
WATERVIEW HEIGHTS FIFTH ADDITION

4" SANITARY SERVICE
(RISER TO INV: 623.88)
1" WATER SERVICE
(LEAVE ROLL OF 50'
WATER SERVICE AT
UTILITY EASEMENT)

LOT 198
WATERVIEW HEIGHTS FIFTH ADDITION

4" SANITARY SERVICE
(RISER TO INV: 623.25)
1" WATER SERVICE
(LEAVE ROLL OF 50'
WATER SERVICE AT
UTILITY EASEMENT)

LOT 199
WATERVIEW HEIGHTS FIFTH ADDITION



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN LLP
CHECKED ---
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

SANITARY SEWER AND WATERMAIN
BATTERY AVENUE
STA. 820+00 TO STA. 825+00

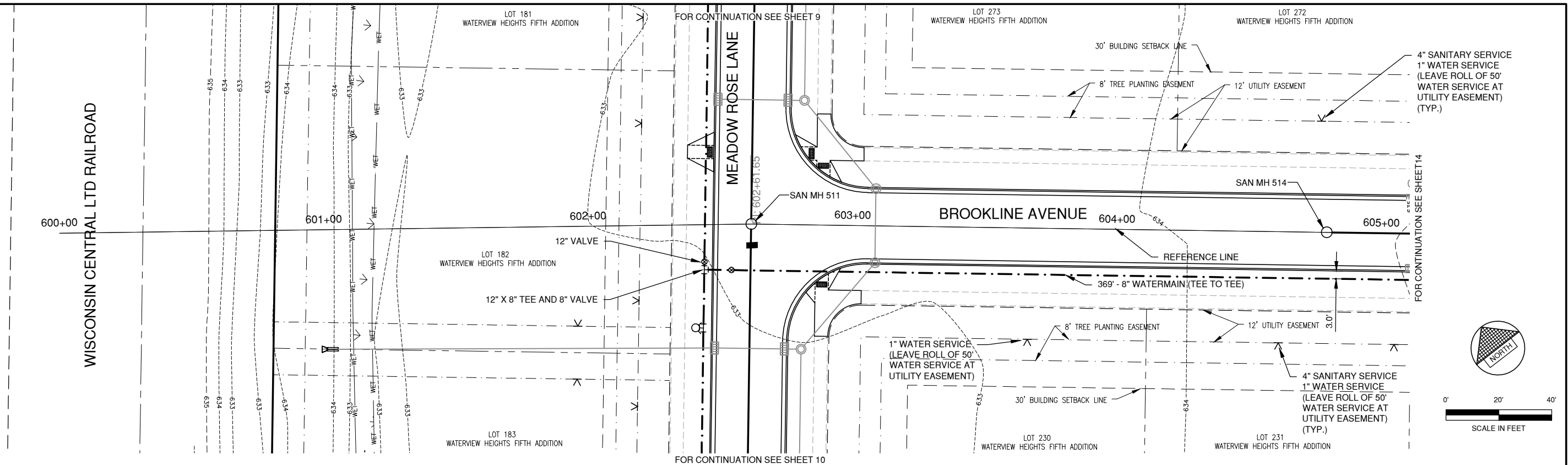
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FILE
A MEADOW ROSE
JOB NO.
0404471



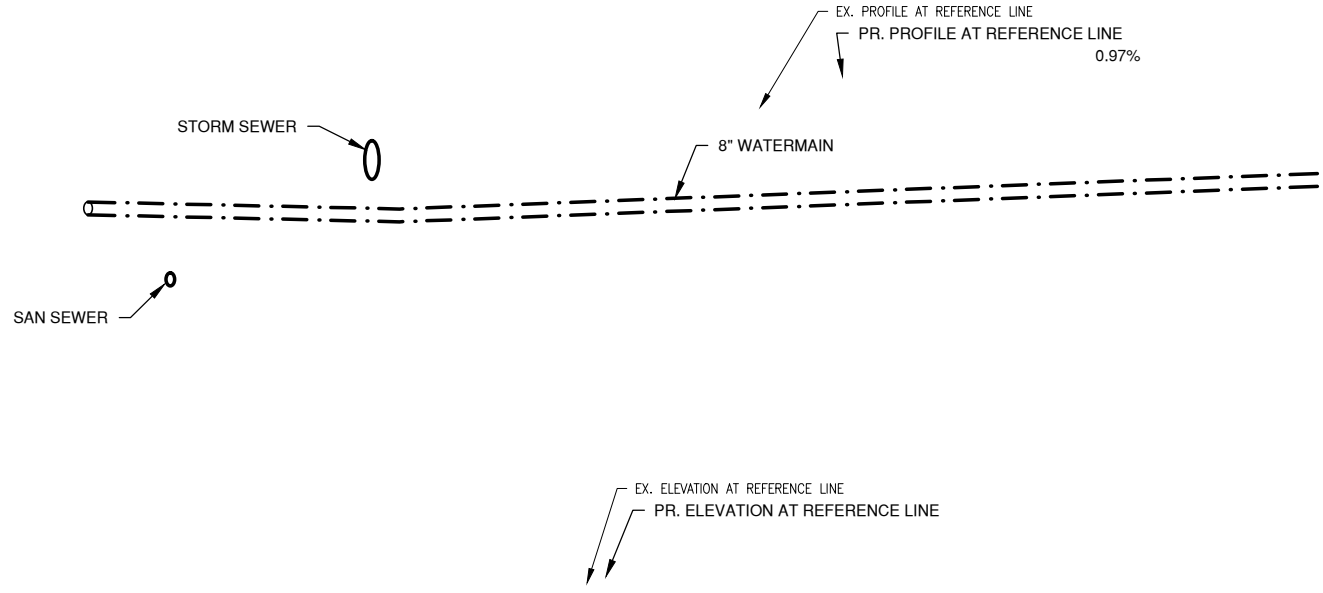
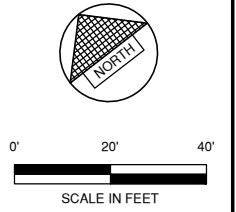
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BID SET
SHEET NO.
12

File: R:\0400\0404\0404471\dwg\A-ALL-08.dwg
Plot Date: Jun 16, 2022 - 7:25am
LAWYER: AL-081 S-1W



NOTE:
MAINTAIN A MINIMUM DEPTH
OF 6.0' OVER WATERMAIN



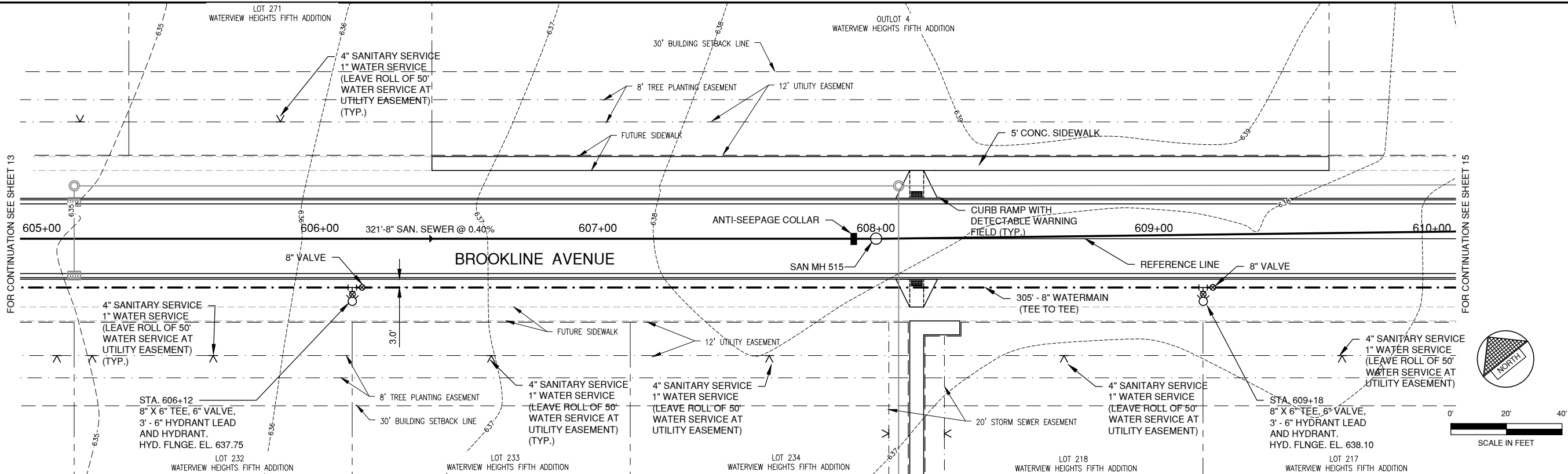
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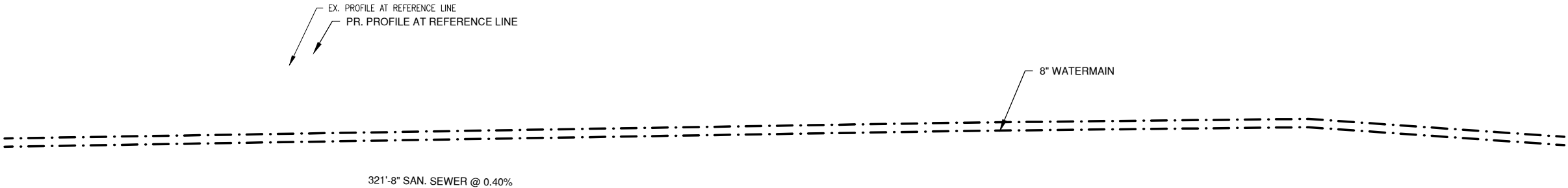
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2022 UTILITY AND STREET CONSTRUCTION				05/20/22			
WATERVIEW HEIGHTS FIFTH ADDITION				FILE			
CITY OF DE PERE, BROWN COUNTY, WI				A-ALL-06			
				JOB NO.			
				0404471			

SANITARY SEWER AND WATERMAIN				1250 CENTENNIAL CENTRE BOULEVARD			
BROOKLINE AVENUE				HOBART, WI 54155			
STA. 600+00 TO STA. 605+00				920-662-9641			

Robert E. Lee & Associates, Inc.				SHEET NO.			
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES				13			
1250 CENTENNIAL CENTRE BOULEVARD							
HOBART, WI 54155							
920-662-9641							
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NOTE:
MAINTAIN A MINIMUM DEPTH
OF 6.0' OVER WATERMAIN



EX. ELEVATION AT REFERENCE LINE
PR. ELEVATION AT REFERENCE LINE

File: R:\0400\0404\0404471\Drawings\AL-08.dwg
Plot Date: Jun 16, 2022 - 7:53am
LAYOUT: AL-08 S-WW

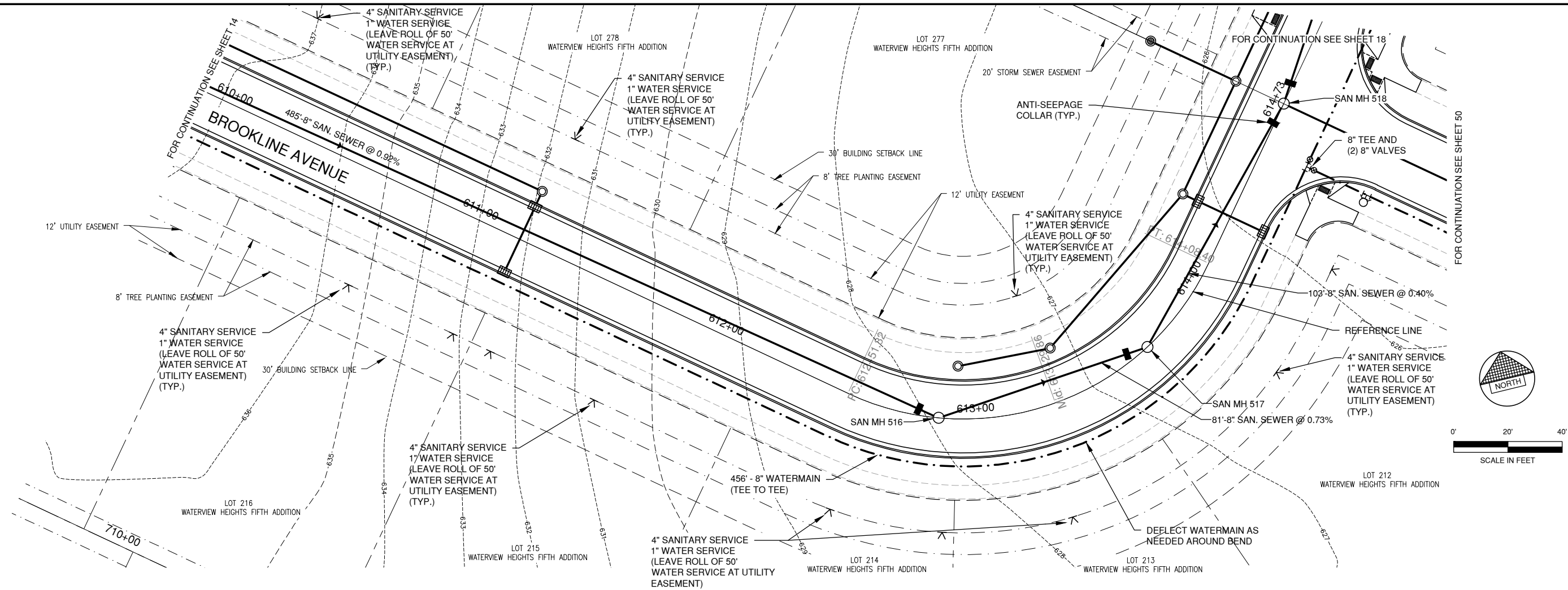
NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN JMS
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

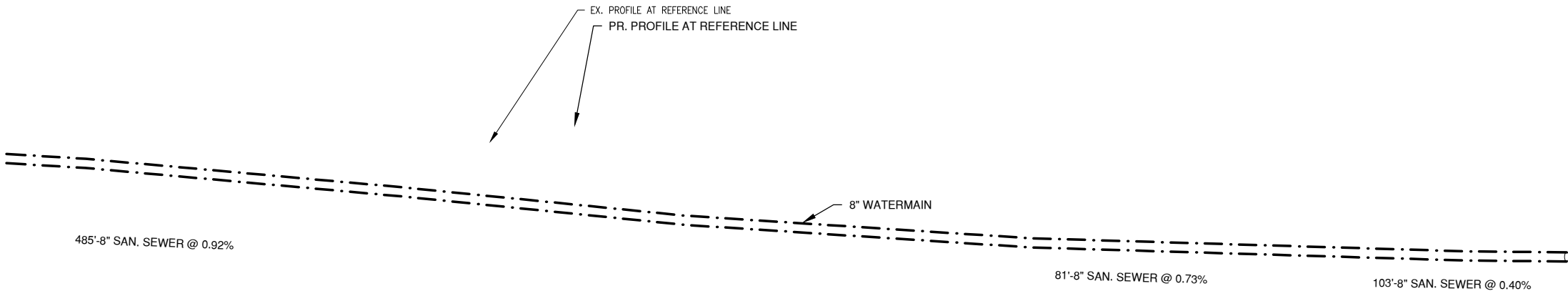
SANITARY SEWER AND WATERMAIN
BROOKLINE AVENUE
STA. 605+00 TO STA. 610+00

DATE
05/20/22
FILE
A-ALL06
JOB NO.
0404471

 **Robert E. Lee & Associates, Inc.**
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
920-662-9641 www.releeinc.com



NOTE:
MAINTAIN A MINIMUM DEPTH
OF 6.0' OVER WATERMAIN

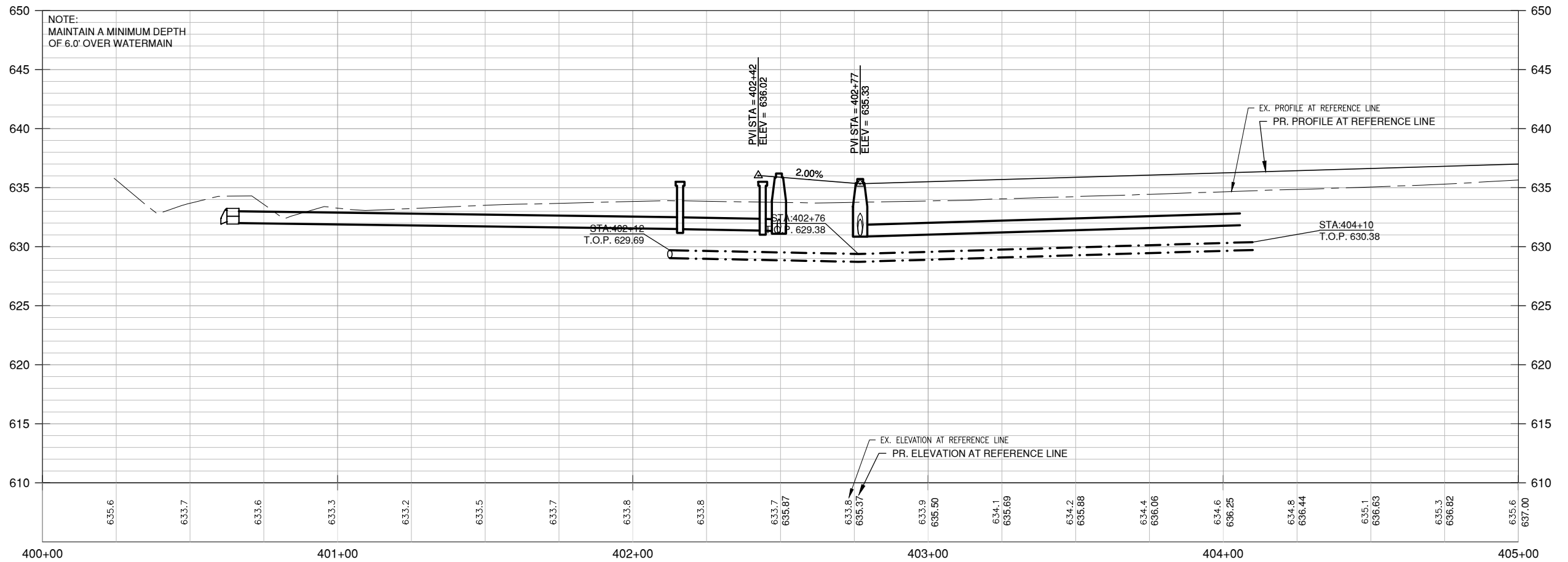
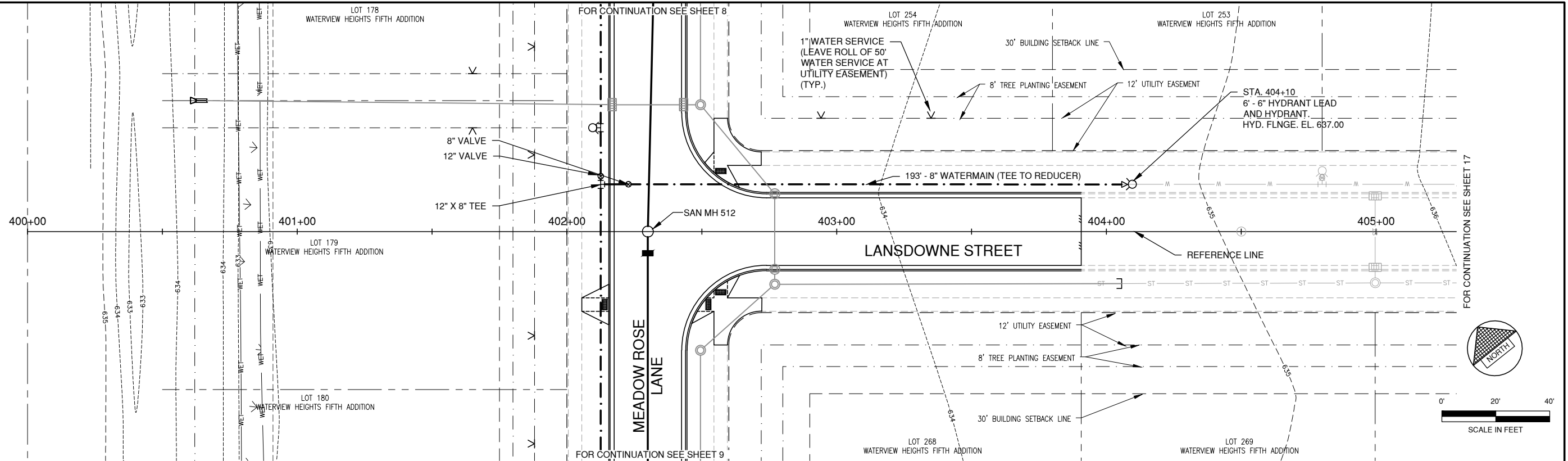


EX. ELEVATION AT REFERENCE LINE
PR. ELEVATION AT REFERENCE LINE

File: R:\0400\0404\0404471\dwg\A-15-08.dwg
Plot Date: Jun 16, 2022 - 7:55am
User: AL-083 S-HW
LW007:

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN JMS	CONTRACT NO. 22-11 2022 UTILITY AND STREET CONSTRUCTION WATERVIEW HEIGHTS FIFTH ADDITION CITY OF DE PERE, BROWN COUNTY, WI	SANITARY SEWER AND WATERMAIN BROOKLINE AVENUE STA. 610+00 TO STA. 614+75	DATE 05/2022	 Robert E. Lee & Associates Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155 920-662-9641 www.releesinc.com
								CHECKED ----			FILE A ALI-06	
								DESIGNED BDR			JOB NO. 0404471	

WISCONSIN CENTRAL LTD RAILROAD



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN RLB
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

SANITARY SEWER AND WATERMAIN
LANSDOWNE STREET
STA. 400+00 TO STA. 405+00

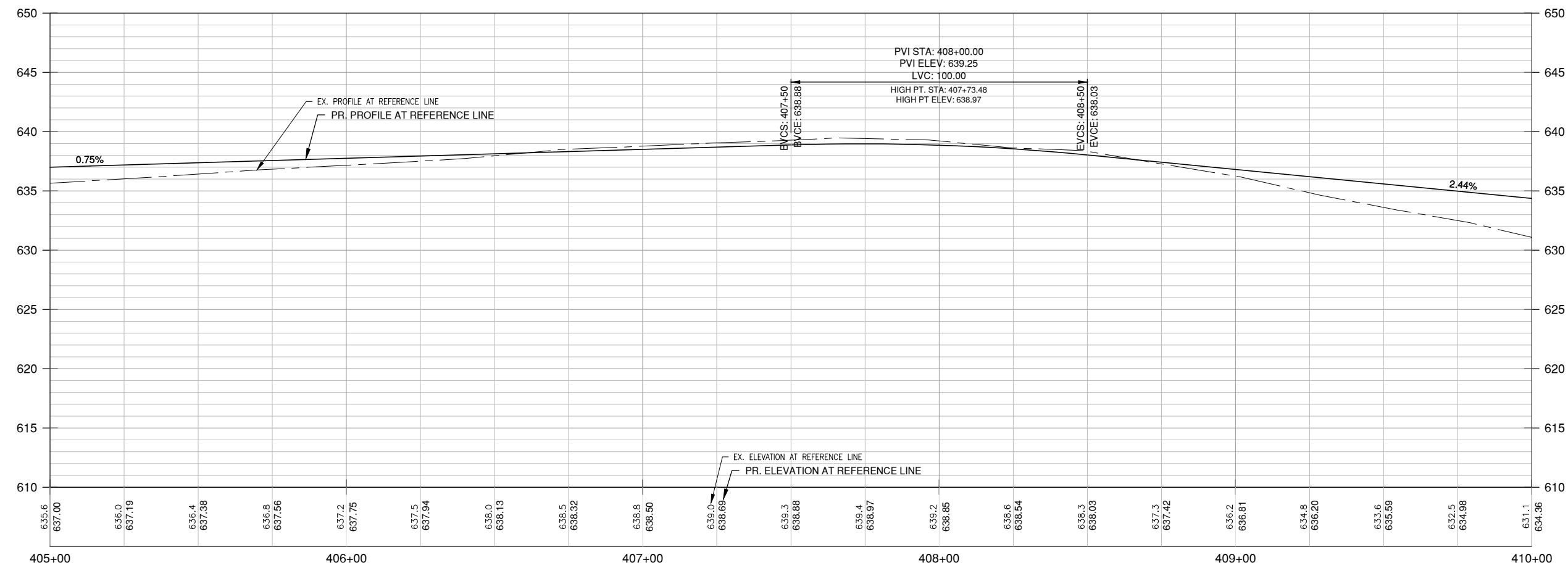
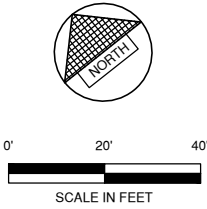
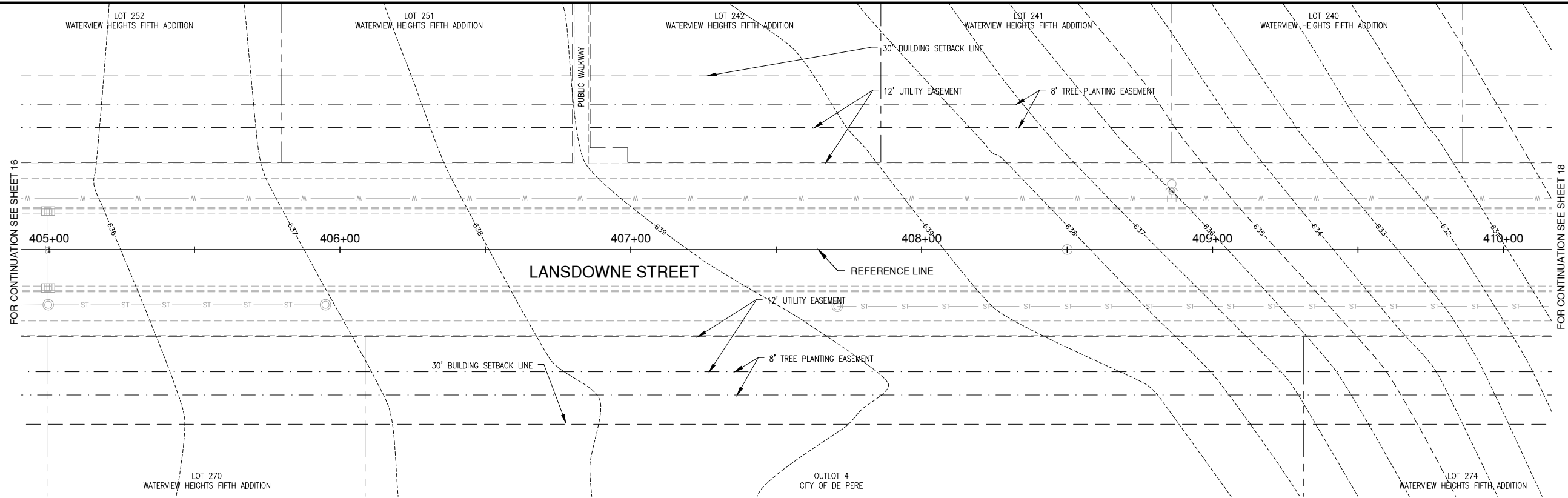
DATE
03/20/22
FILE
A-ALL04
JOB NO.
0404471



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SHEET NO.
16

BID SET



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Plot Date: Jun 15, 2022 - 9:16am
LANSOW: AL-042 S-HW

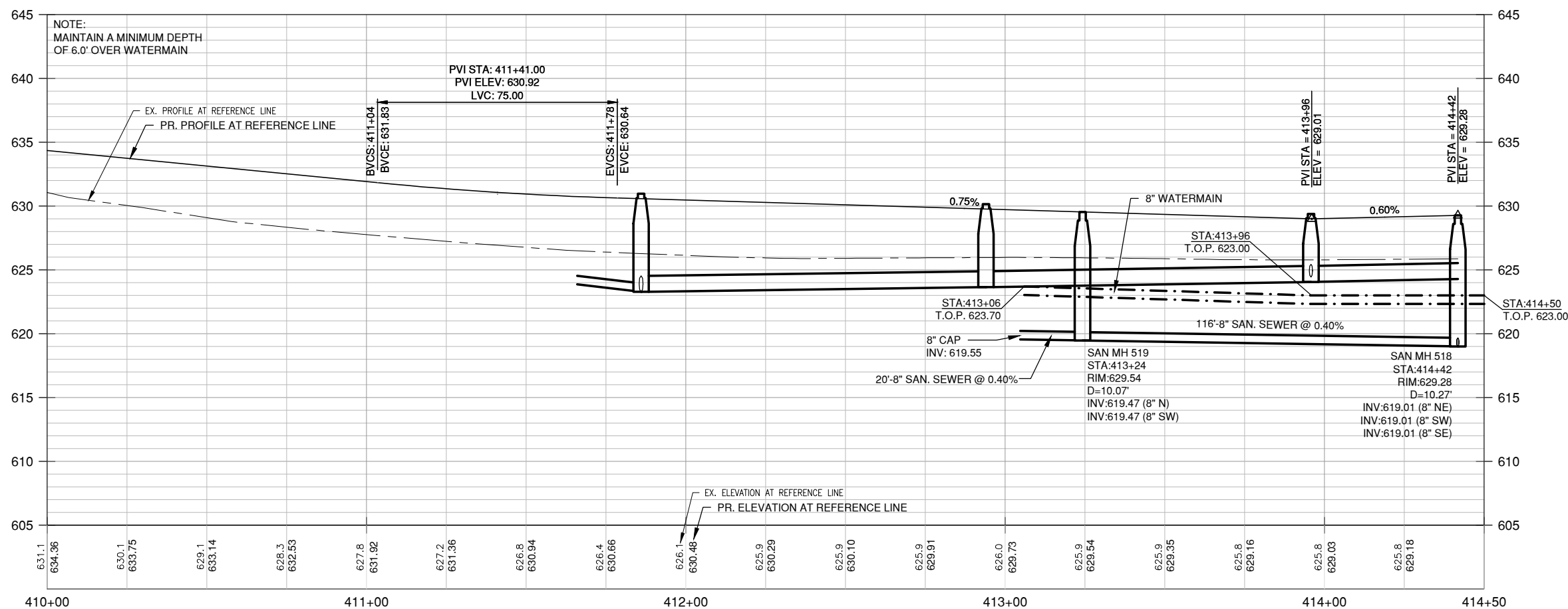
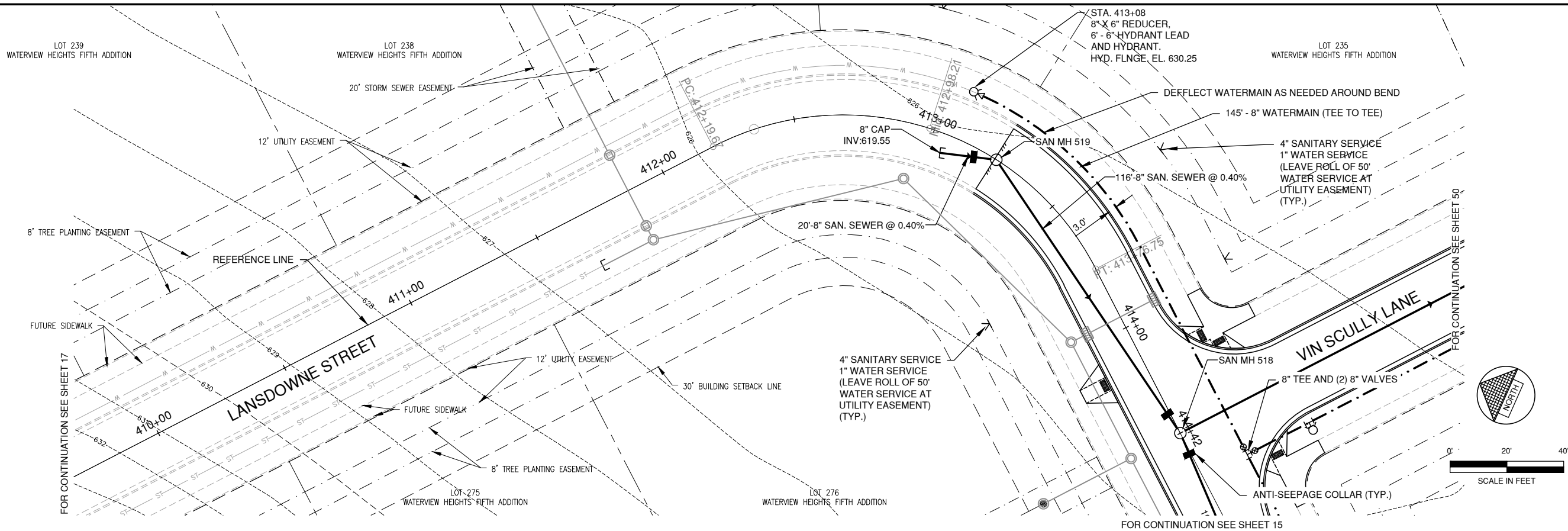
NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN RLB
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

SANITARY SEWER AND WATERMAIN
LANSDOWNE STREET
STA. 405+00 TO STA. 410+00

DATE
03/20/22
FILE
A-11-04
JOB NO.
0404471

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File: R:\0400\0404\0404.dwg
 Plot Date: Jun 15, 2022 - 9:16am
 User: ALI-043 S-HW
 LANSOWE

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

CONTRACT NO. 22-11
 2022 UTILITY AND STREET CONSTRUCTION
 WATERVIEW HEIGHTS FIFTH ADDITION
 CITY OF DE PERE, BROWN COUNTY, WI

SANITARY SEWER AND WATERMAIN
 LANSOWNE STREET
 STA. 410+00 TO STA. 415+50

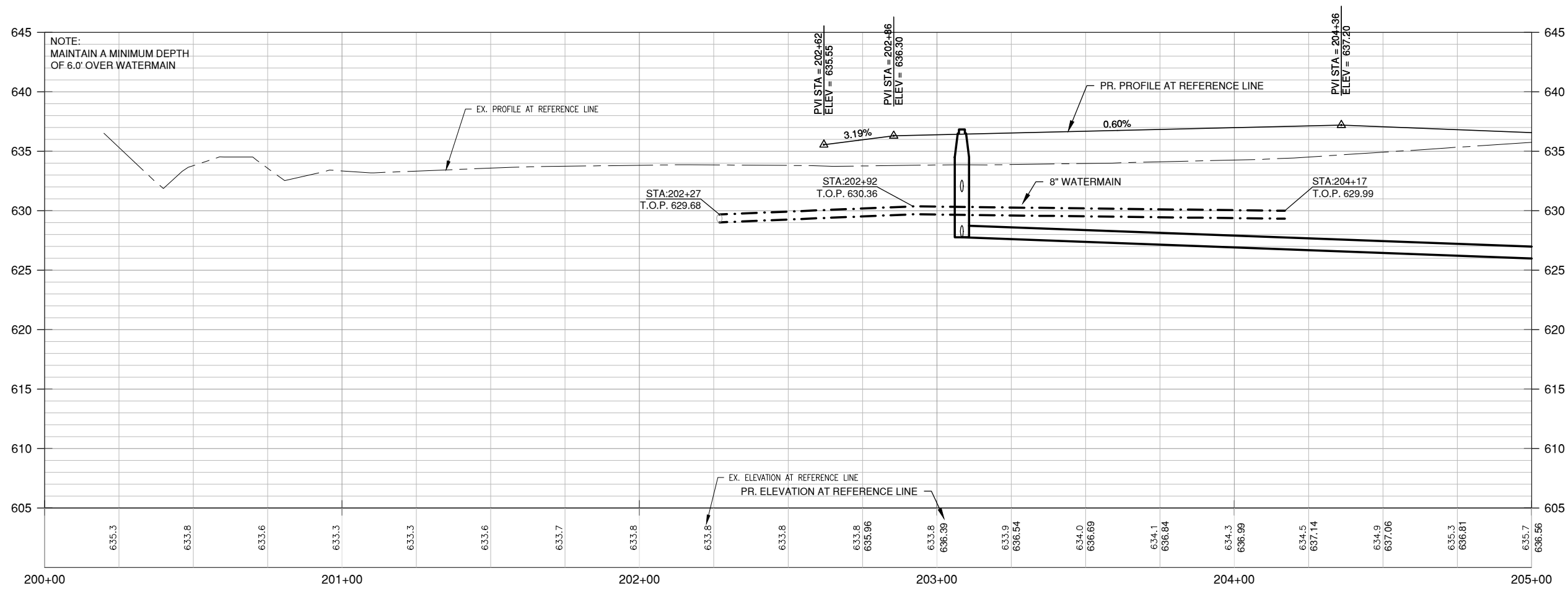
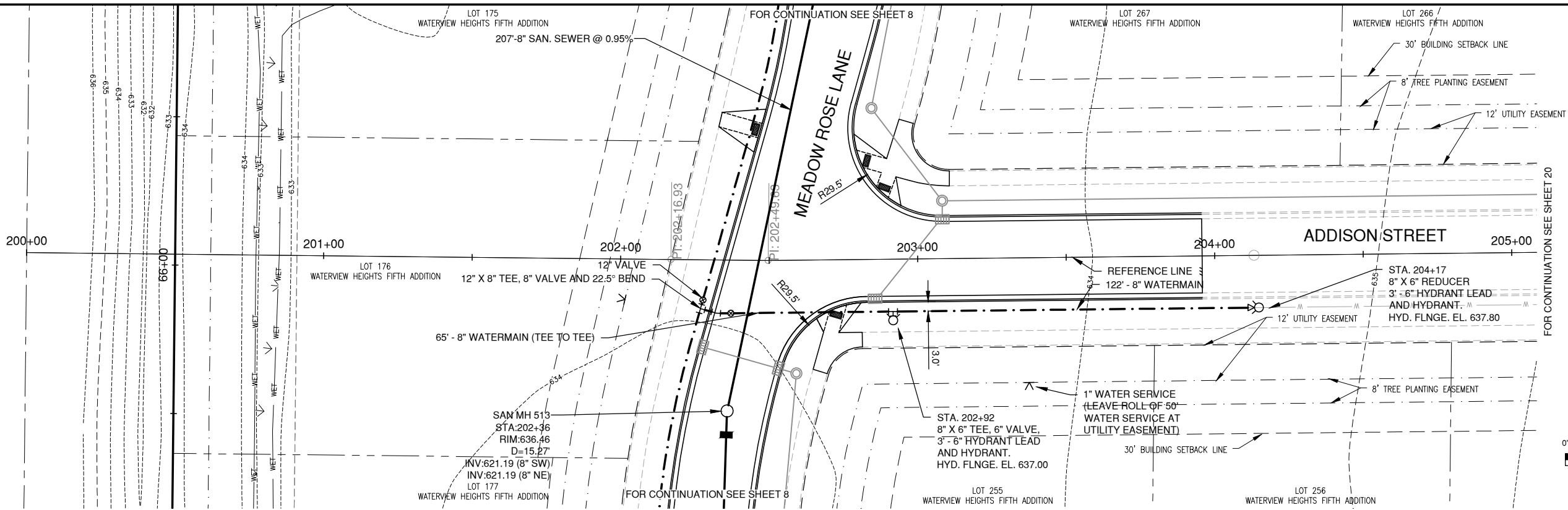
DATE
 03/20/22
 FILE
 A.LI.04
 JOB NO.
 0404471



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BID SET
 SHEET NO.
18

WISCONSIN CENTRAL LTD RAILROAD



File: R:\0400\0404\0404471\dwg\A-19.dwg
Plot Date: Jun 09, 2022 - 8:16 am
LAYOUT: A1-19.dwg

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

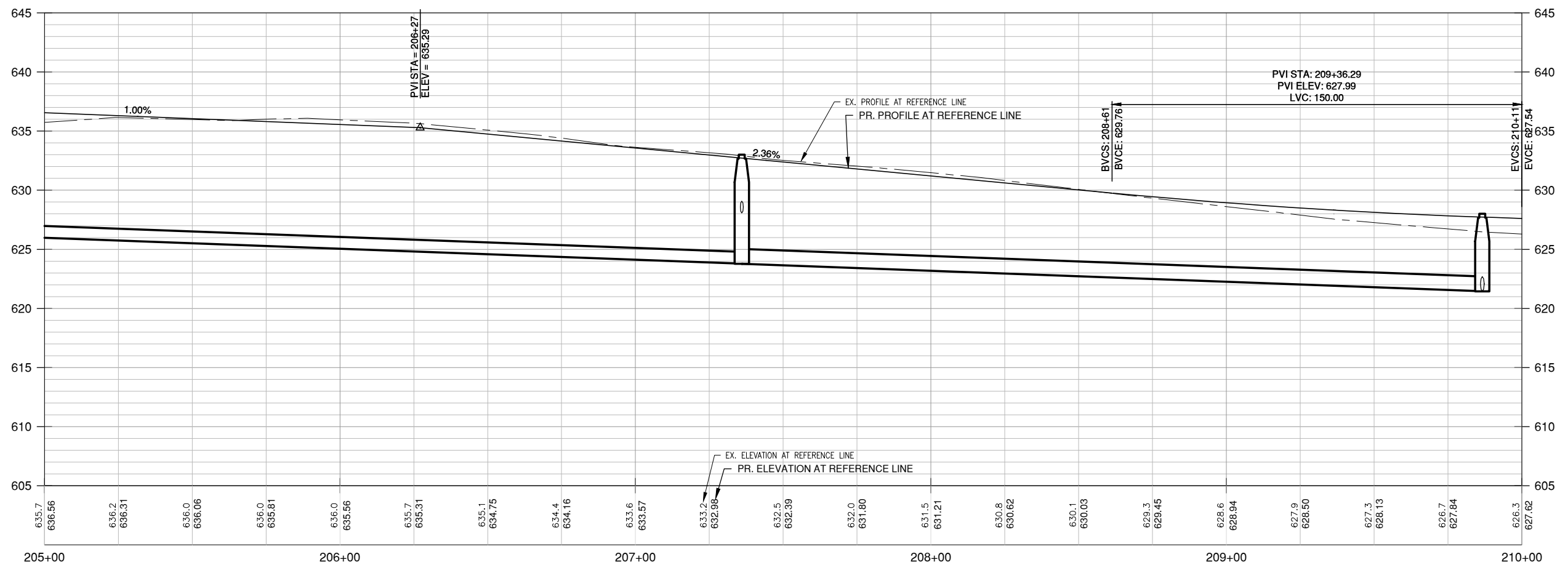
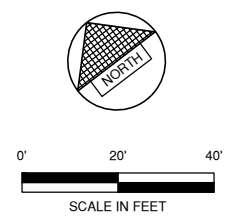
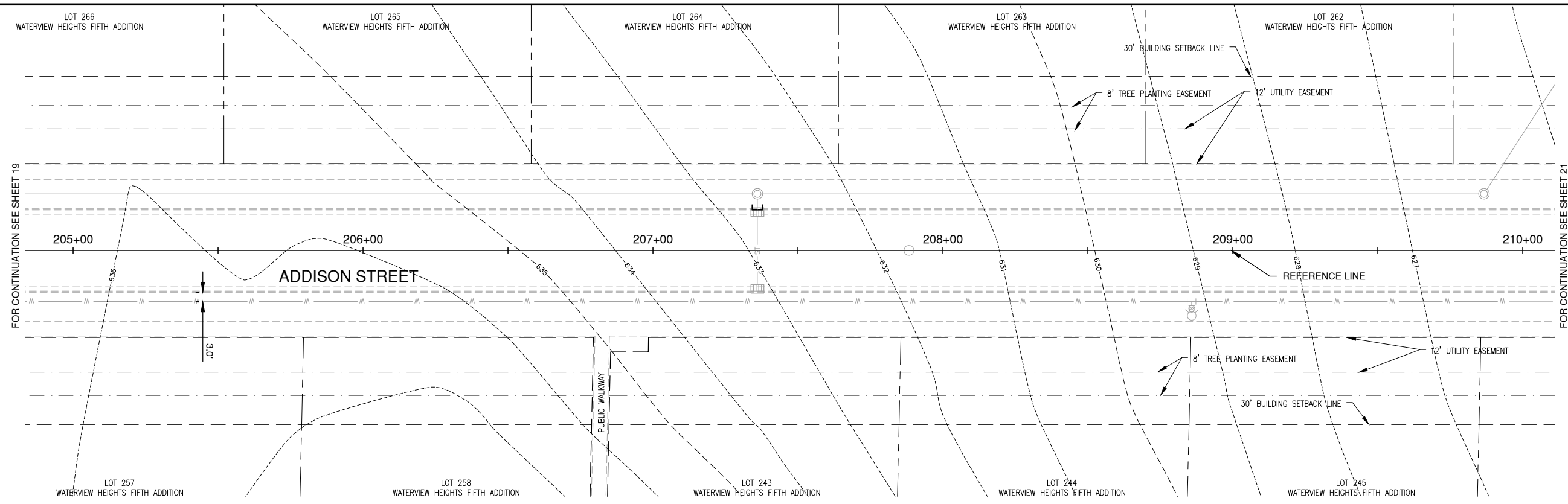
DRAWN JMS-LLP
CHECKED
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI


SANITARY SEWER AND WATERMAIN
ADDISON STREET
STA. 200+00 TO STA. 205+00

DATE 03/20/22
FILE A-19.dwg
JOB NO. 0404471

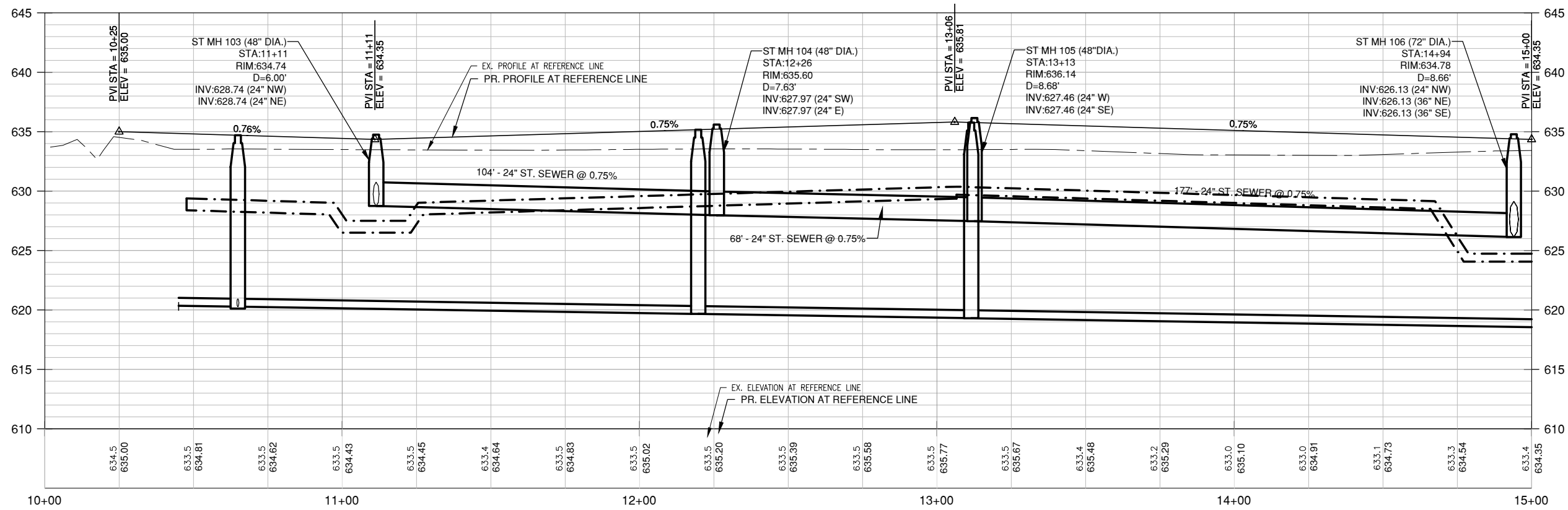
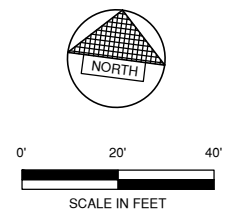
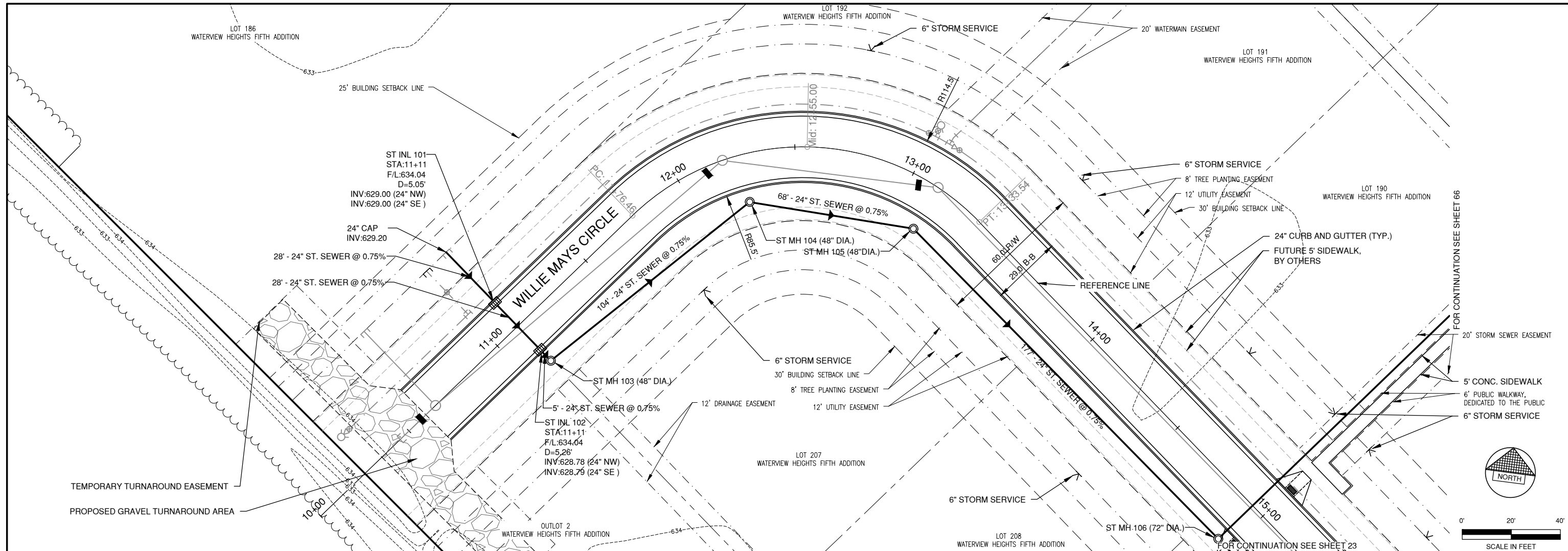
 **Robert E. Lee & Associates, Inc.**
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1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
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File: R:\0400\0404\0404471\Drawings\A-02.dwg
Plot Date: Jun 09, 2022 - 8:10 am
LAYOUT: A1-026 S-WW

NO.		DATE		APPROV.		REVISION		DRAWN JMS-LLP		CONTRACT NO. 22-11 2022 UTILITY AND STREET CONSTRUCTION WATERVIEW HEIGHTS FIFTH ADDITION CITY OF DE PERE, BROWN COUNTY, WI		SANITARY SEWER AND WATERMAIN ADDISON STREET STA. 205+00 TO STA. 210+00		DATE 03/2022		 Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155 920-662-9641 www.releeinc.com		SHEET NO. 20	
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								JOB NO. 0404471											
						DESIGNED BDR													

File: R:\0400\0404\0404471\dwg\A-101.dwg
Plot Date: Jun 16, 2022 - 7:53 am
LAWSON: A-101 ST



NO.				DATE				APPROV.				REVISION			
NO.				DATE				APPROV.				REVISION			
DRAWN				JMS-LLP				CHECKED				DESIGNED			
BDR															

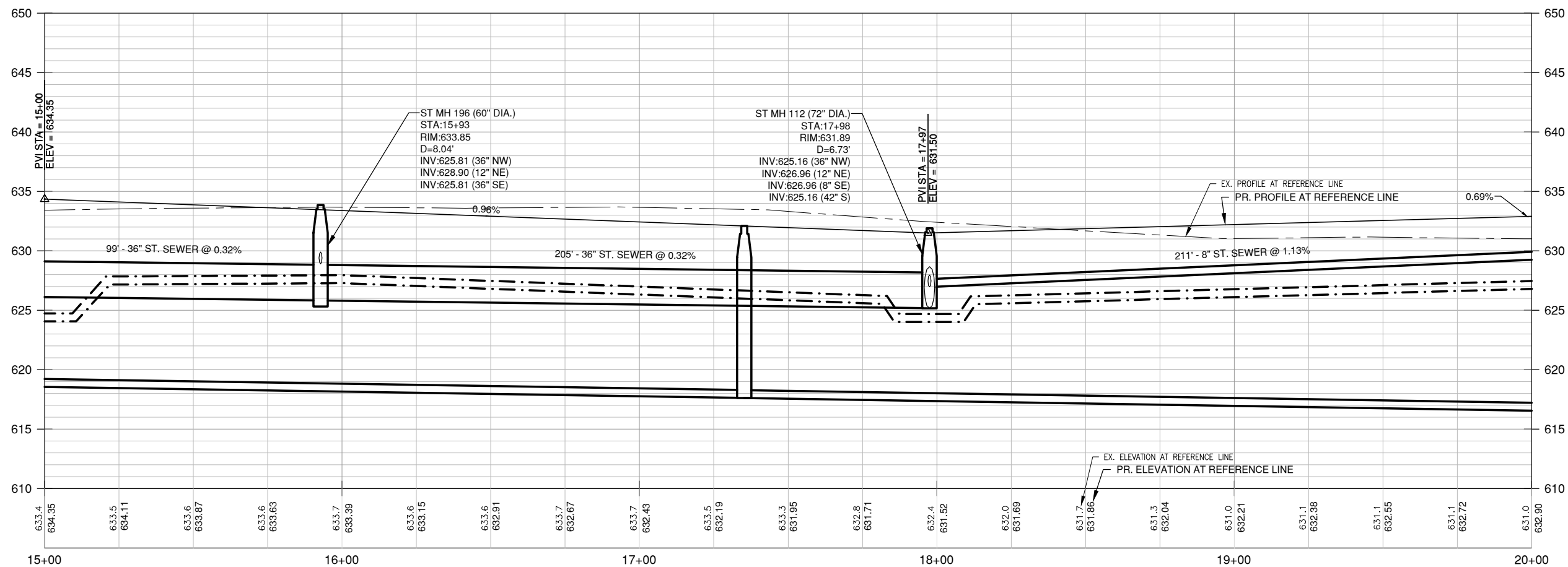
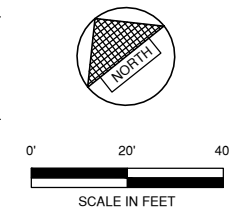
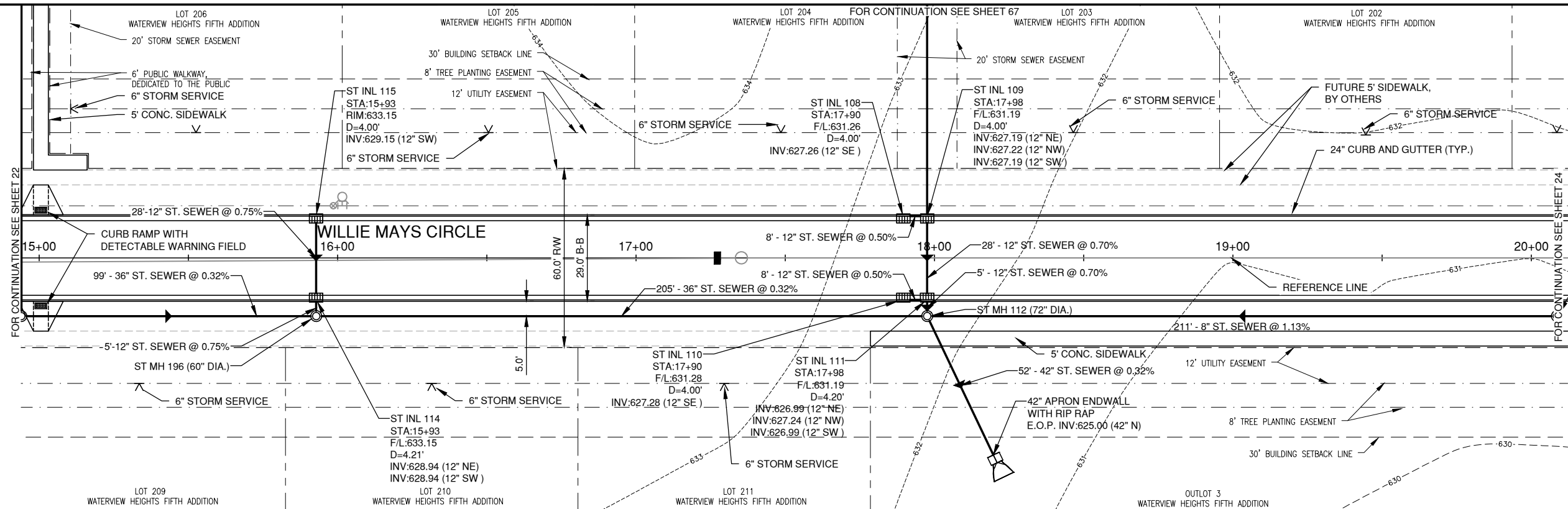
CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WISCONSIN

STORM SEWER AND STREET DESIGN
WILLIE MAYS CIRCLE
STA. 10+00 TO STA. 15+00

DATE
06/20/22
FILE
A-ALL-10
JOB NO.
0404471

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BID SET
SHEET NO.
22



File: R:\0400\0404\0404.dwg
Plot Date: Jun 16, 2022 - 7:51 am
LWS: ALJ-102 ST

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN	JMS-LLP
CHECKED	
DESIGNED	
BDR	

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WISCONSIN

STORM SEWER AND STREET DESIGN
WILLIE MAYS CIRCLE
STA. 15+00 TO STA. 20+00

DATE	06/20/22
FILE	A-ALL-10
JOB NO.	0404471

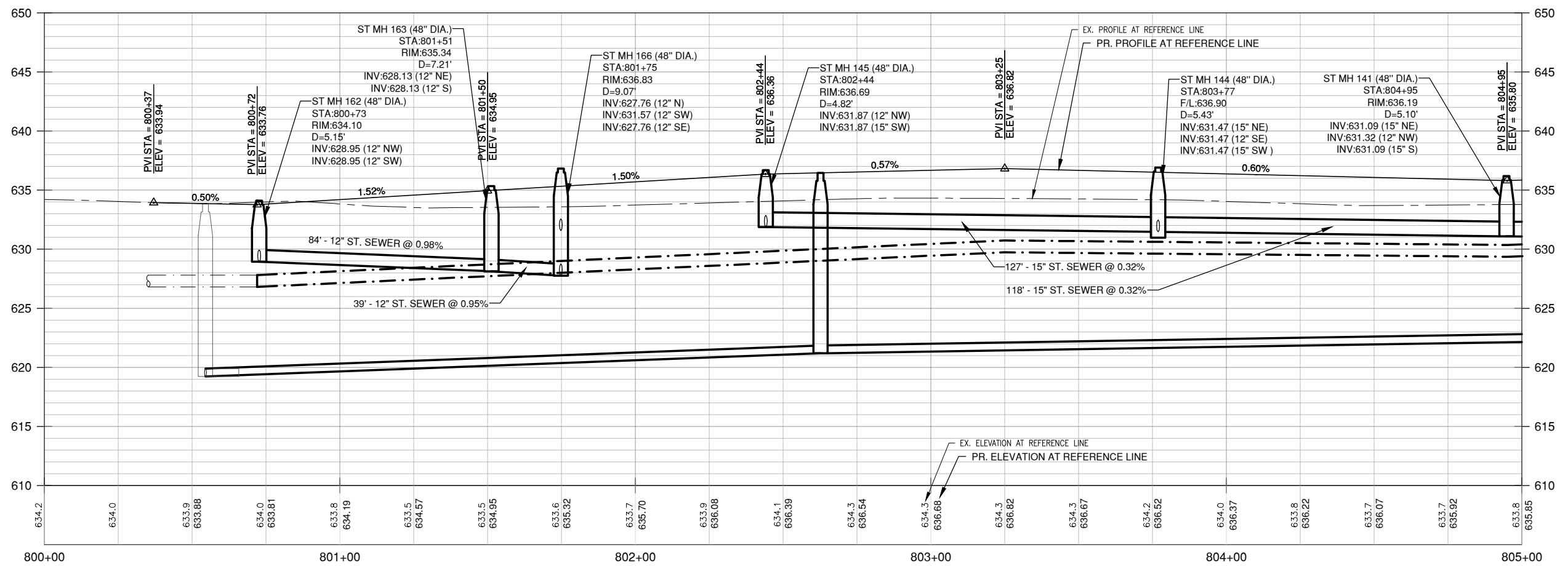
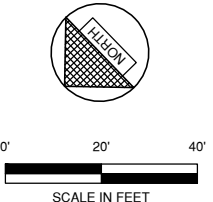
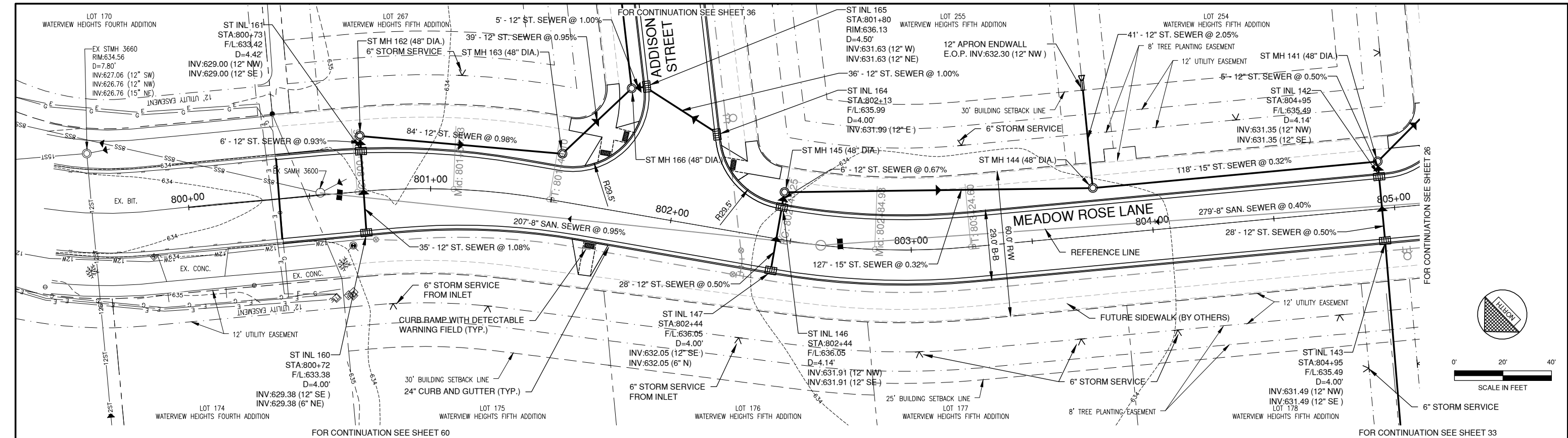


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BID SET

SHEET NO.
23

File: R:\0400\0404\0404471\Drawings\MEADOW ROSE.dwg
Plot Date: Jun 15, 2022 - 9:00am
LAYOUT: MPT ST



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

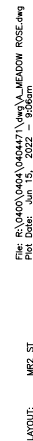
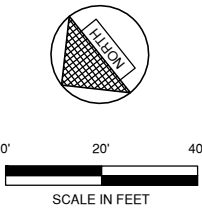
DRAWN LLP
CHECKED ---
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

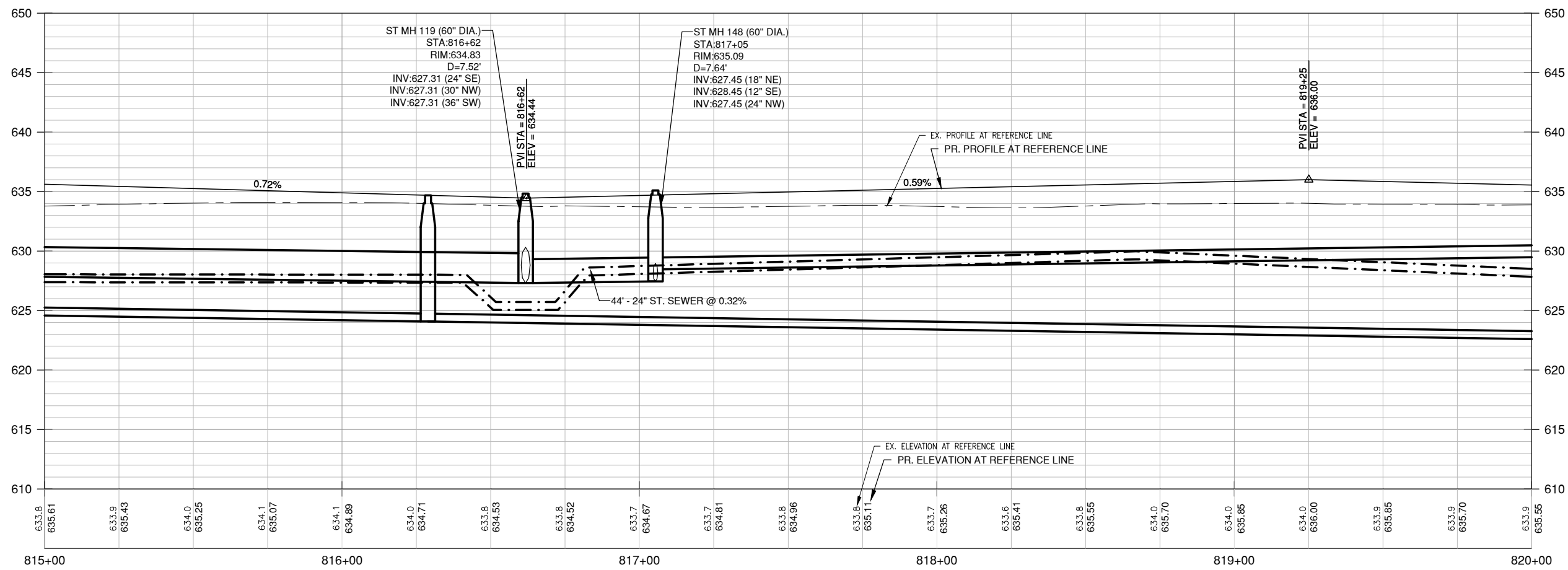
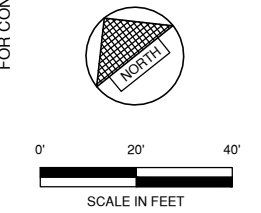
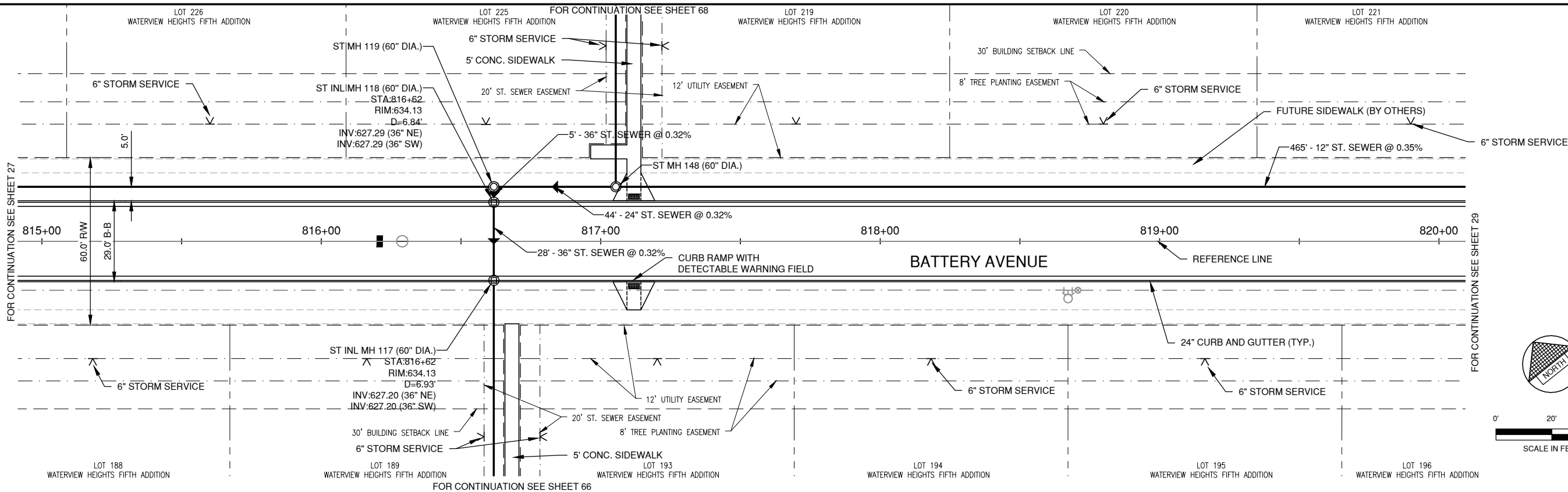
STORM SEWER AND STREET DESIGN
MEADOW ROSE LANE
STA. 800+00 TO STA. 805+00

DATE
05/20/22
FILE
A MEADOW ROSE
JOB NO.
0404471

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
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SHEET NO.
26



File: R:\0400\0404\0404471\dwg\A_Meadow_Rose.dwg
Plot Date: Jun 15, 2022 - 9:07 am
LAYOUT: MPR ST

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN LLP
CHECKED ---
DESIGNED BDR

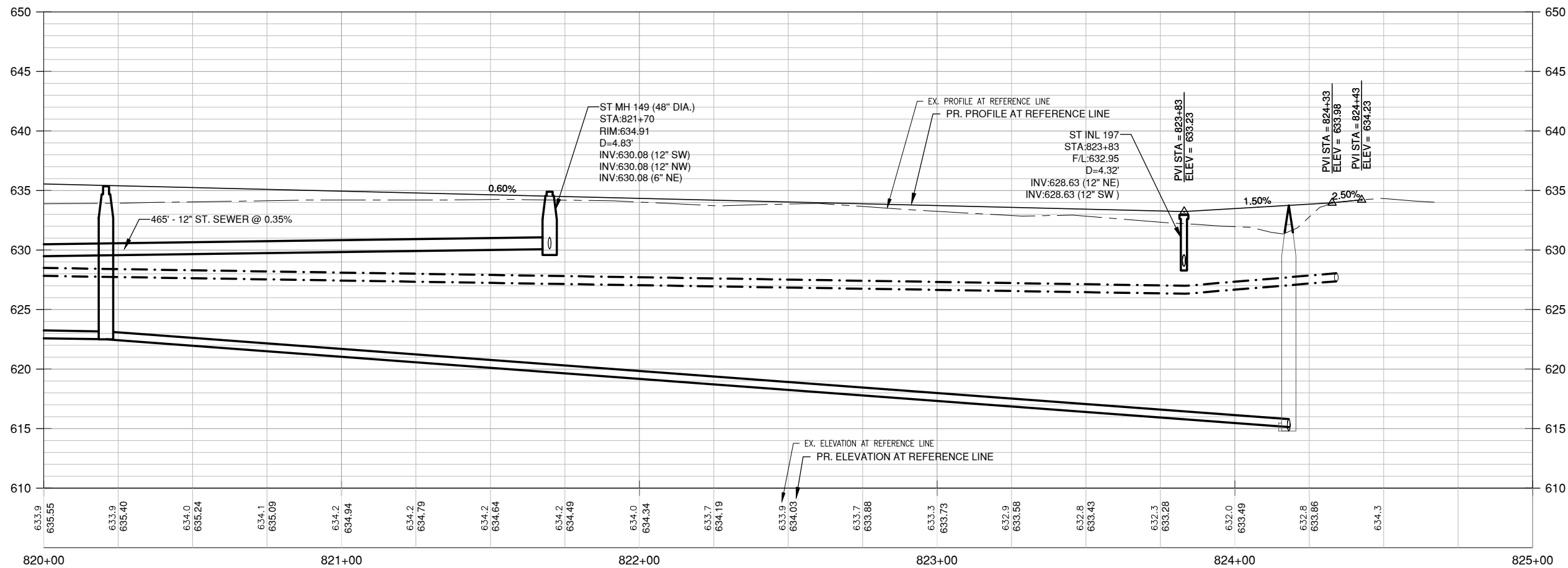
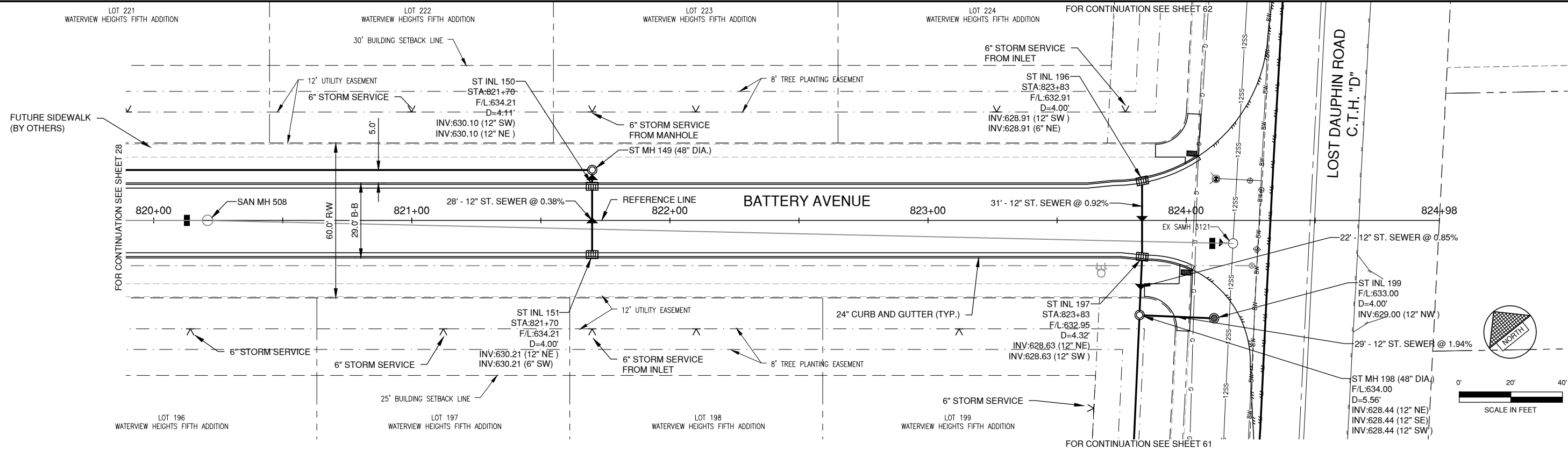
CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

STORM SEWER AND STREET DESIGN
BATTERY AVENUE
STA. 815+00 TO STA. 820+00

DATE
05/20/22
FILE
A_Meadow_Rose
JOB NO.
0404471

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File: R:\0400\0404\0404471\A\MEADOW ROSE.dwg
Plot Date: Jun 15, 2022 - 9:07 am
LAYOUT: MRS ST



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN LLP
CHECKED ---
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

STORM SEWER AND STREET DESIGN
BATTERY AVENUE
STA. 820+00 TO STA. 825+00

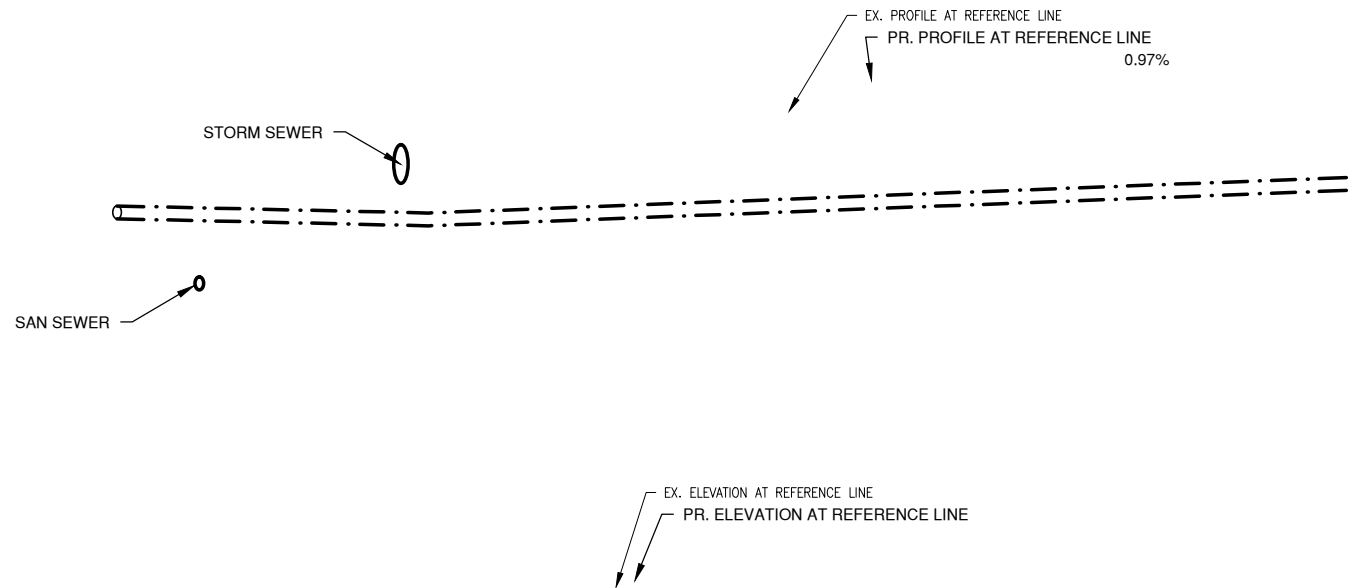
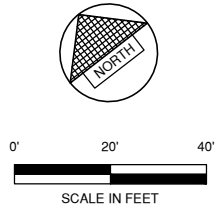
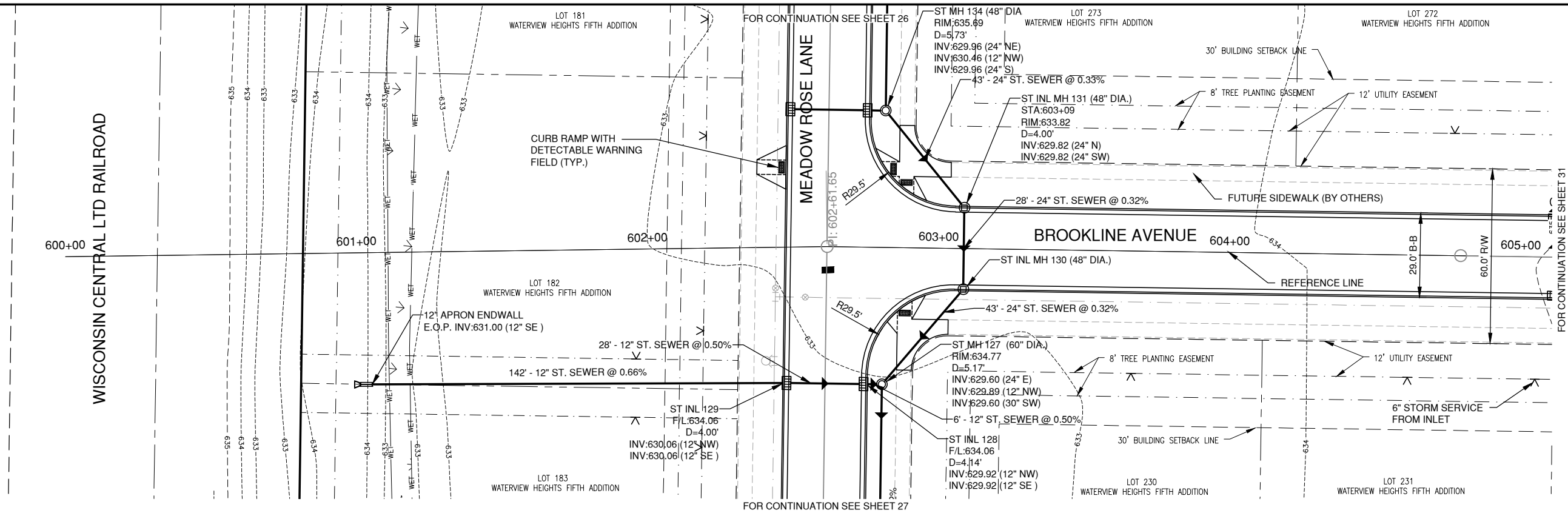
DATE
05/20/22
FILE
A MEADOW ROSE
JOB NO.
0404471



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BID SET
SHEET NO.
29

File: R:\0400\0404\0404471\dwg\A-01-08.dwg
Plot Date: Jun 16, 2022 - 7:53am
LAYOUT: A1-01 ST



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN JMS
CHECKED ---
DESIGNED BDR

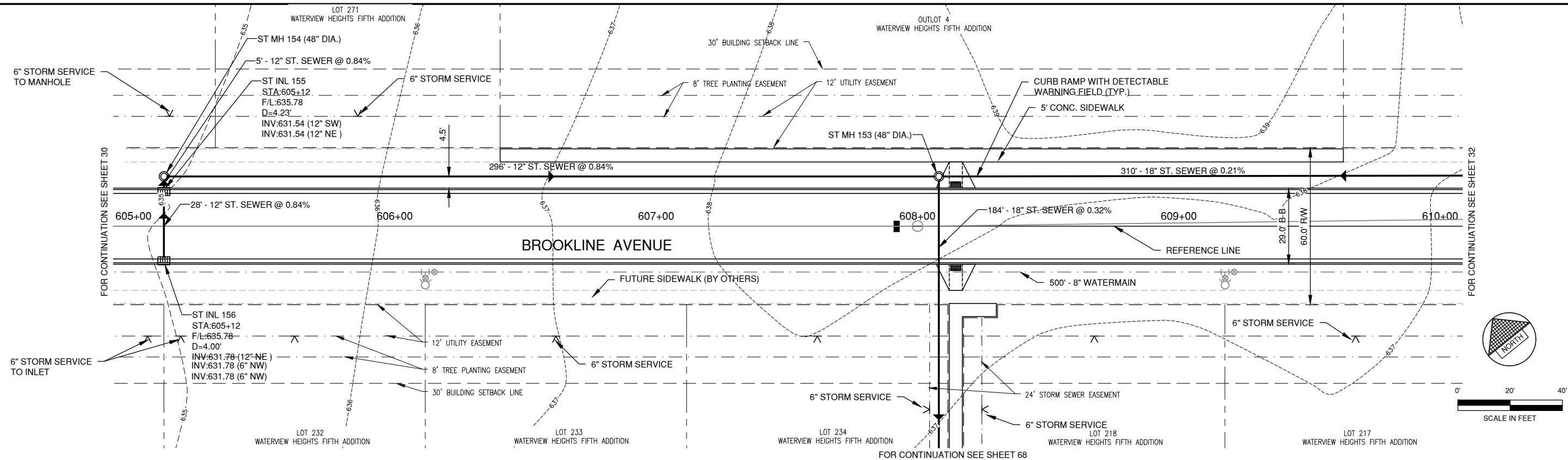
CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

STORM SEWER AND STREET DESIGN
BROOKLINE AVENUE
STA. 600+00 TO STA. 605+00

DATE
05/20/22
FILE
A-ALL06
JOB NO.
0404471

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File: R:\0400\0404\0404471\dwg\A_AL-08.dwg
Plot Date: Jun 16, 2022 - 7:53am
LAYOUT: AL-08 ST




INV:631.50 (6" NE)

EX. PROFILE AT REFERENCE LINE
PR. PROFILE AT REFERENCE LINE

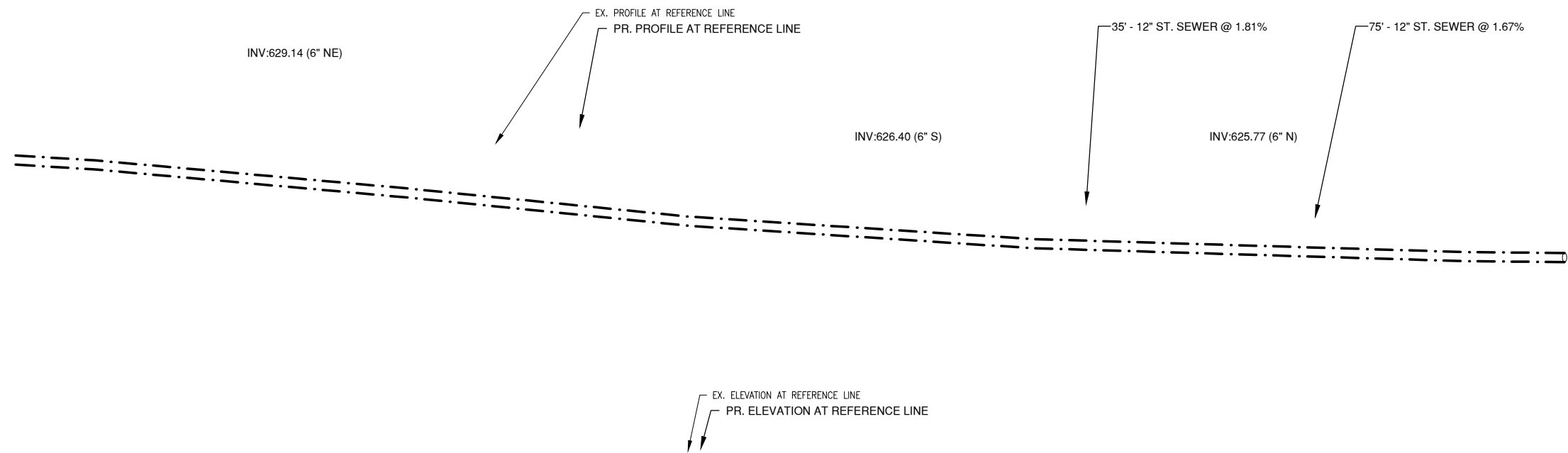
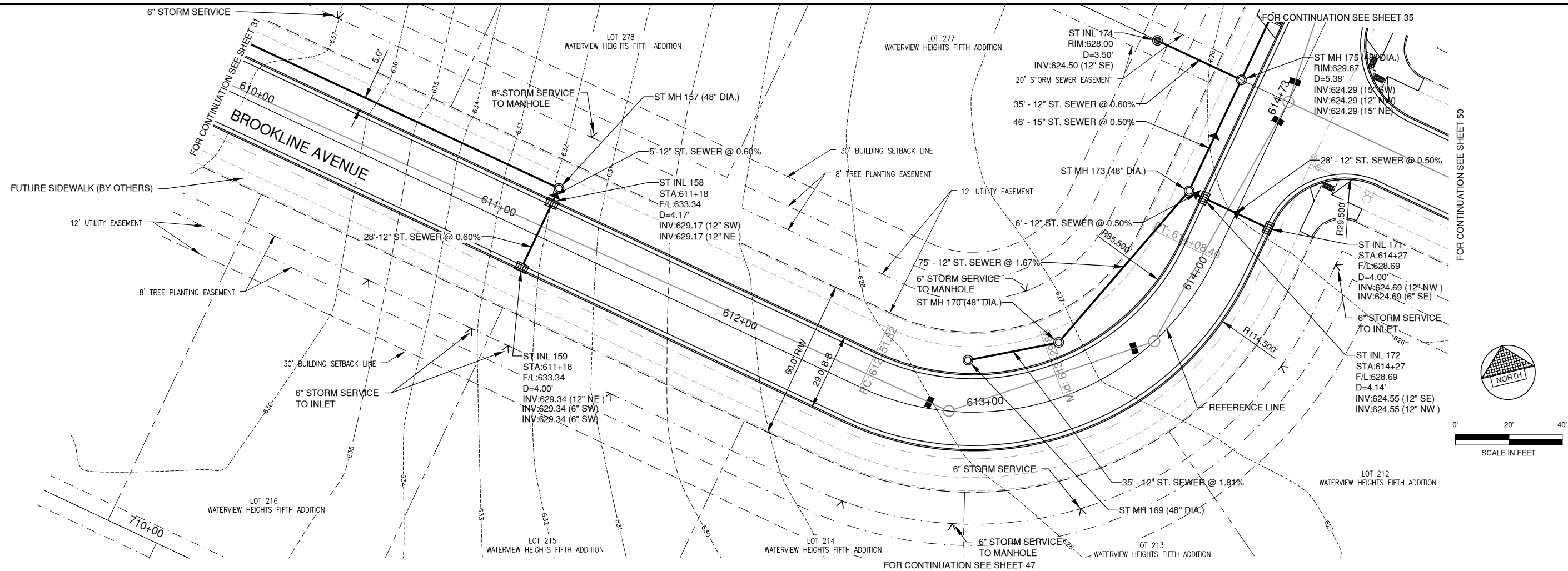
296' - 12" ST. SEWER @ 0.84%

310' - 18" ST. SEWER @ 0.21%

EX. ELEVATION AT REFERENCE LINE
PR. ELEVATION AT REFERENCE LINE

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN JMS	CONTRACT NO. 22-11 2022 UTILITY AND STREET CONSTRUCTION WATERVIEW HEIGHTS FIFTH ADDITION CITY OF DE PERE, BROWN COUNTY, WI	STORM SEWER AND STREET DESIGN BROOKLINE AVENUE STA. 605+00 TO STA. 610+00	DATE 05/20/22 FILE A_AL-08 JOB NO. 0404471	 Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155 920-662-9641 www.releeinc.com	SHEET NO. 31
								CHECKED ---					
								DESIGNED BDR					

File: R:\0400\0404\0404.dwg
Plot Date: Jun 16, 2022 - 7:53am
LAWOFF: AL-083 ST



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN JMS
CHECKED ---
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

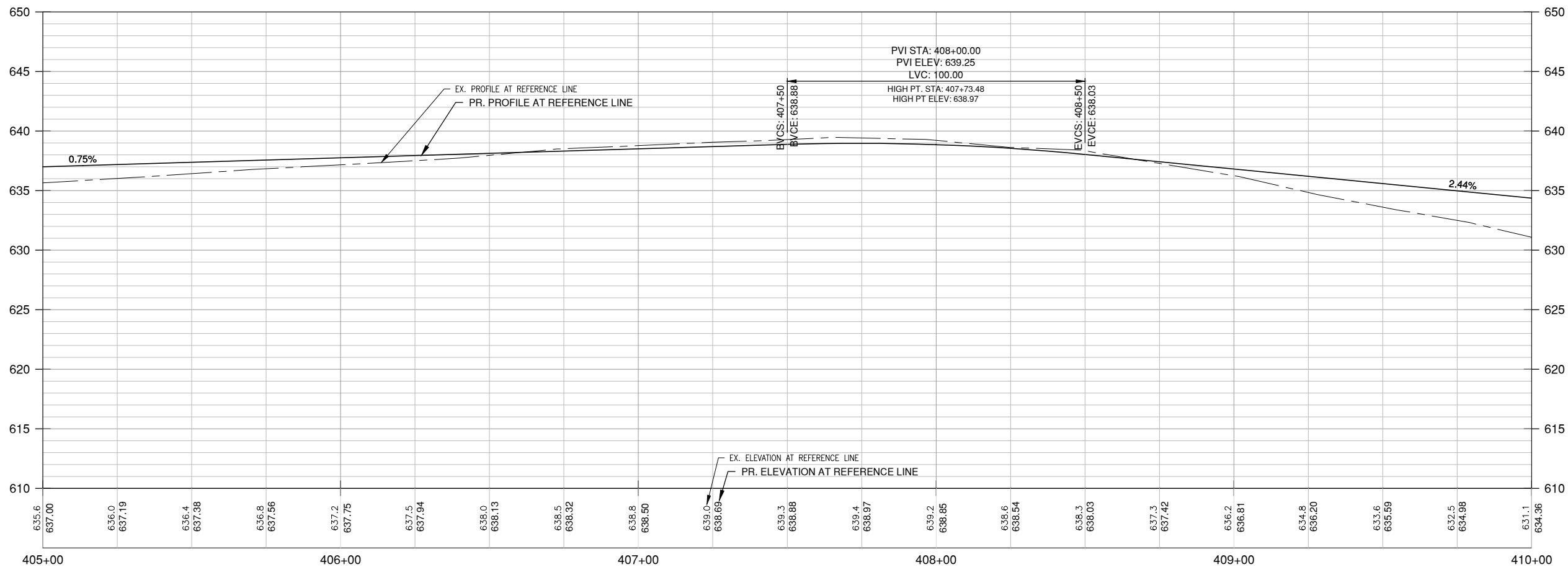
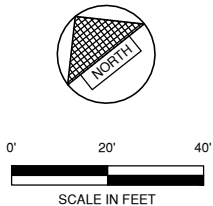
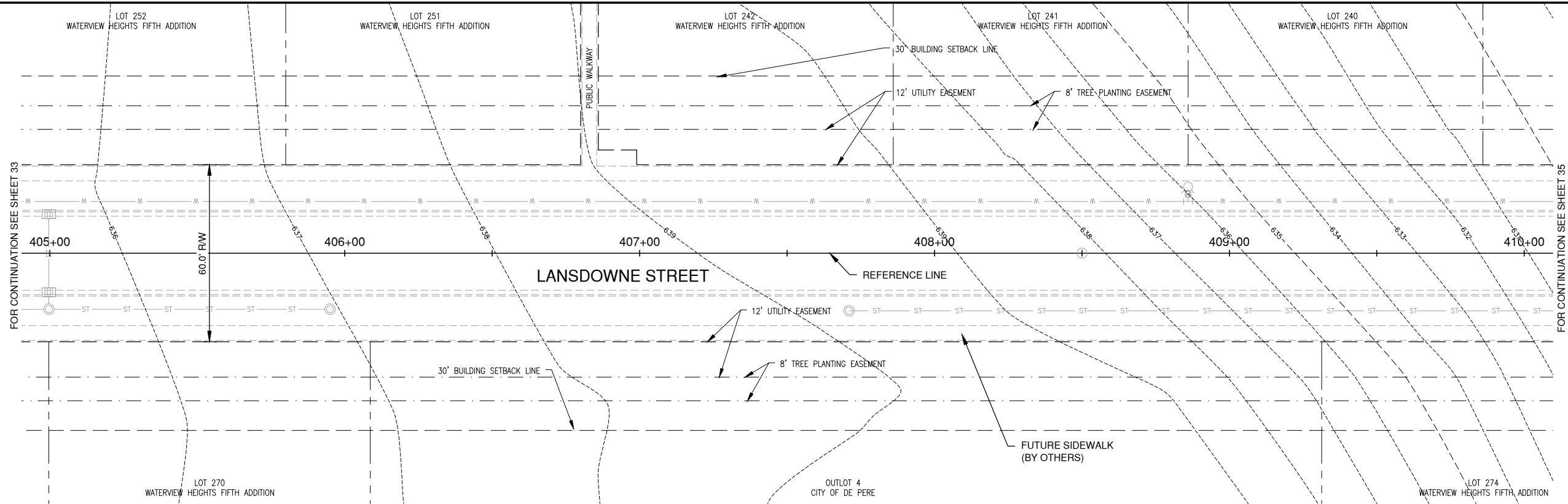
STORM SEWER AND STREET DESIGN
BROOKLINE AVENUE
STA. 610+00 TO STA. 614+75

DATE 05/20/22
FILE A.ALL06
JOB NO. 0404471



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BID SET
SHEET NO.
32



File: R:\0400\0404\0404471\Drawings\AL-04.dwg
Plot Date: Jun 15, 2022 - 9:16am
LANSOW: AL-042 ST

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN RLB
								CHECKED
								DESIGNED
								BDR

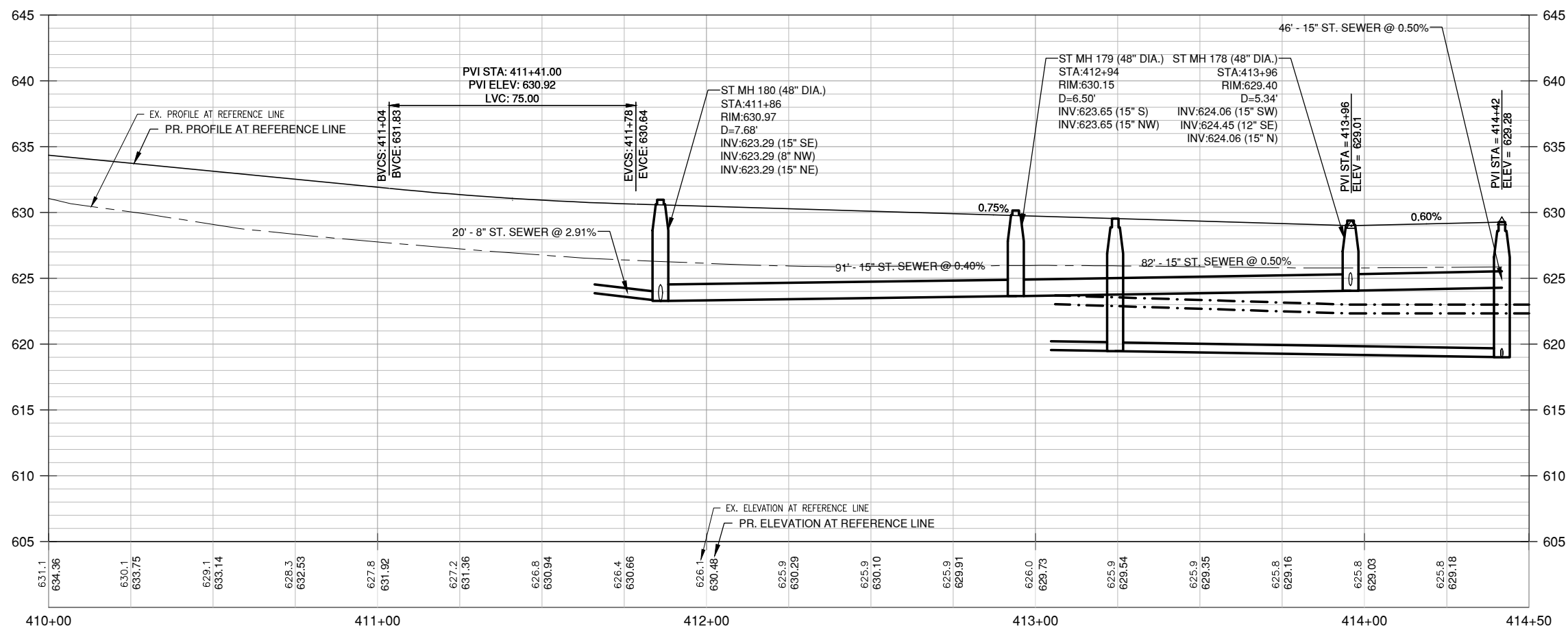
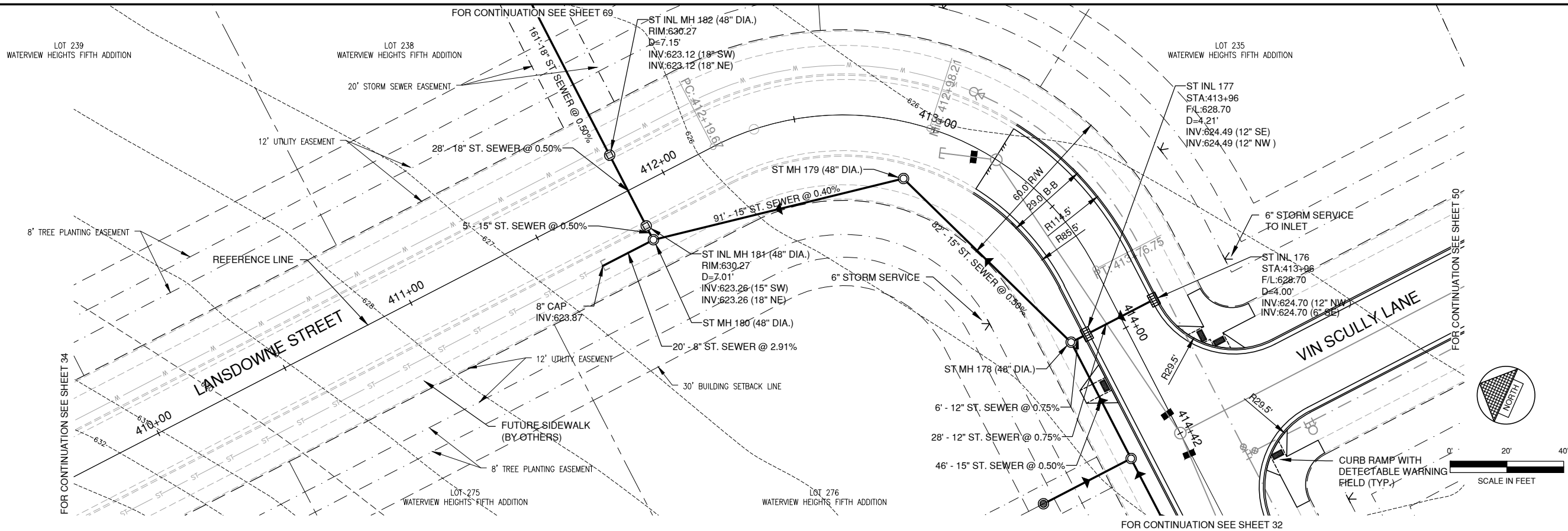
CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

STORM SEWER AND STREET DESIGN
LANSDOWNE STREET
STA. 405+00 TO STA. 410+00

DATE
03/20/22
FILE
A-AL104
JOB NO.
0404471

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BID SET
SHEET NO.
34



File: R:\0400\0404\0404.dwg
Plot Date: Jun 15, 2022 - 9:16am
LANSOW: AL-043 ST

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN RLB
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

STORM SEWER AND STREET DESIGN
LANSDOWNE STREET
STA. 410+00 TO STA. 415+50

DATE
03/20/22
FILE
A-ALL04
JOB NO.
0404471



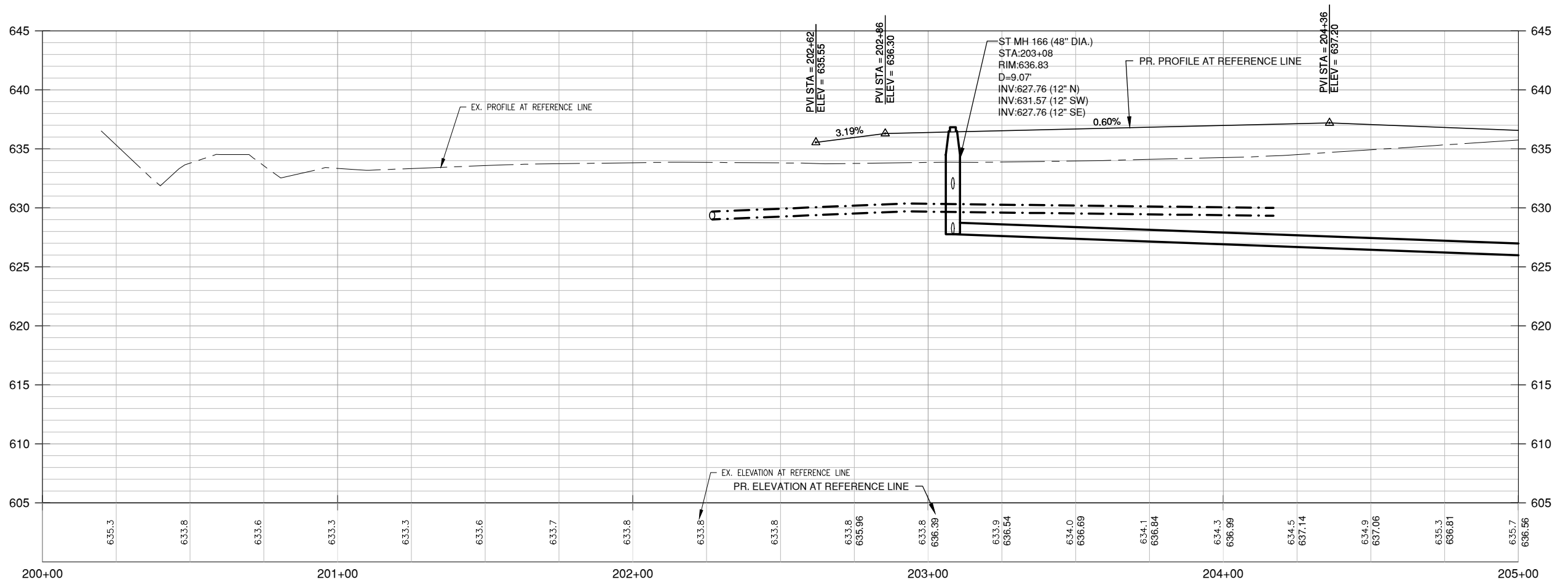
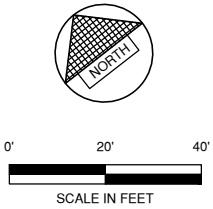
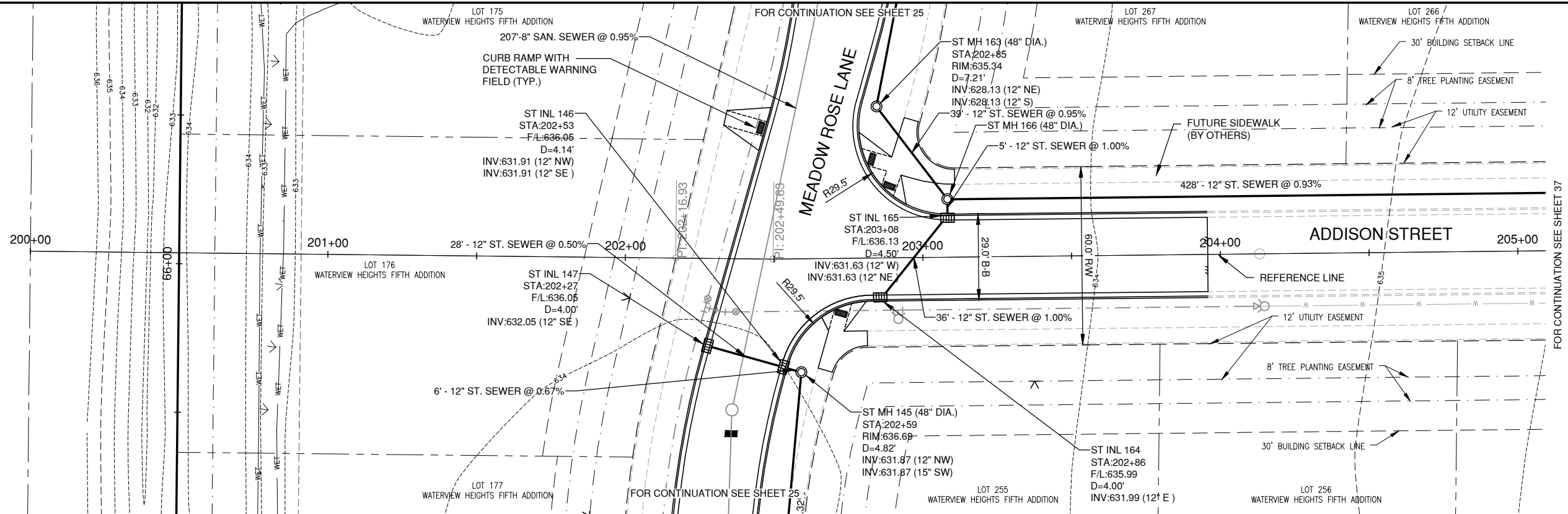
Robert E. Lee & Associates, Inc.
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920-662-9641 www.releinc.com

BID SET

SHEET NO.
35

File: R:\0400\0404\0404.dwg
Plot Date: Jun 09, 2022 - 8:14 am
LAWSON AL-026 ST

WISCONSIN CENTRAL LTD RAILROAD



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN	JMS-LLP
CHECKED	
DESIGNED	BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

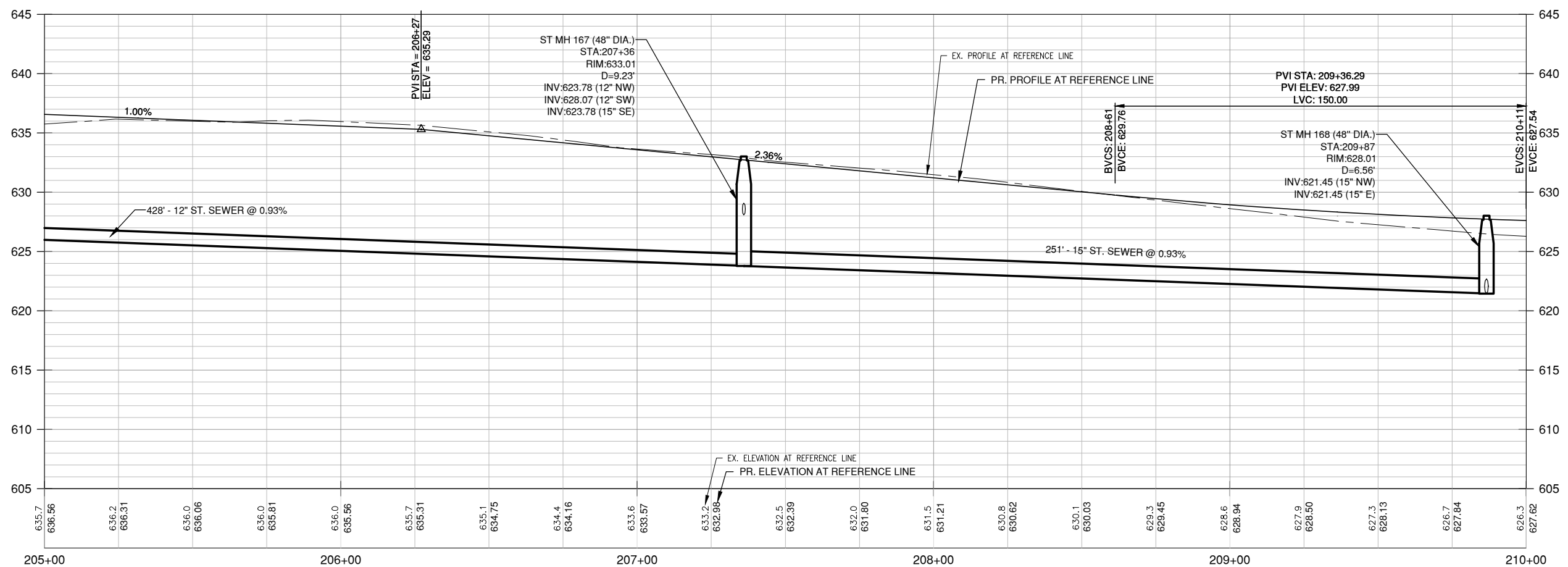
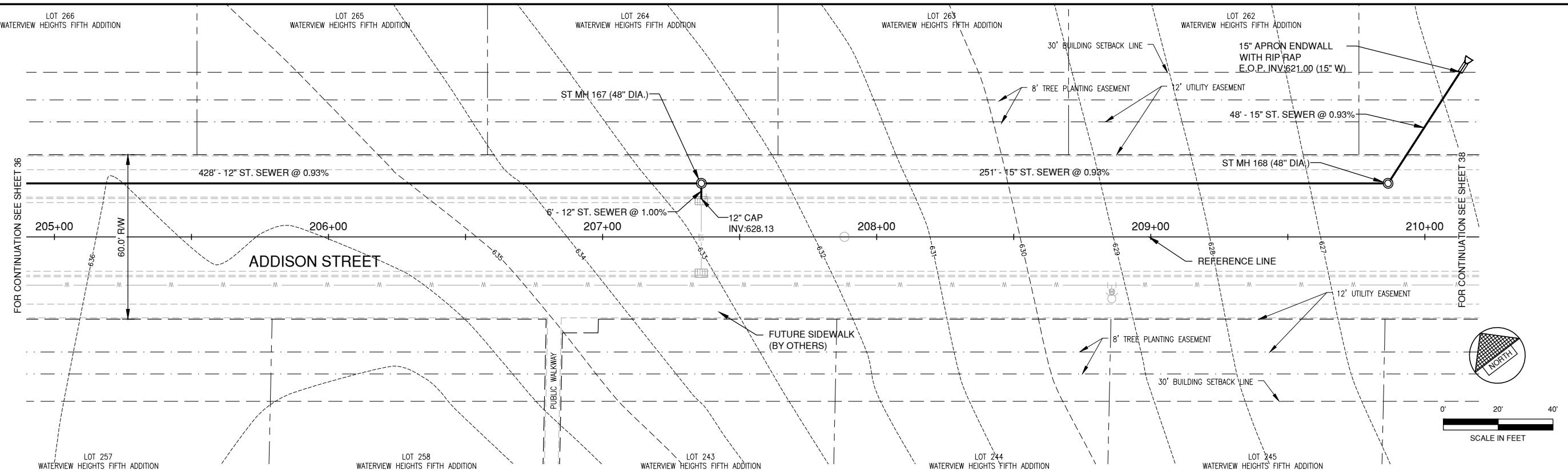
STORM SEWER AND STREET DESIGN
ADDISON STREET
STA. 200+00 TO STA. 205+00

DATE
03/20/22
FILE
A-ALL02
JOB NO.
0404471



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BID SET
SHEET NO.
36

[illegible]

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

STORM SEWER AND STREET DESIGN
ADDISON STREET
STA. 205+00 TO STA. 210+00

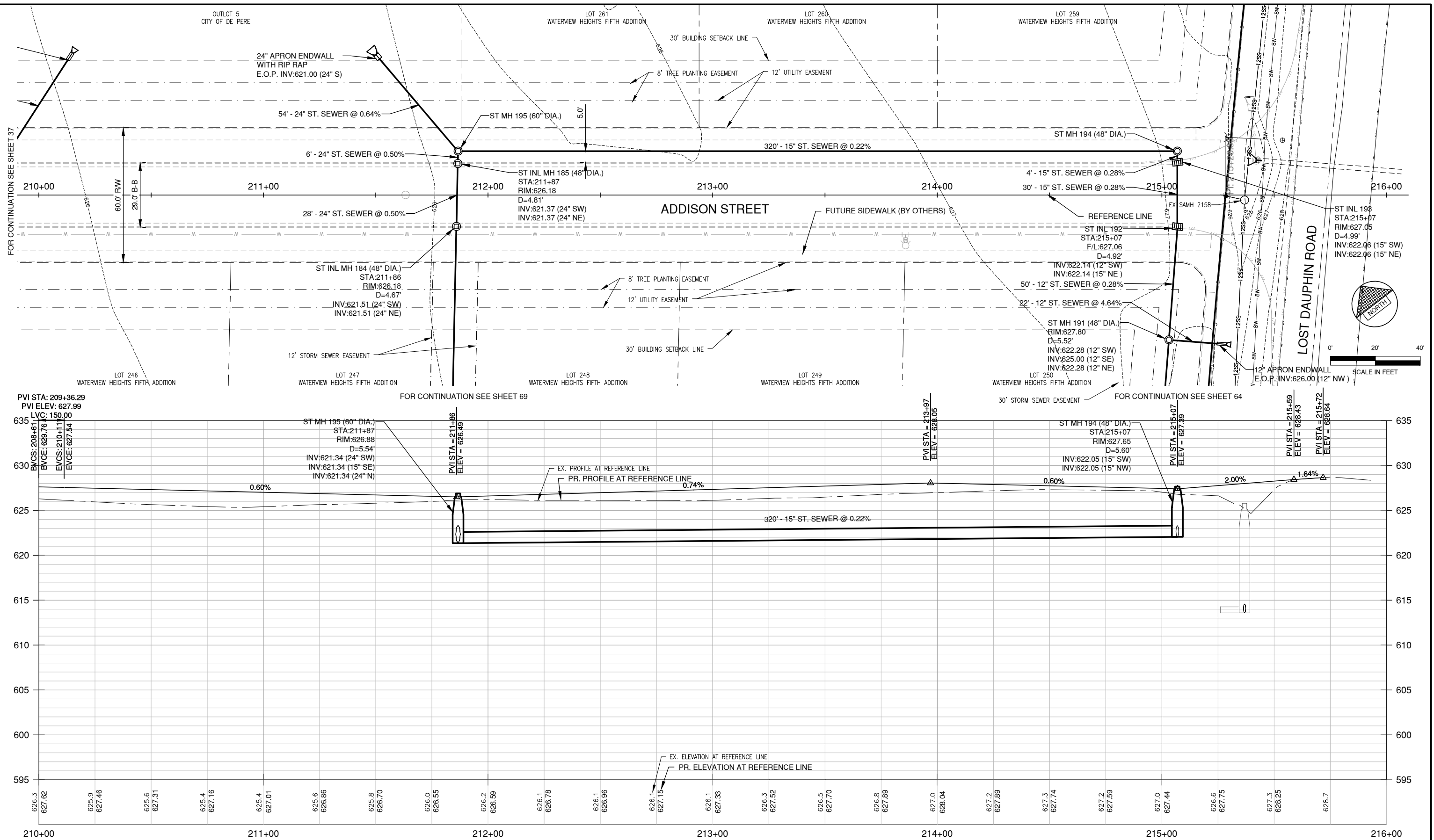
DATE	03/2022
FILE	A ALI-02
JOB NO.	0404471



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PRID SET

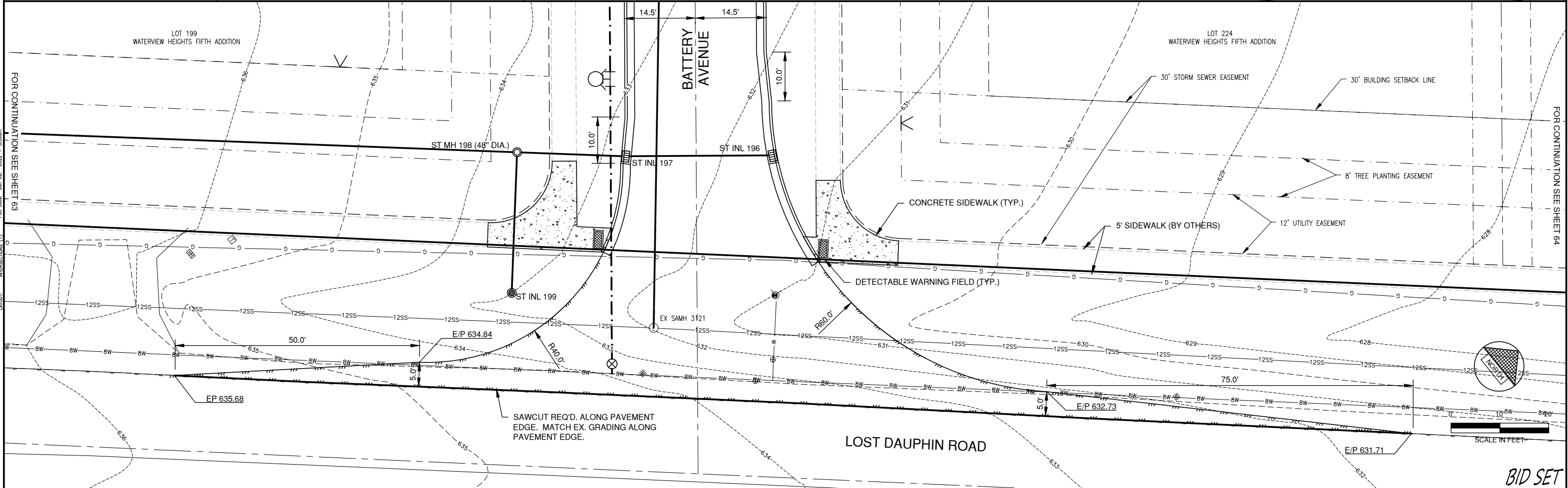
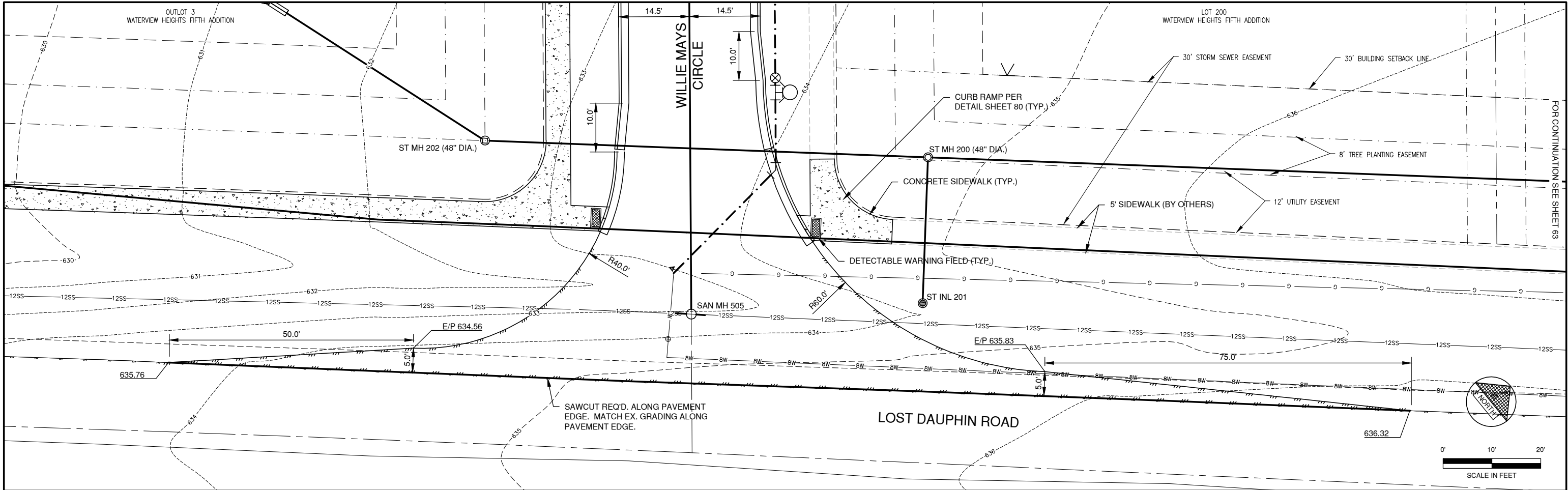
SHEET NO.
37

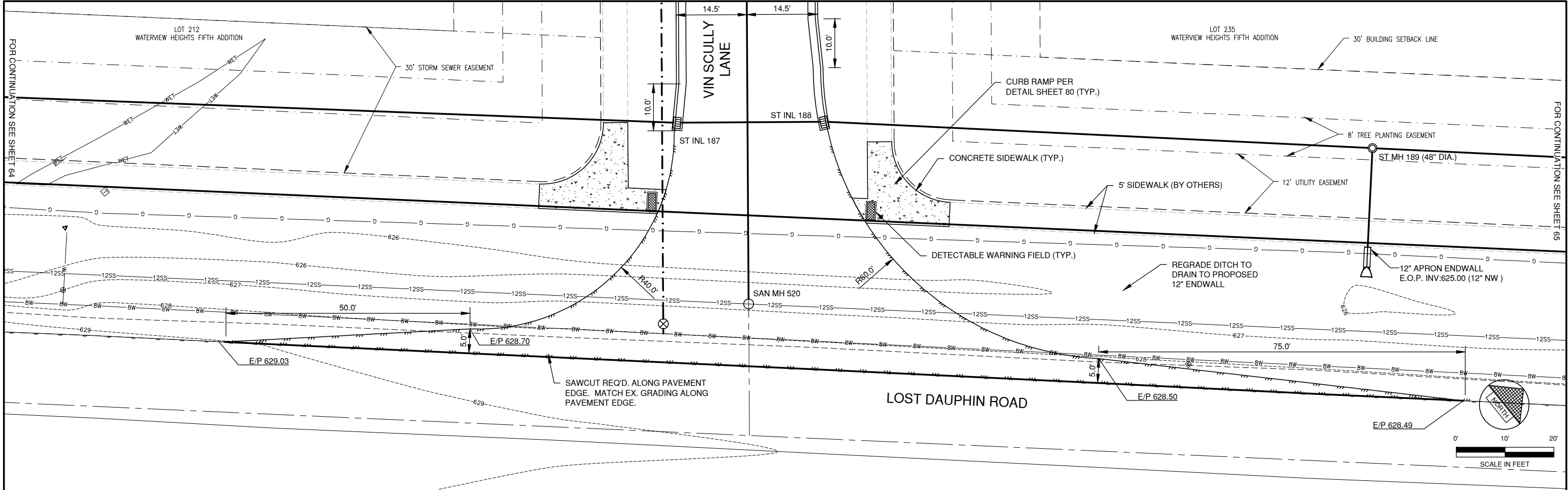


NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN JMS:LLP
								CHECKED
								DESIGNED
								BDR

STORM SEWER AND STREET DESIGN
ADDISON STREET
STA. 210+00 TO STA. 216+00







File: R:\0400\0404\0404471\0404 INTERSECTION.dwg
Plot Date: Jun 09, 2022 - 8:51 am
LAYOUT: INTERSECTIONS (2)

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN JMS
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

INTERSECTION DETAILS

DATE 03/20/22
FILE INTERSECTION
JOB NO. 0404471

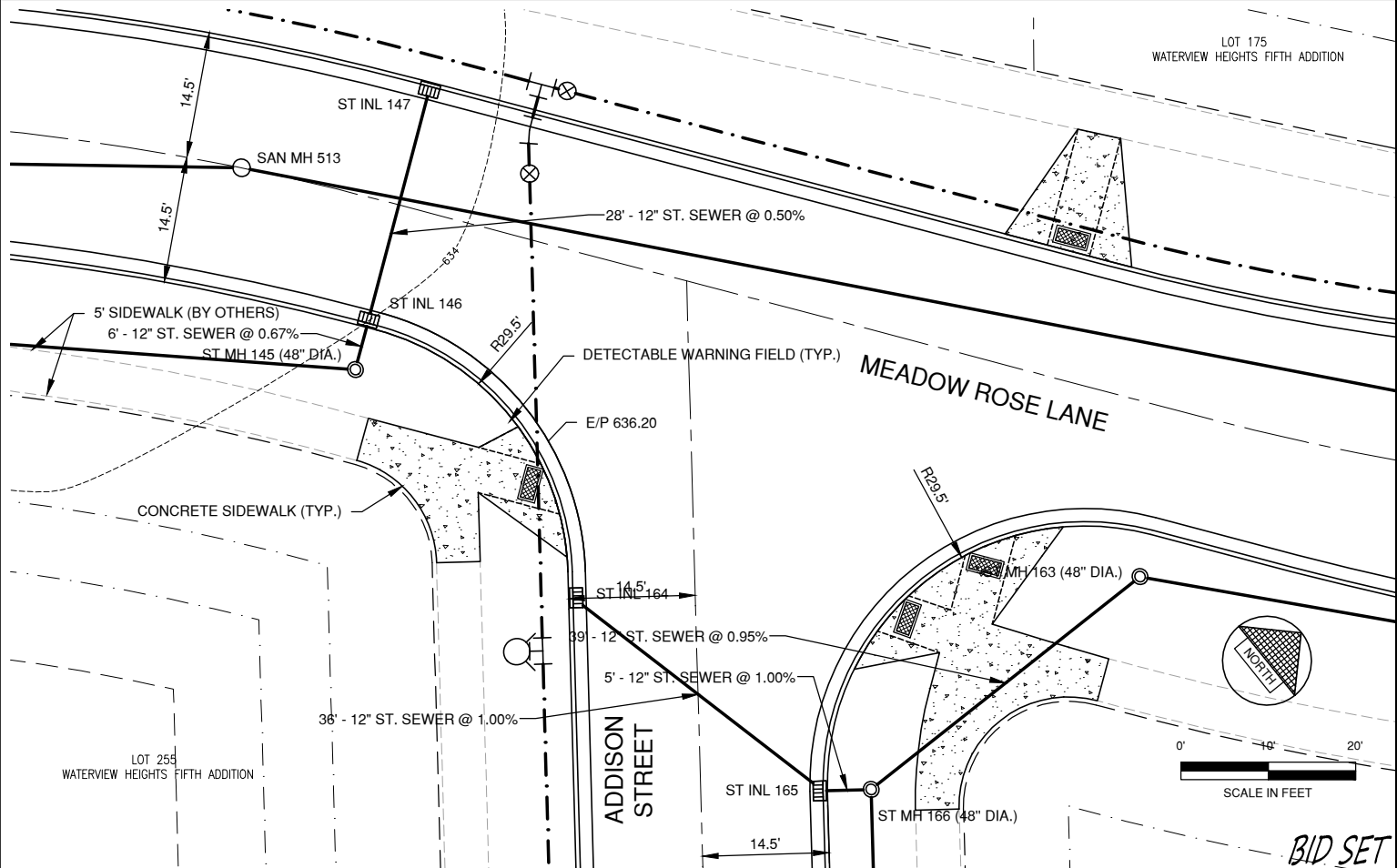
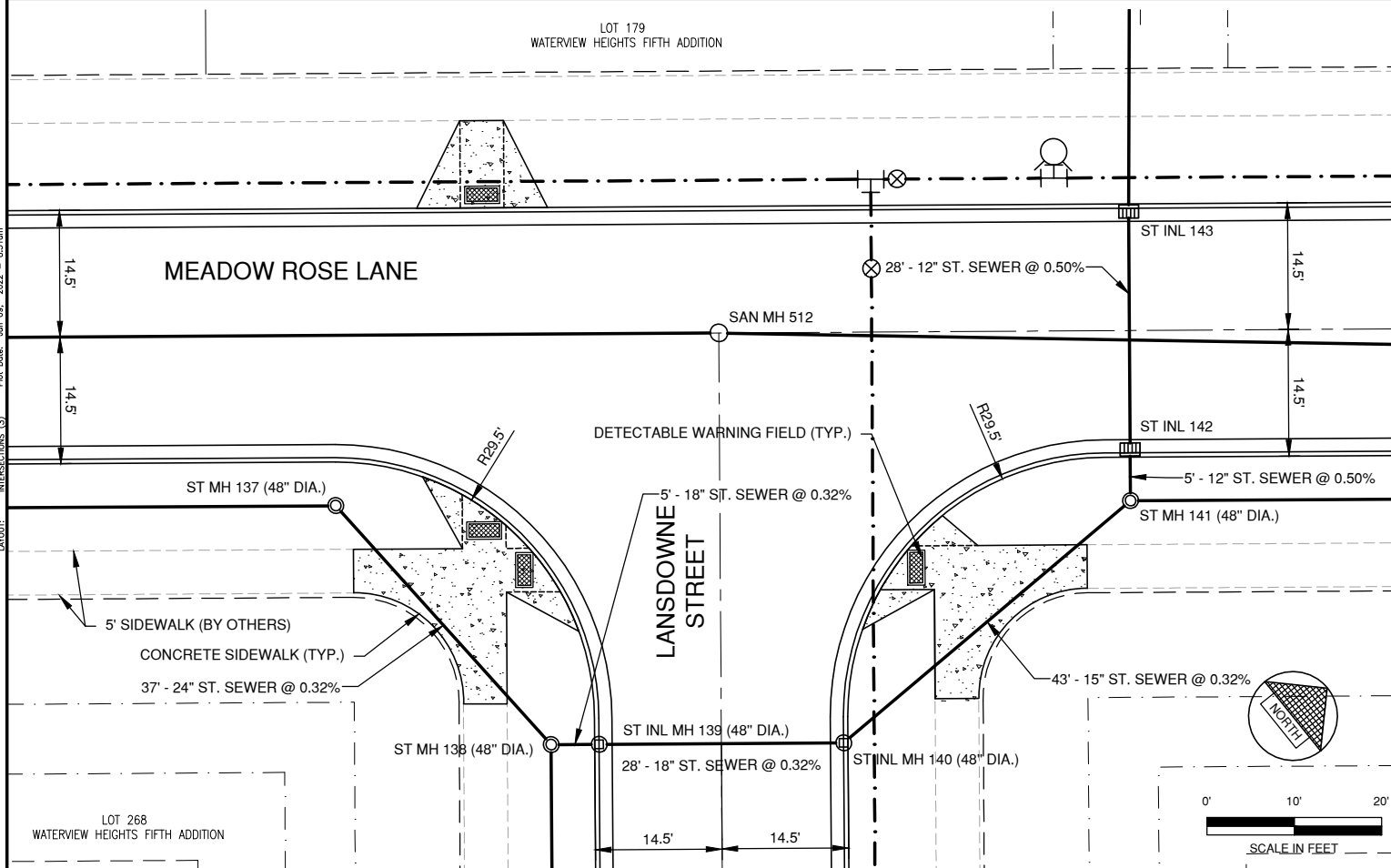
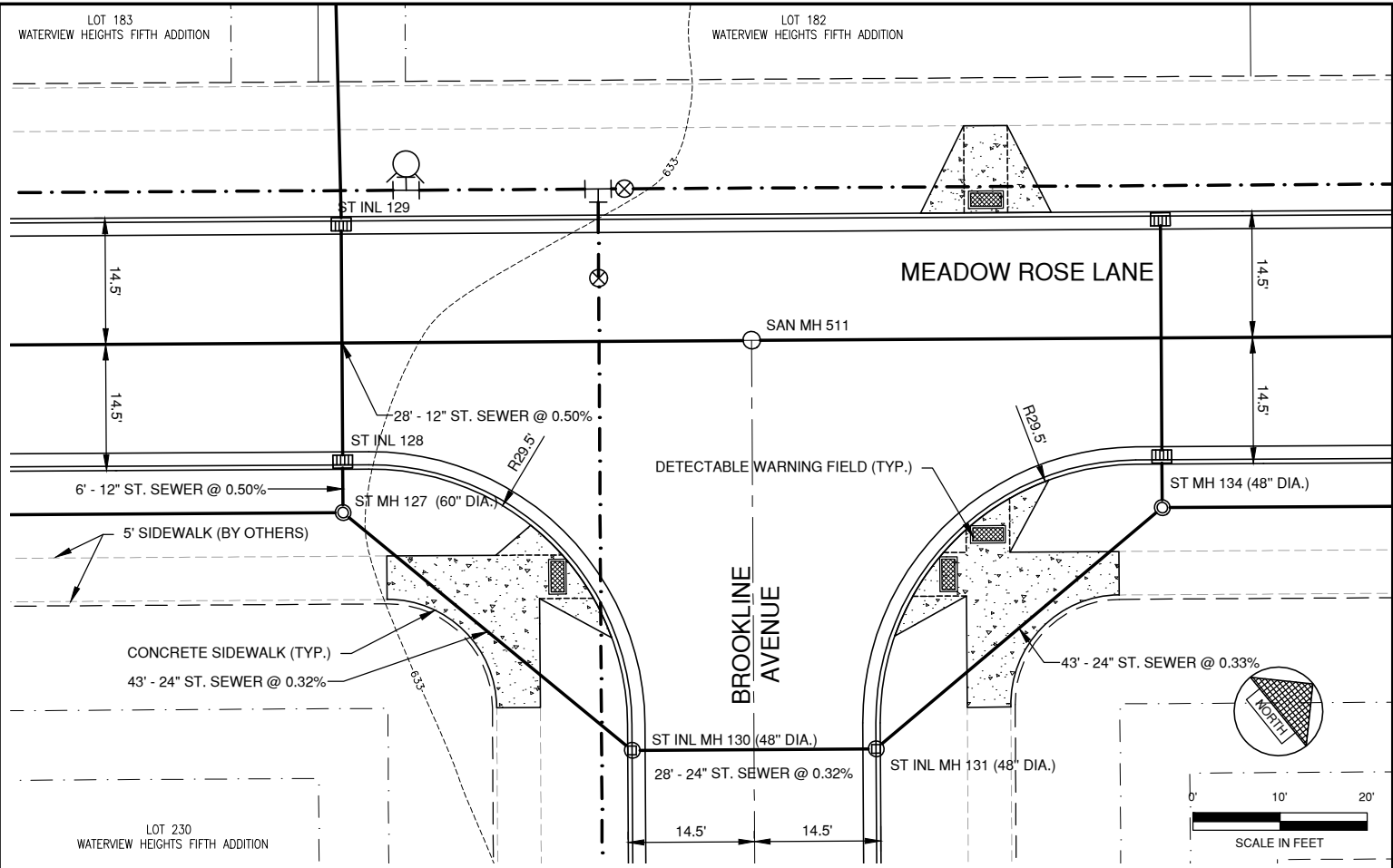
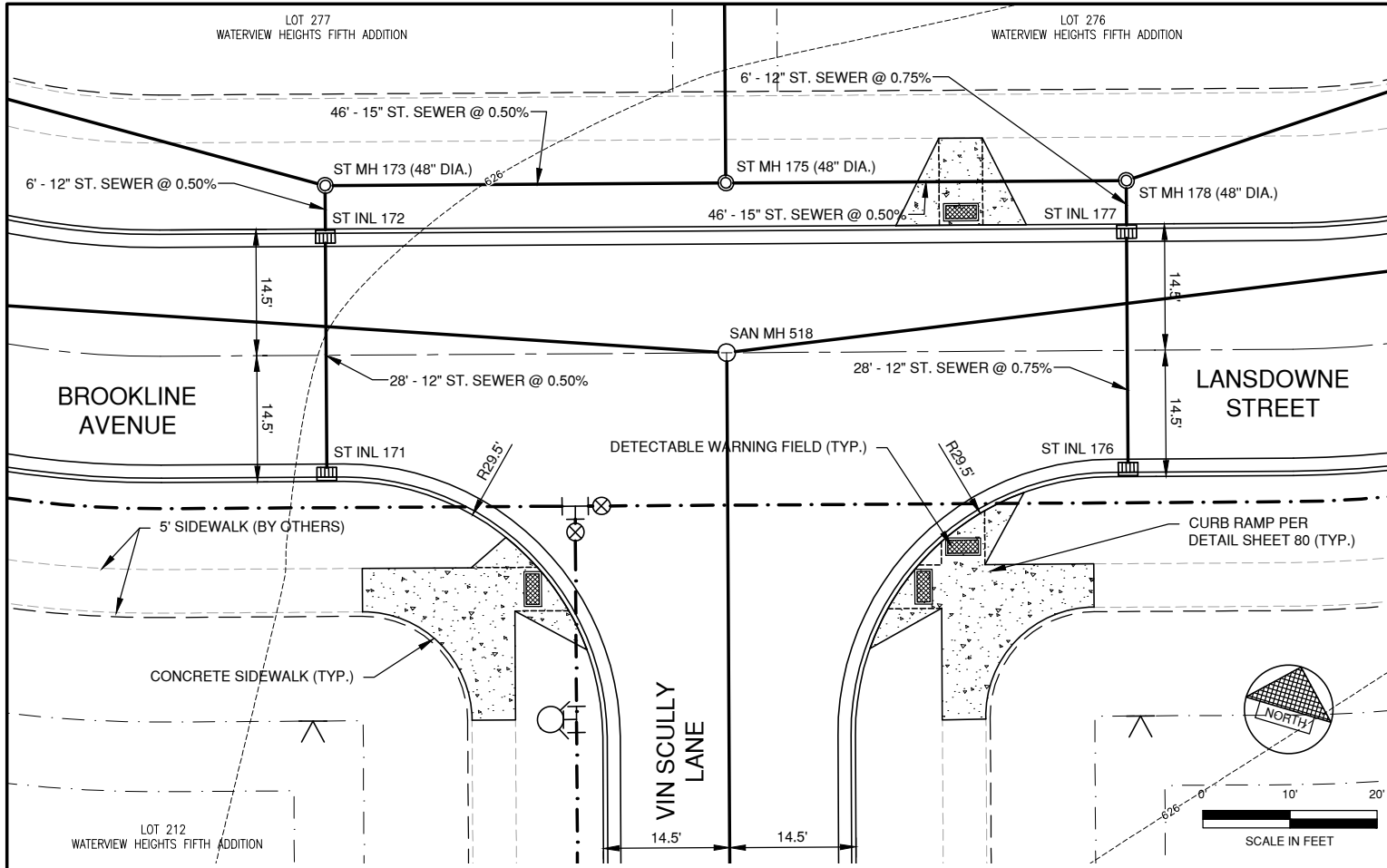


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SHEET NO.
40

BID SET

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Plot Date: Jan 05, 2022 - 8:51 am
INTERSECTIONS (3)
LAYOUT:



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN JMS
CHECKED ---
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

INTERSECTION DETAILS

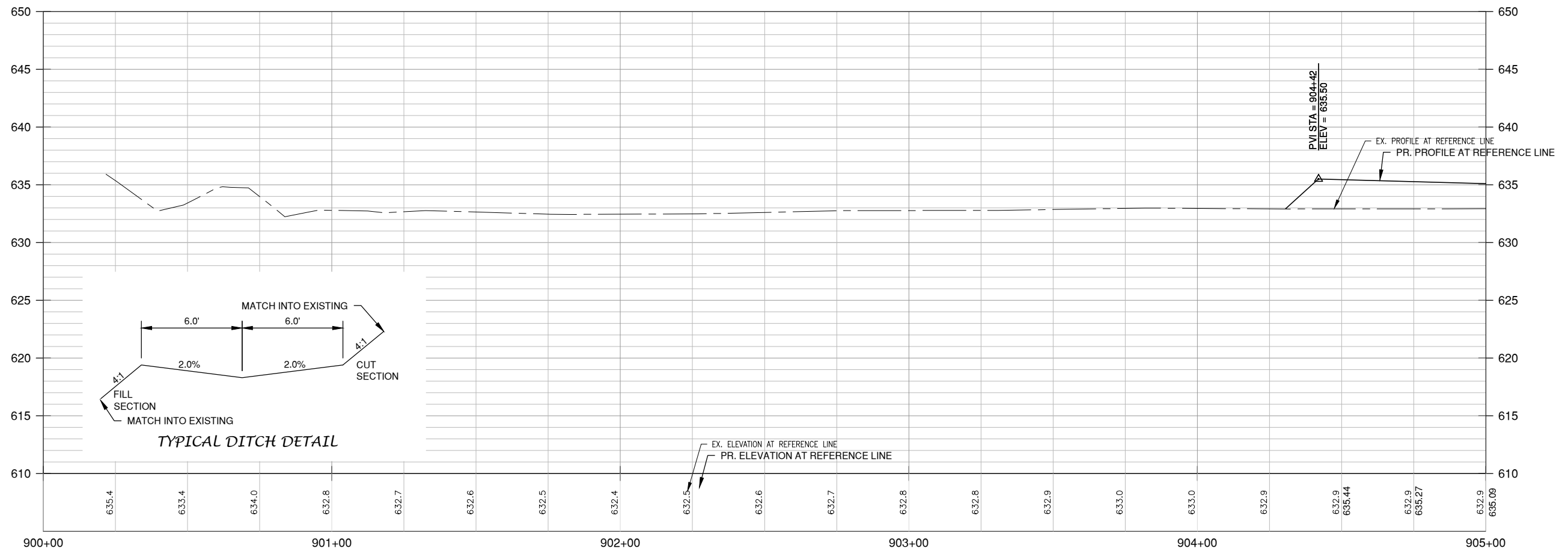
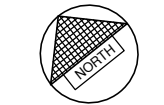
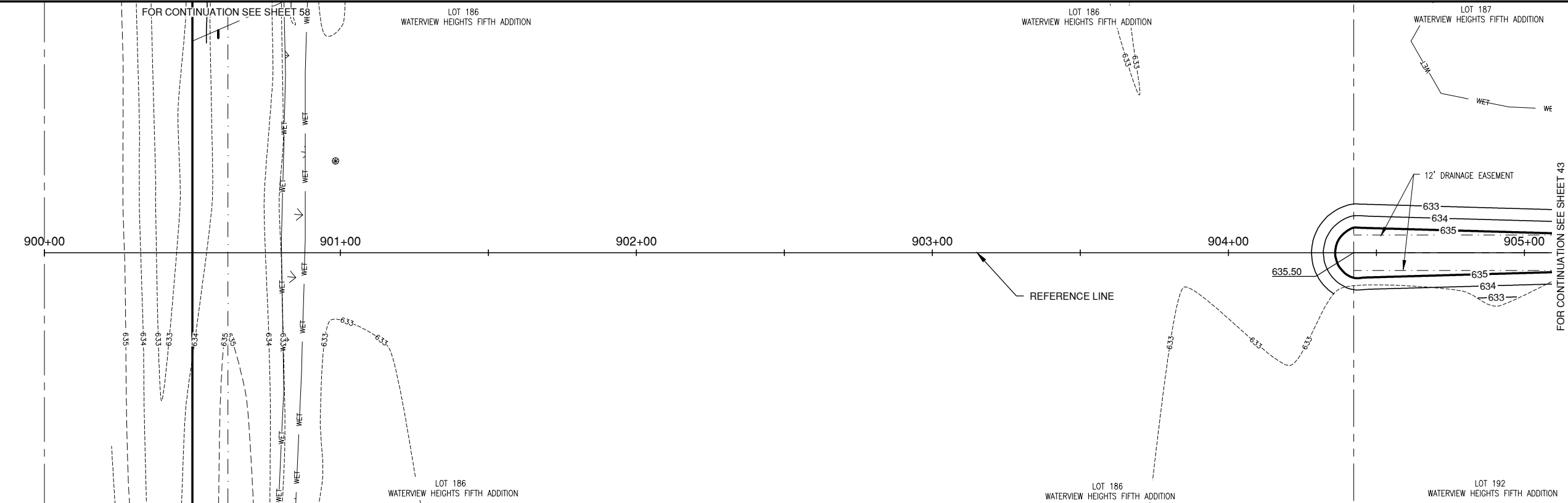
DATE 03/20/22
FILE INTERSECTION
JOB NO. 0404471

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File: R:\0400\0404\0404471\dwg\A-41-08.dwg
Plot Date: Jun 09, 2022 - 8:58 am

USER: AL-081
LWDR:

WISCONSIN CENTRAL LTD RAILROAD



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN JMS
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

BACK PROPERTY LINE BETWEEN
WILLIE MAYS CIRCLE AND BATTERY AVENUE
STA. 900+00 TO STA. 905+00

DATE
03/20/22
FILE
A-41-09
JOB NO.
0404471

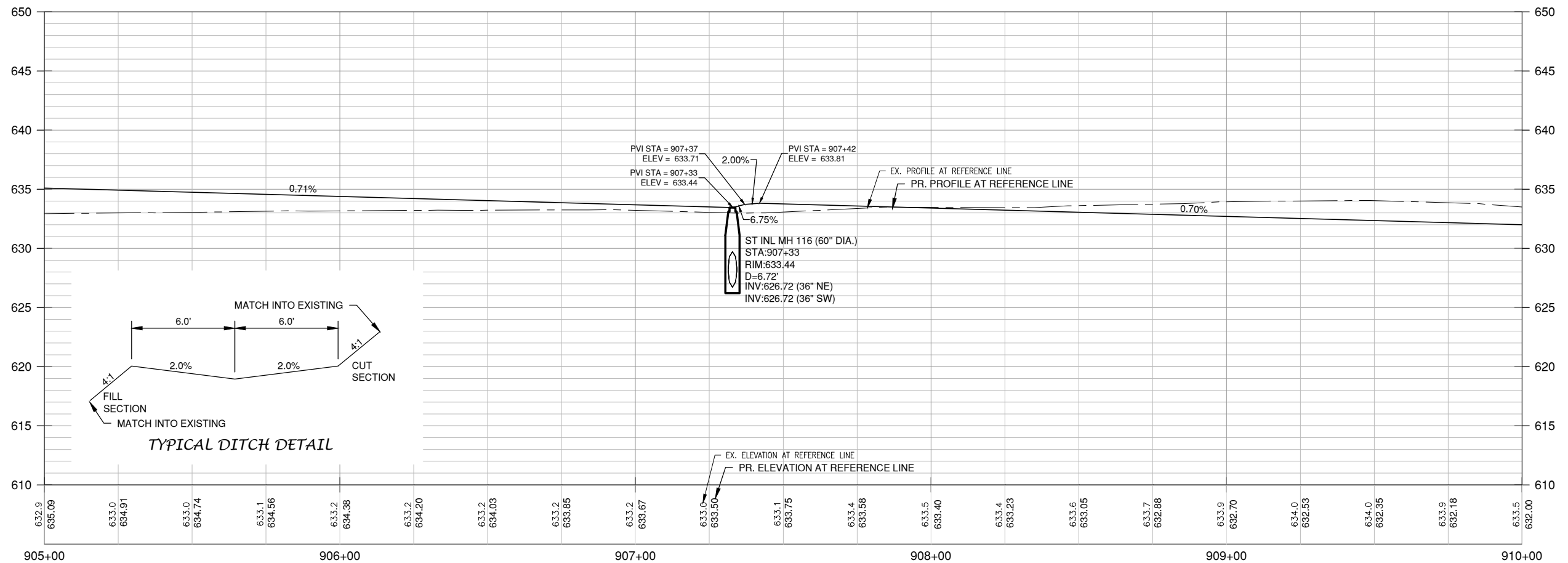
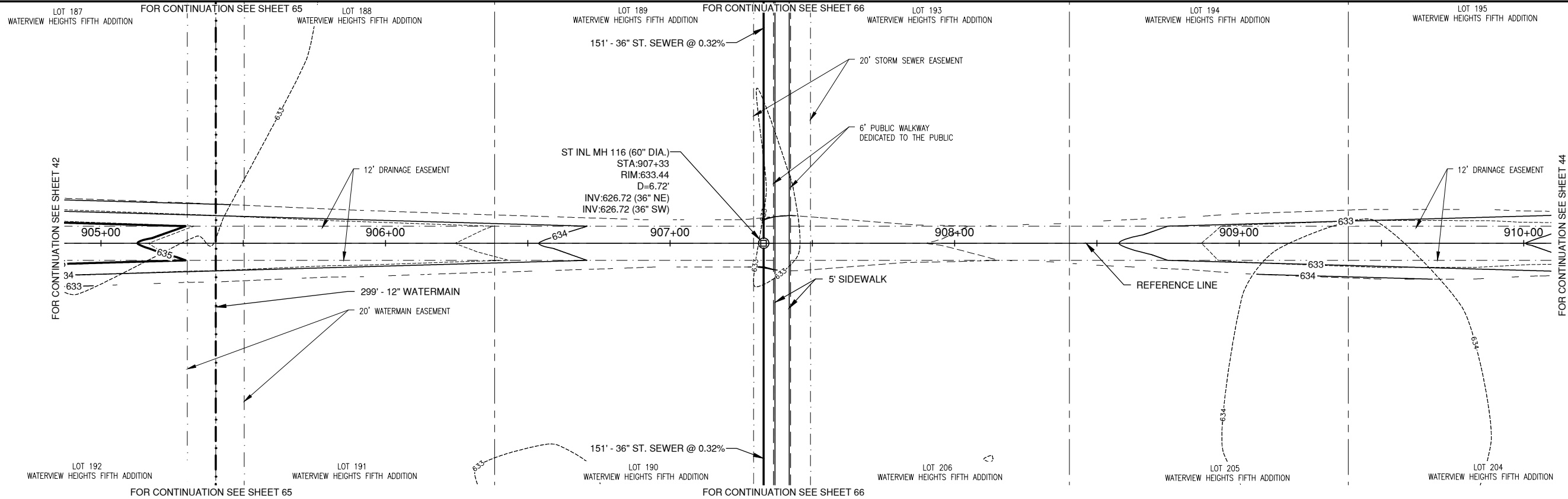


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SHEET NO.
42

BID SET

File: R:\0400\0404\0404471\dwg\A_41-09.dwg
Plot Date: Jun 09, 2022 - 8:58am
LWG: AL-092



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN JMS
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

BACK PROPERTY LINE BETWEEN
WILLIE MAYS CIRCLE AND BATTERY AVENUE
STA. 905+00 TO STA. 910+00

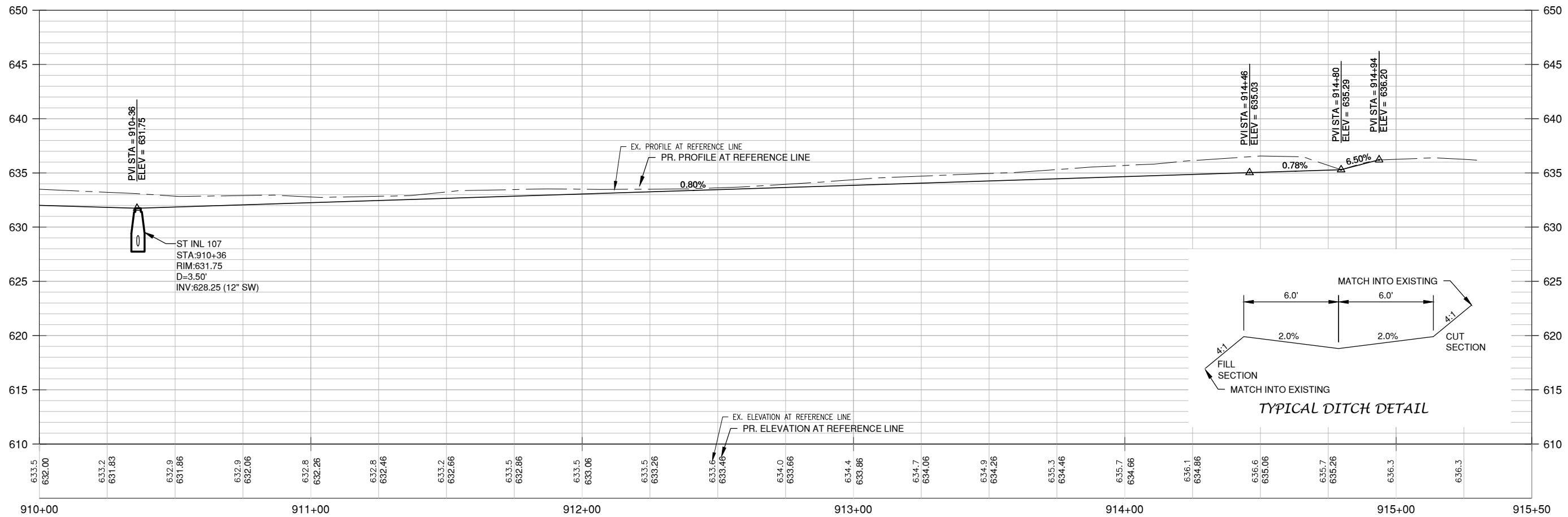
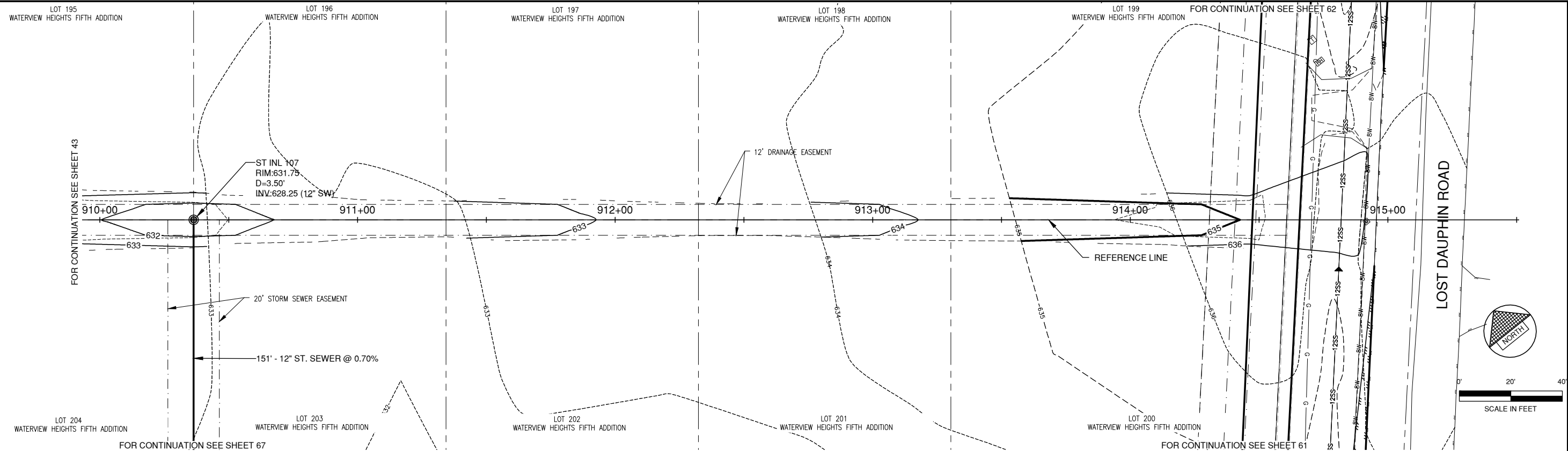
DATE
03/20/22
FILE
A_41-09
JOB NO.
0404471



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BID SET
SHEET NO.
43

File: R:\0400\0404\0404471\dwg\A-08.dwg
Plot Date: Jun 05, 2022 - 8:58am
LW037: AL-083



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN JMS
CHECKED ...
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

BACK PROPERTY LINE BETWEEN
WILLIE MAYS CIRCLE AND BATTERY AVENUE
STA. 910+00 TO STA. 915+50

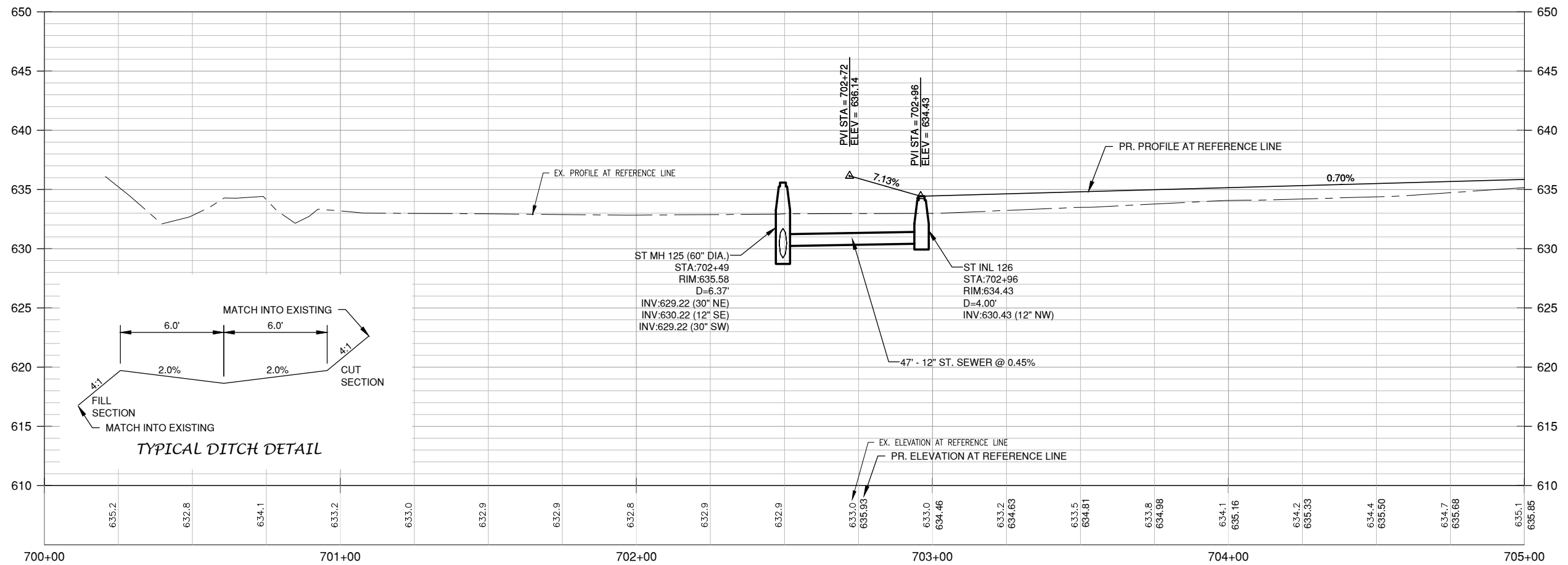
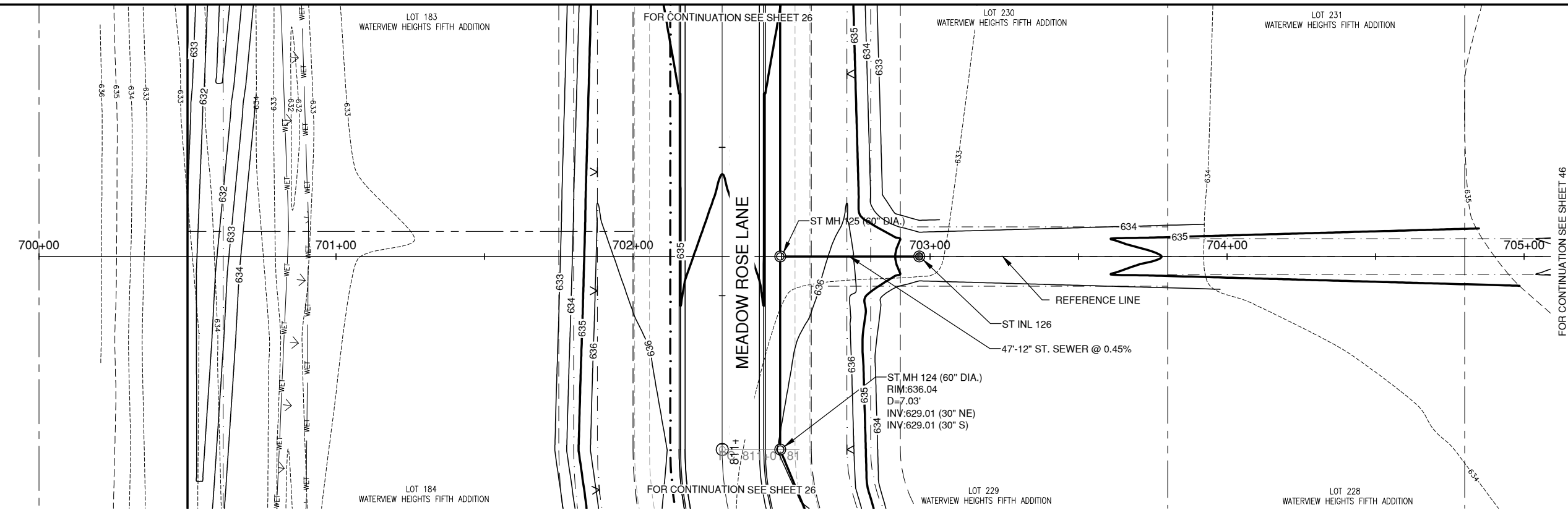
DATE
03/20/22
FILE
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JOB NO.
0404471

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BID SET
SHEET NO.
44

File: R:\0400\0404\0404471\dwg\A_41-07.dwg
Plot Date: Jun 05, 2022 8:53 am
LAWSON AL-071

WISCONSIN CENTRAL LTD RAILROAD



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN JMS
CHECKED
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

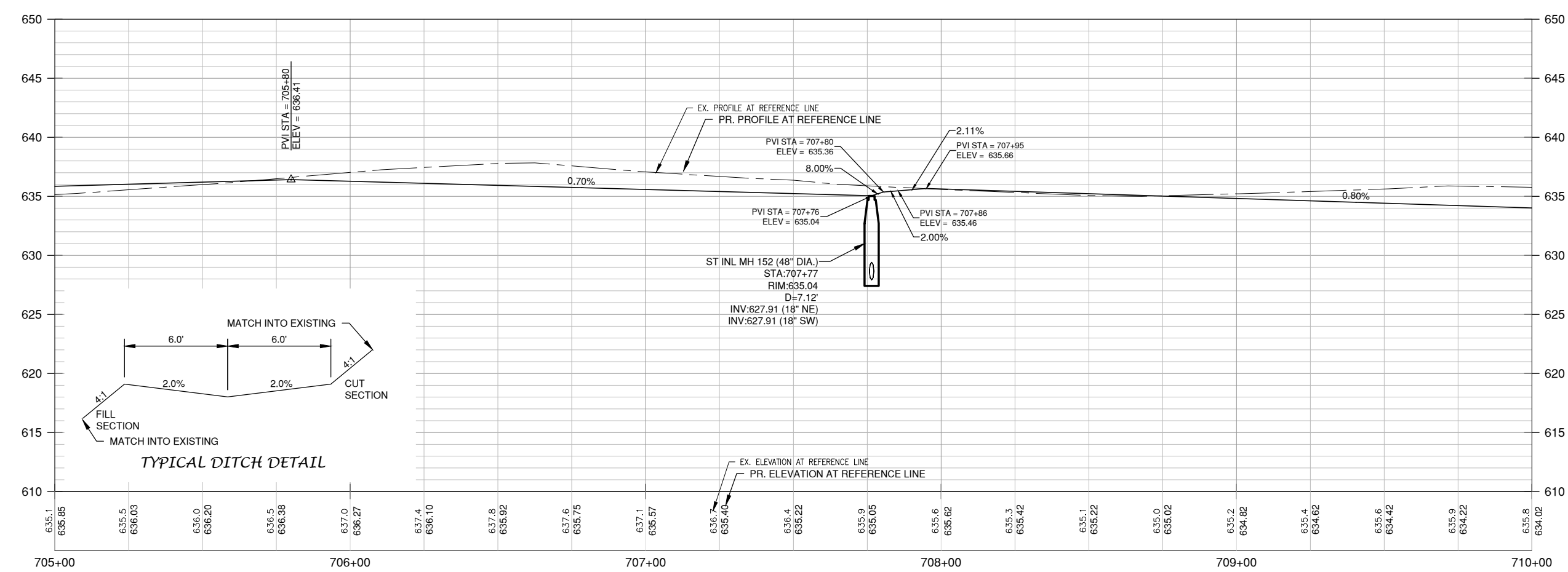
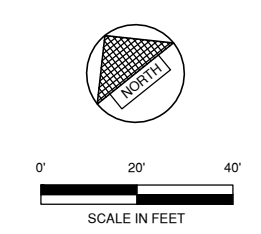
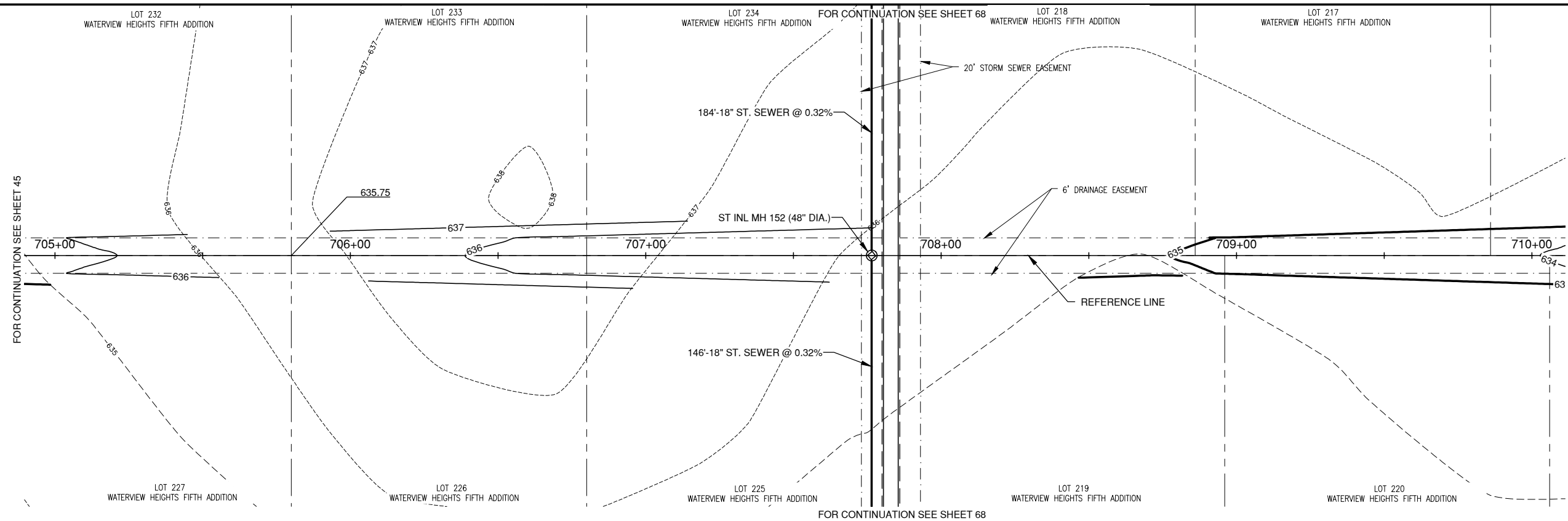
BACK PROPERTY LINE BETWEEN
BATTERY AVENUE AND BROOKLINE AVENUE
STA. 700+00 TO STA. 705+00

DATE
03/20/22
FILE
A_41-07
JOB NO.
0404471

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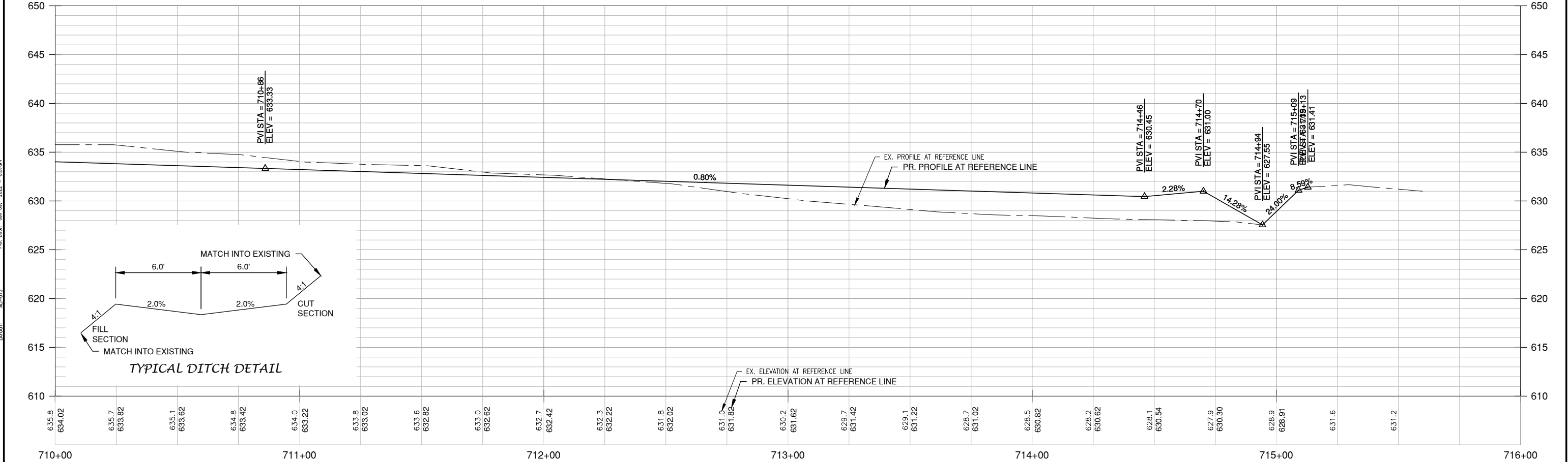
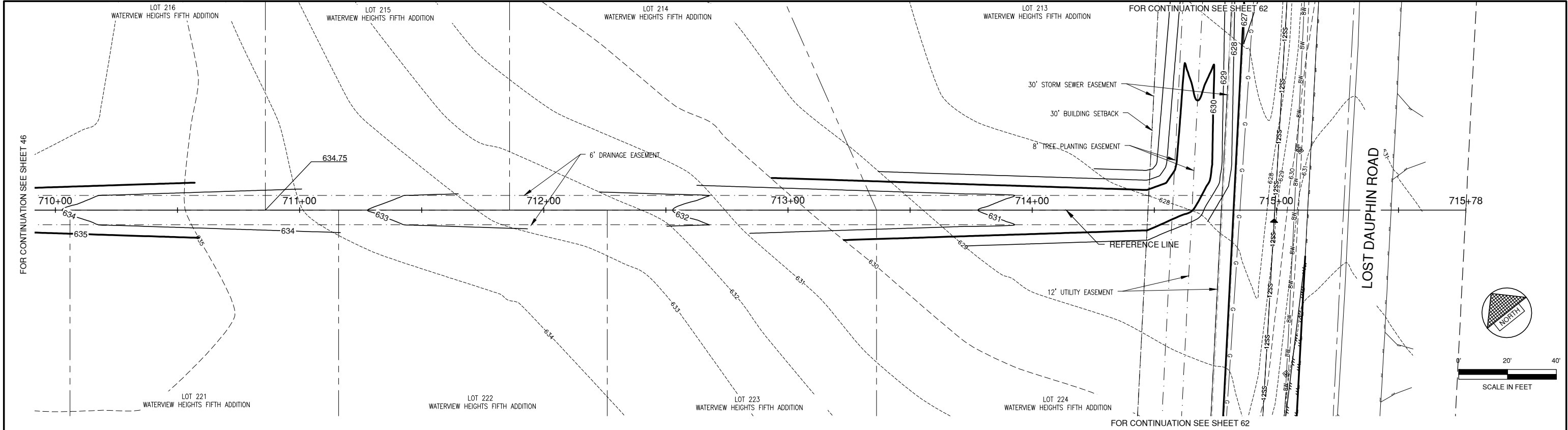
SHEET NO.
45

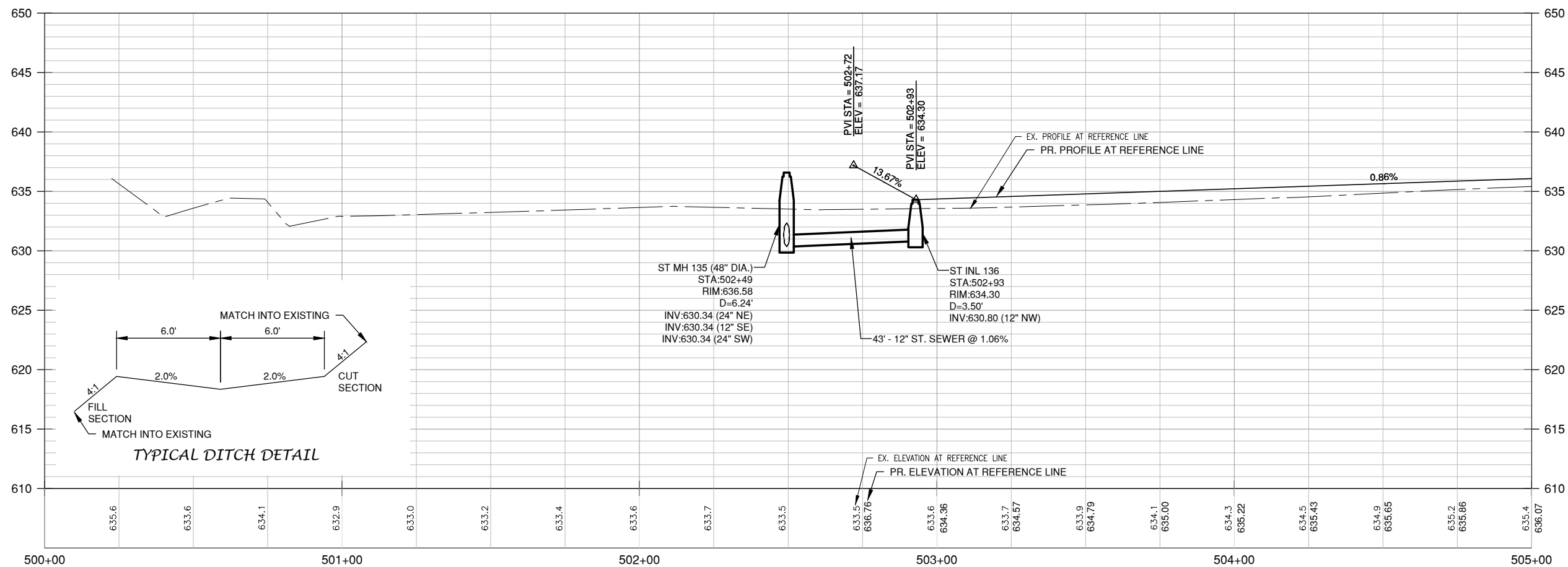
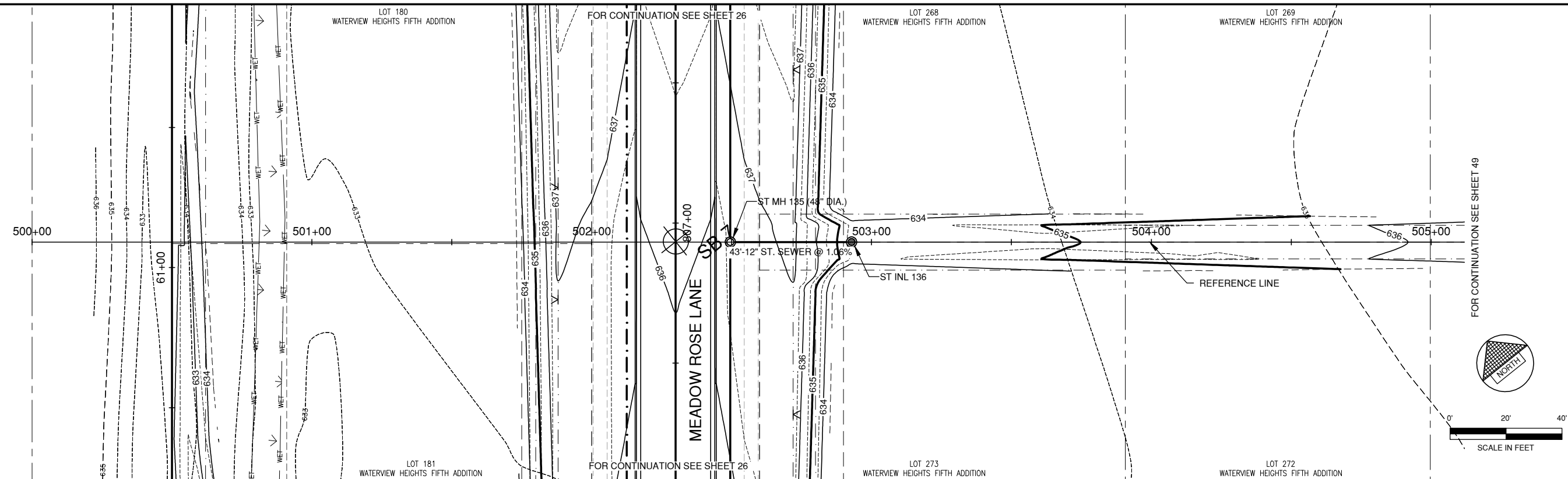
BID SET



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Plot Date: Jun 09, 2022 - 8:51 am
LWG: AL-072

BID SET





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Plot Date: Jun 15, 2022 12:23pm
LAWSON AL-051

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN RLB
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

BACK PROPERTY LINE BETWEEN
LANSDOWNE STREET AND BROOKLINE AVENUE
STA. 500+00 TO STA. 505+00

DATE
03/20/22
FILE
A-48.dwg
JOB NO.
0404471

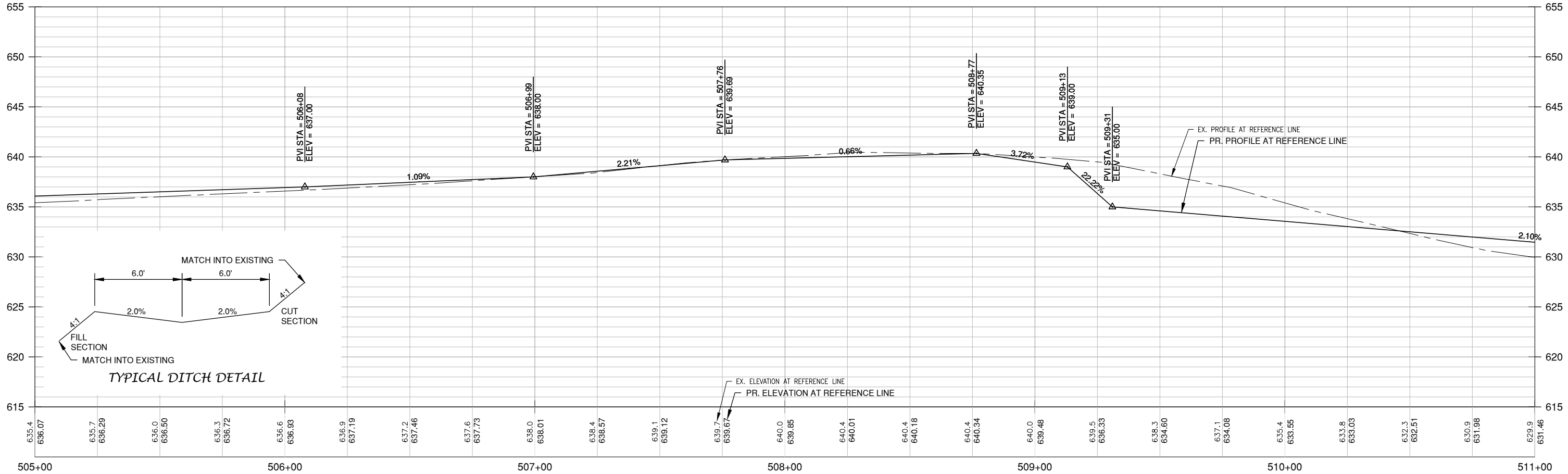
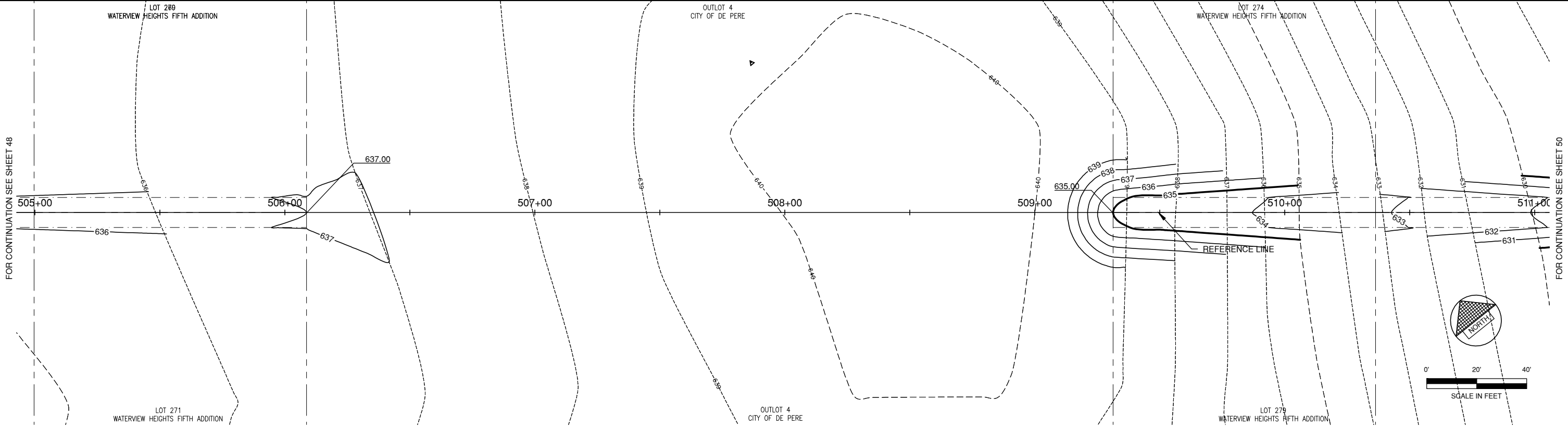


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BID SET
SHEET NO.
48

FOR CONTINUATION SEE SHEET 48

FOR CONTINUATION SEE SHEET 50



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN RLB
CHECKED ...
DESIGNED BDR

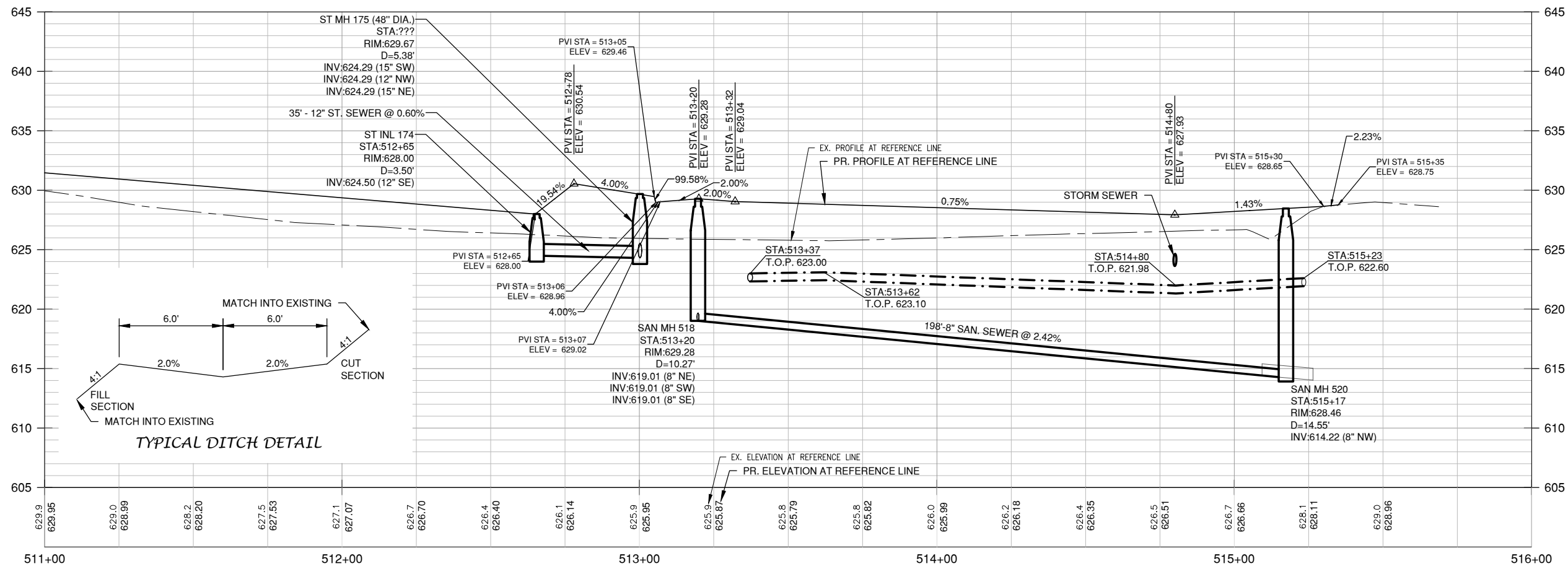
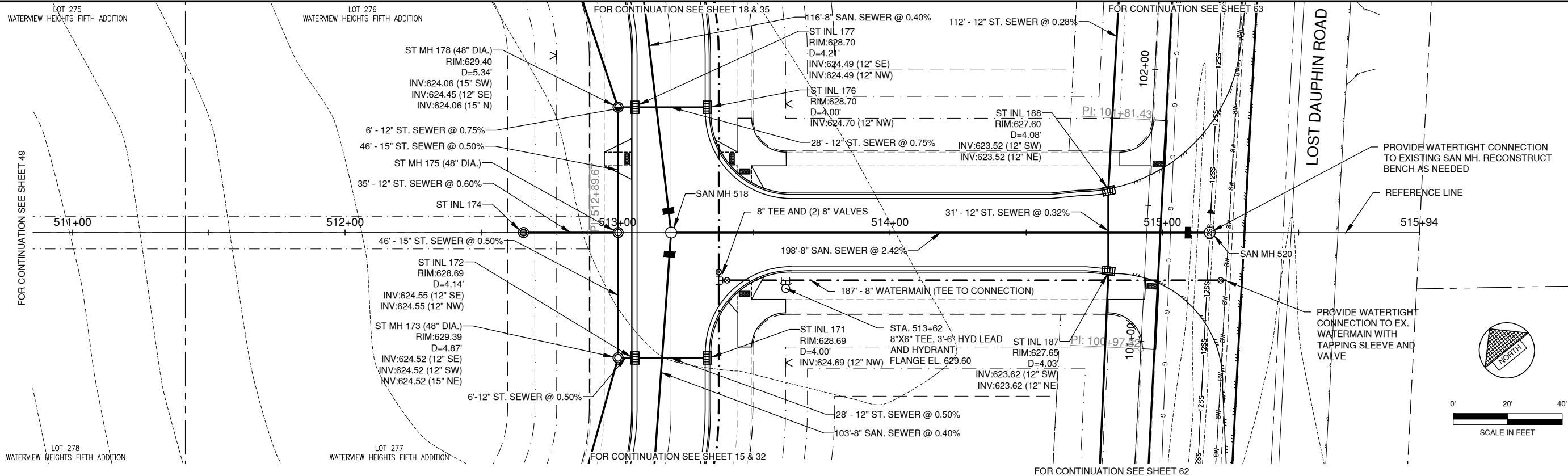
CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

BACK PROPERTY LINE BETWEEN
LANSOWNE STREET AND BROOKLINE AVENUE
STA. 505+00 TO STA. 511+00

DATE
03/20/22
FILE
A-ALL05
JOB NO.
0404471

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BID SET
SHEET NO.
49



File: R:\0400\0404\0404.dwg
Plot Date: Jun 15, 2022 - 12:30pm
LWS: AL-553

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN	RLB
CHECKED	
DESIGNED	BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

VIN SCULLY LANE AND
BACK PROPERTY LINE BETWEEN
LANSDOWNE STREET AND BROOKLINE AVENUE
STA. 511+00 TO STA. 516+00

DATE
03/20/22
FILE
A. ALL05
JOB NO.
0404471



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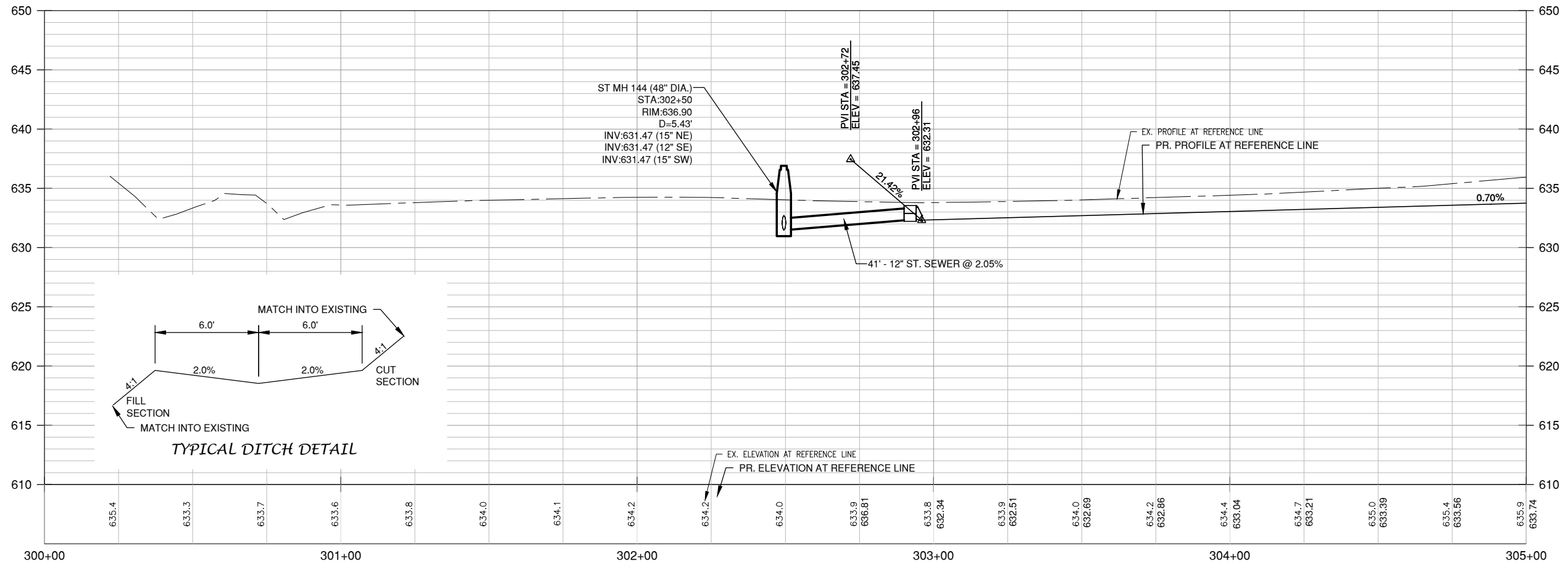
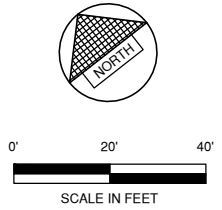
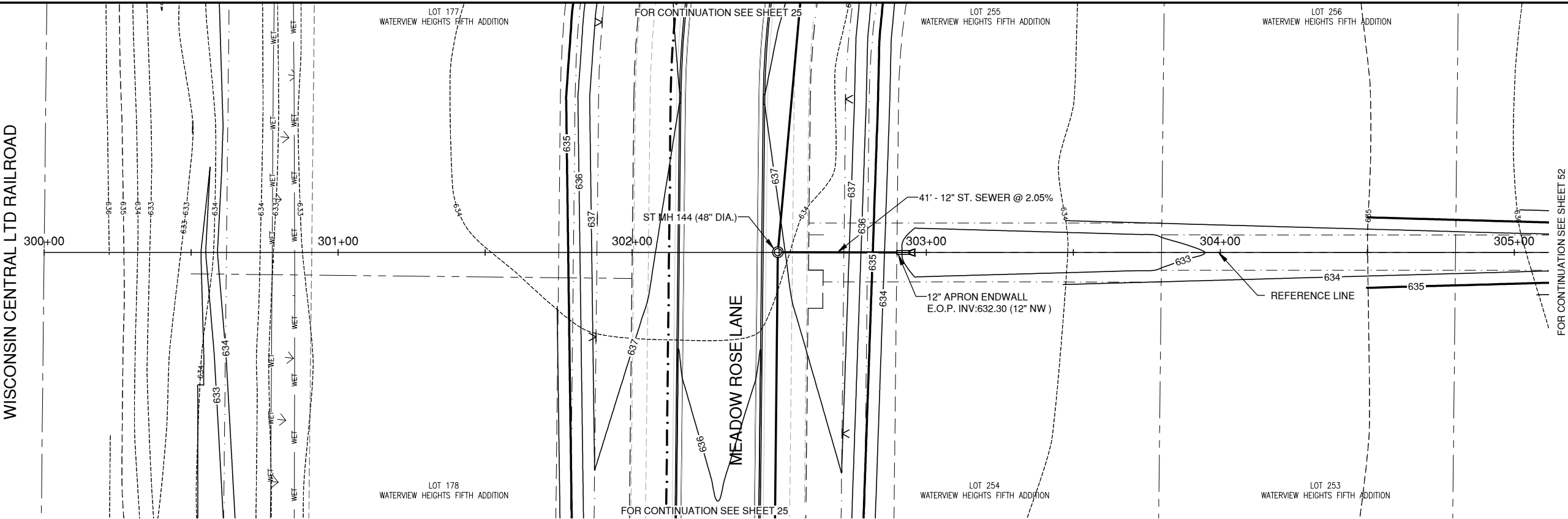
BID SET

SHEET NO.
50

File: R:\0400\0404\0404.dwg
Plot Date: Jun 16, 2022 - 7:35am

USER: ALI-531
LAWYER:

WISCONSIN CENTRAL LTD RAILROAD



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN RLB
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

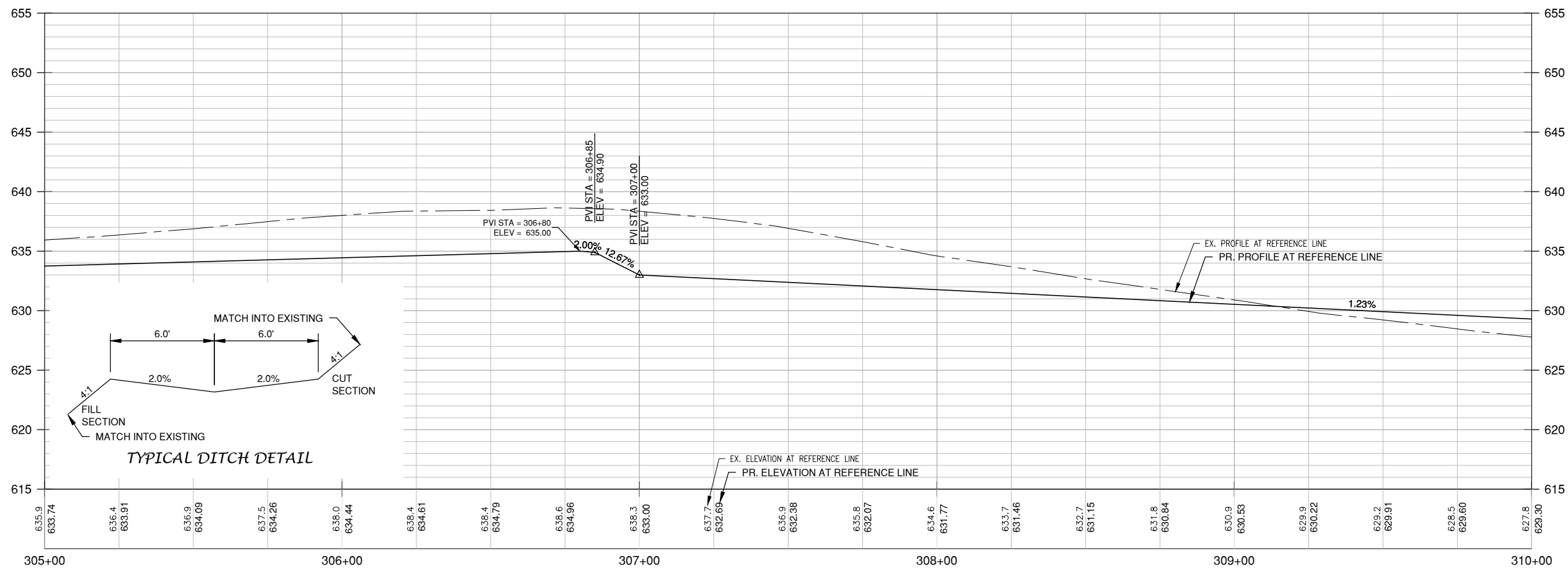
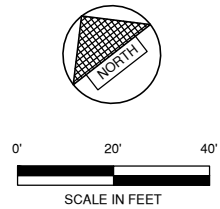
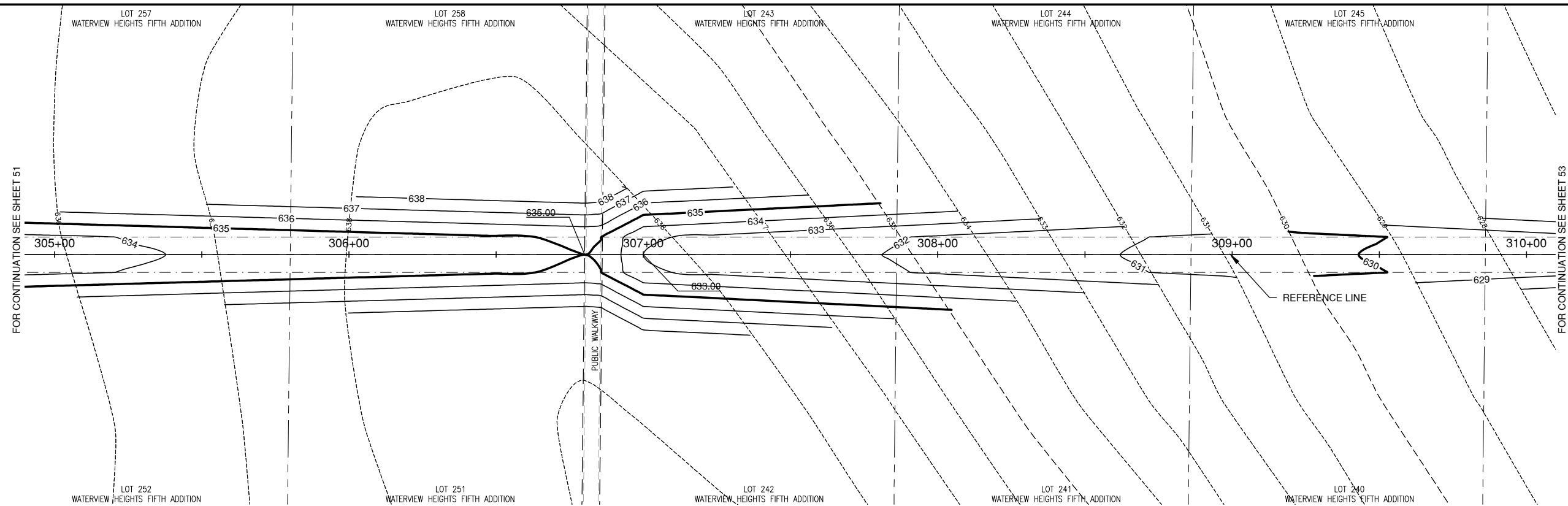
BACK PROPERTY LINE BETWEEN
ADDISON STREET AND LANSDOWNE STREET
STA. 300+00 TO STA. 305+00

DATE
03/20/22
FILE
A-ALI-03
JOB NO.
0404471



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BID SET
SHEET NO.
51



File: R:\0400\0404\0404471\dwg\A-03.dwg
Plot Date: Jun 05, 2022 - 9:22am
LWS: AL-032

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN RLB
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

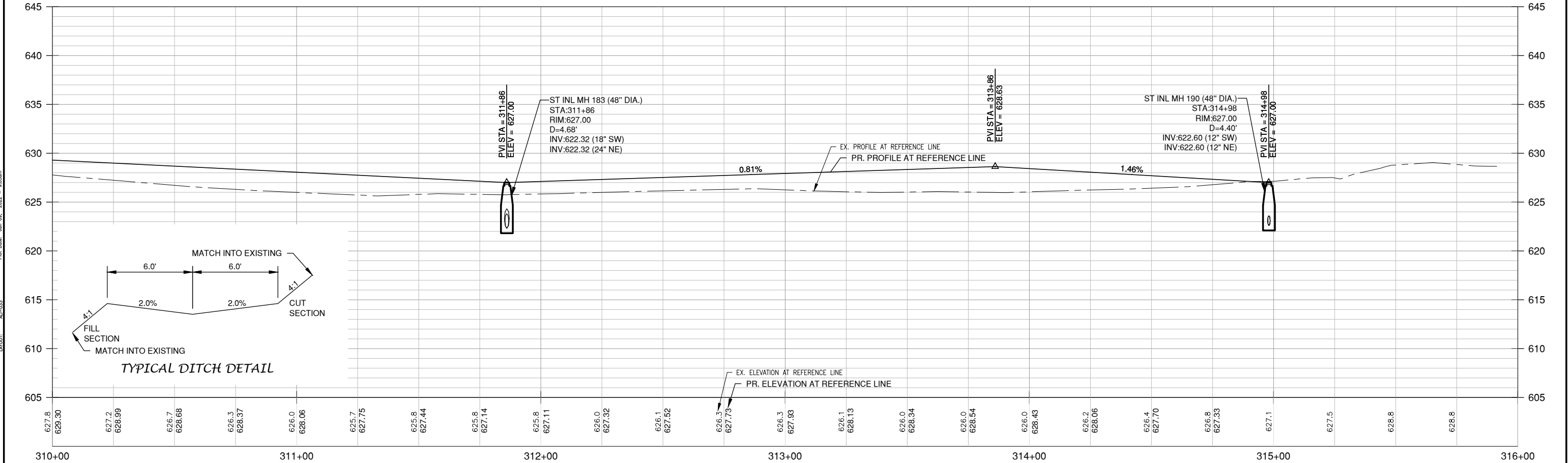
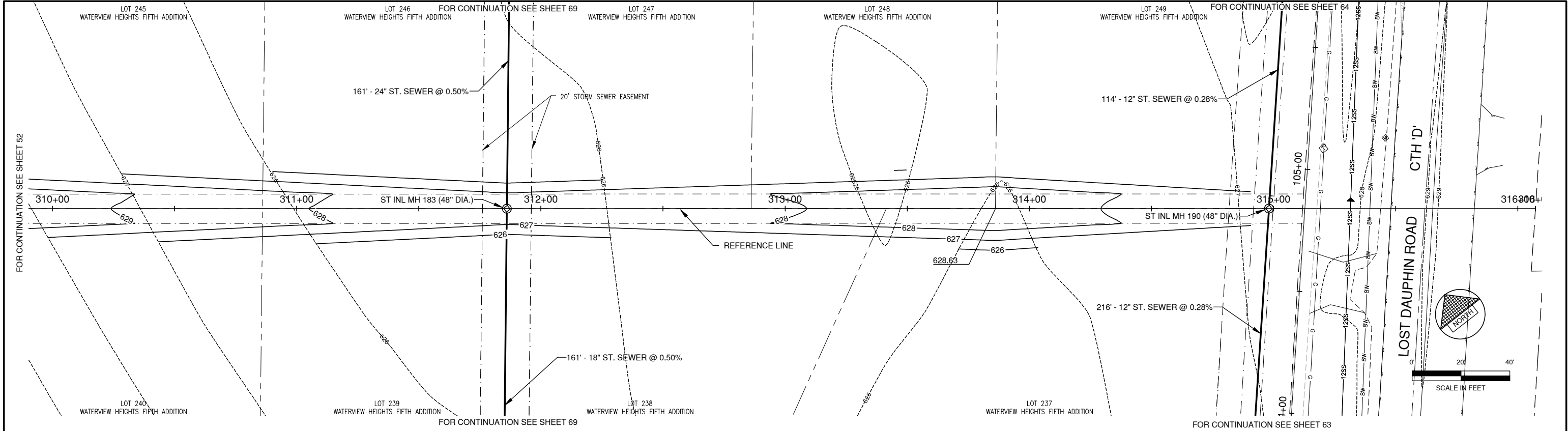
BACK PROPERTY LINE BETWEEN
ADDISON STREET AND LANSDOWNE STREET
STA. 305+00 TO STA. 310+00

DATE
03/20/22
FILE
A-ALL03
JOB NO.
0404471



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BID SET
SHEET NO.
52



File: R:\0400\0404\0404471\dwg\A_ALI-03.dwg
Plot Date: Jun 05, 2022 - 9:03am
LWG01: ALI-033

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN RLB
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

BACK PROPERTY LINE BETWEEN
ADDISON STREET AND LANSDOWNE STREET
STA. 310+00 TO STA. 316+00

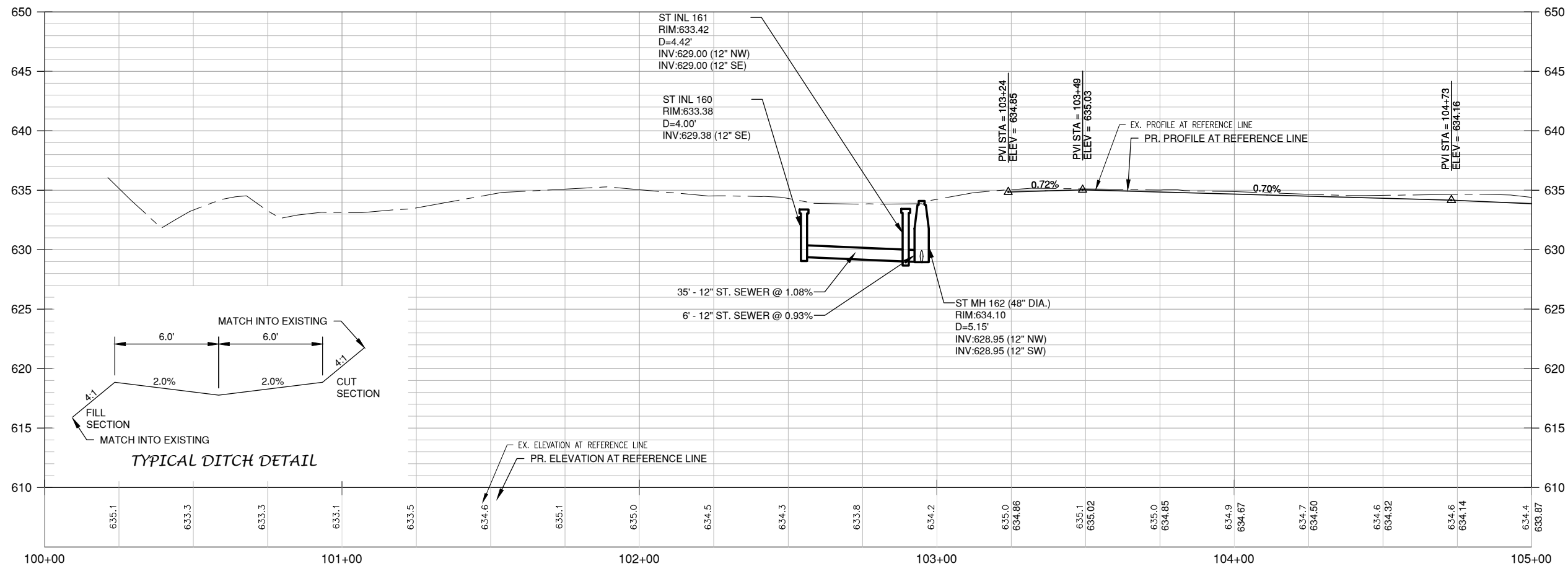
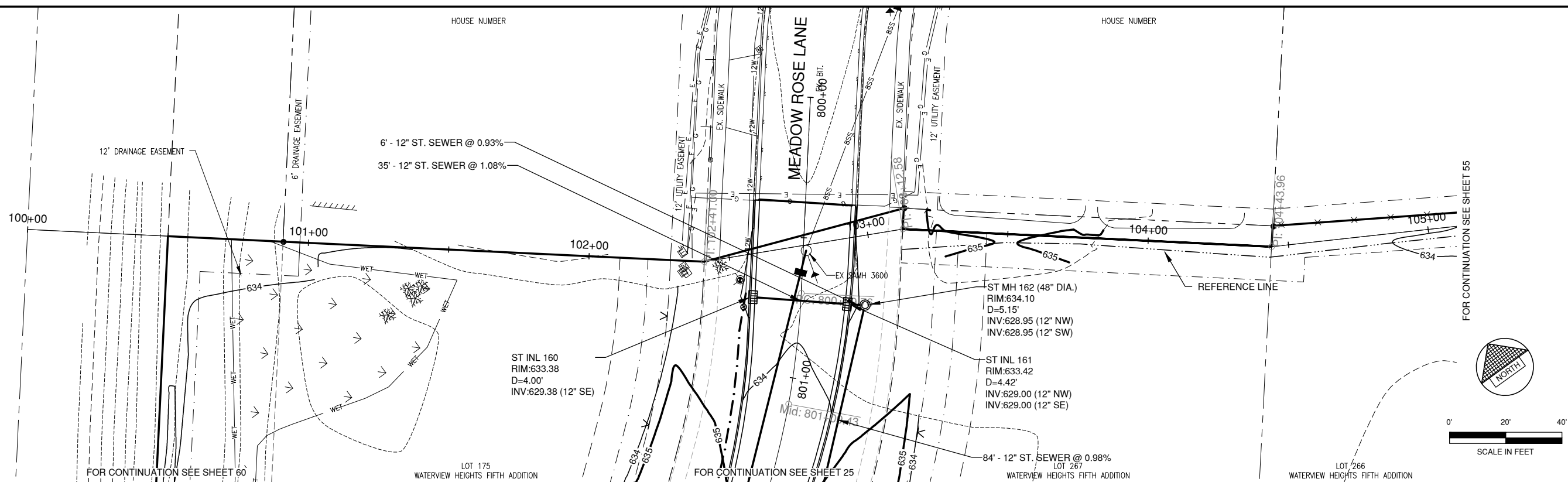
DATE
03/20/22
FILE
A_ALI03
JOB NO.
0404471

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BID SET
SHEET NO.
53

File: R:\0400\0404\0404.dwg
Plot Date: Jun 05, 2022 - 10:05am
LWS: AL-015

WISCONSIN CENTRAL LTD RAILROAD



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN LLP
CHECKED ---
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

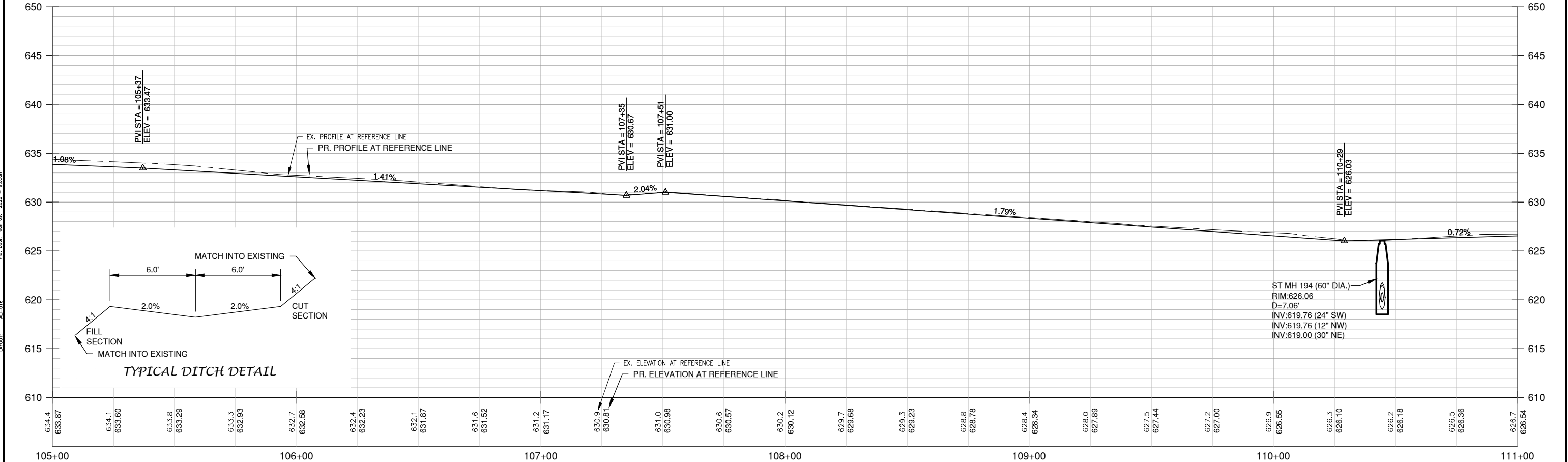
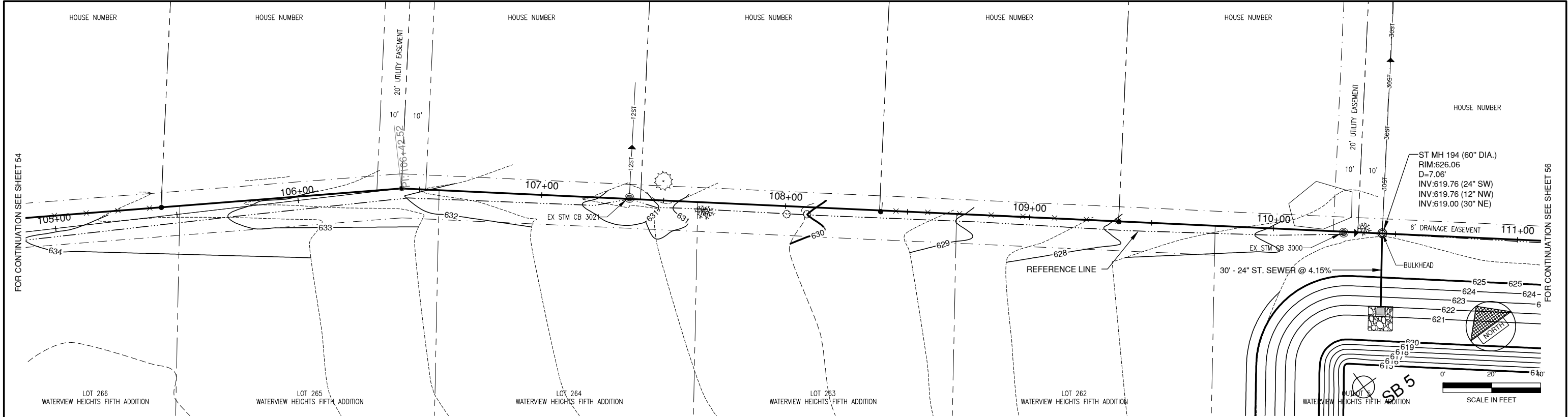
BACK PROPERTY LINE BETWEEN
CROSS GATE LANE AND ADDISON STREET
STA. 100+00 TO 105+00

DATE
03/20/22
FILE
A-ALL01
JOB NO.
0404471

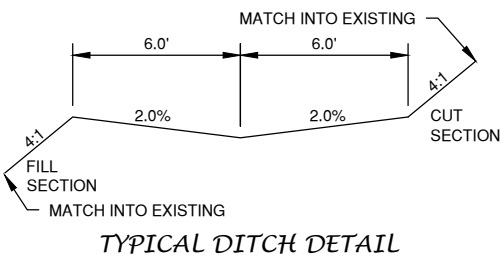
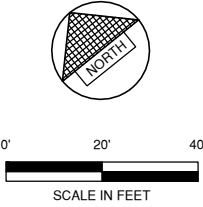


Robert E. Lee & Associates, Inc.
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BID SET
SHEET NO.
54



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN LLP	CONTRACT NO. 22-11 2022 UTILITY AND STREET CONSTRUCTION WATERVIEW HEIGHTS FIFTH ADDITION CITY OF DE PERE, BROWN COUNTY, WI	BACK PROPERTY LINE BETWEEN CROSS GATE LANE AND ADDISON STREET STA. 105+00 TO STA. 111+00	DATE 03/20/22 FILE A. ALL01 JOB NO. 0404471	 Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155 920-662-9641 www.releeinc.com	SHEET NO. 55
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								DESIGNED					
								BDR					

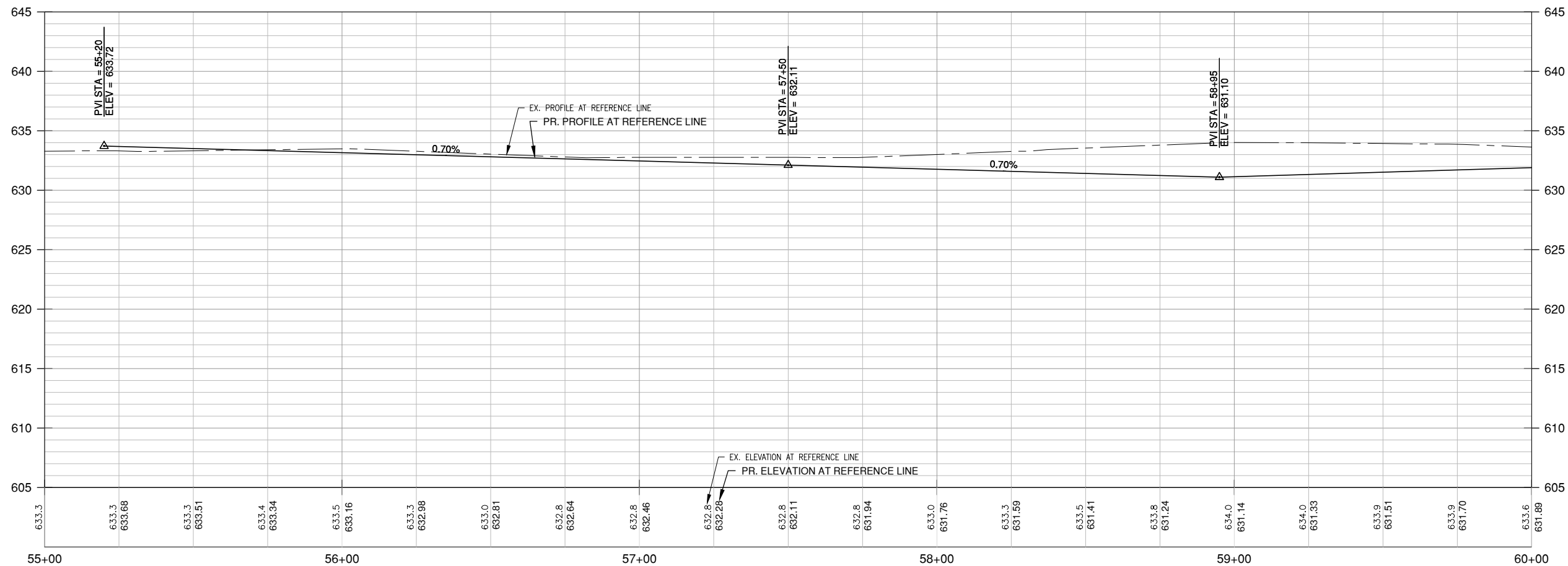
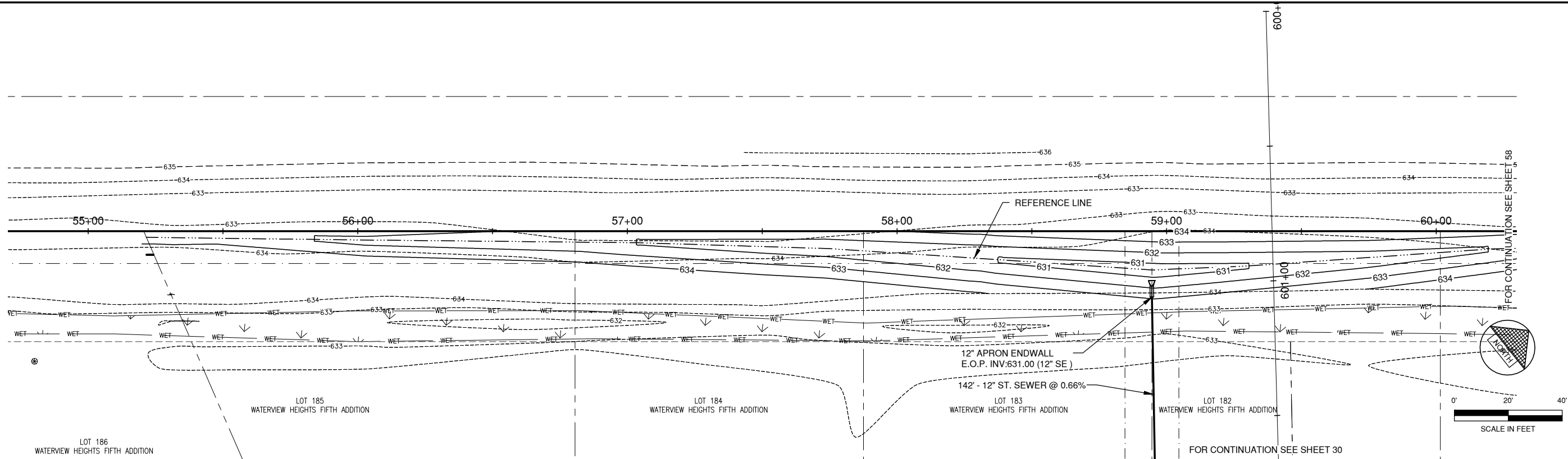


CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

DATE	03/2022
FILE	A ALI-01
JOB NO.	0404471

56

File: R:\0400\0404\0404.dwg
Plot Date: Jun 09, 2022 - 9:07 am
LAYOUT: ALJ-122



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN RLB
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

BACK PROPERTY LINE AT
WISCONSIN CENTRAL LTD. RAILROAD
STA. 55+00 TO STA. 60+00

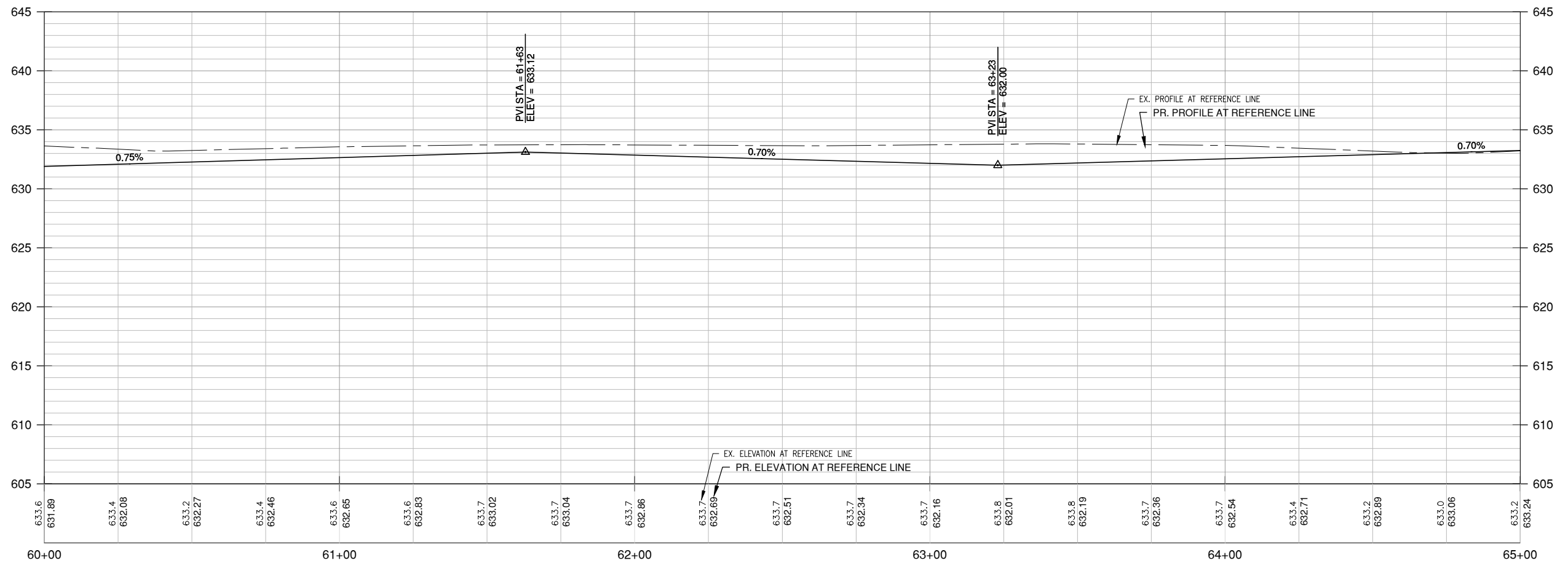
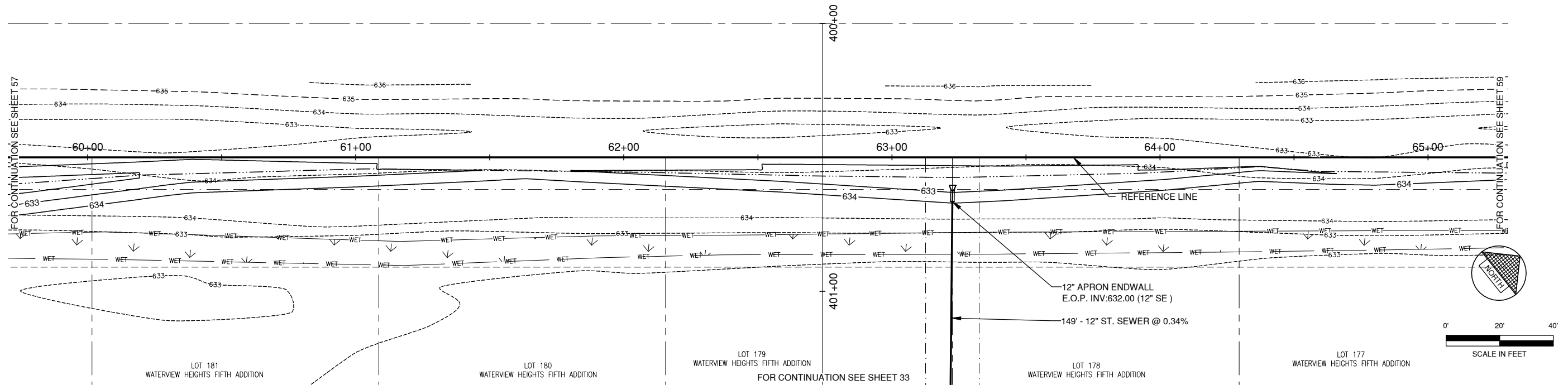
DATE
03/20/22
FILE
A-ALL12
JOB NO.
0404471



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BID SET
SHEET NO.
57

File: R:\0400\0404\0404471\0404471.dwg
Plot Date: Jun 09, 2022 10:00am
LAYOUT: ALJ-123



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN RLB
CHECKED ...
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

BACK PROPERTY LINE AT
WISCONSIN CENTRAL LTD. RAILROAD
STA. 55+00 TO STA. 60+00

DATE
03/20/22
FILE
A-ALL12
JOB NO.
0404471

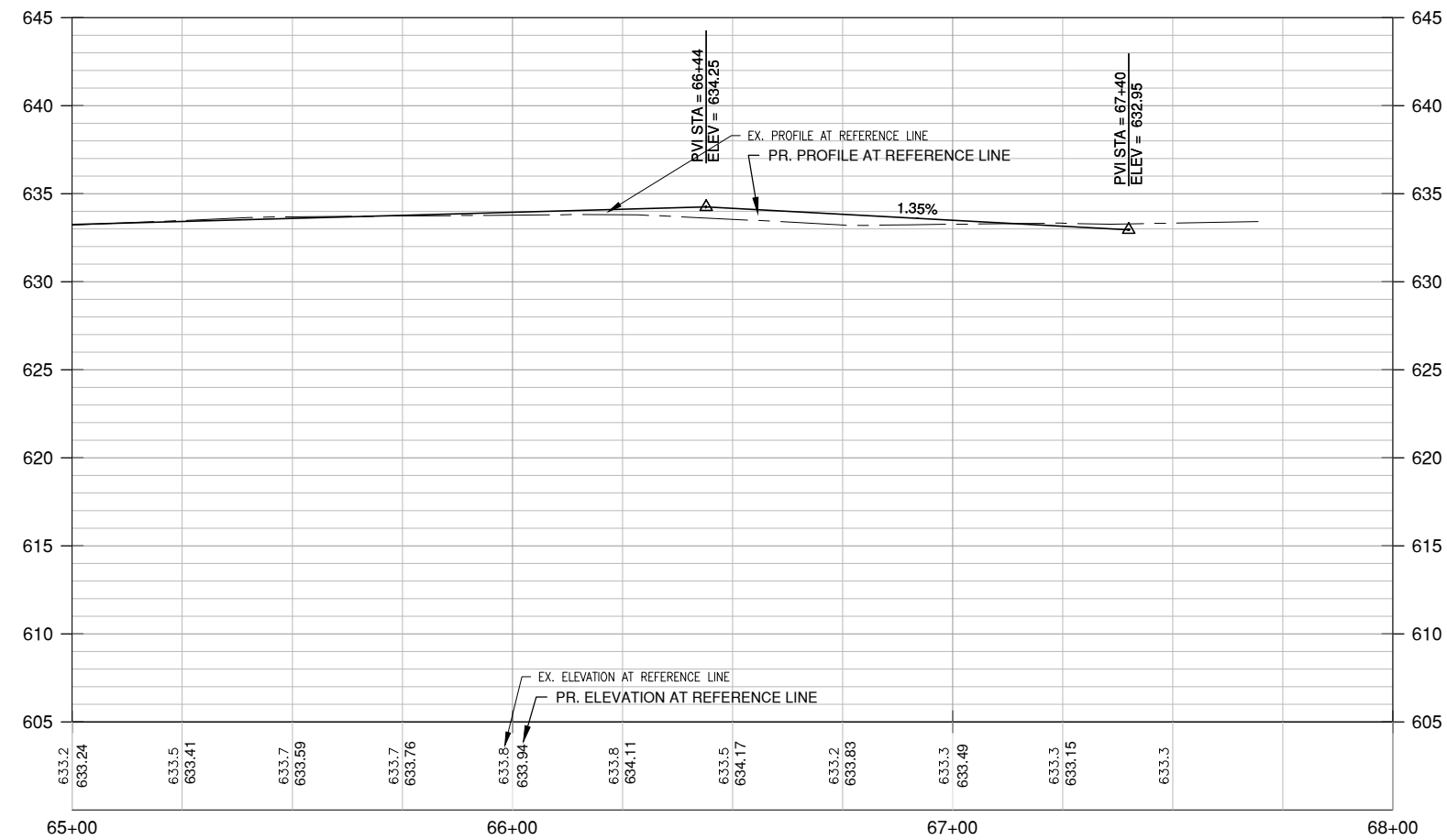
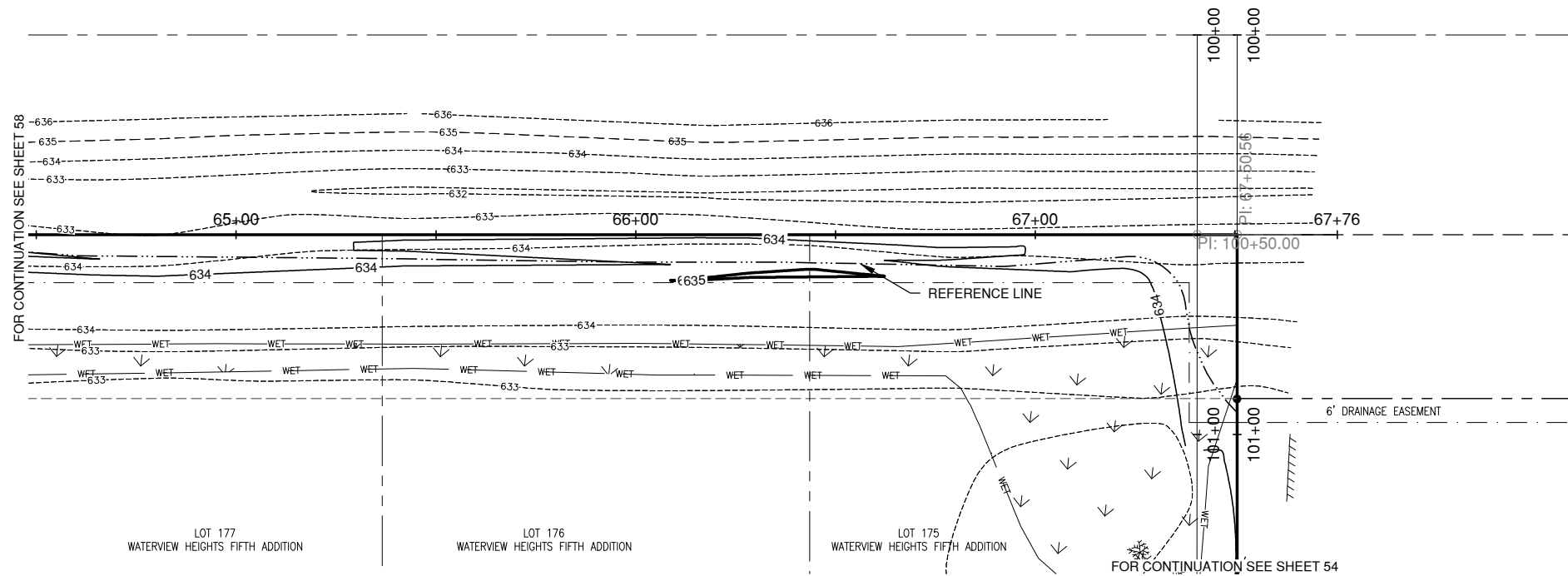


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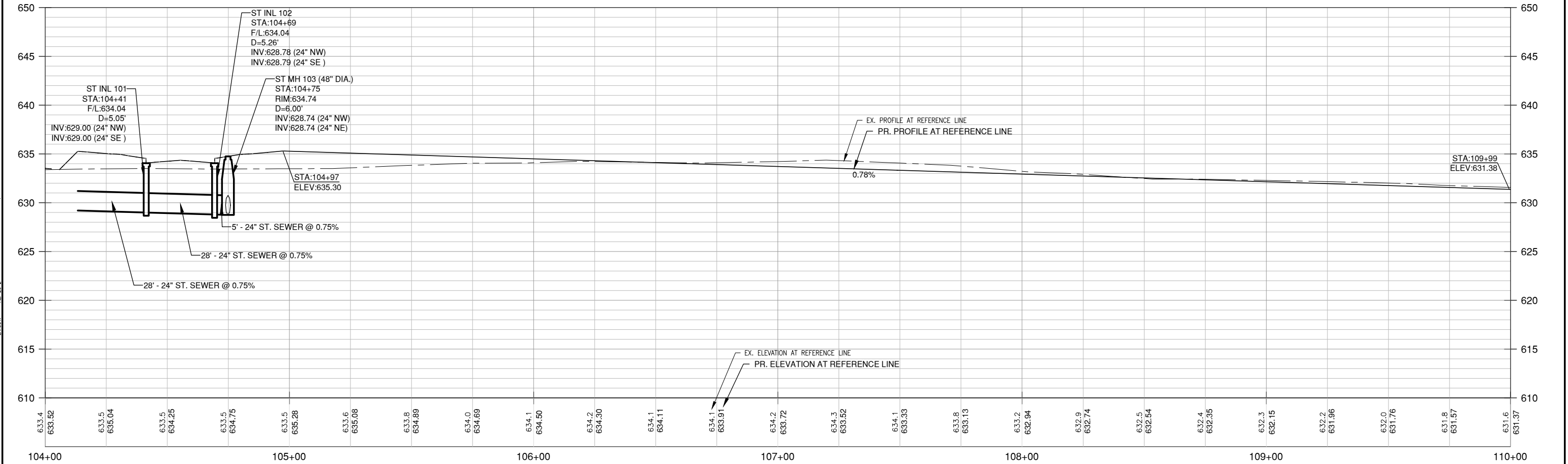
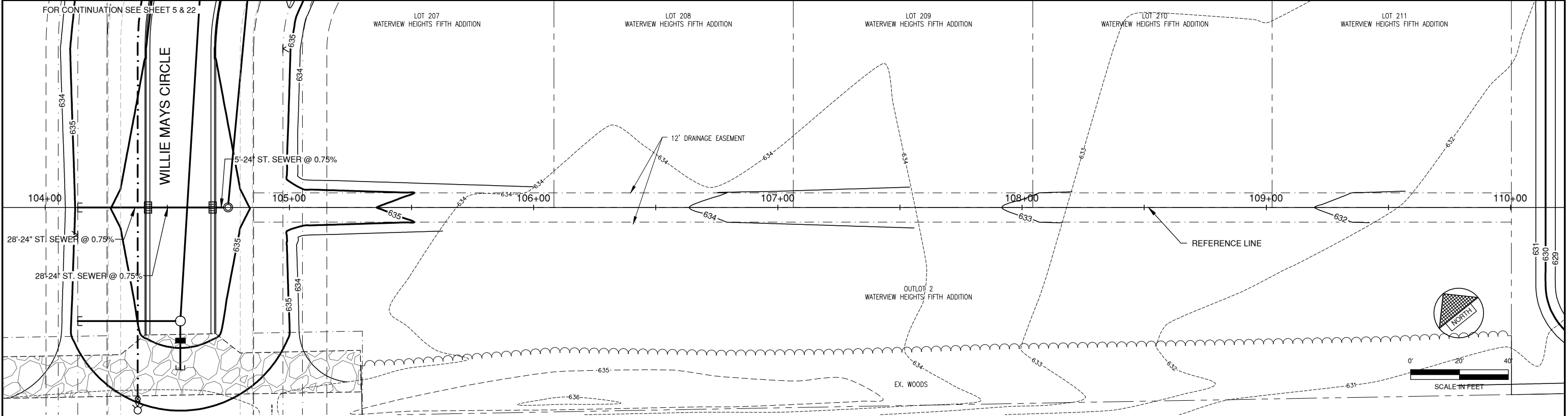
BID SET
SHEET NO.
58

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Plot Date: Jun 09, 2022 9:08am

Layout: A1-124



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN RLB	CONTRACT NO. 22-11 2022 UTILITY AND STREET CONSTRUCTION WATERVIEW HEIGHTS FIFTH ADDITION CITY OF DE PERE, BROWN COUNTY, WI	BACK PROPERTY LINE AT WISCONSIN CENTRAL LTD. RAILROAD STA. 65+00 TO STA. 68+00	DATE 03/20/22 FILE A-ALL12 JOB NO. 0404471	Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155 920-662-9641 www.releeinc.com	SHEET NO. 59
								CHECKED					
								DESIGNED					
								BDR					



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN LLP
CHECKED ---
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

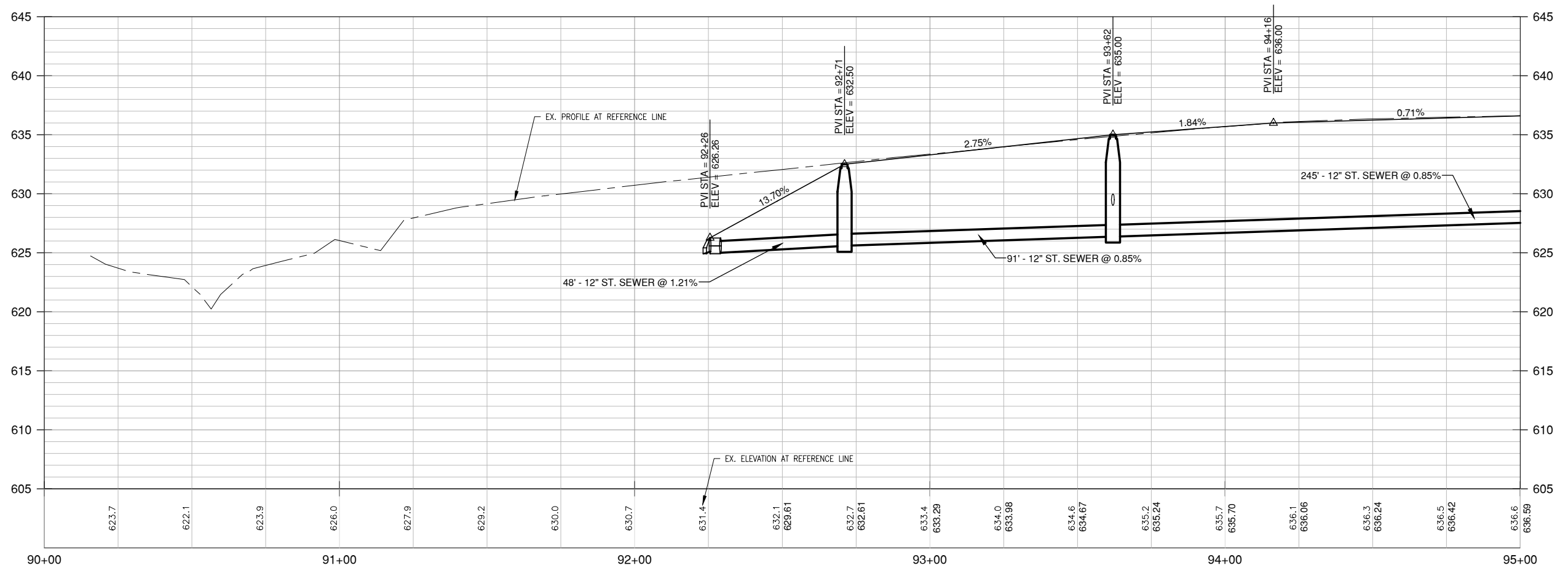
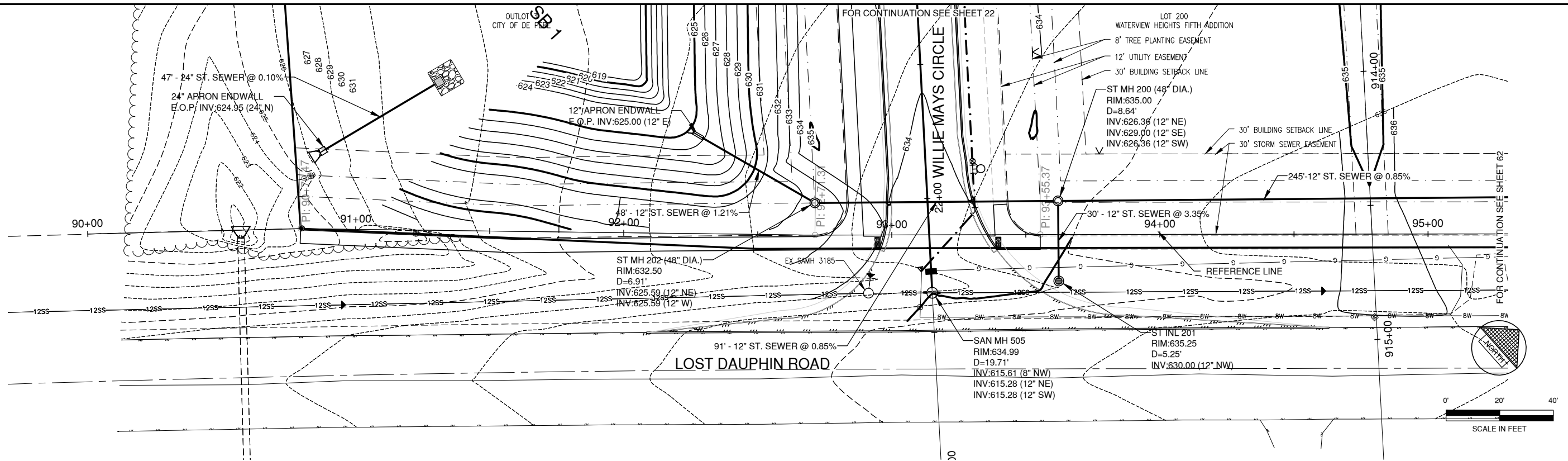
BACK PROPERTY LINE OF WILLIE MAYS CIRCLE
STA. 104+00 TO STA. 110+00

DATE 05/20/22
FILE A.ALI.20
JOB NO. 0404471

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BID SET
SHEET NO.
60

File: R:\0300\0404\0404.dwg
Plot Date: Jun 15, 2022 - 8:44 am
LW037: AJ-141



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN RLB
CHECKED ---
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CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

LOST DAUPHIN ROAD
STA. 90+00 TO STA. 95+00

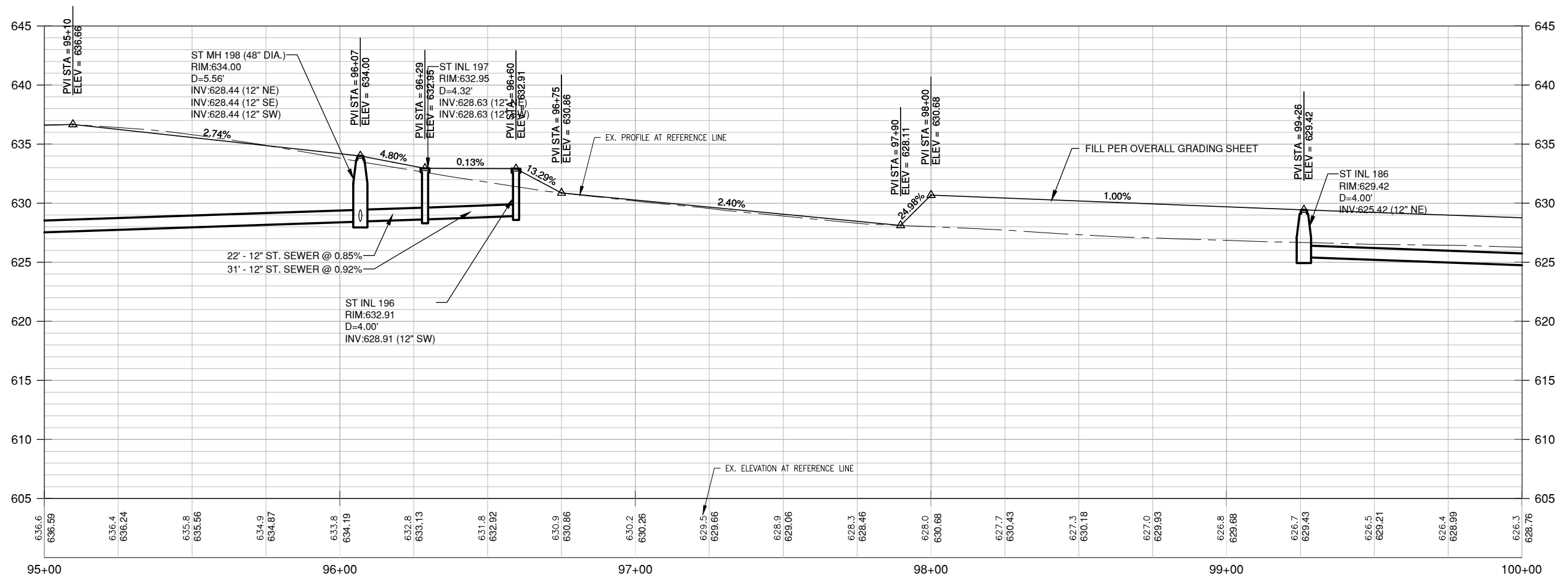
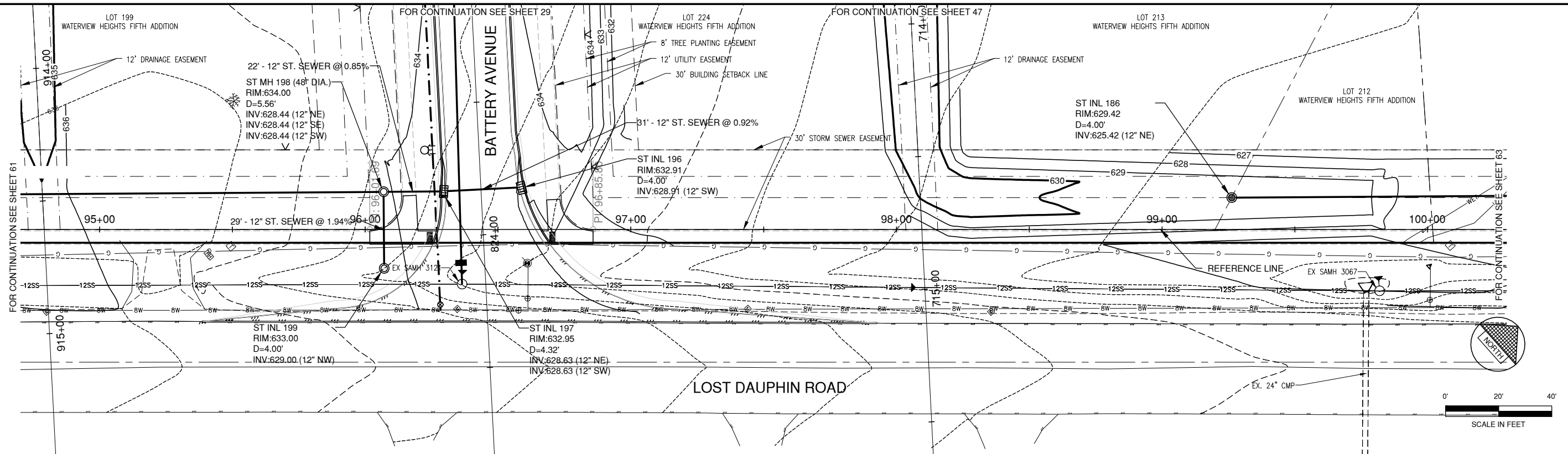
DATE
03/20/2022
FILE
A-ALL14
JOB NO.
0404471



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SHEET NO.
61

File: R:\0400\0404\0404.dwg
Plot Date: Jun 15, 2022 - 9:44 am
LW037: AJ-142



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN RLB
CHECKED ---
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

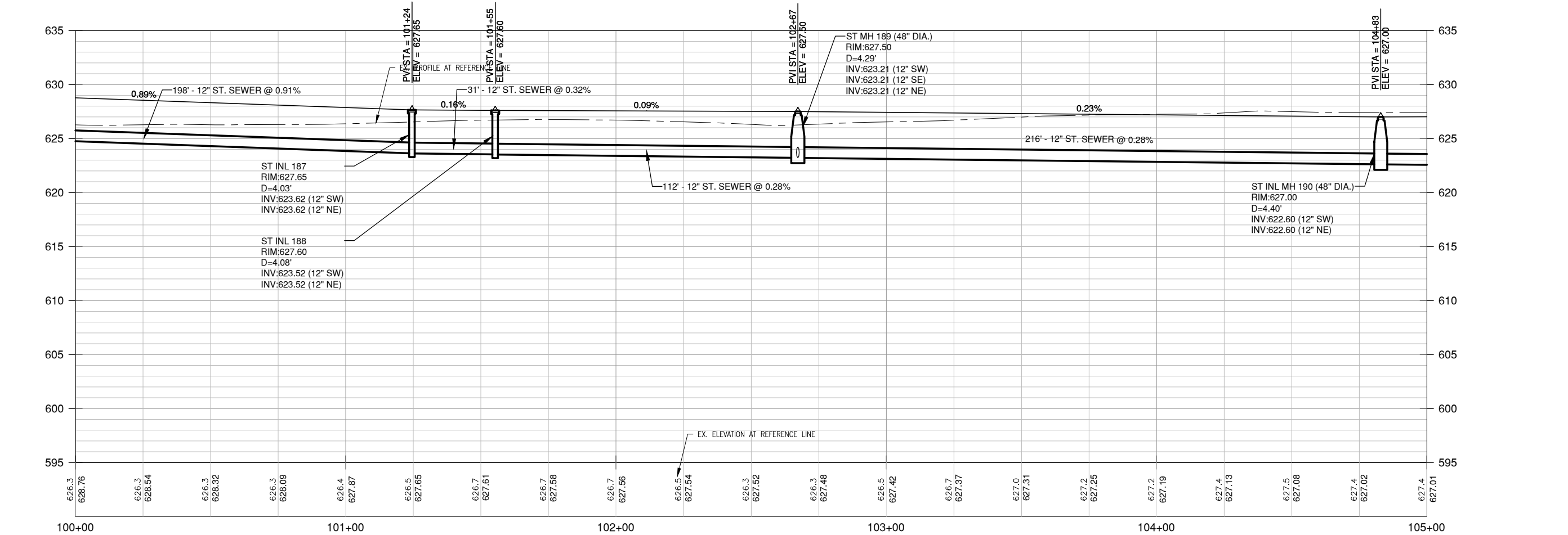
LOST DAUPHIN ROAD
STA. 95+00 TO STA. 100+00

DATE
03/20/2022
FILE
A-ALL-14
JOB NO.
0404471

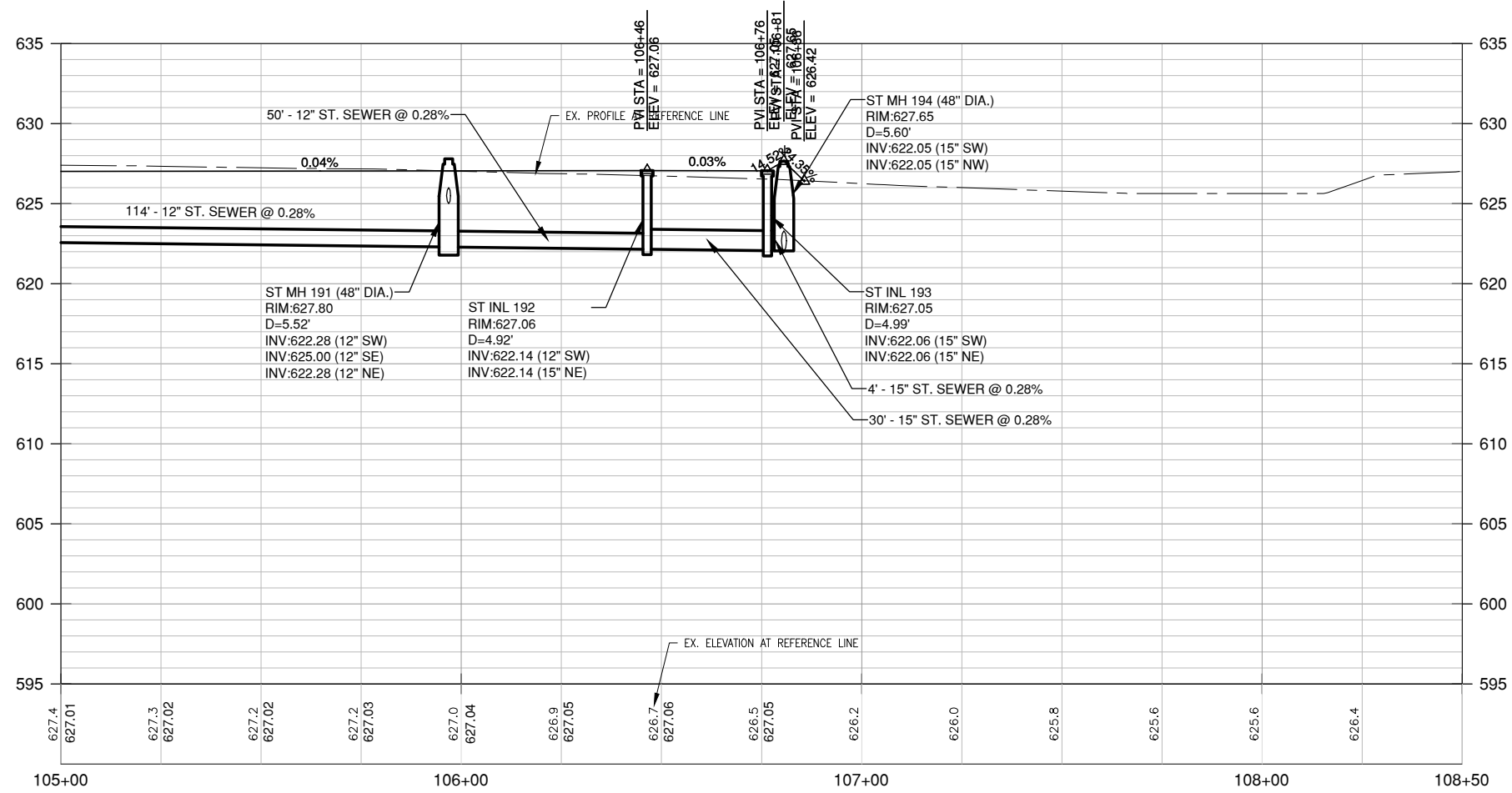
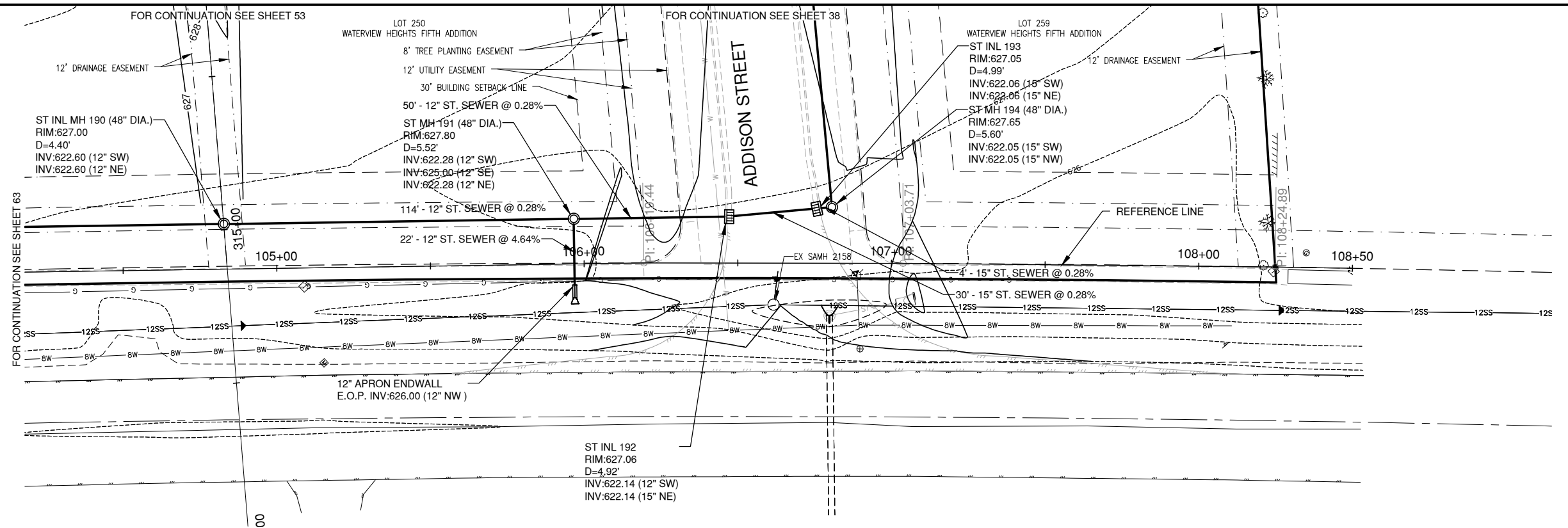


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SHEET NO.
62



SHEET NO.
63



File: R:\0400\0404\0404.dwg
Plot Date: Jun 15, 2022 - 9:45am
LWJ:JF
AJ-144

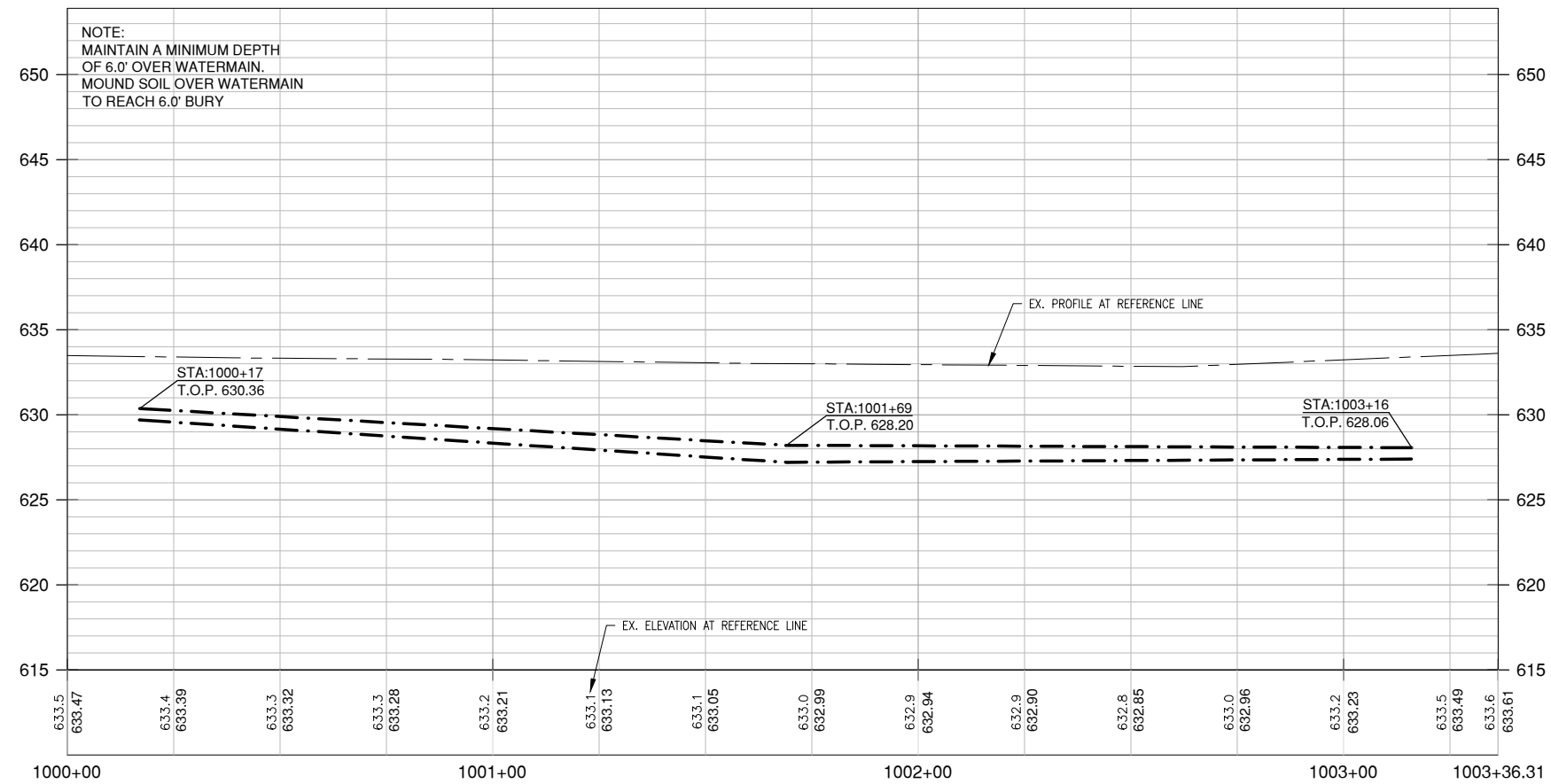
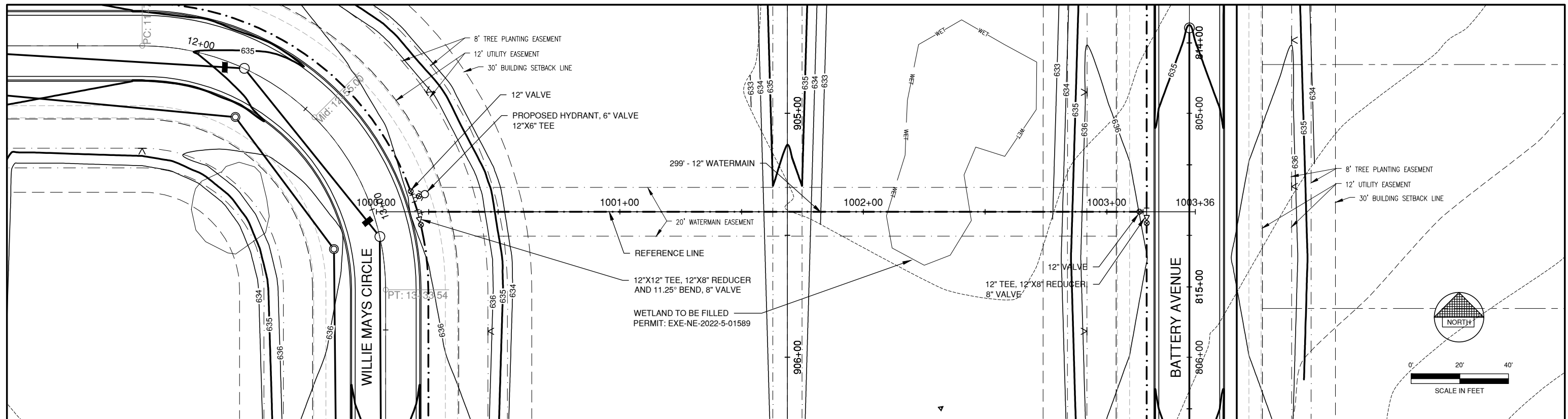
NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN
								RLB
								CHECKED
								DESIGNED
								BDR


CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

LOST DAUPHIN ROAD
STA. 105+00 TO STA.108+50

DATE
03/20/22
FILE
A-ALL-14
JOB NO.
0404471

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NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN BDR	CONTRACT NO. 22-11 2022 UTILITY AND STREET CONSTRUCTION WATERVIEW HEIGHTS FIFTH ADDITION CITY OF DE PERE, BROWN COUNTY, WISCONSIN	WATERMAIN BETWEEN WILLIE MAYS CIRCLE AND BATTERY AVENUE STA. 1000+00 TO STA. 1003+36	DATE 07/2021	 Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155 920-662-9641 www.releeinc.com	SHEET NO.
								CHECKED BBBB			FILE A-WM BW WMC AND BATTERY		65
								DESIGNED BDR			JOB NO. 0404471		

File: R:\0400\0404\0404471\dwg\A_Storm bw WMC Battery.dwg
Plot Date: Jun 09, 2022 - 2:50pm

LAYOUT: 01

ST INL MH 114 (60" DIA.)
RIM:634.08
D=7.94'
INV:626.14 (36" NE)
INV:626.14 (36" SW)

ST MH 106 (72" DIA.)
RIM:634.78
D=8.66'
INV:626.13 (24" NW)
INV:626.13 (36" NE)
INV:626.13 (36" SE)

5' - 36" ST. SEWER @ 0.32%
28' - 36" ST. SEWER @ 0.32%

ST INL MH 115 (60" DIA.)
RIM:634.08
D=7.85'
INV:626.23 (36" NE)
INV:626.23 (36" SW)

ST INL MH 116 (60" DIA.)
RIM:633.44
D=6.72'
INV:626.72 (36" NE)
INV:626.72 (36" SW)

ST INL MH 117 (60" DIA.)
RIM:634.13
D=6.93'
INV:627.20 (36" NE)
INV:627.20 (36" SW)

28' - 36" ST. SEWER @ 0.32%

8' TREE PLANTING EASEMENT
12' UTILITY EASEMENT
30' BUILDING SETBACK LINE

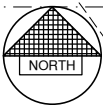
SAN MH 507
RIM:634.68
D=10.61'
INV:624.07 (8" NW)
INV:624.07 (8" SE)

ST INL MH 118 (60" DIA.)
RIM:634.13
D=6.84'
INV:627.29 (36" NE)
INV:627.29 (36" SW)

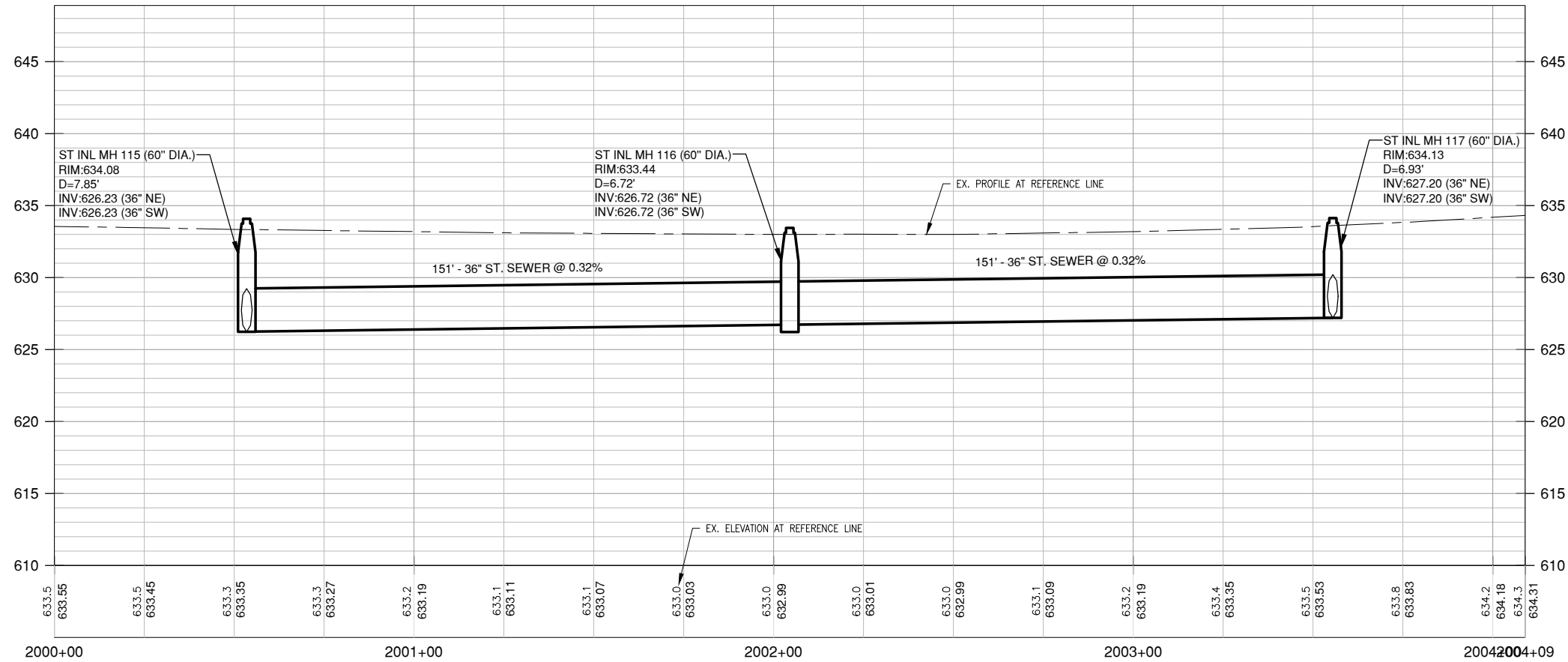
ST MH 119 (60" DIA.)
RIM:634.83
D=7.52'
INV:627.31 (24" SE)
INV:627.31 (30" NW)
INV:627.31 (36" SW)

ST MH 148 (60" DIA.)
RIM:635.09
D=7.64'
INV:627.45 (18" NE)
INV:628.45 (12" SE)
INV:627.45 (24" NW)

146' - 18" ST. SEWER @ 0.32%



0' 20' 40'
SCALE IN FEET



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN BDR
CHECKED BBB
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WISCONSIN

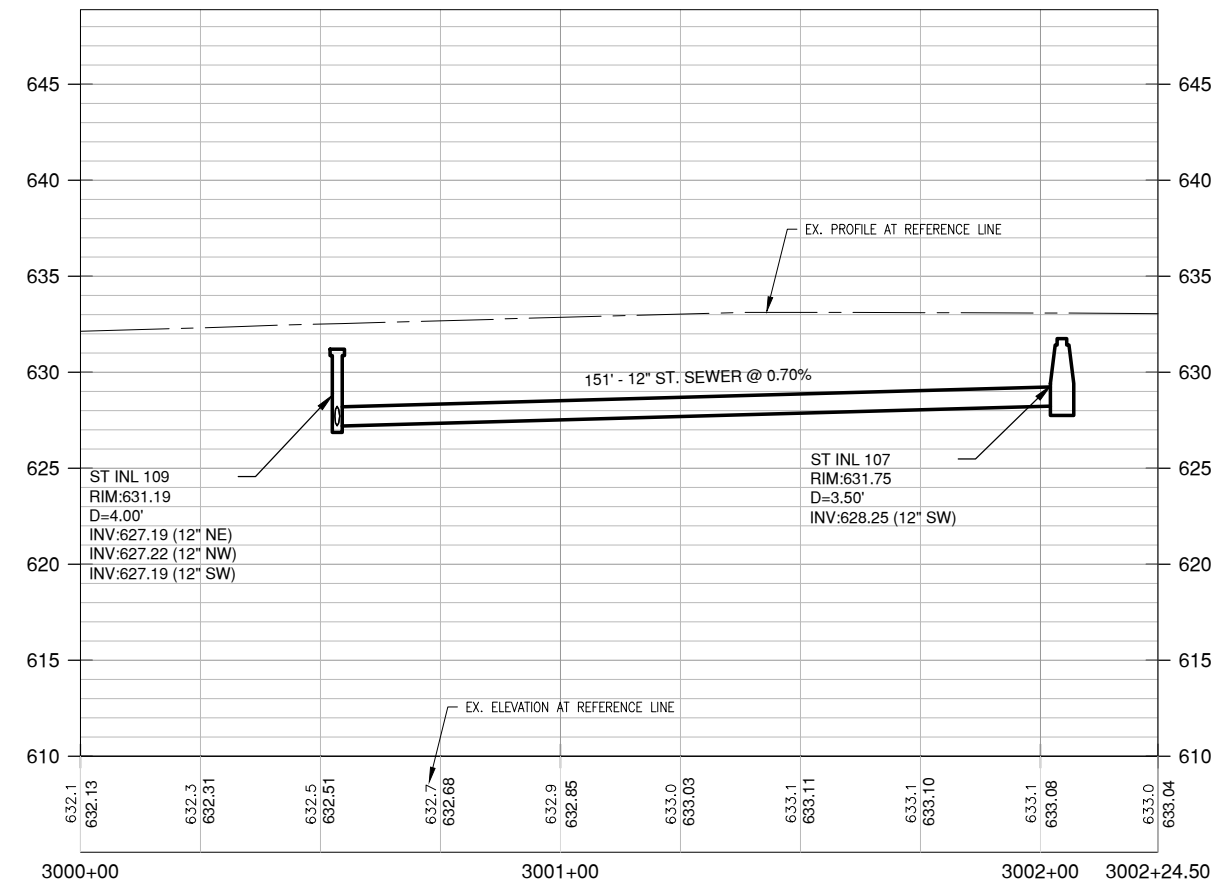
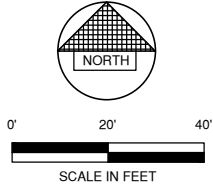
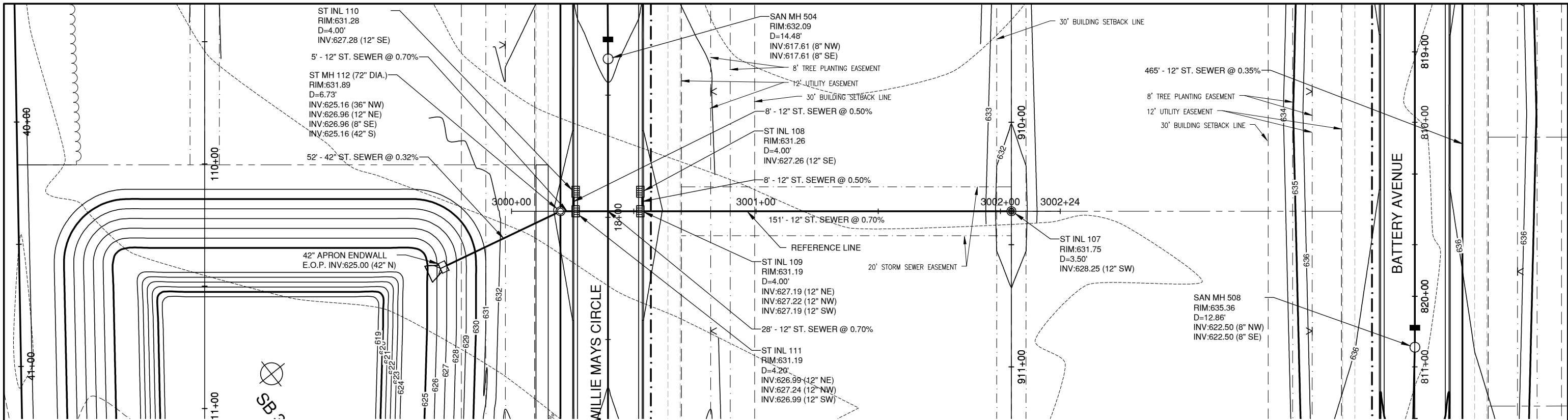
STORM SEWER BETWEEN
WILLIE MAYS CIRCLE AND BATTERY AVENUE
STA. 2000+00 TO STA. 2004+09

DATE
07/20/21
FILE
A_STORM BW WMC BATTERY
JOB NO.
0404471

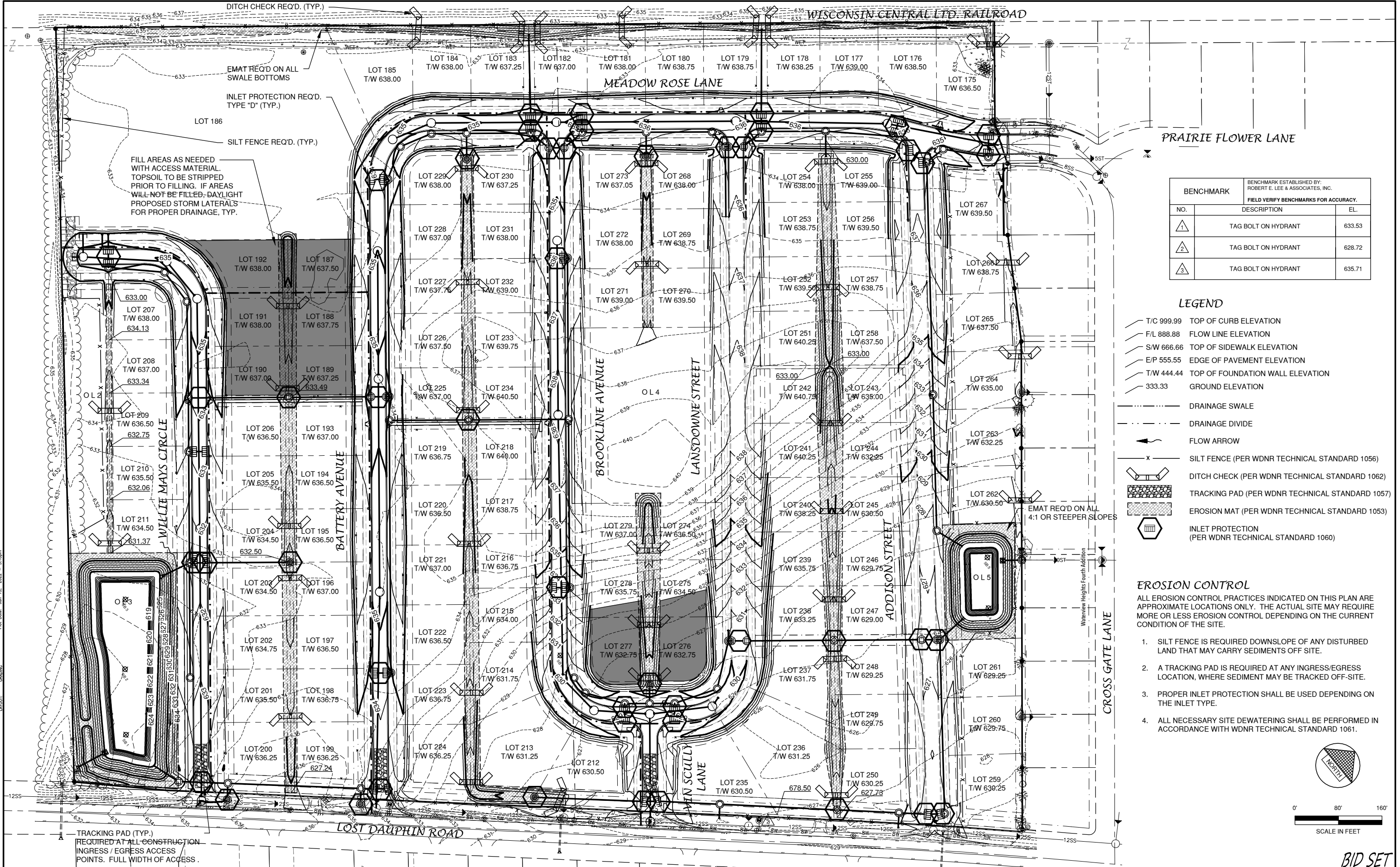
Robert E. Lee & Associates, Inc.
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SHEET NO.
66

File: R:\0400\0404\0404471\dwg\A Storm bw WMC backyard.dwg
Plot Date: Jun 09, 2022 - 10:00am
LWG:R: 01



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN BDR	CONTRACT NO. 22-11 2022 UTILITY AND STREET CONSTRUCTION WATERVIEW HEIGHTS FIFTH ADDITION CITY OF DE PERE, BROWN COUNTY, WISCONSIN	STORM SEWER BETWEEN WILLIE MAYS CIRCLE AND BACKYARD TO EAST STA. 3000+00 TO STA. 3002+24.50	DATE 07/20/21 FILE A STORM BW WMC BACKYARD JOB NO. 0404471	Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155 920-662-9641 www.releeinc.com	SHEET NO. 67
								CHECKED BBB					
								DESIGNED BDR					



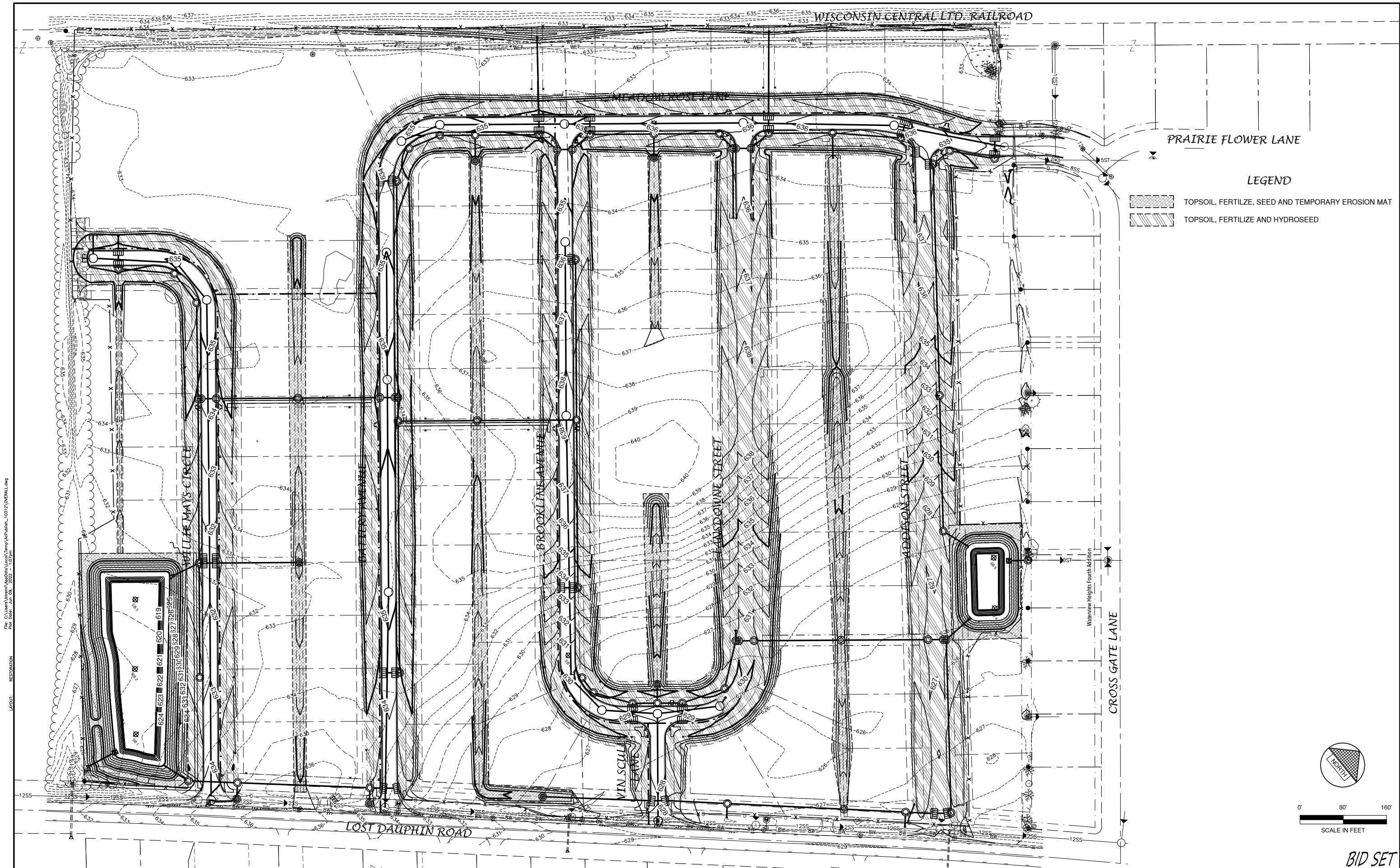
BENCHMARK		
BENCHMARK ESTABLISHED BY: ROBERT E. LEE & ASSOCIATES, INC. FIELD VERIFY BENCHMARKS FOR ACCURACY.		
NO.	DESCRIPTION	EL.
1	TAG BOLT ON HYDRANT	633.53
2	TAG BOLT ON HYDRANT	628.72
3	TAG BOLT ON HYDRANT	635.71

LEGEND

- T/C 999.99 TOP OF CURB ELEVATION
- F/L 888.88 FLOW LINE ELEVATION
- S/W 666.66 TOP OF SIDEWALK ELEVATION
- E/P 555.55 EDGE OF PAVEMENT ELEVATION
- T/W 444.44 TOP OF FOUNDATION WALL ELEVATION
- 333.33 GROUND ELEVATION
- DRAINAGE SWALE
- DRAINAGE DIVIDE
- FLOW ARROW
- SILT FENCE (PER WDNR TECHNICAL STANDARD 1056)
- DITCH CHECK (PER WDNR TECHNICAL STANDARD 1062)
- TRACKING PAD (PER WDNR TECHNICAL STANDARD 1057)
- EROSION MAT (PER WDNR TECHNICAL STANDARD 1053)
- INLET PROTECTION (PER WDNR TECHNICAL STANDARD 1060)

EROSION CONTROL

- ALL EROSION CONTROL PRACTICES INDICATED ON THIS PLAN ARE APPROXIMATE LOCATIONS ONLY. THE ACTUAL SITE MAY REQUIRE MORE OR LESS EROSION CONTROL DEPENDING ON THE CURRENT CONDITION OF THE SITE.
- SILT FENCE IS REQUIRED DOWNSLOPE OF ANY DISTURBED LAND THAT MAY CARRY SEDIMENTS OFF SITE.
 - A TRACKING PAD IS REQUIRED AT ANY INGRESS/EGRESS LOCATION, WHERE SEDIMENT MAY BE TRACKED OFF-SITE.
 - PROPER INLET PROTECTION SHALL BE USED DEPENDING ON THE INLET TYPE.
 - ALL NECESSARY SITE DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061.



File: C:\Users\blm\MapInfo\LocalTemp\MapInfo_10312\OVERALL.dwg
Plot Date: Jun 09, 2022 - 1:07pm
LAWYER: RESTORATION

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN BDR
CHECKED ---
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WISCONSIN

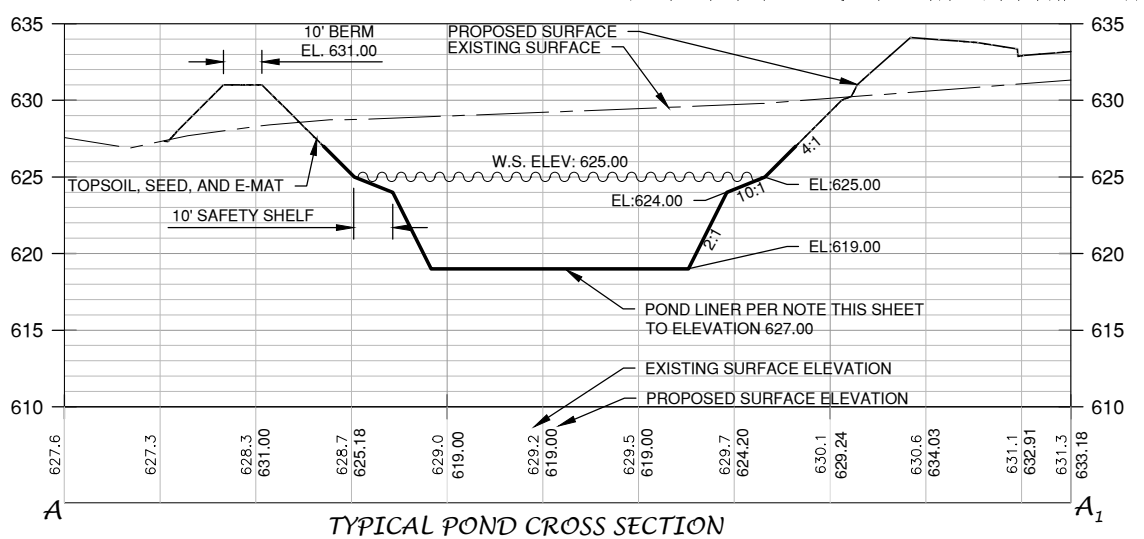
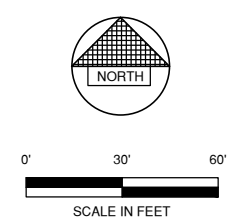
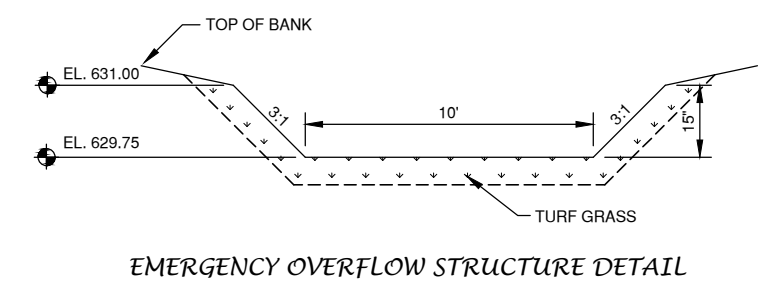
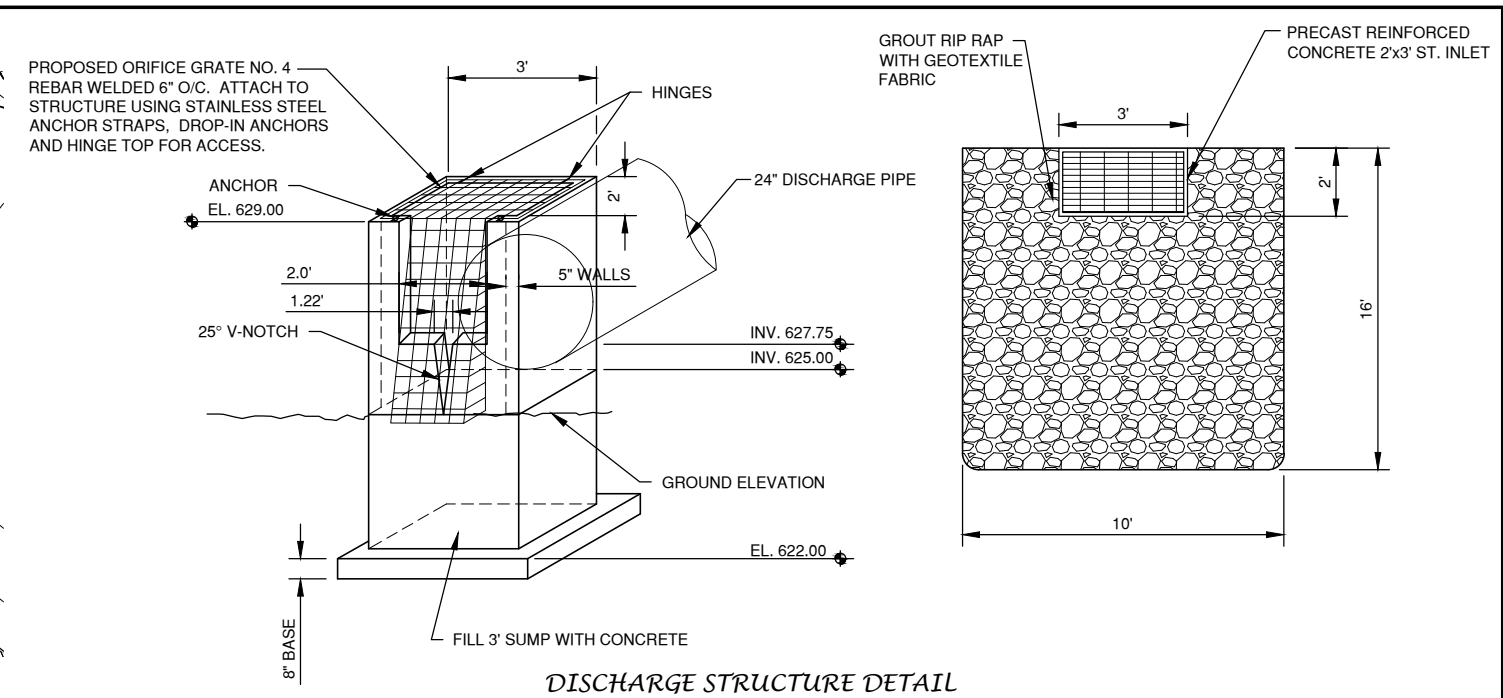
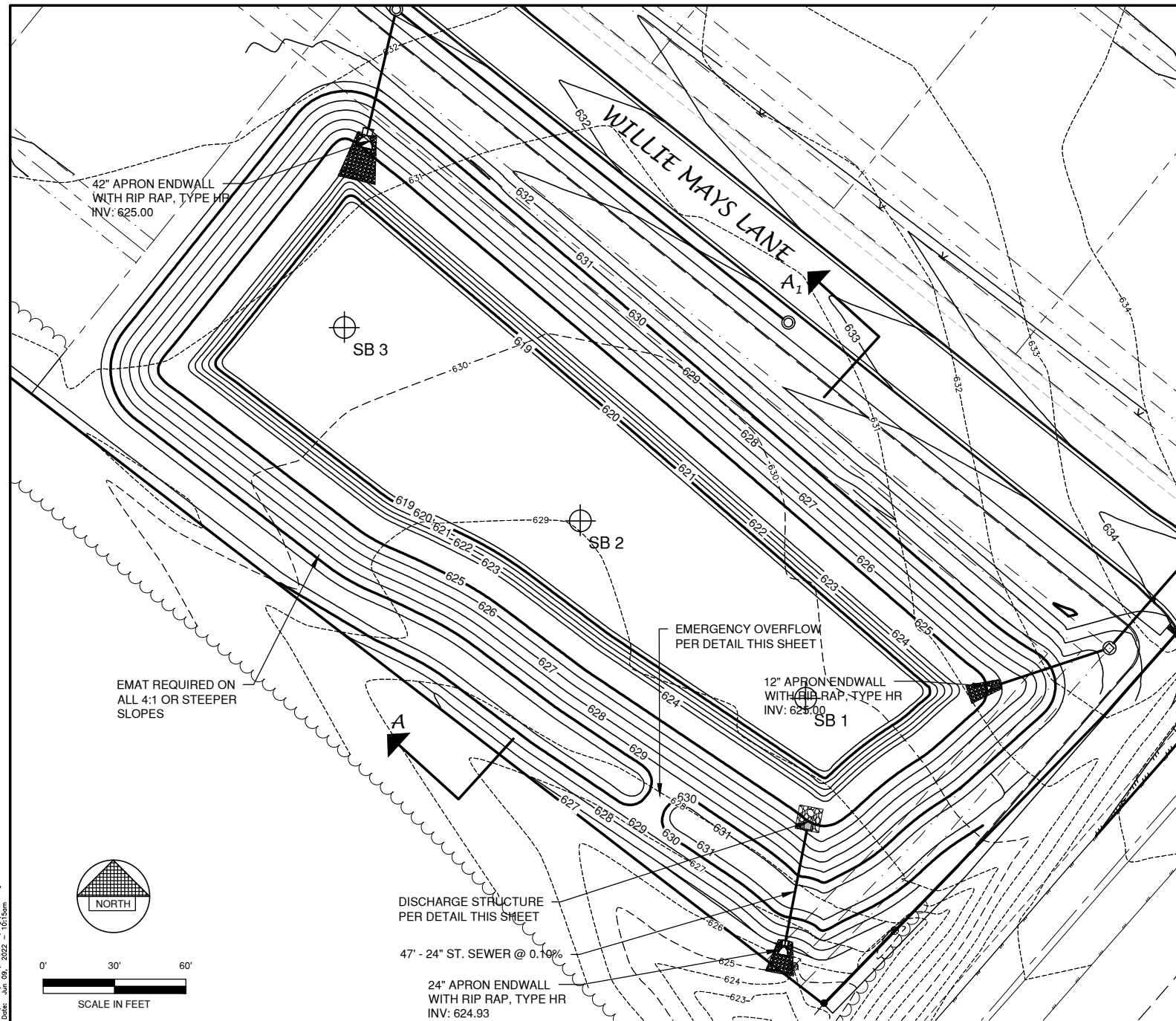
RESTORATION PLAN

DATE 05/20/22
FILE OVERALL
JOB NO. 0404472



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File: R:\0400\0404\0404471\WV\WPOND.dwg
Pld: User - Jun 05, 2022 - 10:15am
LAYOUT: WEST POND



POND FLOOD ELEVATION SUMMARY

YEAR STORM	PEAK WATER SURFACE ELEVATION
1-YEAR	626.57
2-YEAR	626.91
10-YEAR	628.27
100-YEAR	629.66

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN BDR
								CHECKED BBB
								DESIGNED BDR

CONTRACT NO. 0404-22-XX
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

WEST POND PLAN AND DETAILS

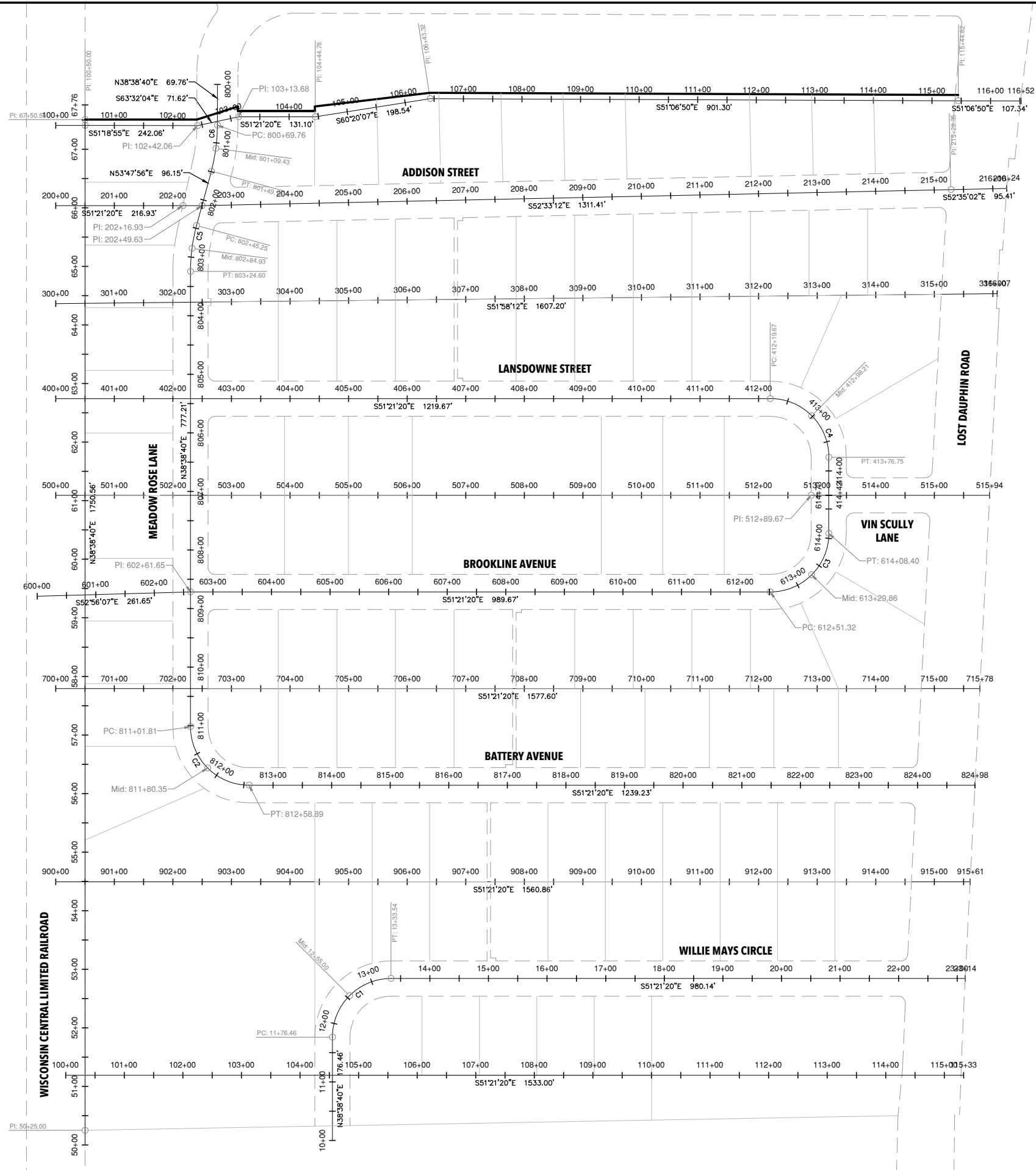
DATE	04/20/22
FILE	POND
JOB NO.	0404471



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File: R:\0400\0404\0404471\0404471 ALIGN.dwg
Plot Date: Jun 05, 2022 10:23am

USER: 11X17
LAWYR:



Curve Table						
Curve #	Delta	Radius	Length	Chord Direction	Chord Length	Tangent Bearing
C1	90°00'00"	100.00'	157.08'	S83°38'40"W	141.42'	N51°21'20"W
C2	90°00'00"	100.00'	157.08'	S06°21'20"E	141.42'	S38°38'40"W
C3	90°00'00"	100.00'	157.08'	N83°38'40"E	141.42'	S51°21'20"E
C4	90°00'00"	100.00'	157.08'	N06°21'20"W	141.42'	N38°38'40"E
C5	15°09'16"	300.00'	79.35'	S46°13'18"W	79.12'	S53°47'56"W
C6	15°09'16"	300.00'	79.35'	N46°13'18"E	79.12'	N53°47'56"E



NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN LLP
CHECKED ---
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

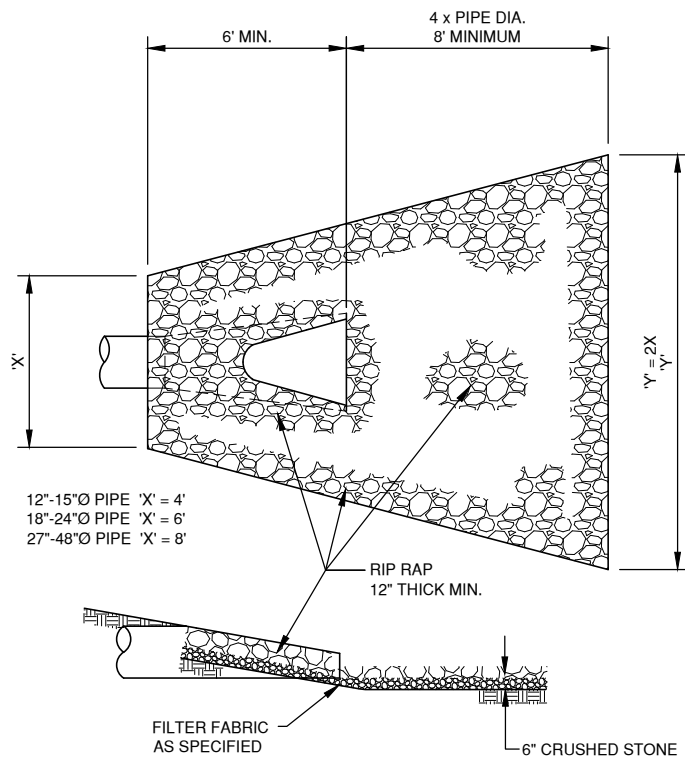
ALIGNMENT PLAN

DATE 06/20/2022
FILE 0404471 ALIGN
JOB NO. 0404471

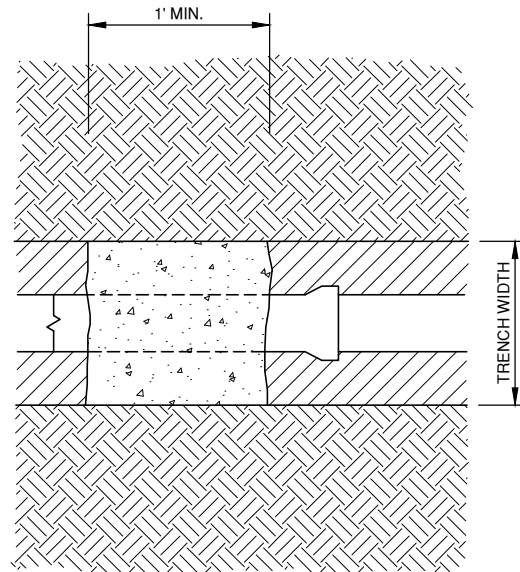


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BID SET
SHEET NO.
76

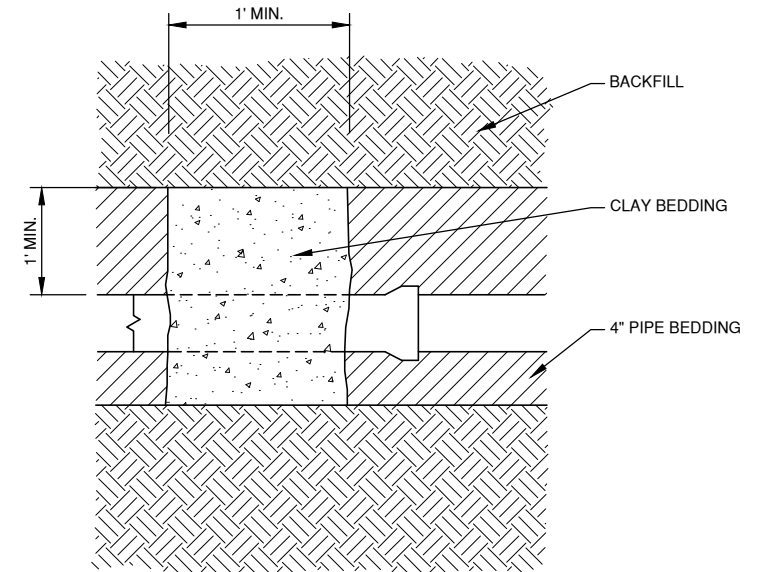


ENDWALL RIP RAP DETAIL

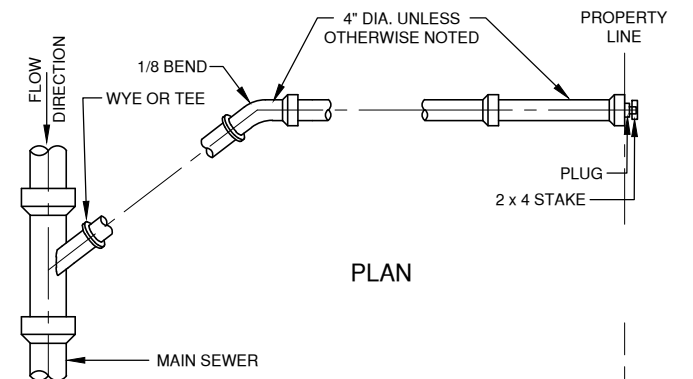


PLAN

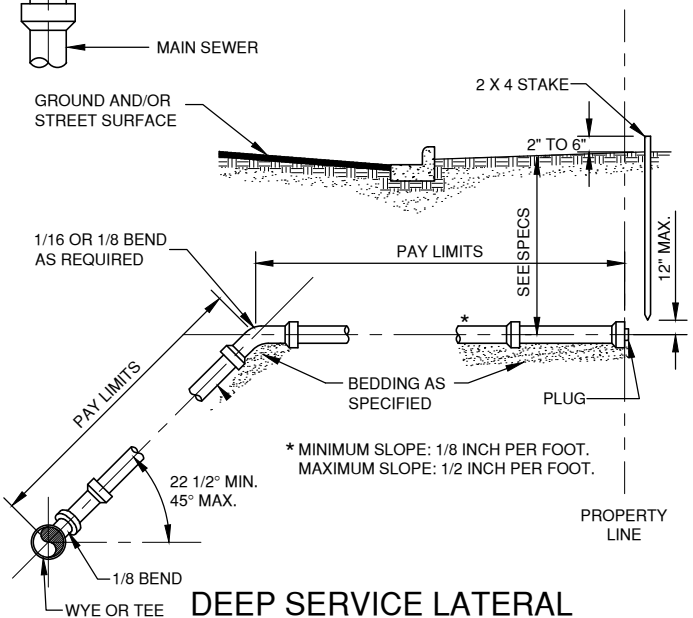
CLAY DAM DETAIL



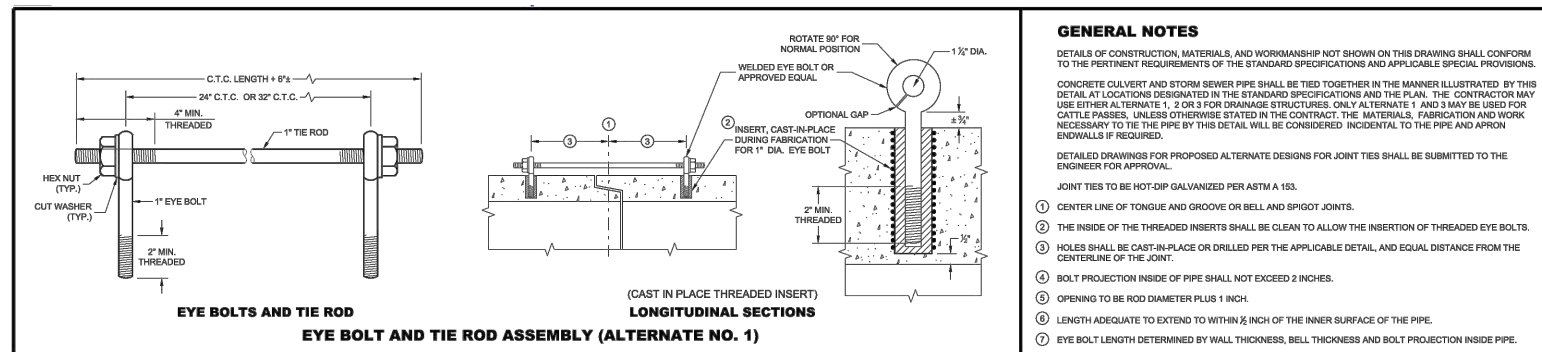
SIDE VIEW



PLAN



DEEP SERVICE LATERAL



GENERAL NOTES

- DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.
- CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.
- DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.
- CENTER LINE OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
 - THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
 - HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.
 - BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
 - OPENING TO BE ROD DIAMETER PLUS 1 INCH.
 - LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.
 - EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

FILE: R:\0400\0404\0404471\Drawings\DETAILS.dwg
Plot Date: Jun 16, 2022 - 7:25am
LAYOUT: DETAILS (1)

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN JMS
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								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

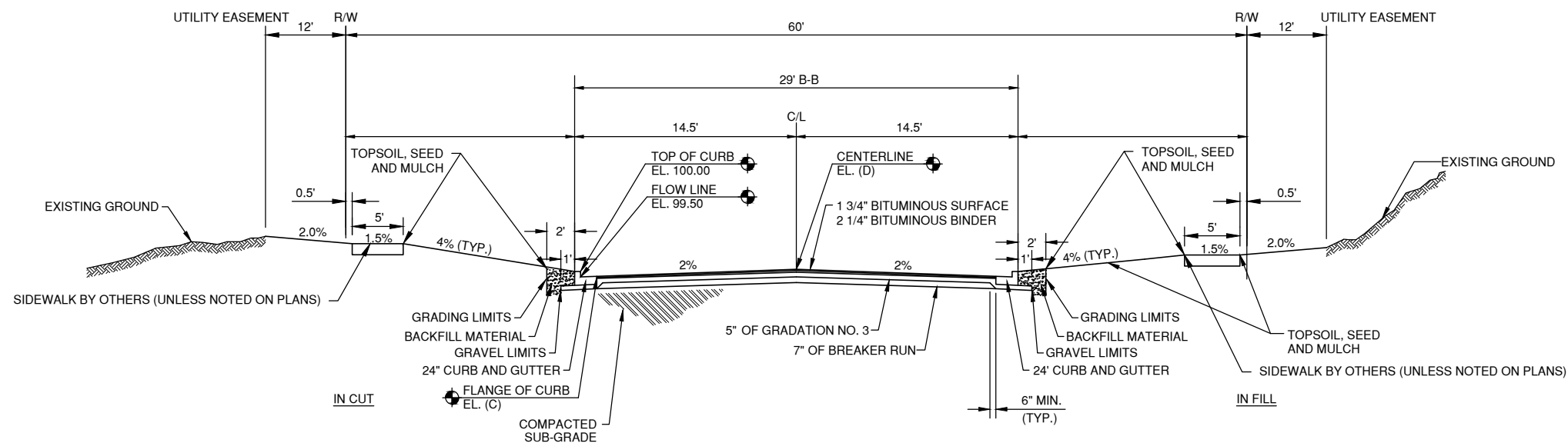
MISCELLANEOUS DETAILS

DATE
04/20/22
FILE
DETAILS
JOB NO.
0404471



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SHEET NO.
77



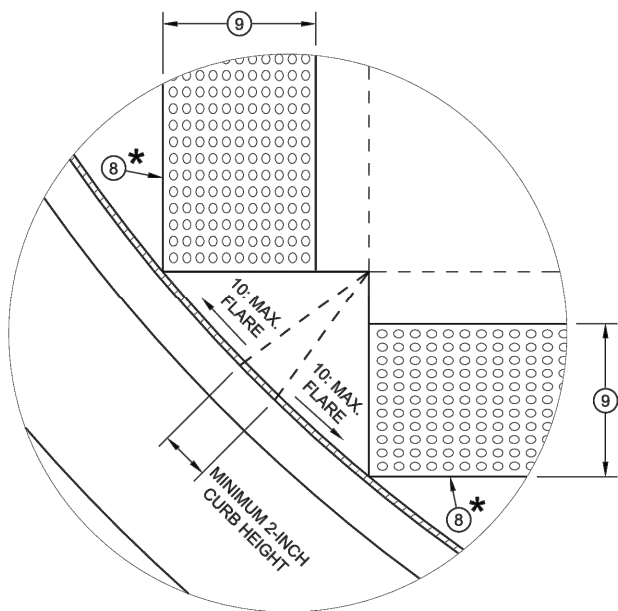
TYPICAL URBAN STREET CROSS SECTION

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 Plot Date: Jun 09, 2022 - 11:40am
 Layout: DETAILS (4)

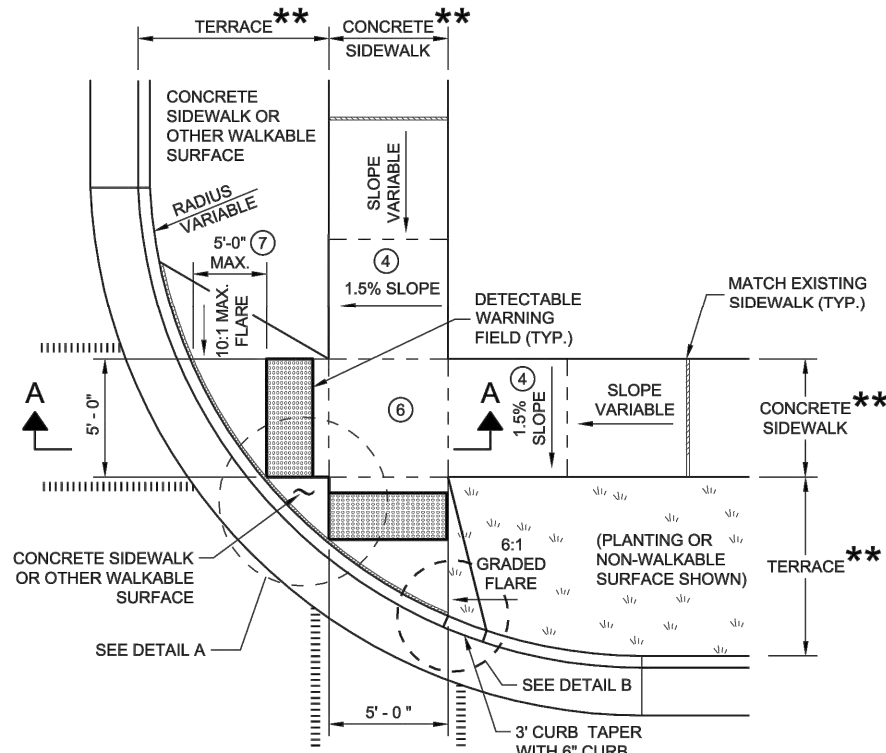
NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN JMS	CONTRACT NO. 22-11	MISCELLANEOUS DETAILS	DATE 04/20/22	Robert E. Lee & Associates, Inc.	SHEET NO.
								CHECKED ---	2022 UTILITY AND STREET CONSTRUCTION		FILE DETAILS	ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES	78
								DESIGNED BDR	WATERVIEW HEIGHTS FIFTH ADDITION		JOB NO. 0404471	1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155	
									CITY OF DE PERE, BROWN COUNTY, WI			920-662-9641 www.releeinc.com	

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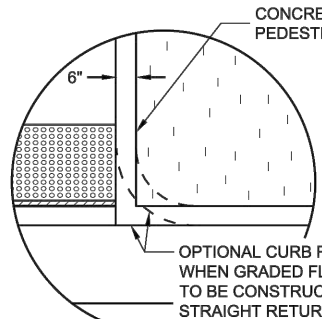
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LAYOUT: DETAILS (3)



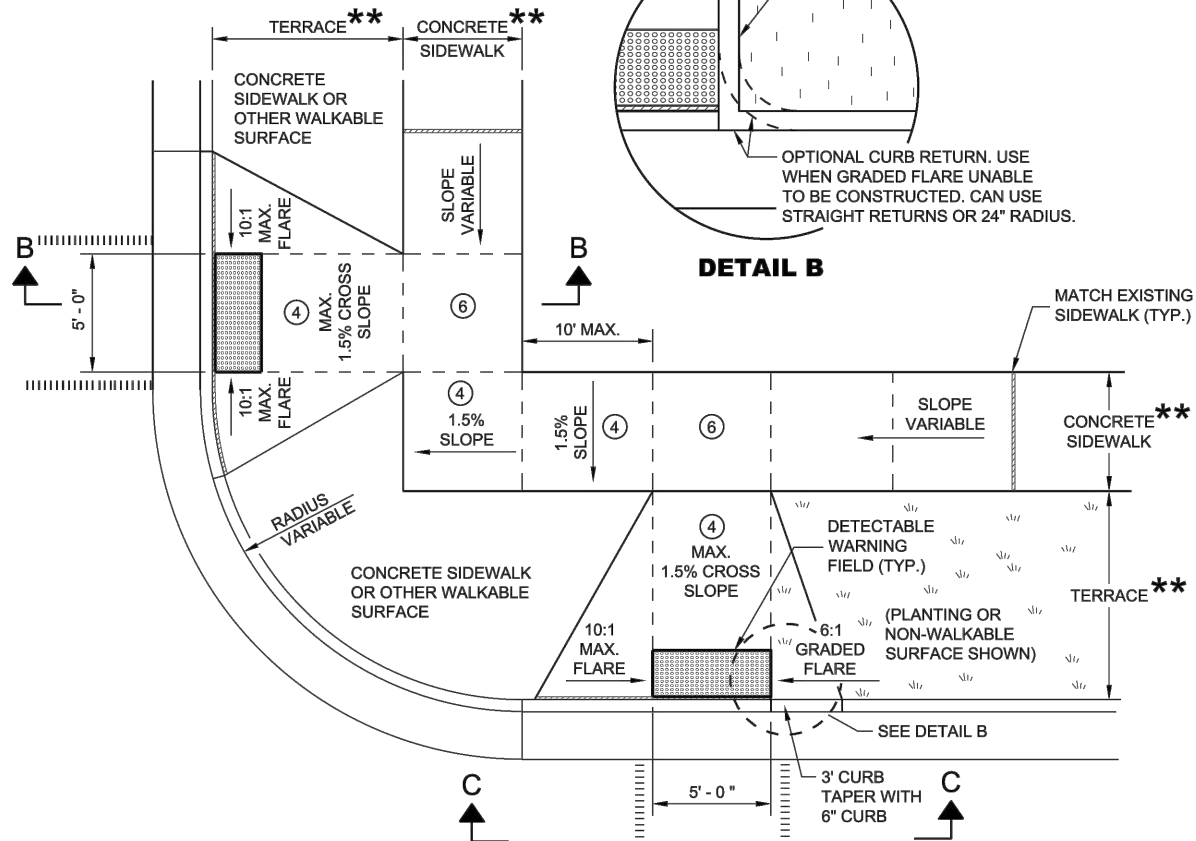
DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)



DETAIL B



PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)

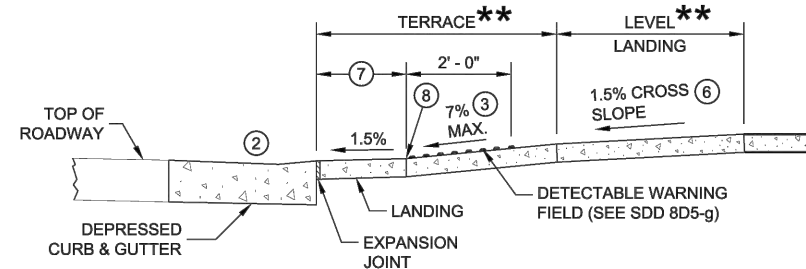
GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

- ② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4 - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- ③ AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.
- ④ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- ⑥ PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.
- ⑦ WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.
- ⑧ PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- ⑨ WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



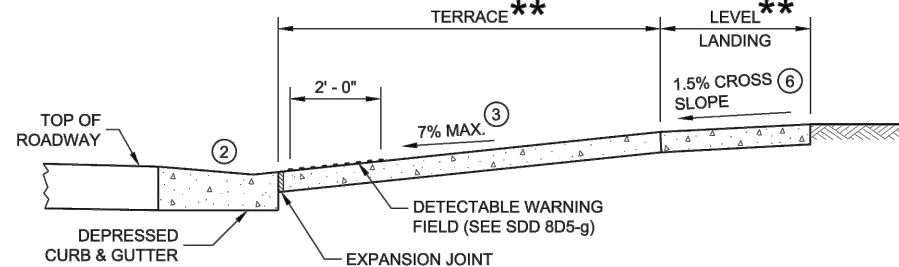
SECTION A - A FOR TYPE 2

* MAXIMUM 2.0% SLOPE
IN ALL DIRECTIONS IN
FRONT OF GRADE BREAK

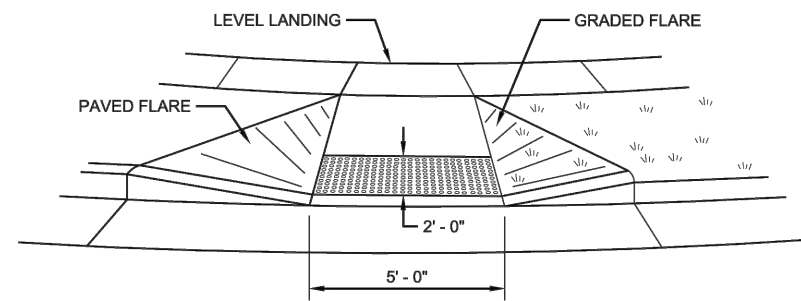
** WIDTH SHOWN ELSEWHERE
IN THE PLANS

LEGEND

- 1/2" EXPANSION JOINT SIDEWALK
- - - CONTRACTION JOINT SIDEWALK
- ||||| PAVEMENT MARKING CROSSWALK (WHITE)



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION

DRAWN JMS
CHECKED ---
DESIGNED BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

MISCELLANEOUS DETAILS

DATE 04/20/22
FILE DETAILS
JOB NO. 0404471



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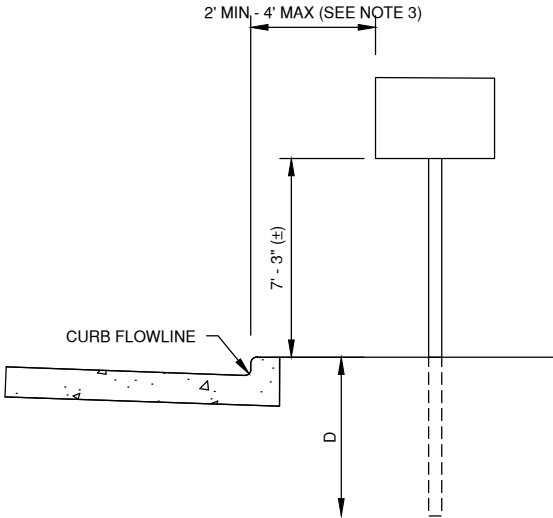
BID SET

SHEET NO.

79

GENERAL NOTES

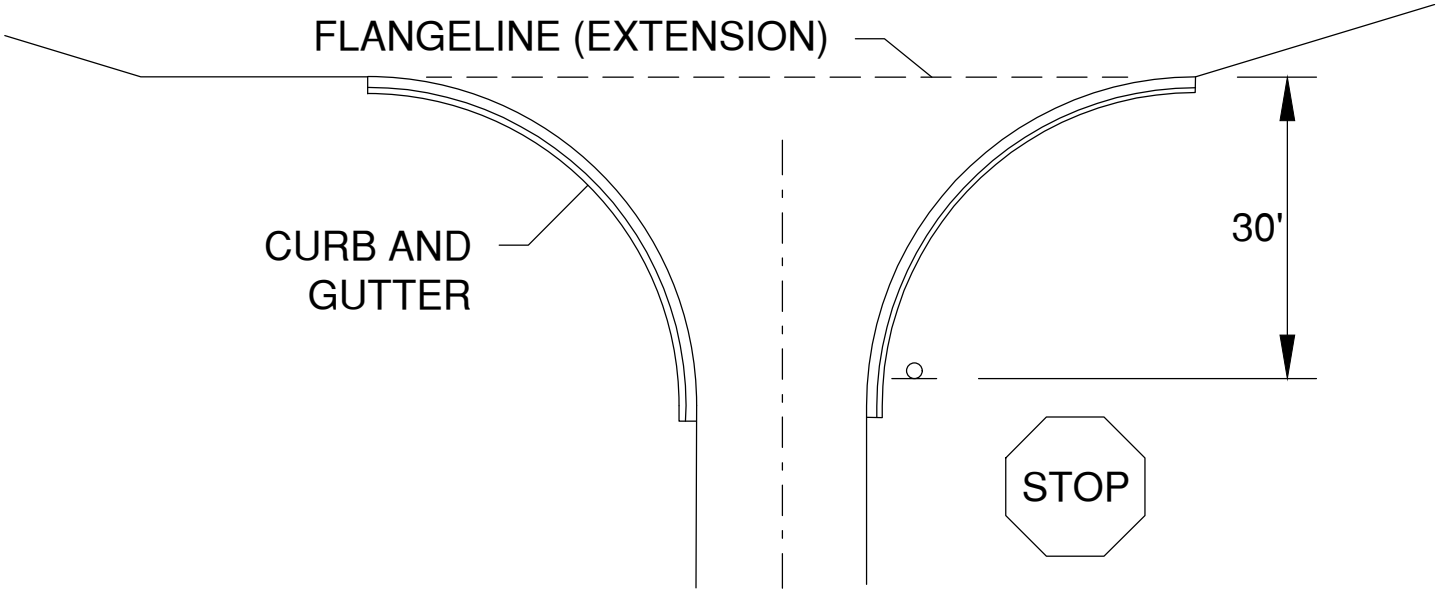
- 1. MINIMUM MOUNTING HEIGHT FOR SIGNS MOUNTED ON A TRAFFIC SIGNAL POLES IN 5'-3" (±)
- 2. OFFSET DISTANCE SHALL BE CONSISTENT WITH EXISTING SIGNS OR CONSISTENT THROUGHOUT LENGTH OF PROJECT
- 3. THE (±) TOLERANCE FOR MOUNTING HEIGHT IS 3 INCHES



** THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. OFFSET OF SIGNS IS MEASURED FROM THE FLOW LINE.

** 6 FEET FROM THE EDGE OF A PAVED SHOULDER OR 12 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) OR FEET FROM OUTSIDE EDGE OF GRAVEL, WHICHEVER IS GREATER UNLESS DIRECTED BY PROJECT ENGINEER.

STOP SIGN DETAIL



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

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Plot Date: Jun 09, 2022 10:28am
LAYOUT: DETAILS (0)

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN JMS	CONTRACT NO. 22-11	DATE 04/20/22	 Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155 920-662-9641 www.releeinc.com	SHEET NO.
								CHECKED ---	2022 UTILITY AND STREET CONSTRUCTION	FILE DETAILS		80
								DESIGNED BDR	WATERVIEW HEIGHTS FIFTH ADDITION	JOB NO. 0404471		
									CITY OF DE PERE, BROWN COUNTY, WI	MISCELLANEOUS DETAILS		

BID SET

INLET PROTECTION DEVICES SHALL BE IN ACCORDANCE WITH WDNr TECHNICAL STANDARD 1060, STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE WDOT PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

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

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

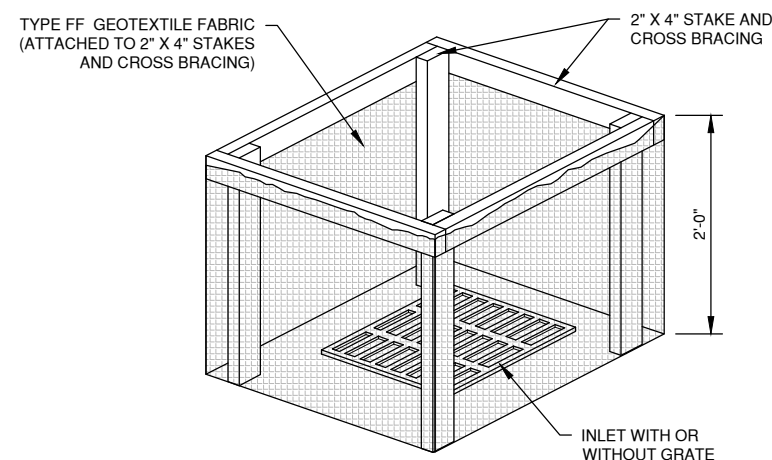
DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30" MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

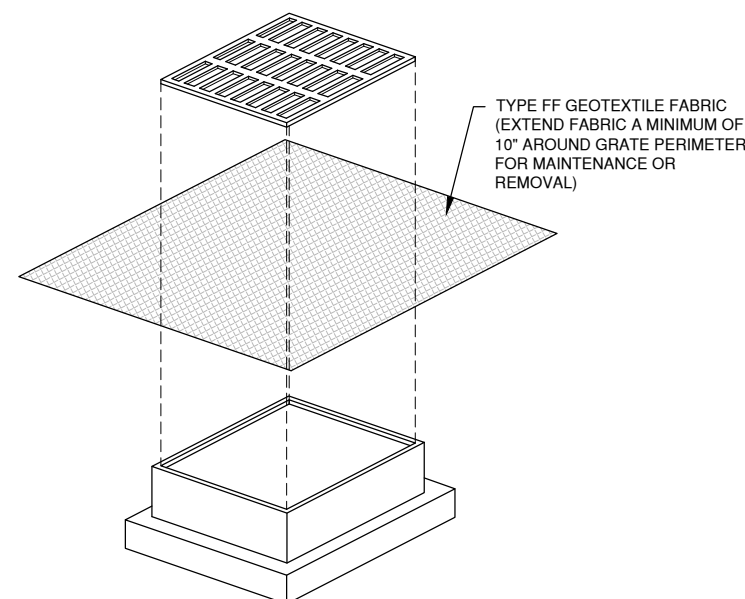
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY, CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT THE MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

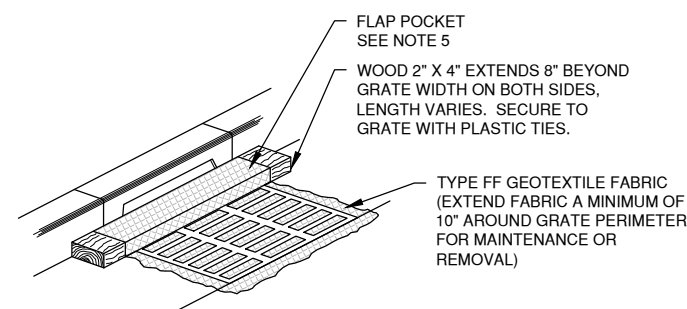
1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF THE OUTSIDE OF FILTER BAG. FRONT, BACK AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" X 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.



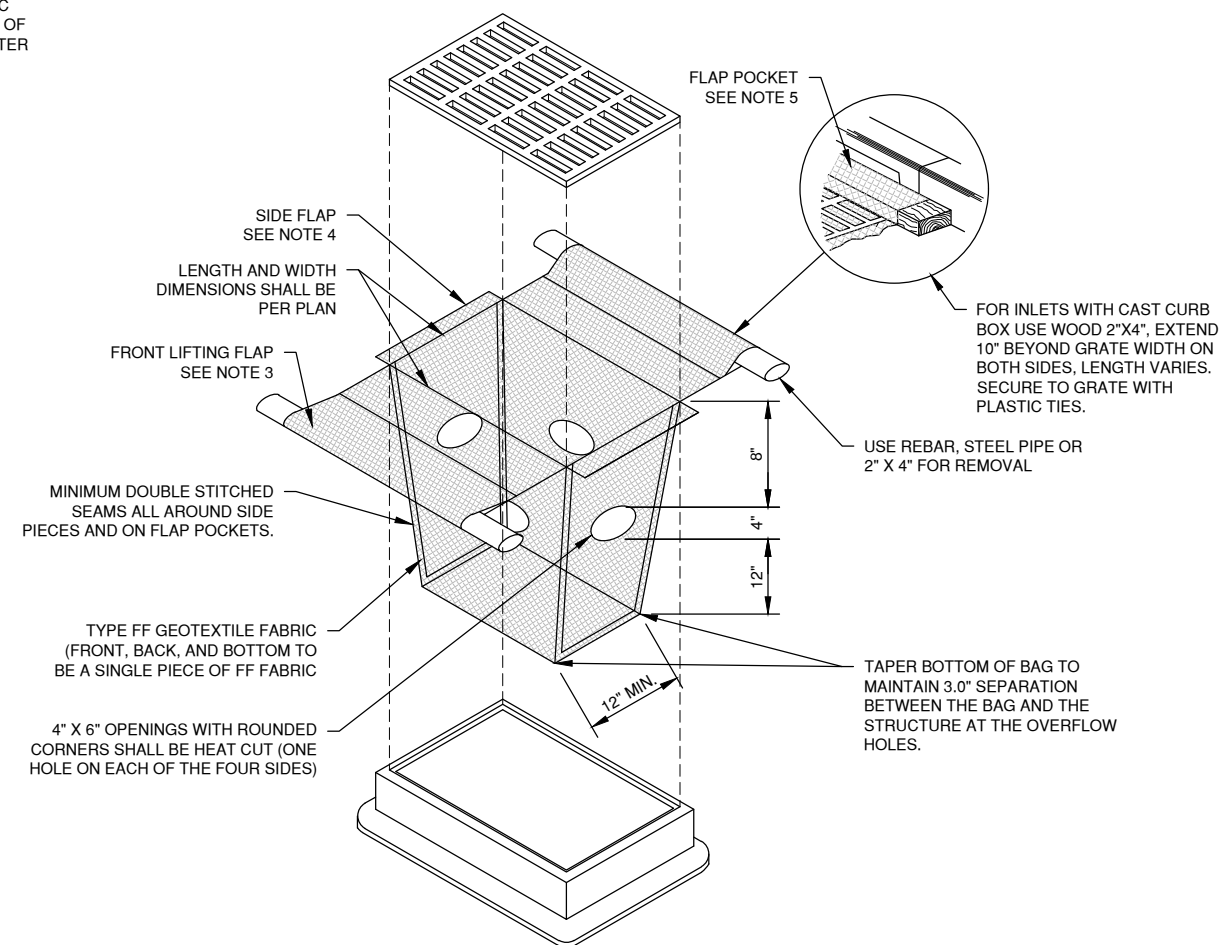
INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C
(WITH CURB BOX)



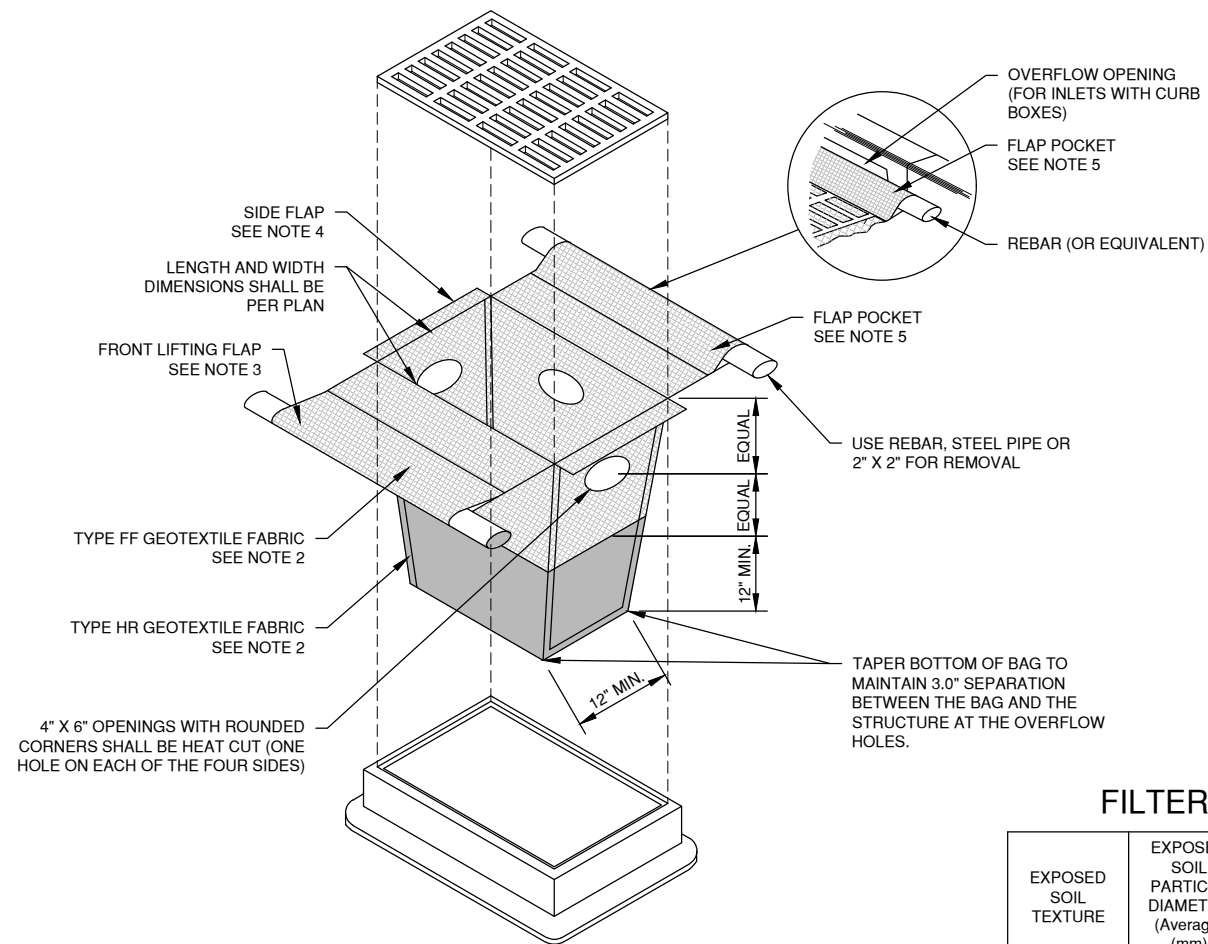
INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN INLETS WITH OR WITHOUT CURB BOXES)

[illegible]

1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS AND TOP HALF OF FILTER BAG. GEOTEXTILE FABRIC TYPE HR FOR BOTTOM HALF OF FILTER BAG. FRONT, BACK AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" X 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

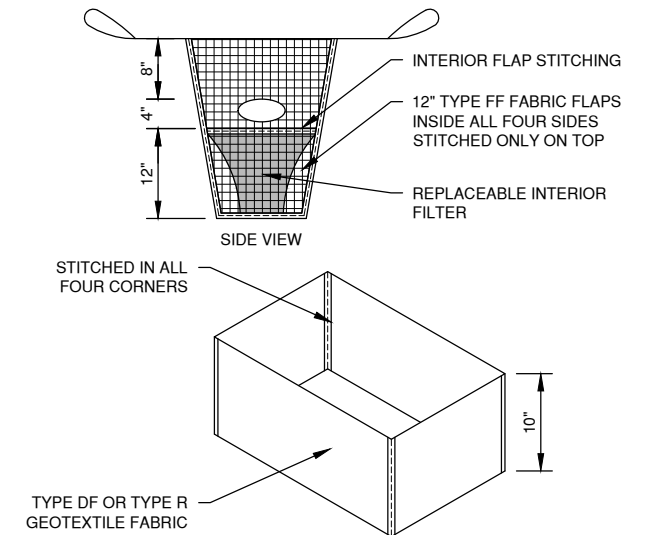


FILTER FABRIC TYPE

EXPOSED SOIL TEXTURE	EXPOSED SOIL PARTICLE DIAMETER (Average) (mm)	FILTER FABRIC TYPE*	RECOMMENDED INLET PROTECTION DEVICE TYPE
COARSE (SAND)	≥ 0.0625	FF	D, D-M
MEDIUM (SILT LOAM)	0.0624 - 0.005	DF	D, D-M
FINE (CLAY)	≤ 0.004	R	D-M
		HR	D-HR

** FOLLOW DESIGN CRITERIA OF WDNR TECHNICAL STANDARD 1060

1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" X 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.



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Plot Date: Jun 09, 2022 - 10:59am
LAYOUT: 2 INLET PROTECTION

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CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

EROSION CONTROL
INLET PROTECTION
TYPE D-HR AND TYPE D-M

DATE	04/2022
FILE	EROSION CONTROL
JOB NO.	



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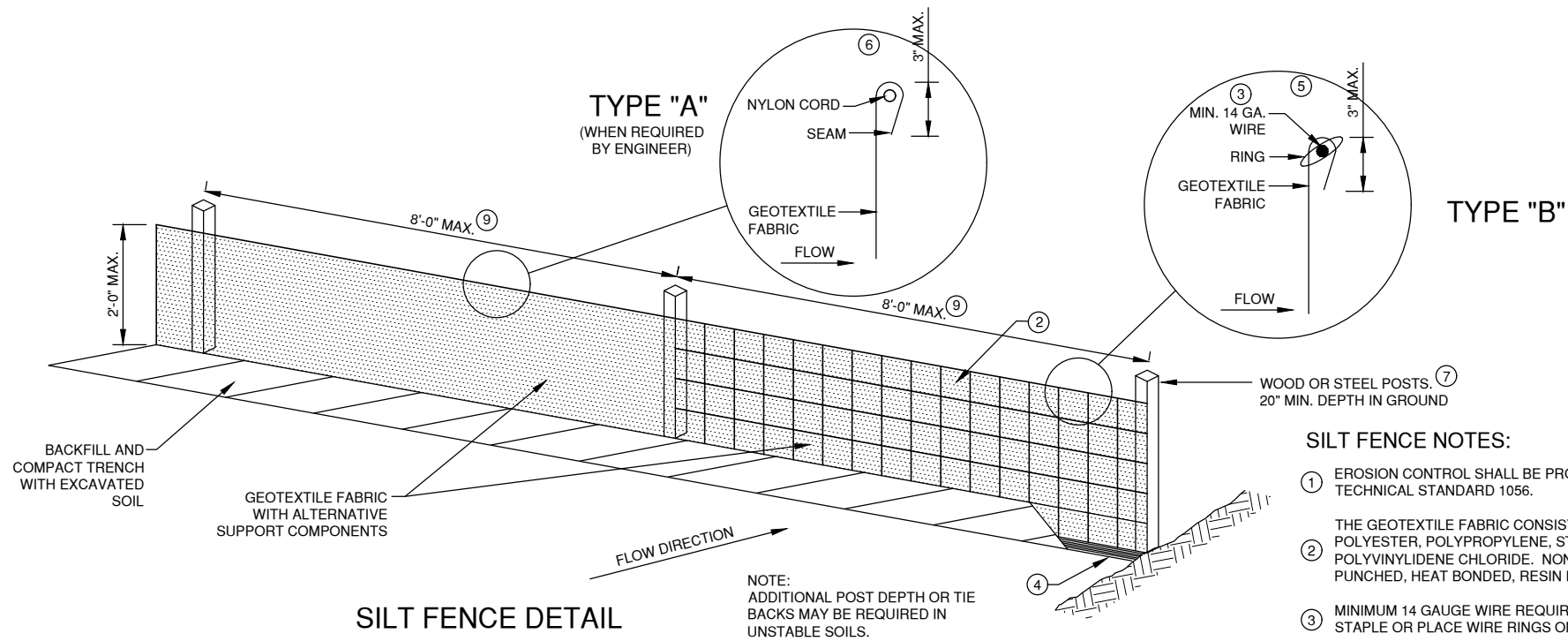


(1) SIZE No. ACCORDING TO AASHTO M 43

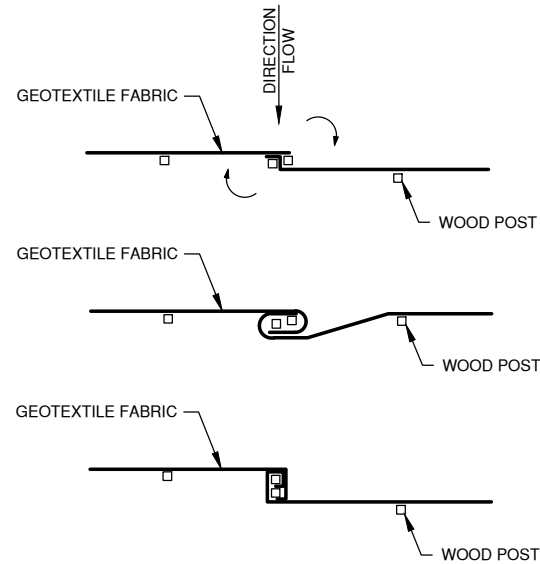


NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN JMS	CONTRACT NO. 22-11 2022 UTILITY AND STREET CONSTRUCTION WATERVIEW HEIGHTS FIFTH ADDITION CITY OF DE PERE, BROWN COUNTY, WI	EROSION CONTROL DITCH CHECK DETAILS	DATE 04/2022	 Robert E. Lee & Associates, Inc. ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES 1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155 920-662-9641 www.releeinc.com	SHEET NO. 83
								CHECKED ---			FILE EROSION CONTROL		
								DESIGNED BDR			JOB NO. 0404471		

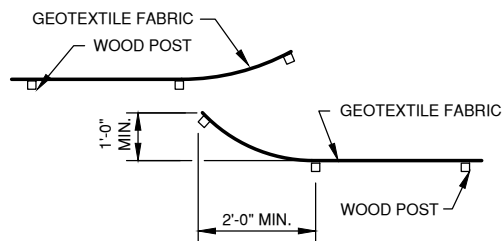
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Plot Date: Jun 05, 2022 - 10:58am
LAYOUT: 4 SHEET FLOW



SILT FENCE DETAIL

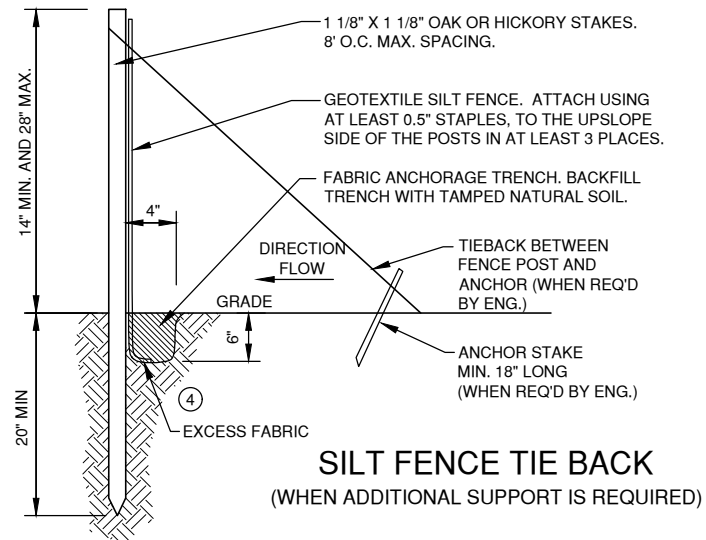


TWIST METHOD ⑧



HOOK METHOD ⑧

JOINING TWO LENGTHS OF SILT FENCE



SILT FENCE TIE BACK
(WHEN ADDITIONAL SUPPORT IS REQUIRED)

SILT FENCE NOTES:

- ① EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1056.
- ② THE GEOTEXTILE FABRIC CONSISTS OF EITHER WOVEN OR NON-WOVEN POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE OR POLYVINYLIDENE CHLORIDE. NON-WOVEN FABRIC MAY BE NEEDLE PUNCHED, HEAT BONDED, RESIN BONDED, OR COMBINATIONS THEREOF.
- ③ MINIMUM 14 GAUGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C.C.
- ④ EXCAVATE A TRENCH A MINIMUM OF 4" WIDE AND 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
- ⑤ WIRE SUPPORT FENCE SHALL BE 14 GAUGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C.C. (TYPE B)
- ⑥ GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 3/4" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED. (TYPE A)
- ⑦ STEEL POSTS SHALL BE 5' LONG WITH A MINIMUM STRENGTH OF 1.33 LBS PER FOOT. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY. THE POSTS SHALL BE A MINIMUM OF 3' LONG FOR 24" SILT FENCE AND 4' LONG FOR 36" SILT FENCE.
- ⑧ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL, IF POSSIBLE, BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY, USE ONE OF THE FOLLOWING TWO METHODS: A.) TWIST METHOD -- OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B.) HOOK METHOD -- HOOK THE END OF EACH SILT FENCE LENGTH.
- ⑨ THE MAXIMUM SPACING OF POSTS FOR WOVEN FABRIC SILT FENCE SHALL BE 8 FEET AND FOR NON-WOVEN FABRIC, 3 FEET.

EROSION CONTROL SHEET FLOW NOTES:

1. ANY SOIL STOCKPILED THAT REMAINS FOR MORE THAN 7 DAYS, SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING.
2. A MINIMUM OF 4" OF TOPSOIL MUST BE APPLIED TO ALL AREAS TO BE SEEDDED OR SODDED.
3. ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
4. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH DAY. **FLUSHING SHALL NOT BE ALLOWED.**
5. ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR THE APPLICATION OF STABILIZATION MEASURES MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
6. FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING.
7. ALL TEMPORARY EROSION CONTROL PRACTICES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED WITH 70% VEGETATION AND A NOTICE OF TERMINATION HAS BEEN APPROVED BY THE WDNR.
8. WIND EROSION SHALL BE KEPT TO A MINIMUM DURING CONSTRUCTION. WATERING, MULCH OR A TACKING AGENT MAY NEED TO BE UTILIZED TO PROTECT NEARBY RESIDENCES/WATER RESOURCES.
9. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL THE EROSION CONTROL MEASURES IN CONFORMANCE WITH THE WDNR CONSERVATION PRACTICE STANDARDS LATEST EDITION.
10. UPON COMPLETION OF STORM INLET CONSTRUCTION, INSTALL STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITE AS SPECIFIED.
11. FINE SEDIMENT ACCUMULATIONS SHALL BE CLEANED FROM STREETS, PRIVATE DRIVES, OR PARKING AREAS BY MANUAL OR MECHANICAL SWEEPING A MINIMUM OF ONCE A WEEK AND BEFORE ALL IMMINENT RAINS
12. EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF RAINFALL OF 0.5" OR MORE.

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN JMS
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

EROSION CONTROL
SHEET FLOW DETAILS

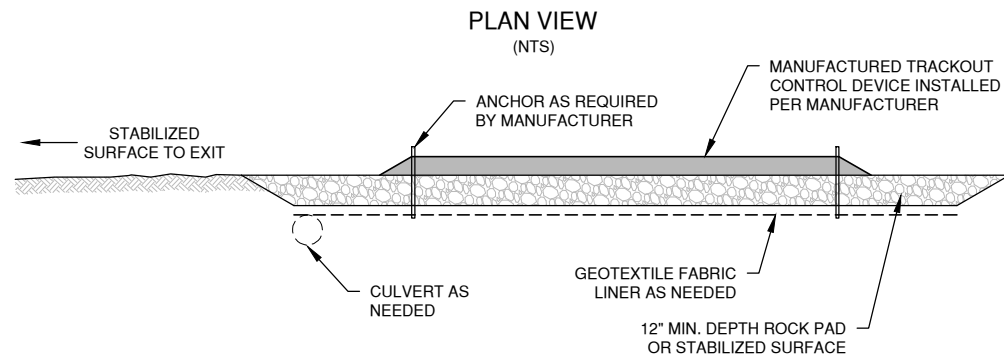
DATE 04/20/22
FILE EROSION CONTROL
JOB NO. 0404471



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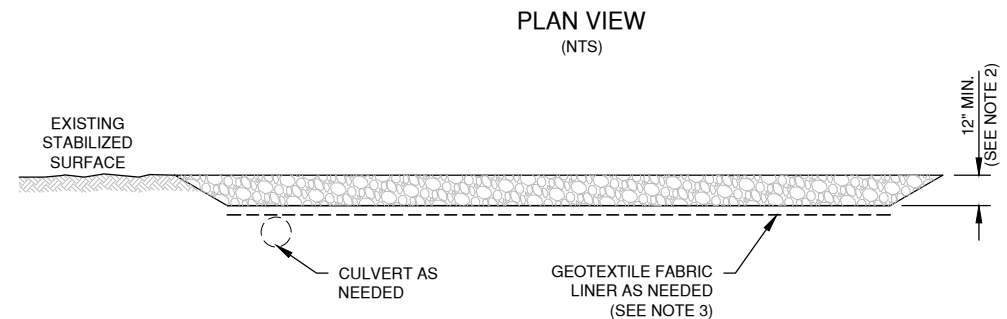
BID SET
SHEET NO.
84

LAYOUT: 5 TRACKOUT Plot Date: Jun 09, 2022 - 10:59am



NOTES:

- ## MANUFACTURED TRACKOUT CONTROL DETAIL

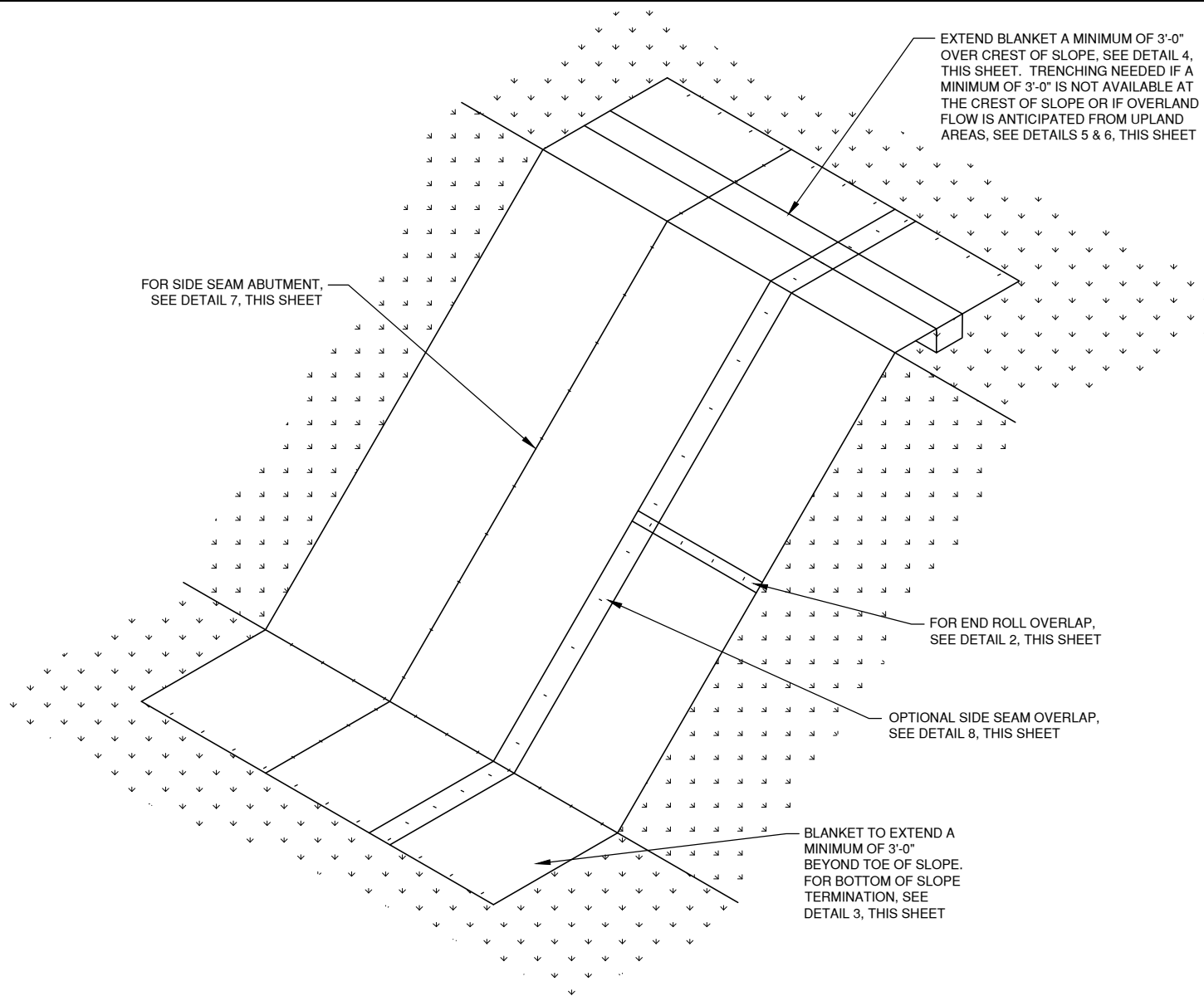


NOTES:

- ## STONE TRACKING PAD DETAIL

BID SET

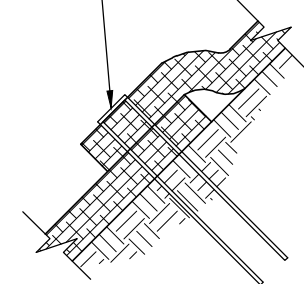
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Plot Date: Jan 05, 2022 - 11:00am
LAYOUT: 6 SLOPE ERM



SLOPE DETAIL

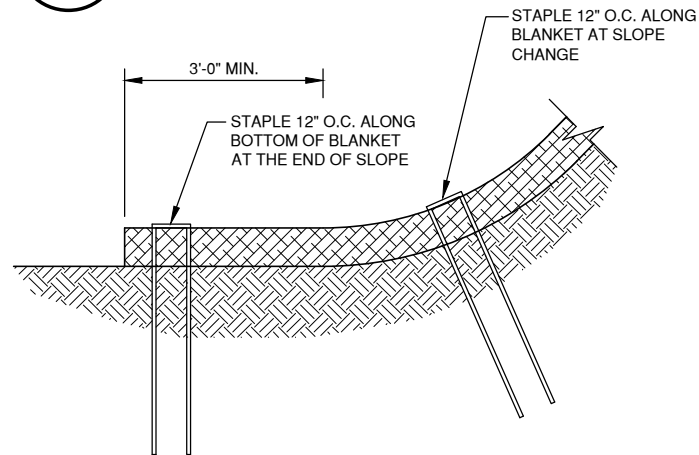
1
80

END SEAM OF BLANKETS OVERLAP 2'-4". PLACE STAPLES, ONE ON EACH CORNER OF BLANKET, 12" O.C. ALONG BLANKET END THROUGH BOTH BLANKETS. UPSLOPE BLANKET LAPS OVER DOWNSLOPE BLANKETS IN A SHINGLE AFFECT.



END ROLL OVERLAP

2
80



BOTTOM OF SLOPE
TERMINATION

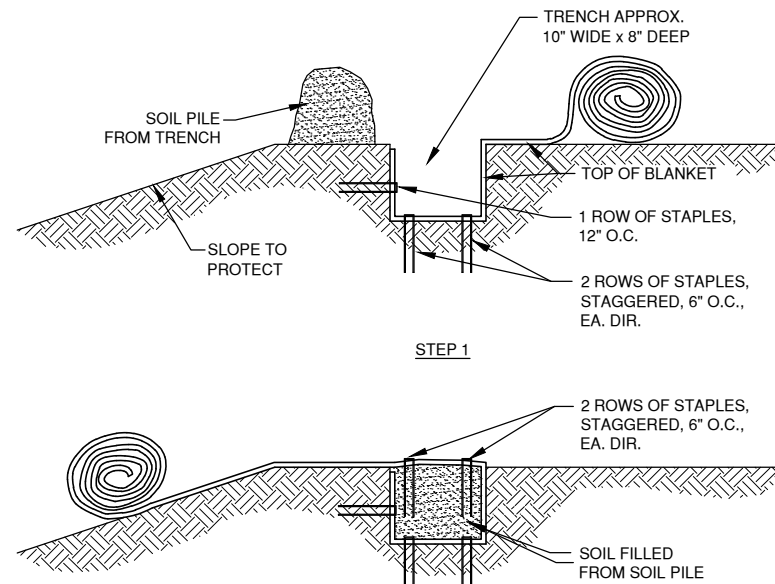
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SLOPE CREST ANCHOR
METHOD "A" (NO TRENCH)

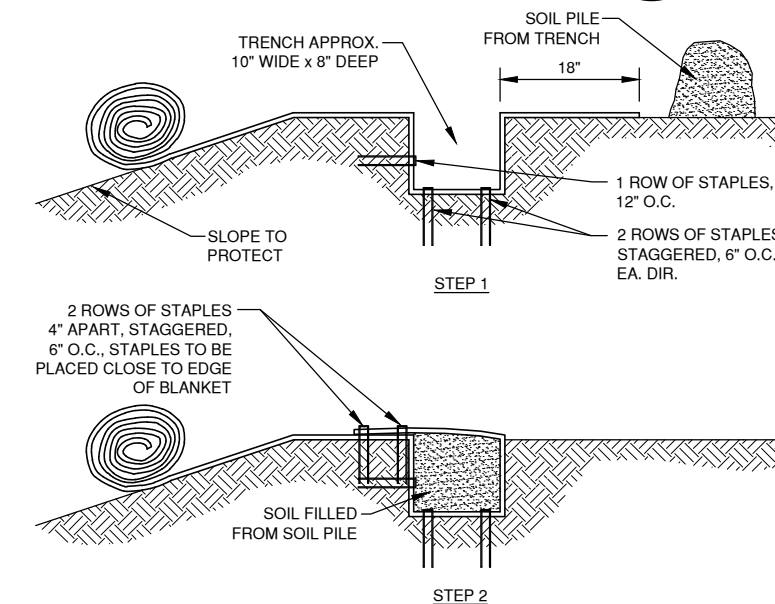
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DO NOT NEED TO TRENCH BLANKET IN IF IT CAN BE EXTENDED A MINIMUM OF 3'-0" OVER THE CREST OF THE SLOPE.



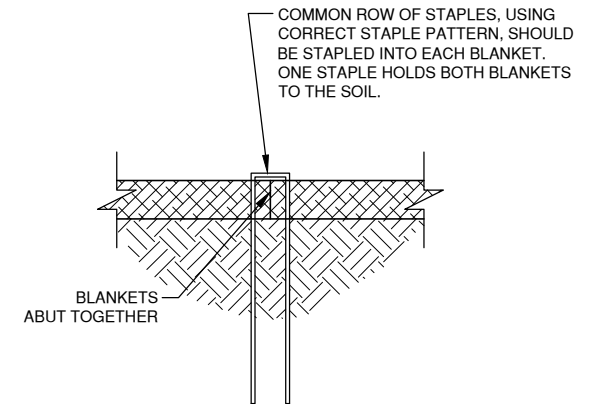
SLOPE TRENCHING
METHOD "B"

5
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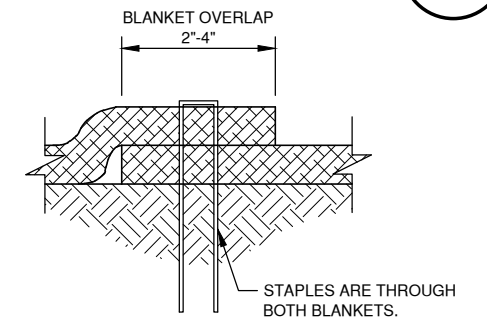
SLOPE TRENCHING
METHOD "C"

6
80



SIDE SEAM ABUT
STAPLE DETAIL

7
80



SIDE SEAM OVERLAP
STAPLE DETAIL

8
80

NOTES:
1. STAPLE PATTERNS ARE DEPENDENT ON SITE CONDITIONS.
SEE MANUFACTURER STAPLE PATTERN GUIDE FOR DETAILS.

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION	DRAWN
								JMS
								CHECKED
								DESIGNED
								BDR

CONTRACT NO. 22-11
2022 UTILITY AND STREET CONSTRUCTION
WATERVIEW HEIGHTS FIFTH ADDITION
CITY OF DE PERE, BROWN COUNTY, WI

EROSION CONTROL
EROSION MAT
SLOPE APPLICATION DETAILS

DATE	04/20/22
FILE	EROSION CONTROL
JOB NO.	0404471

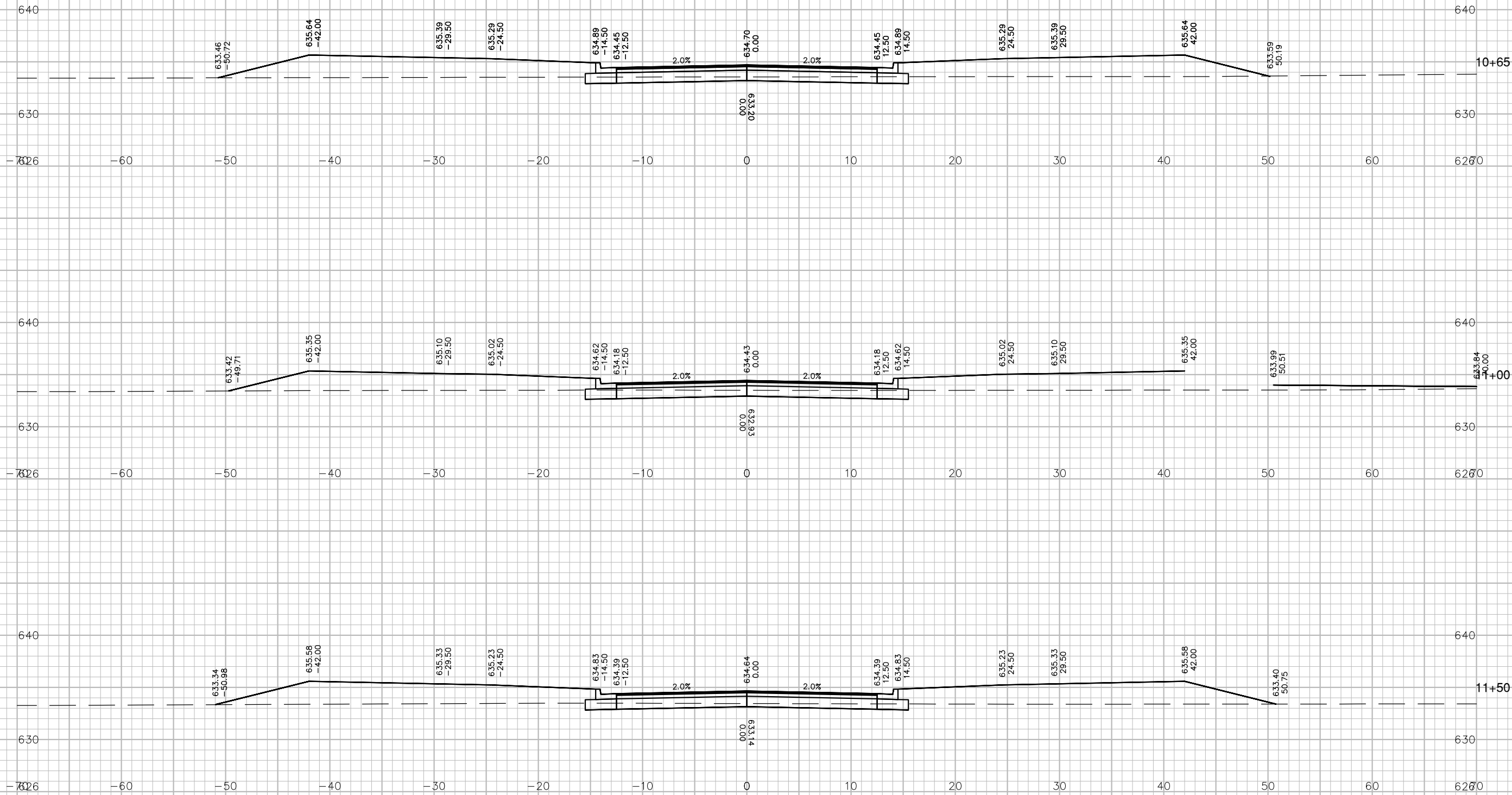


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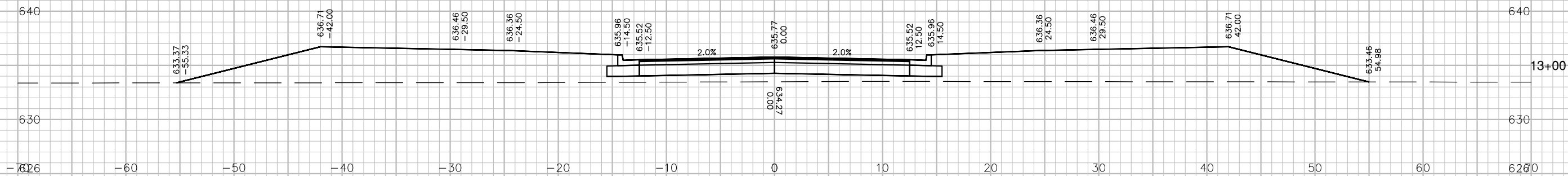
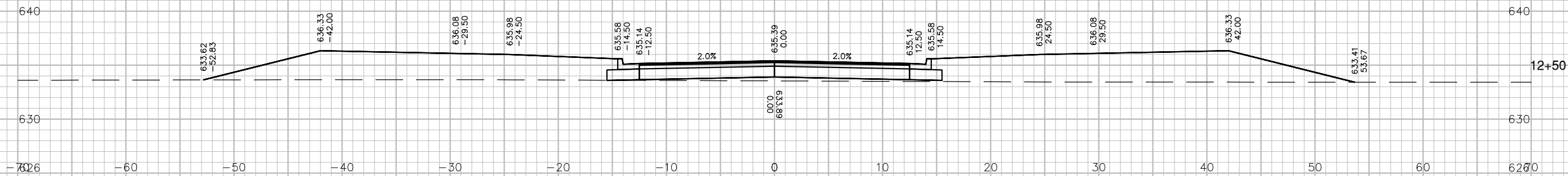
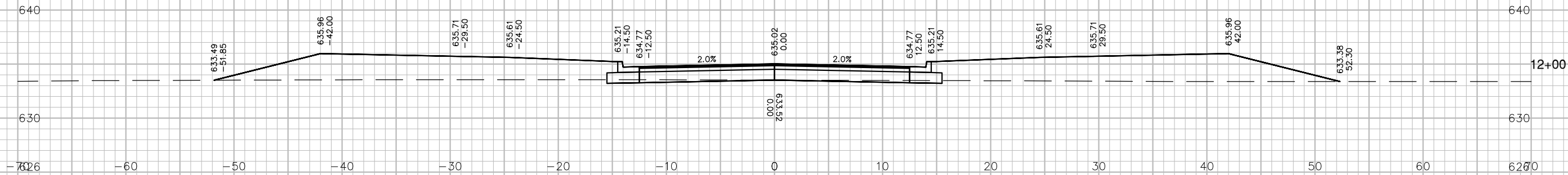
BID SET

SHEET NO.
86

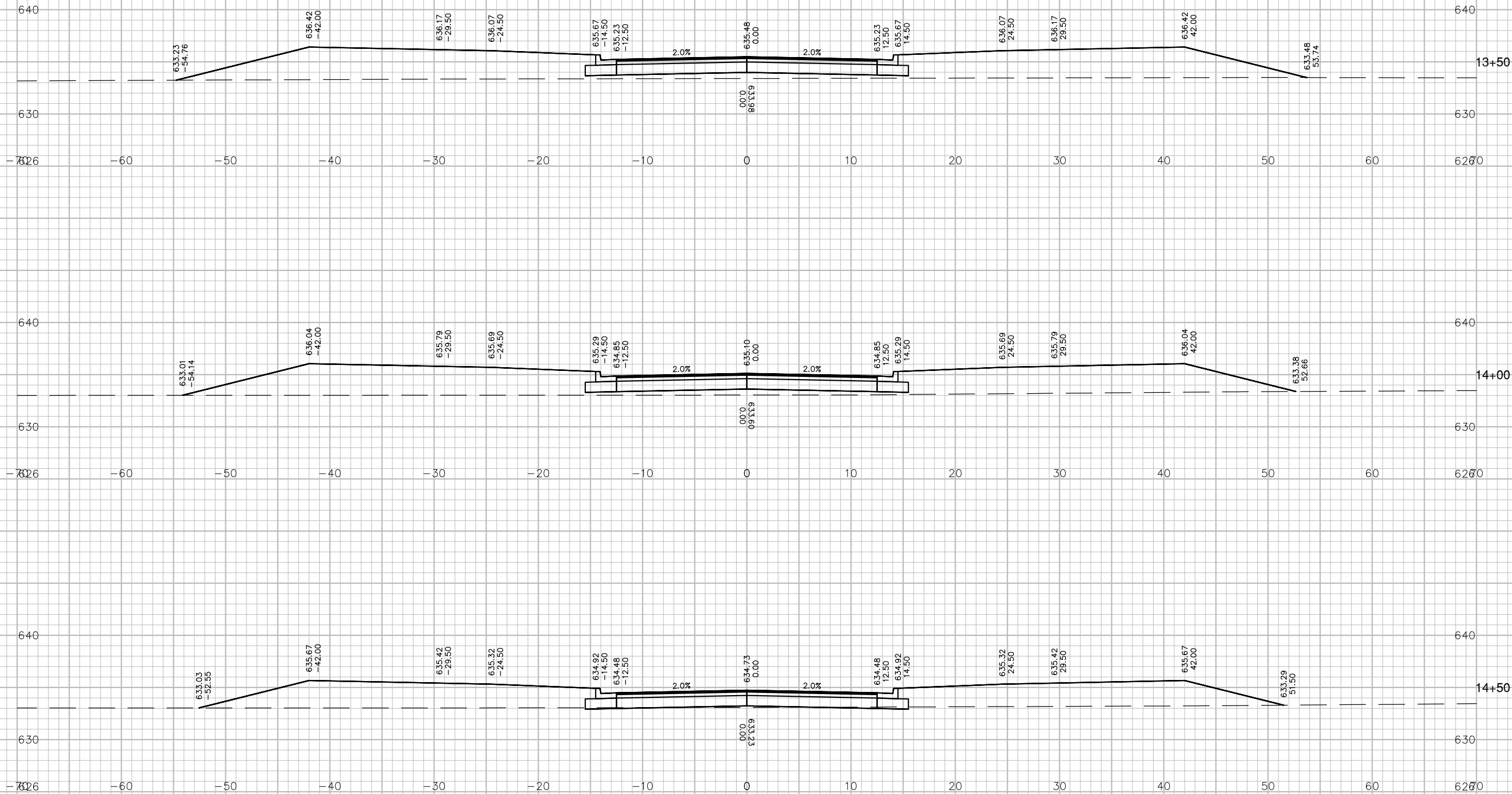
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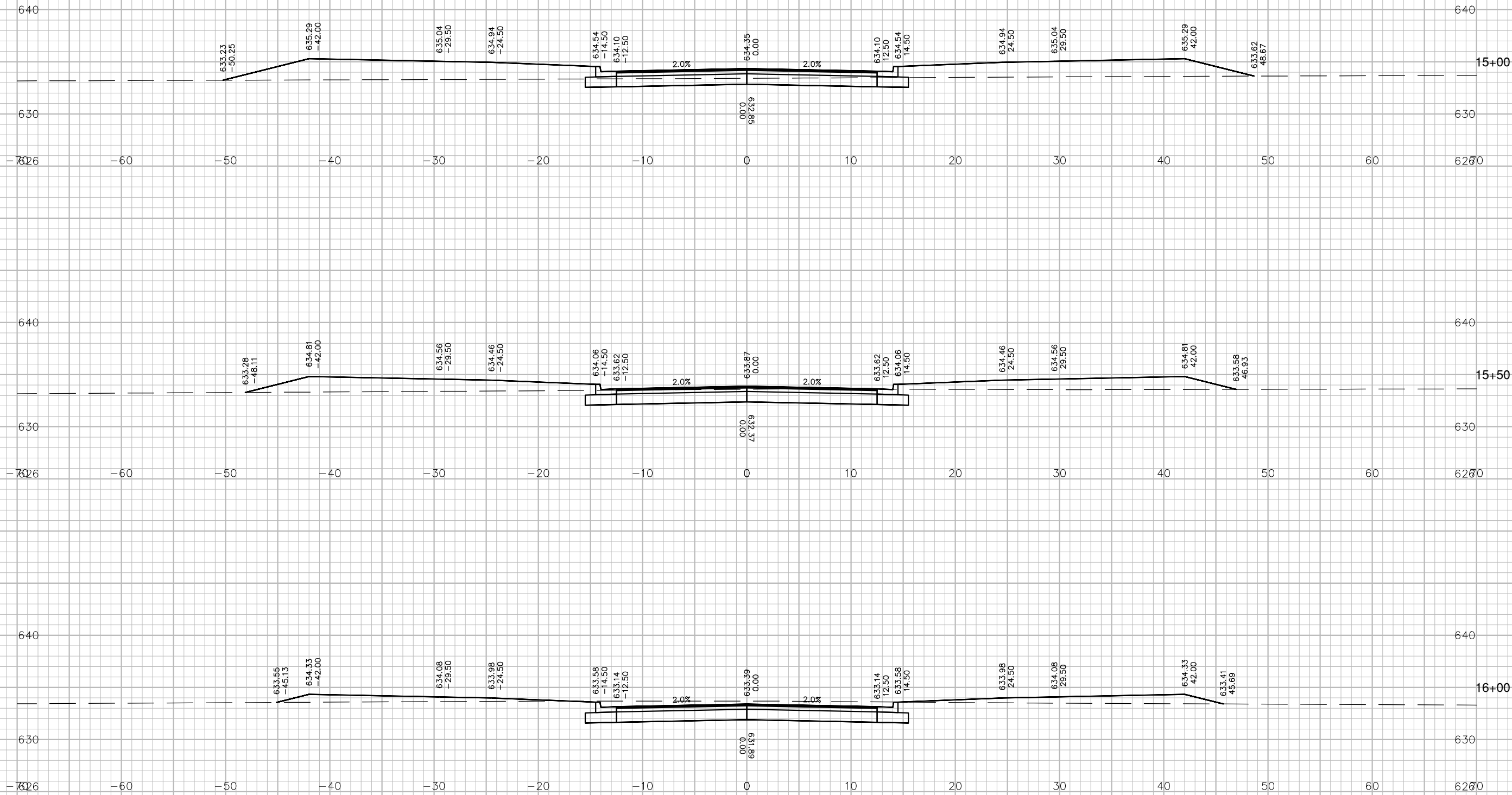
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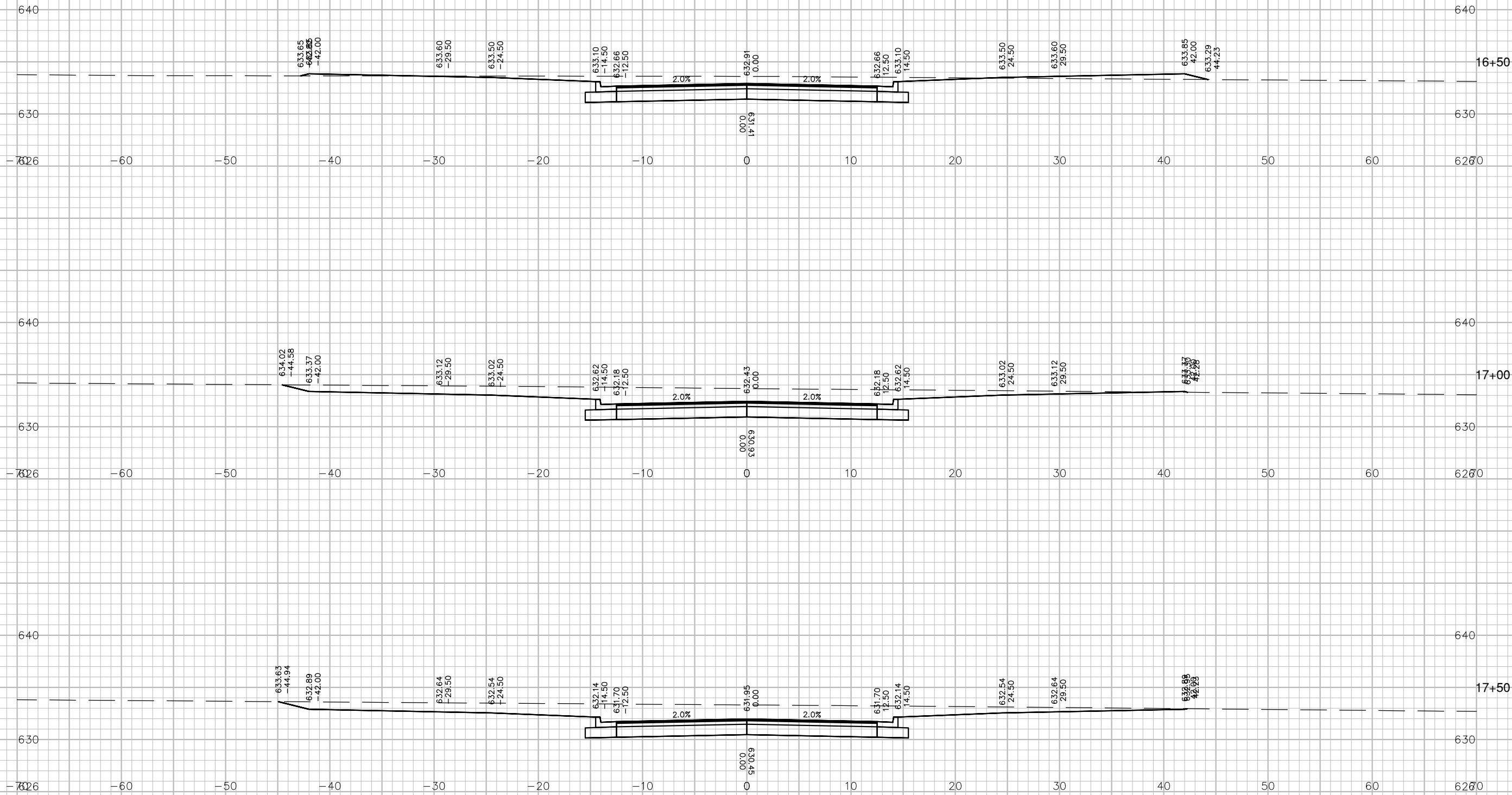
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Plot Date: Jun 14, 2022 - 8:12am



File: R:\0400\0404\0404471\dwg\0404471XS.dwg
Plot Date: Jun 14, 2022 - 8:12am



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CITY OF DE PERE
BROWN COUNTY, WISCONSIN

WILLIE MAYS CIRCLE

FILE
0404471XS.DWG
JOB NO.
0404471

DATE
06/22

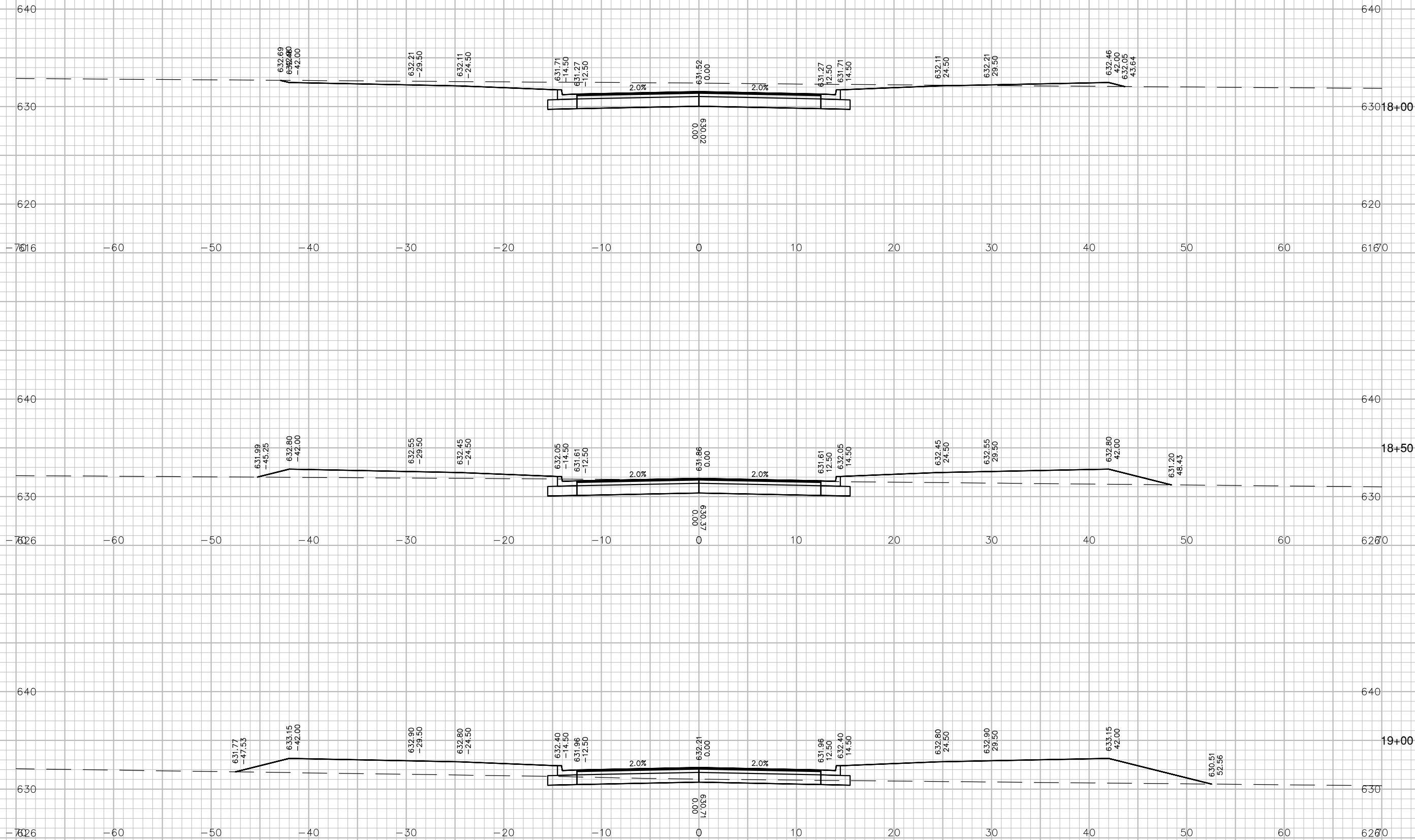


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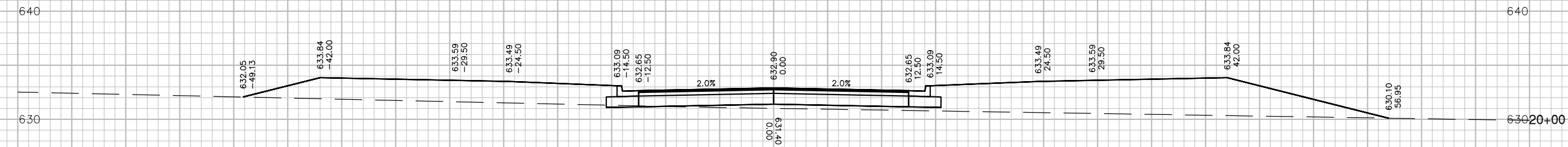
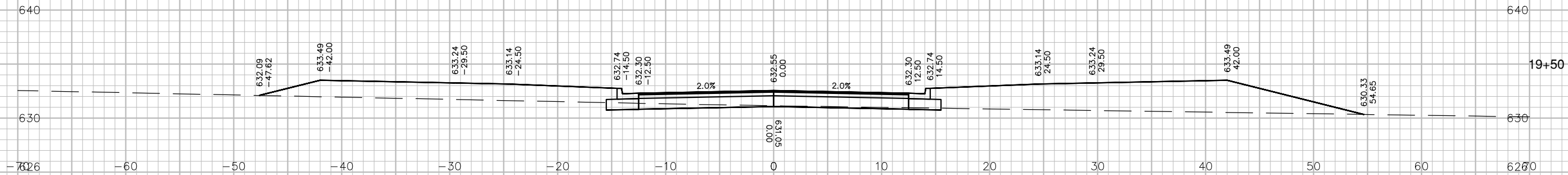
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5

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Plot Date: Jun 14, 2022 - 8:12am



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Plot Date: Jun 14, 2022 - 8:12am



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BROWN COUNTY, WISCONSIN

WILLIE MAYS CIRCLE

FILE
0404471XS.DWG
JOB NO.
0404471

DATE
06/22



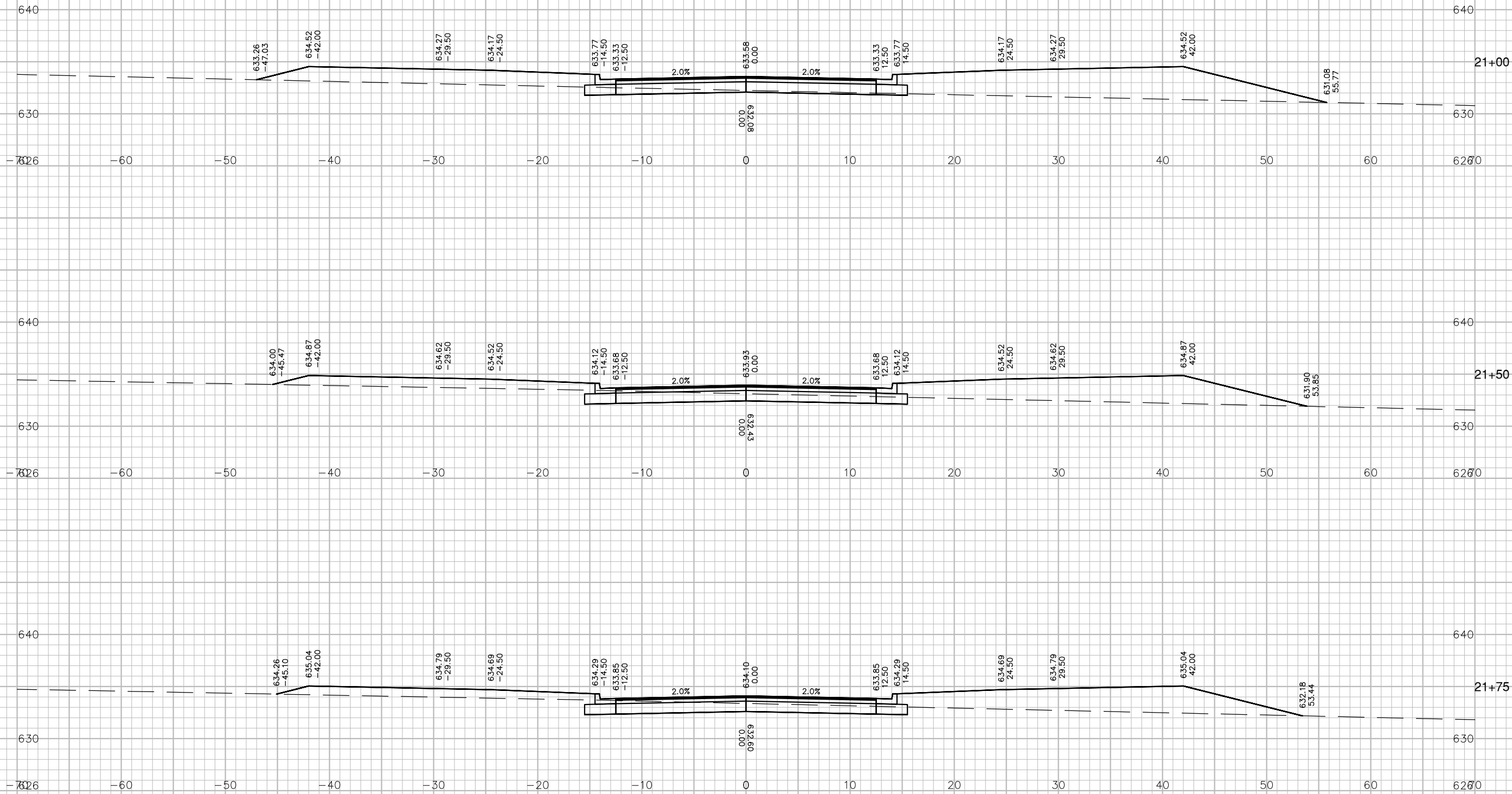
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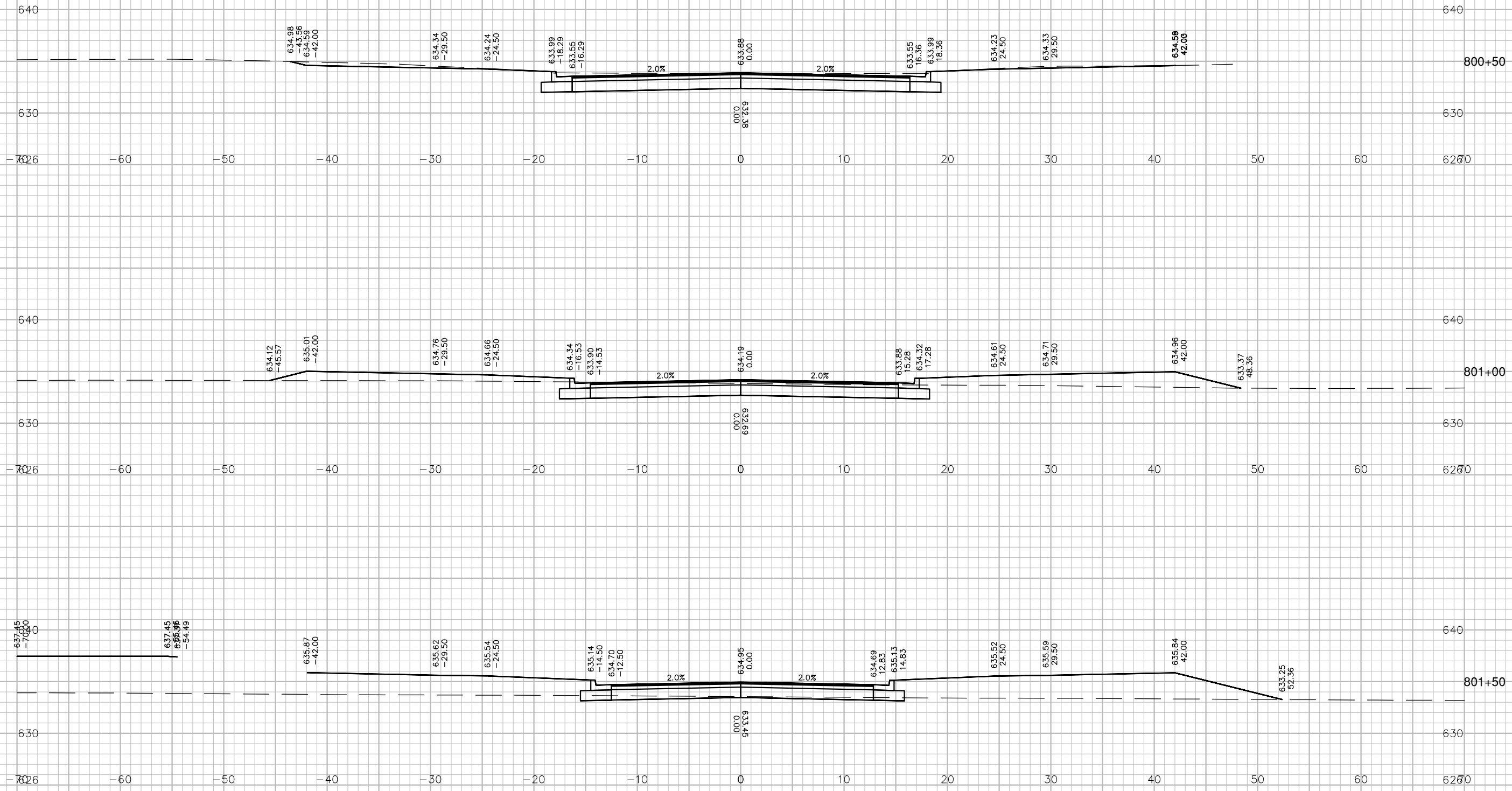
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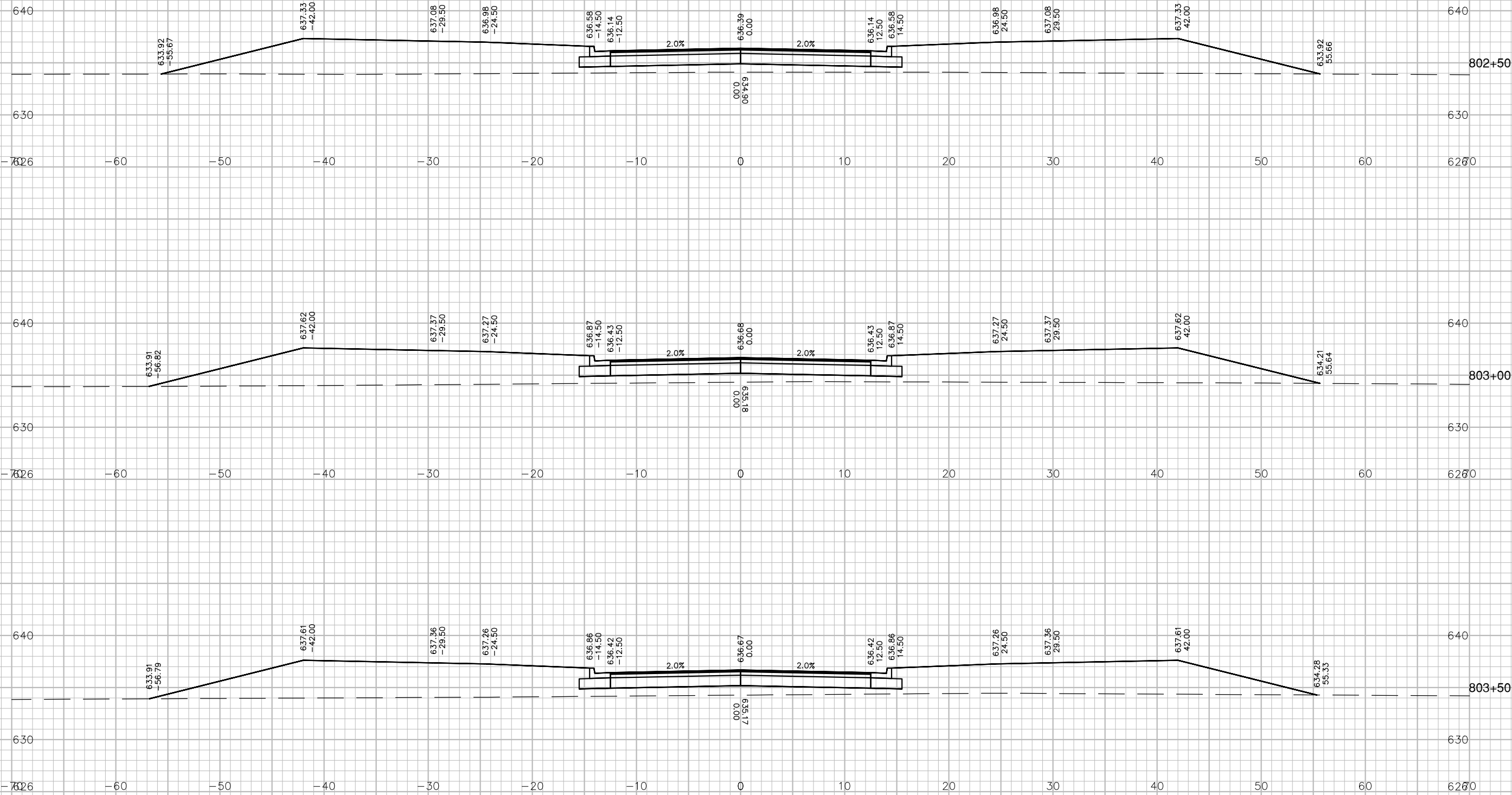
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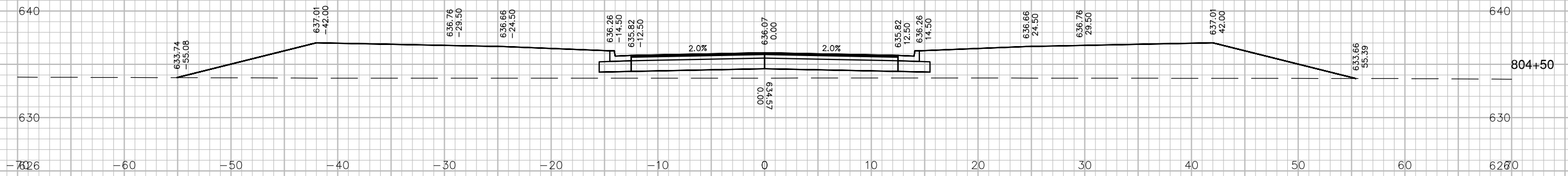
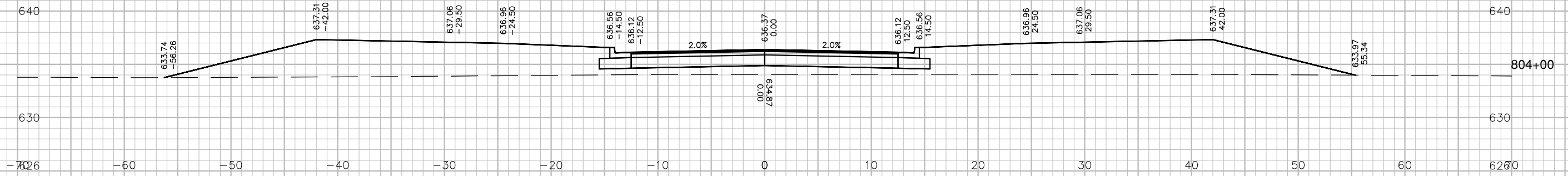
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BROWN COUNTY, WISCONSIN

MEADOW ROSE LANE AND BATTERY AVENUE

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0404471XS BATTERY.DWG
JOB NO.
0404471

DATE
06/22



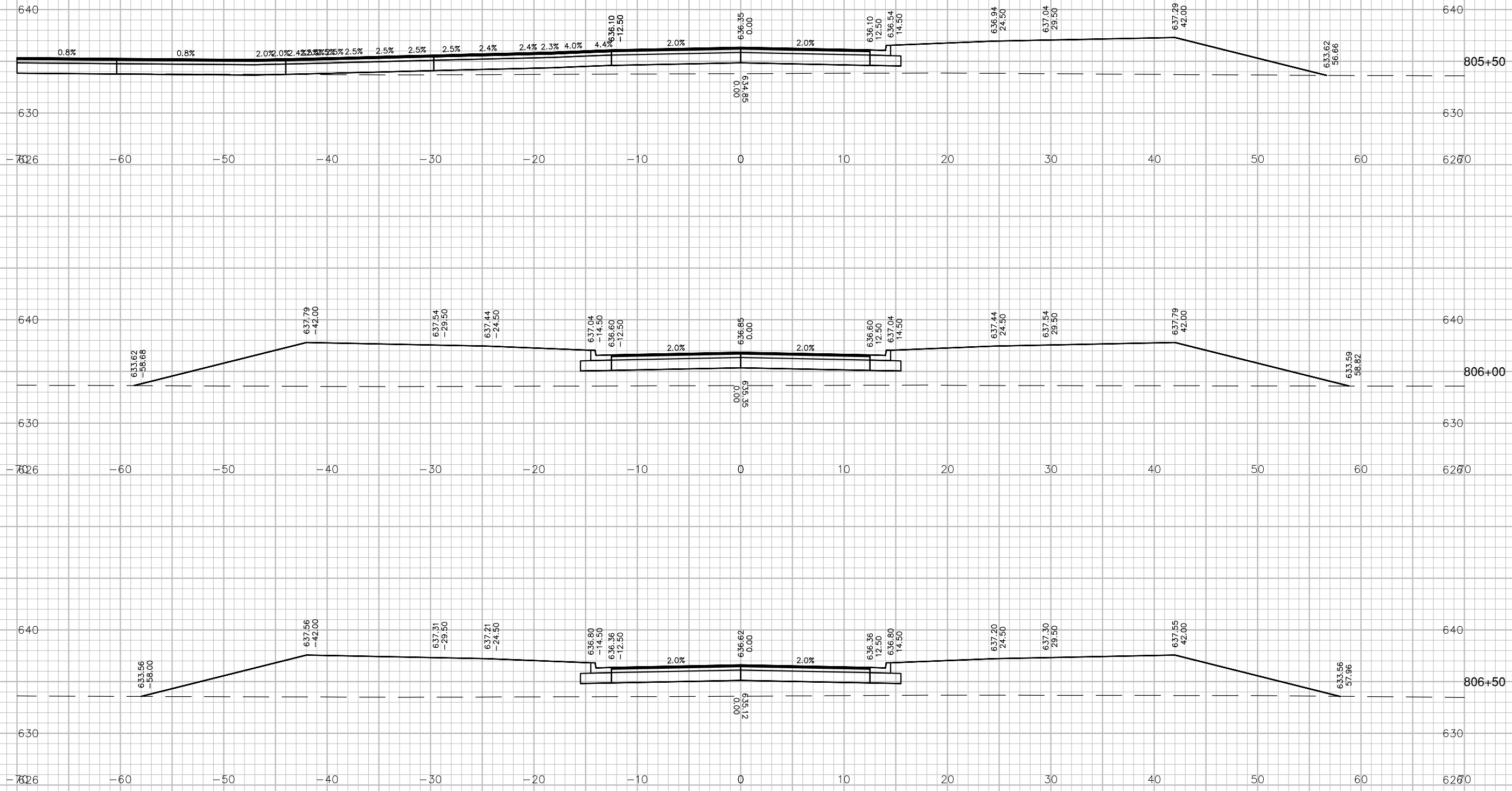
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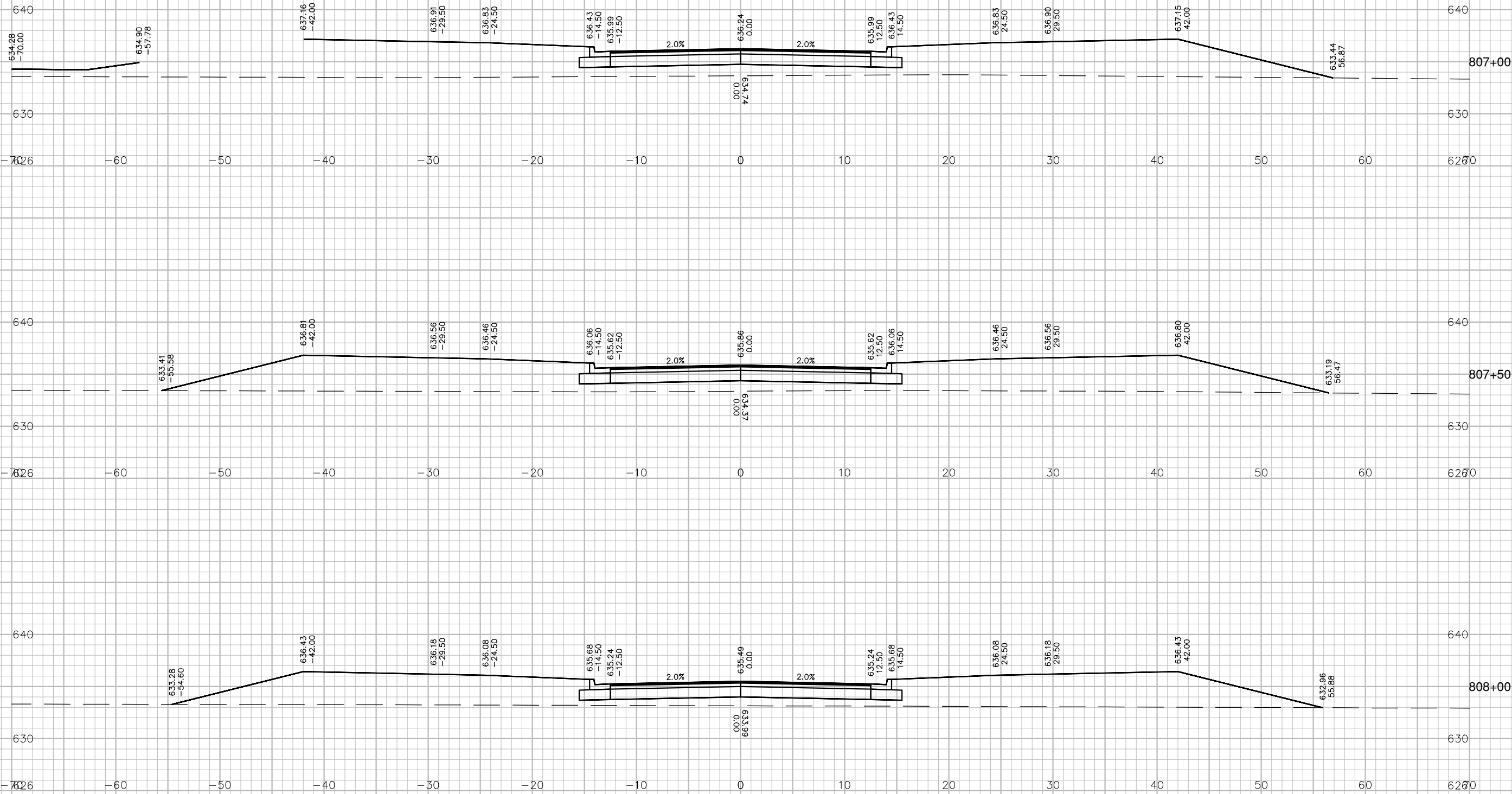
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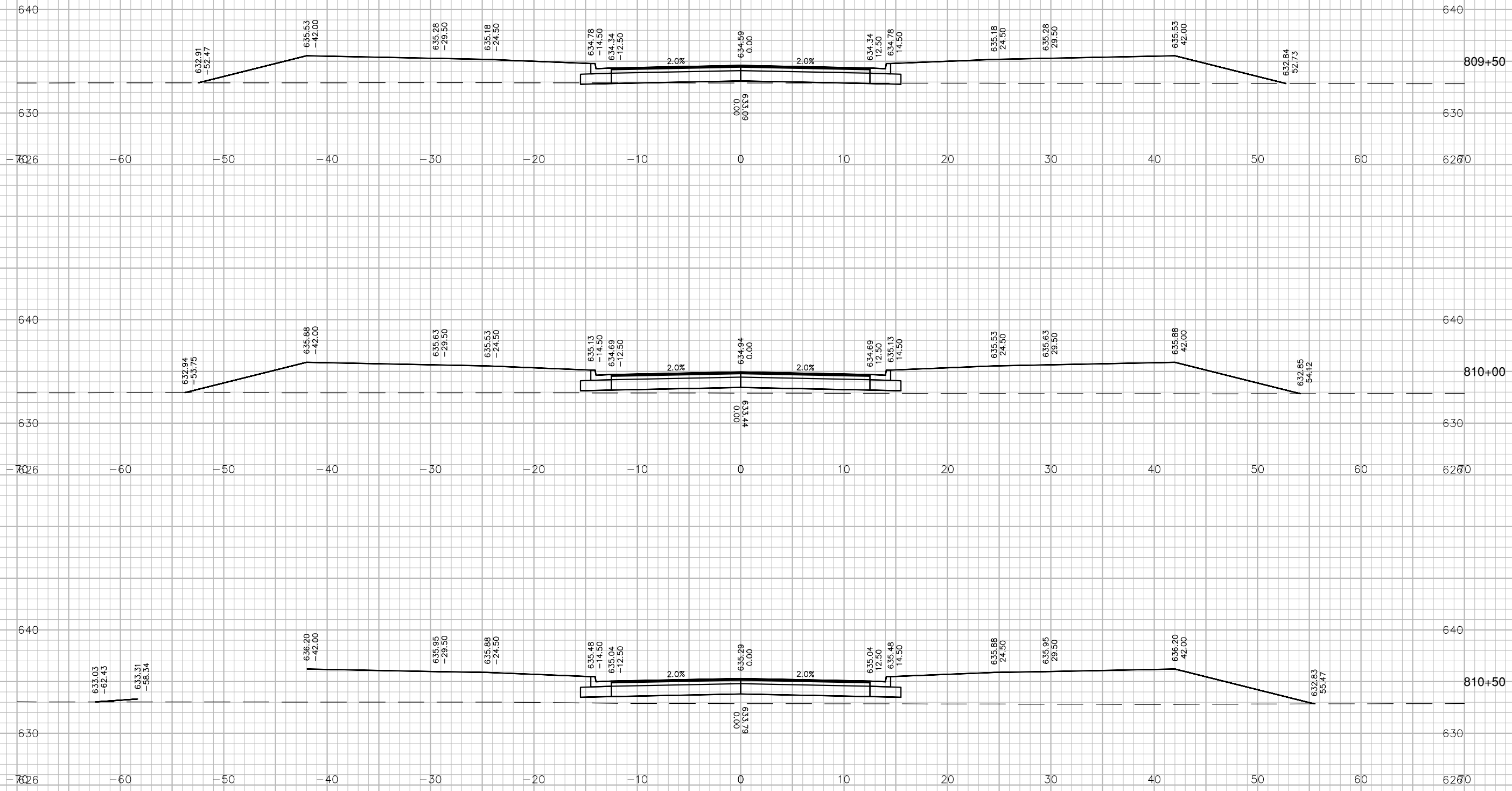
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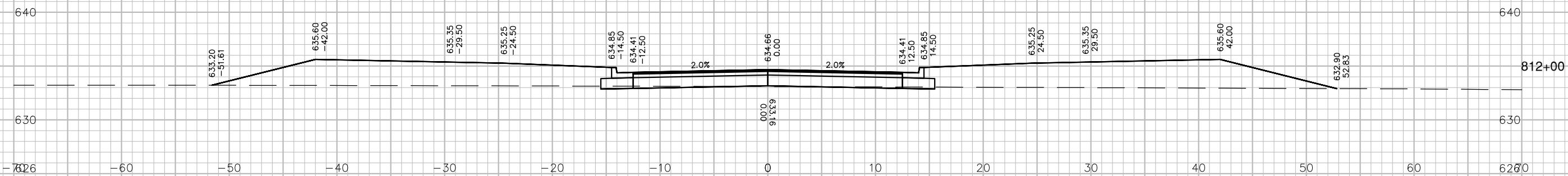
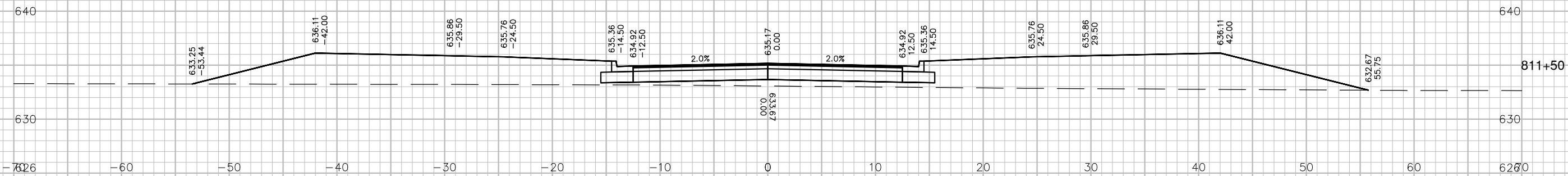
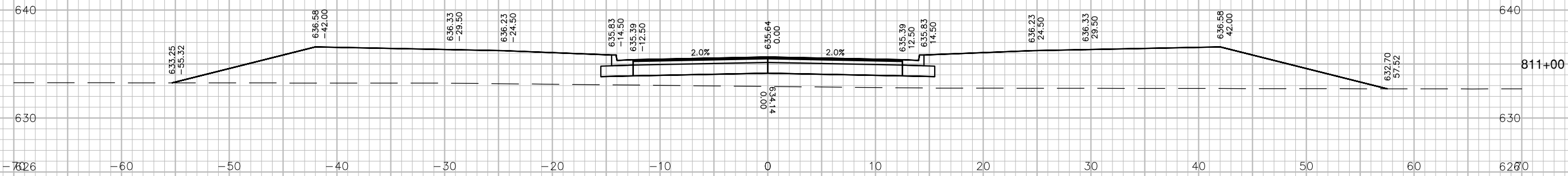
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MEADOW ROSE LANE AND BATTERY AVENUE

FILE
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DATE
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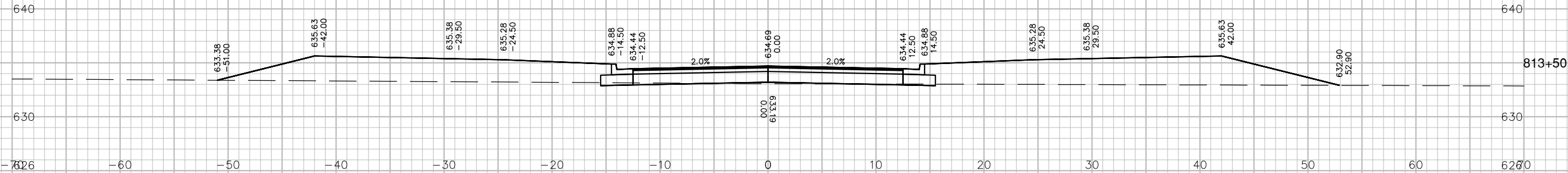
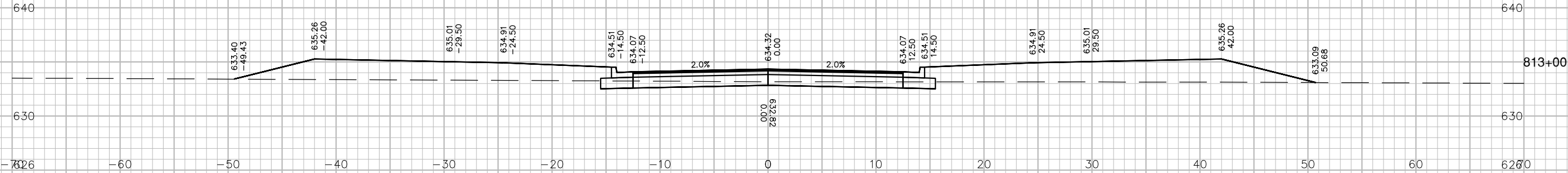
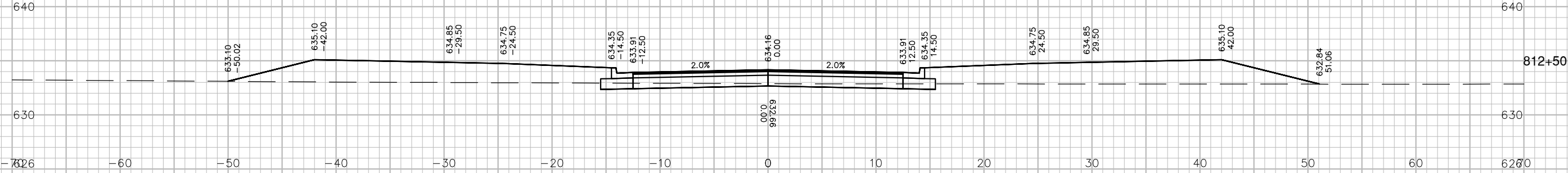
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MEADOW ROSE LANE AND BATTERY AVENUE

FILE
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JOB NO.
0404471

DATE
06/22

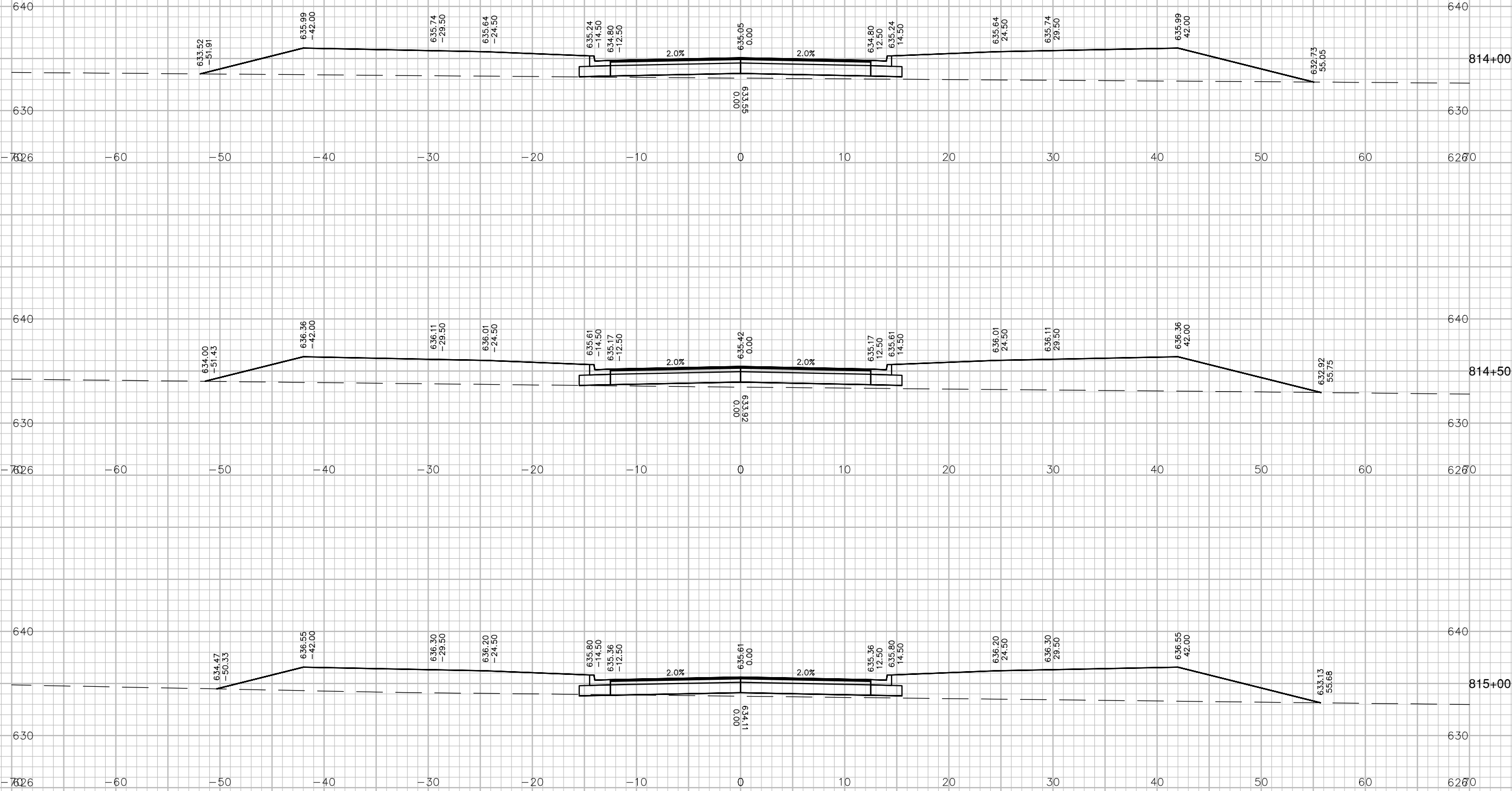


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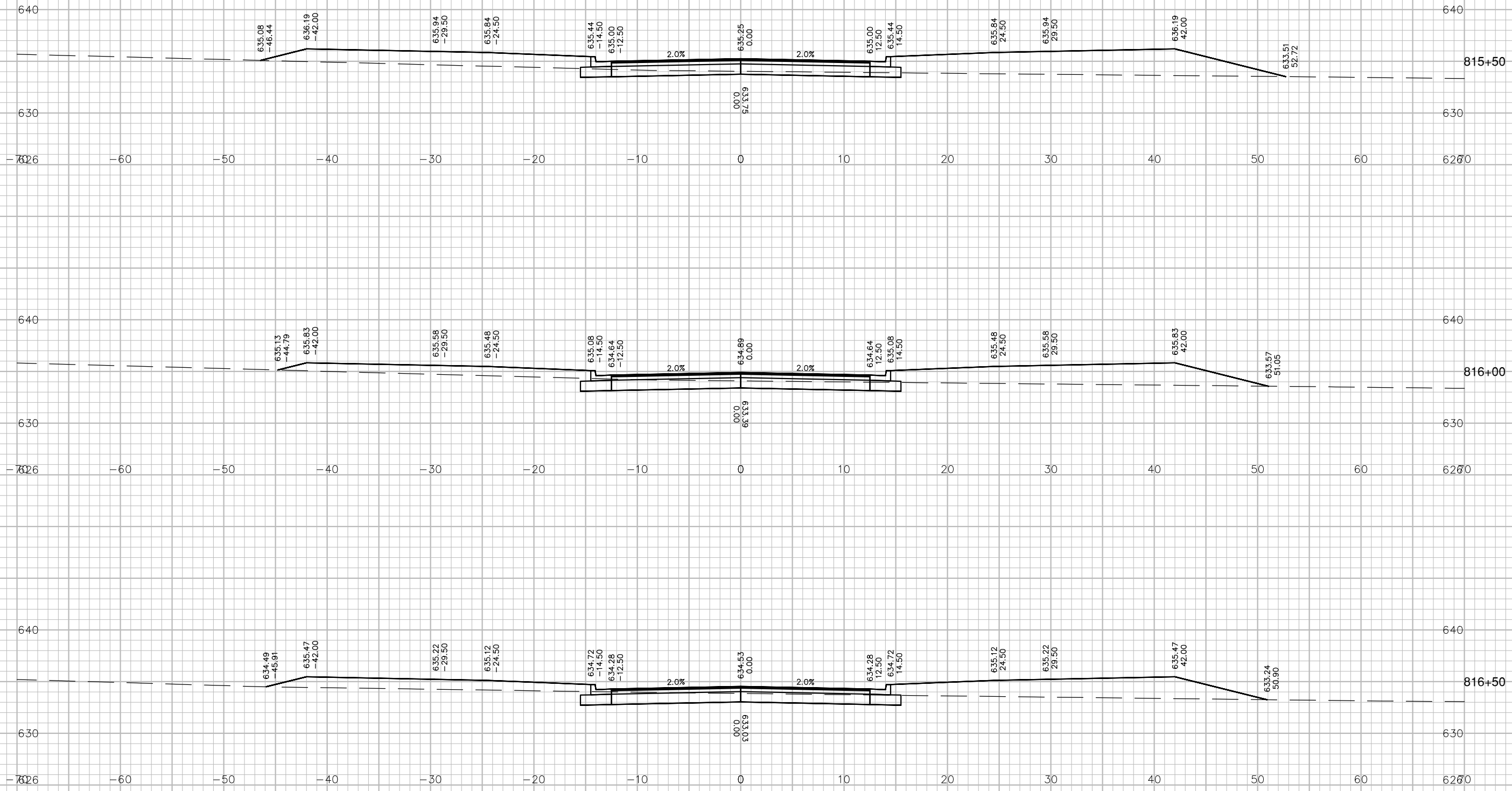
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16

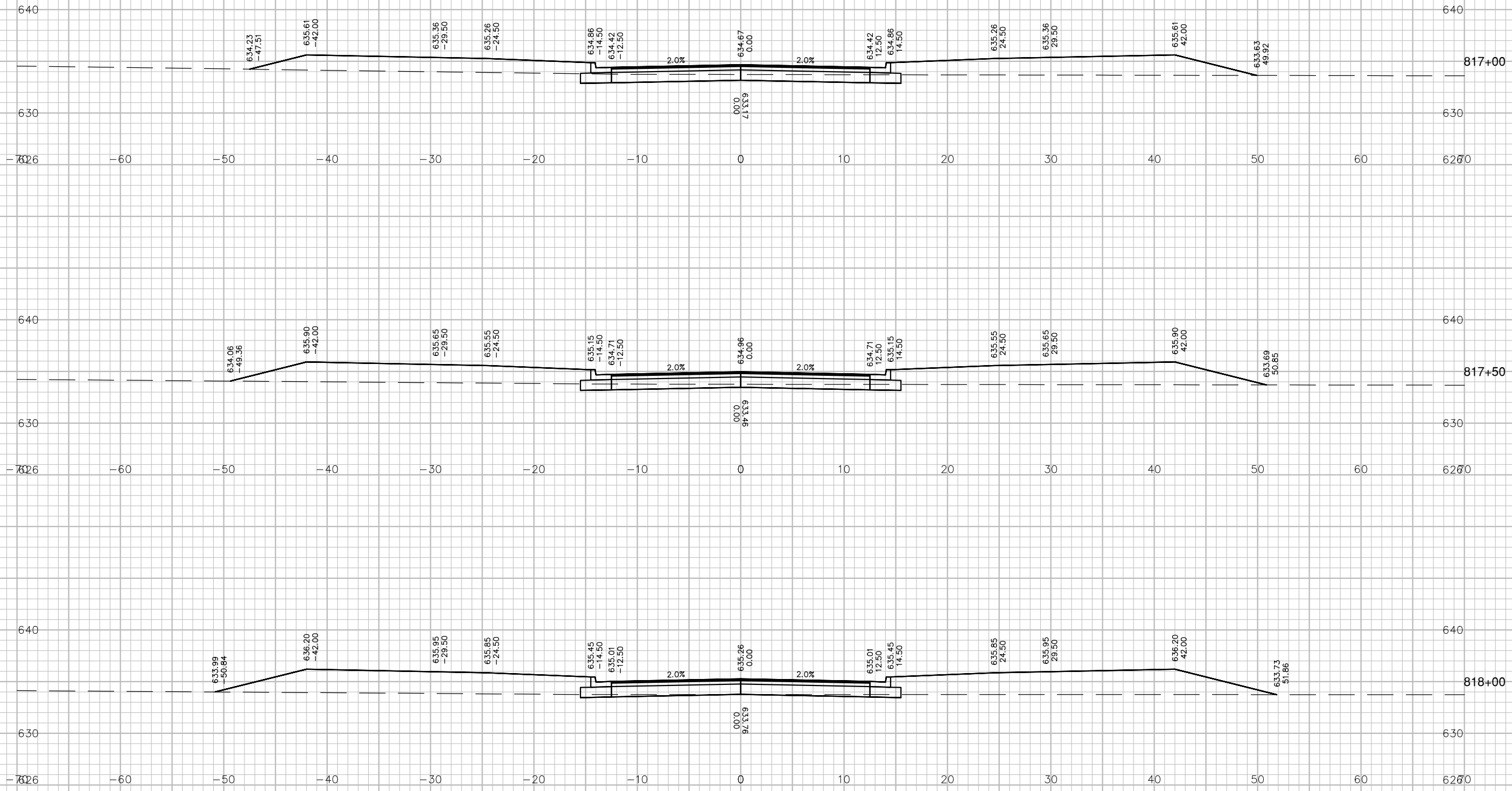
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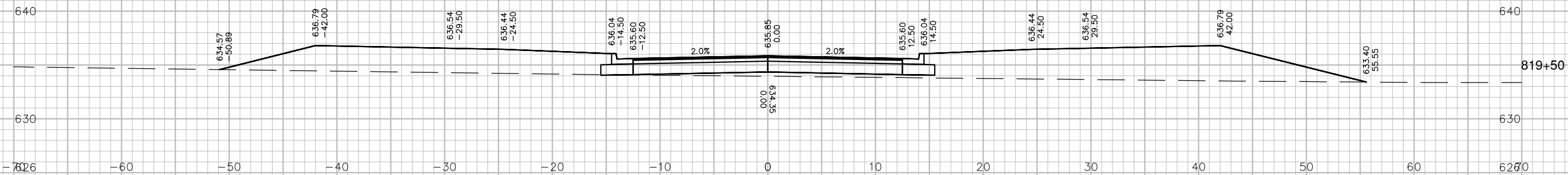
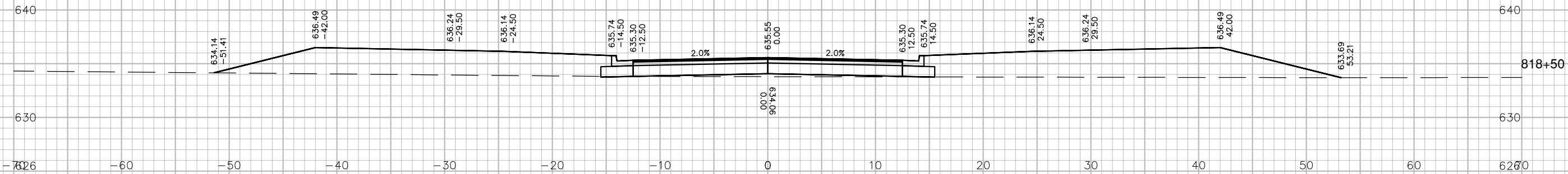
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Plot Date: Jun 14, 2022 - 8:27am



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Plot Date: Jun 14, 2022 - 8:27am



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BROWN COUNTY, WISCONSIN

MEADOW ROSE LANE AND BATTERY AVENUE

FILE
0404471XS BATTERY.DWG
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0404471

DATE
06/22

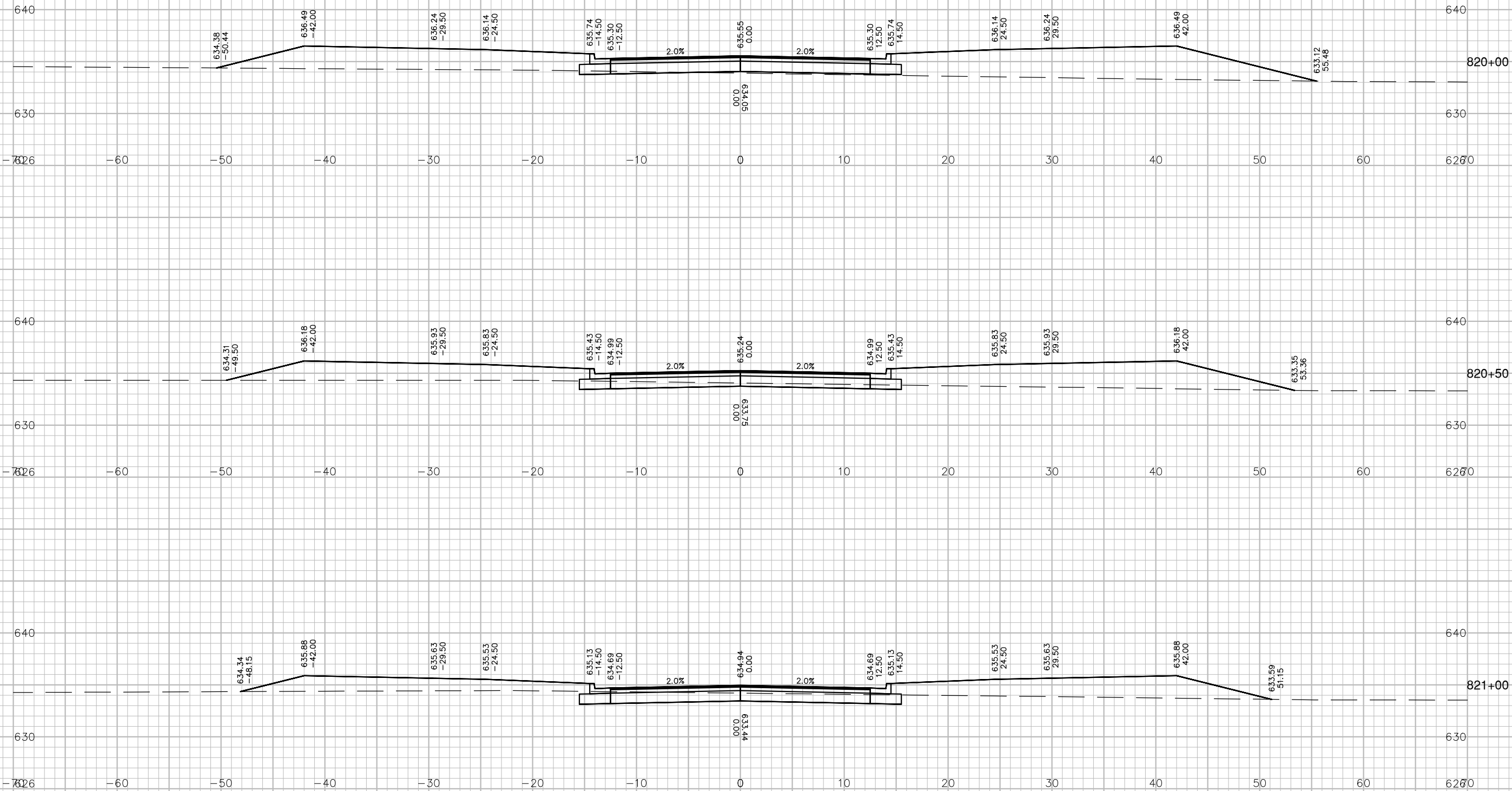


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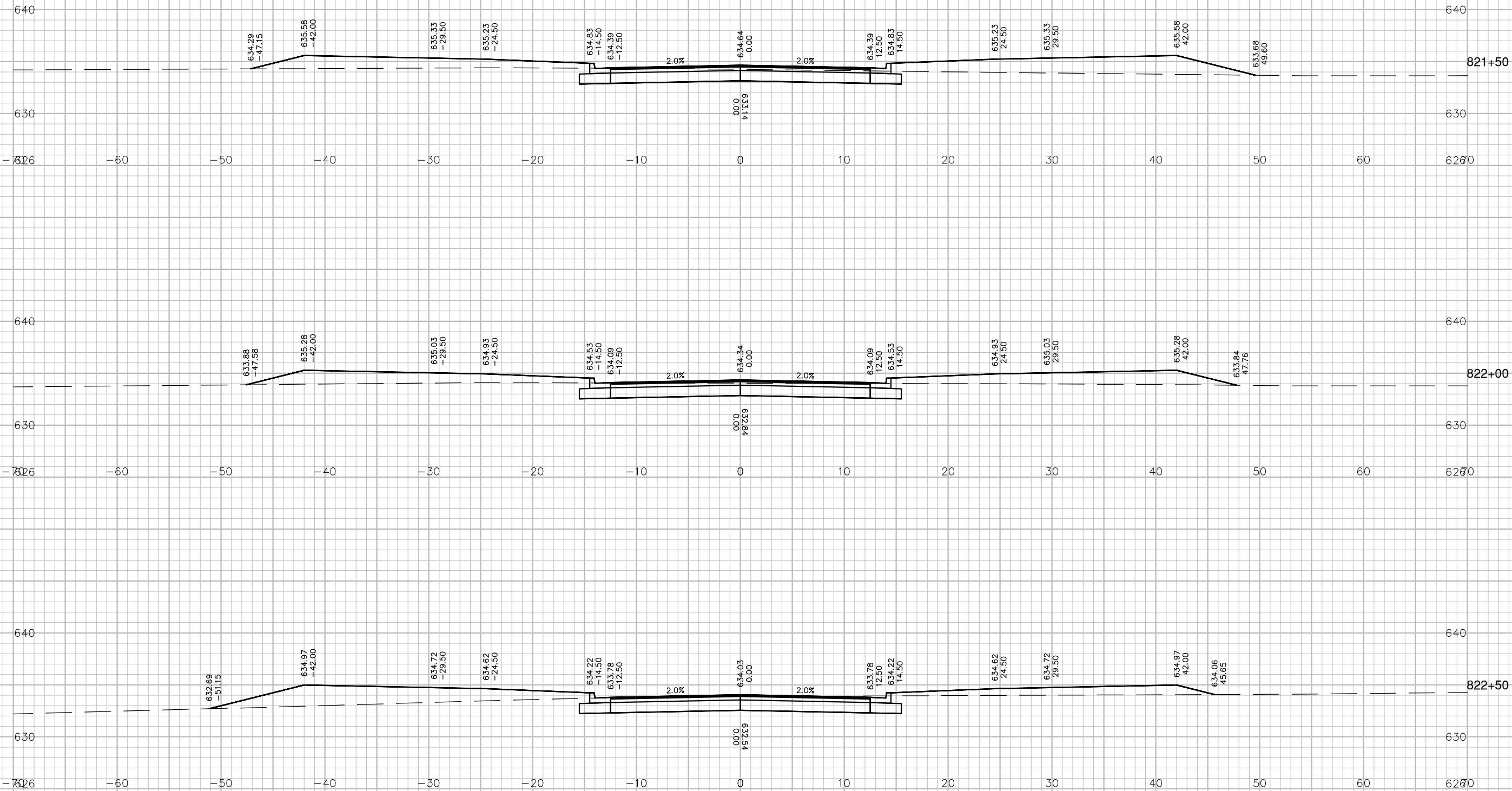
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20

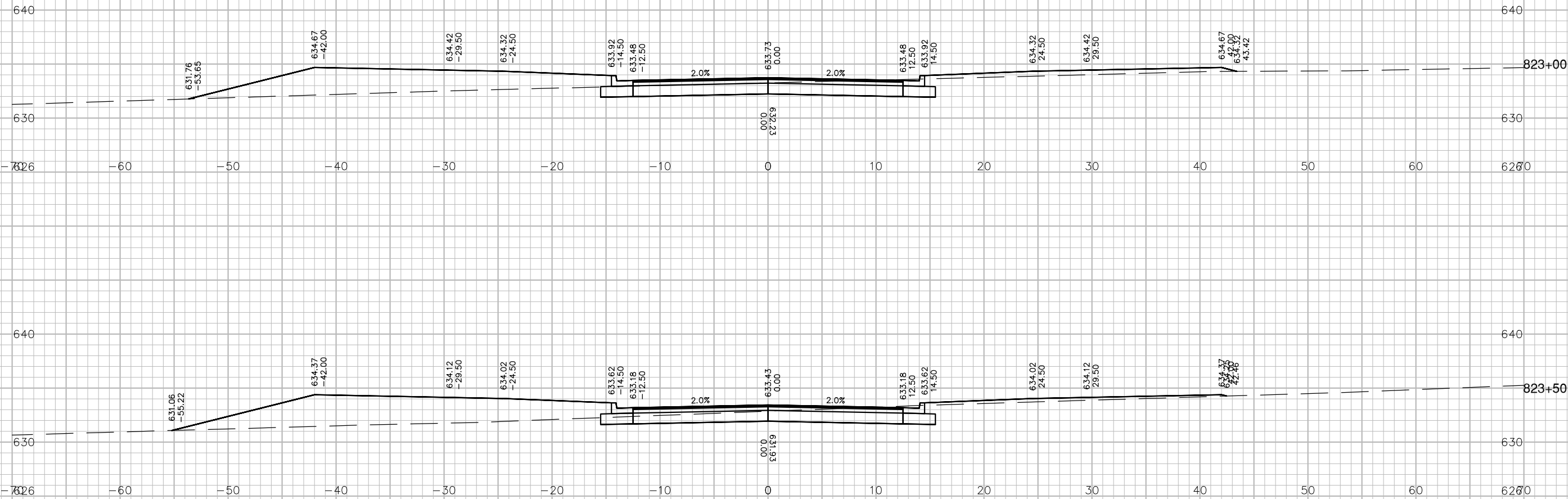
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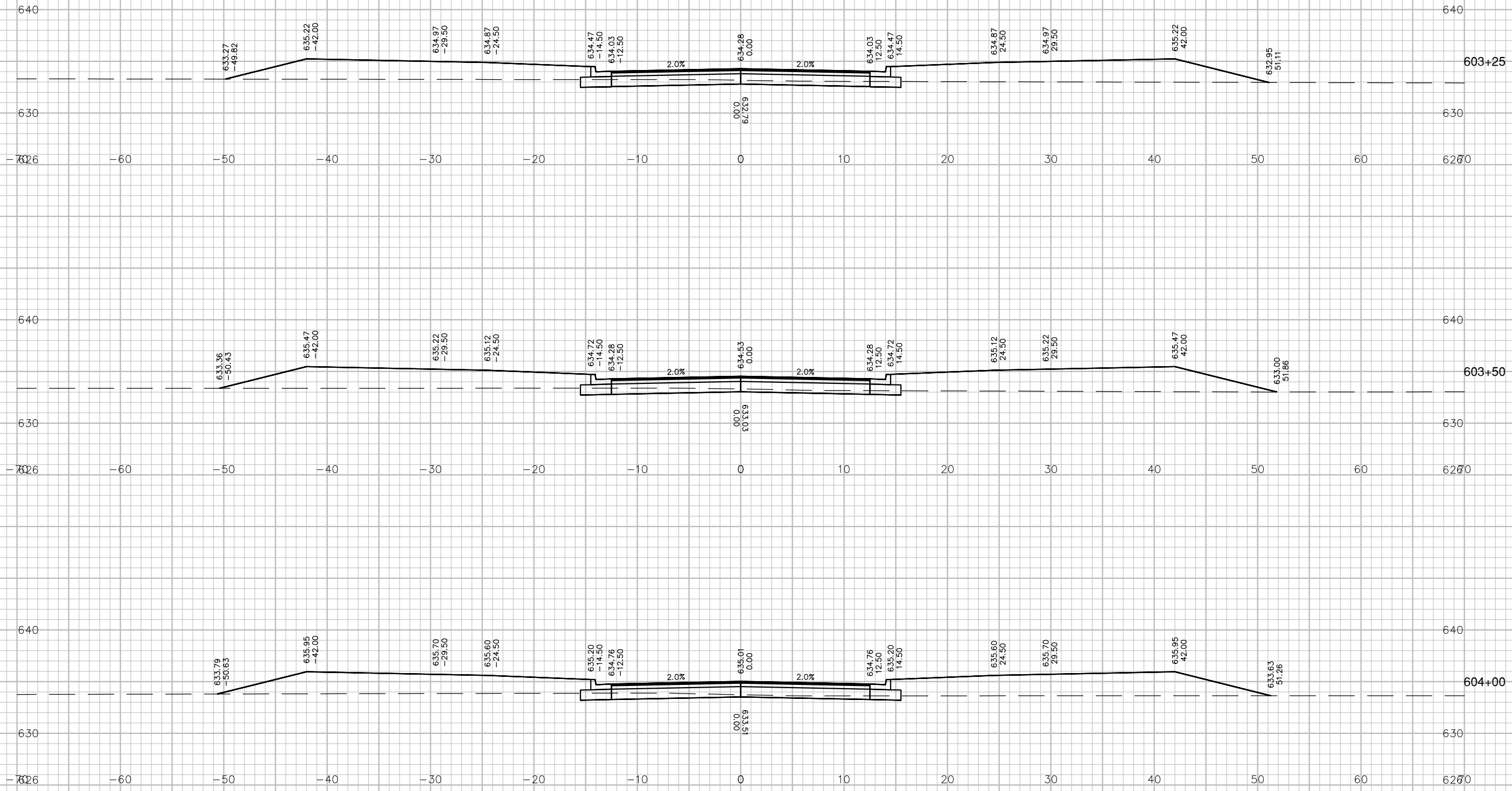
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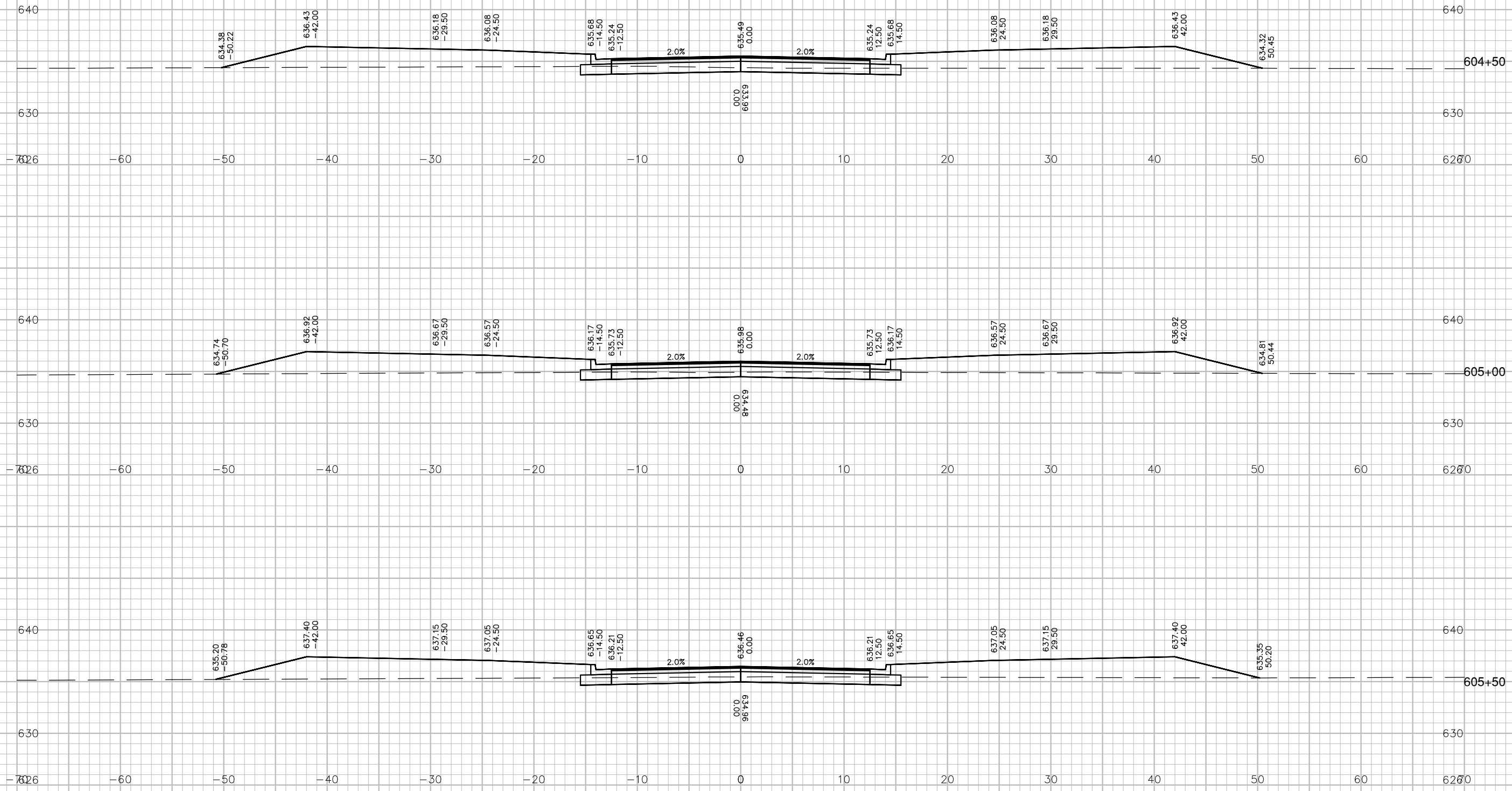
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Plot Date: Jun 14, 2022 - 8:31am



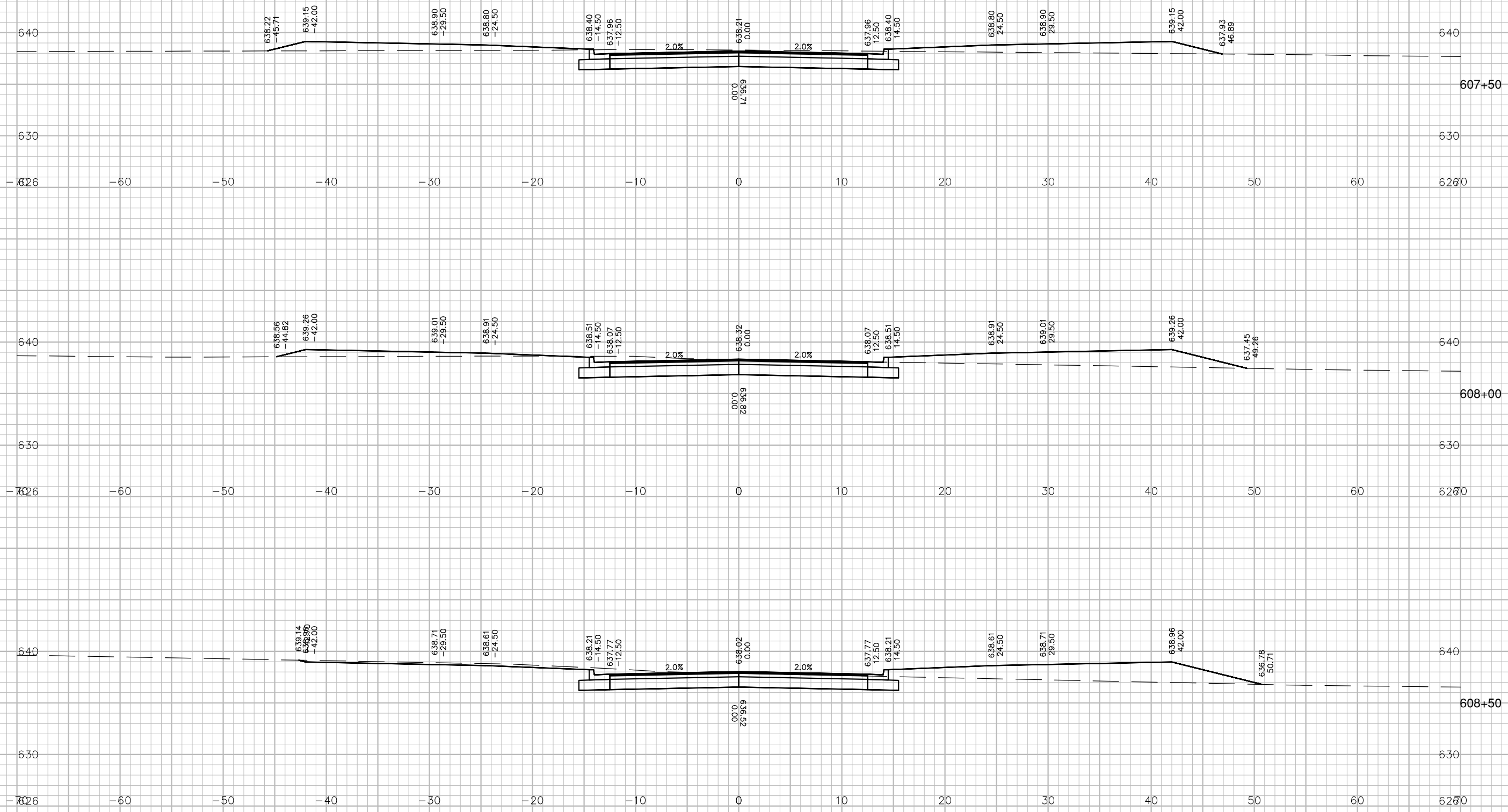
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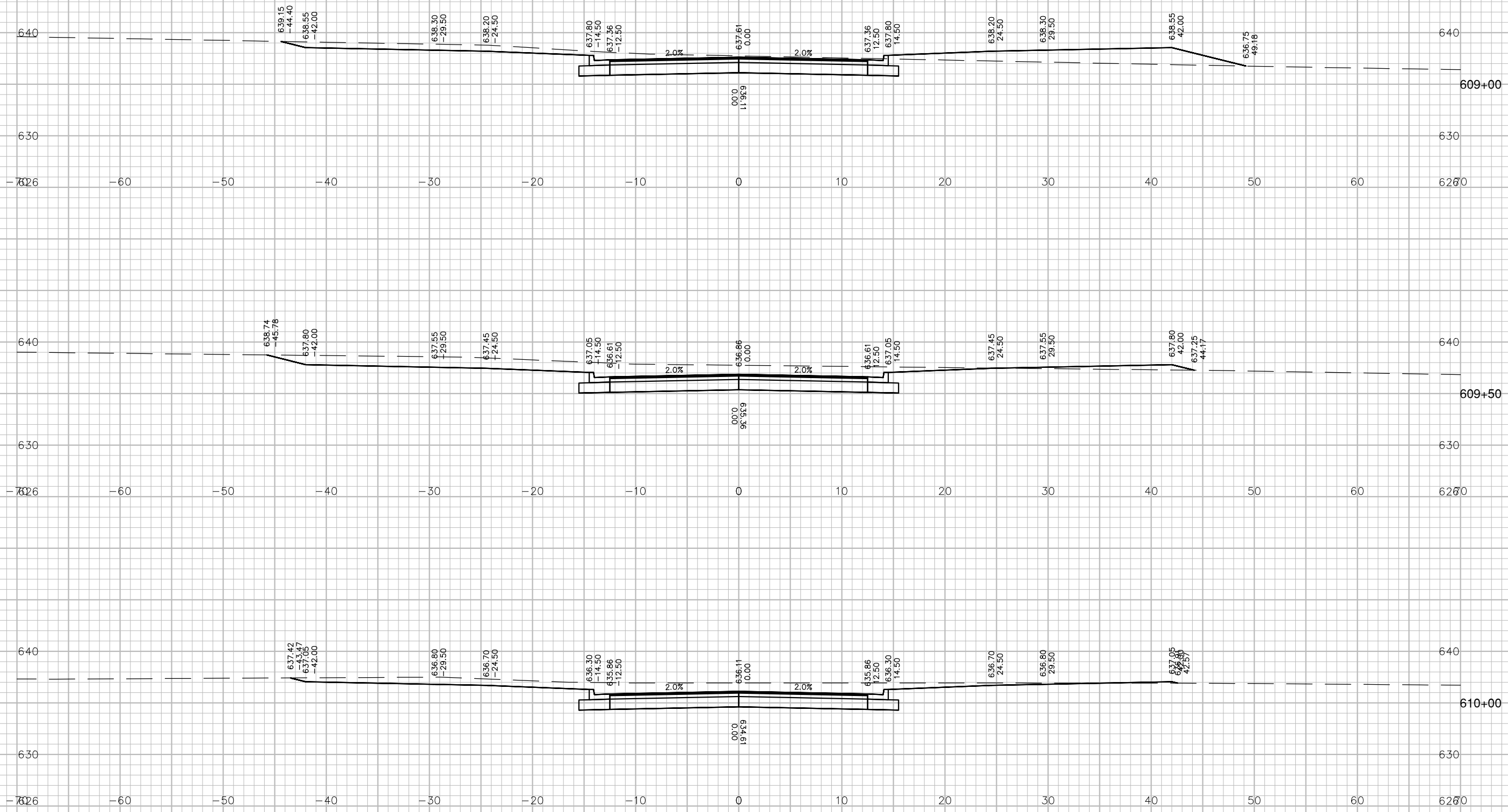
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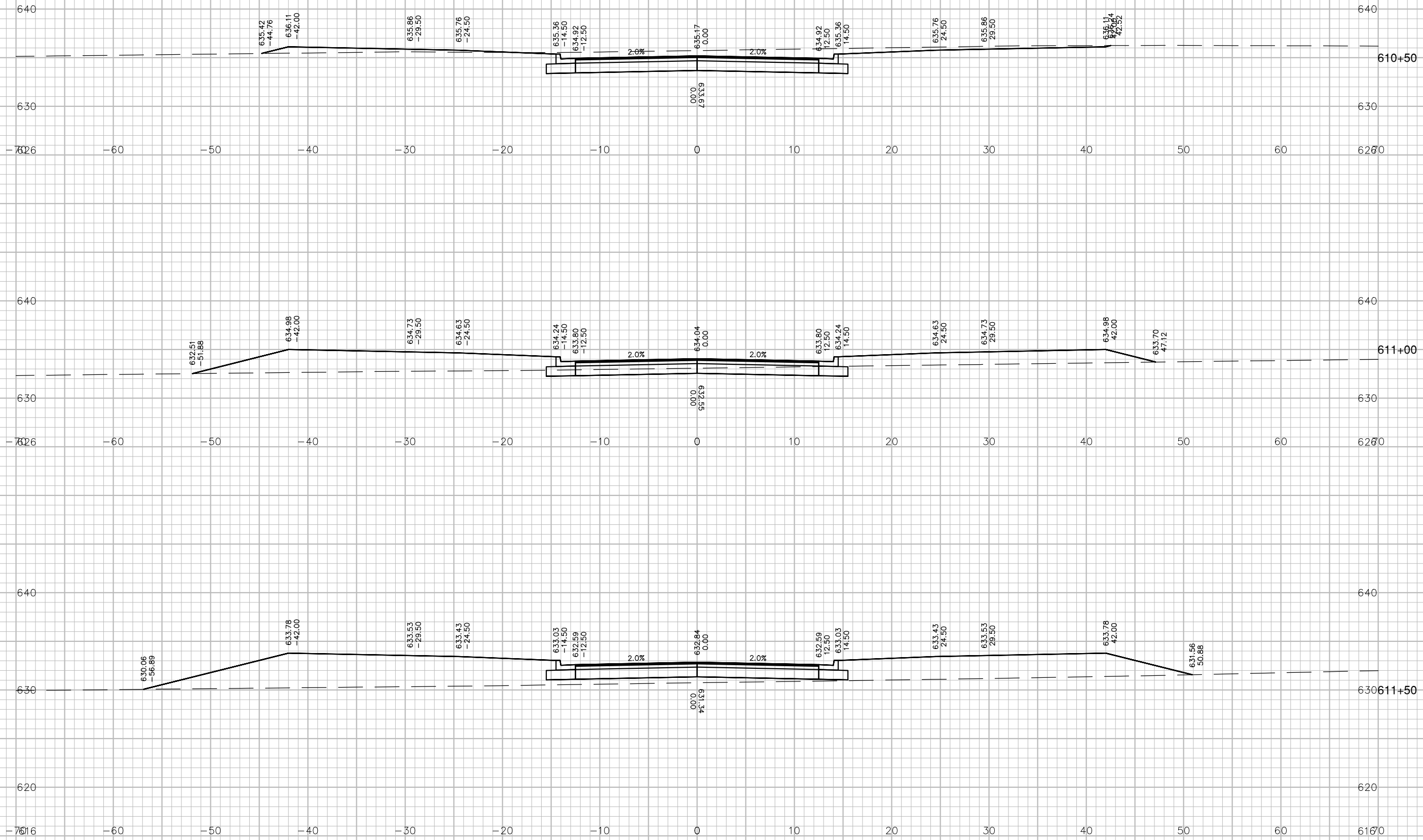
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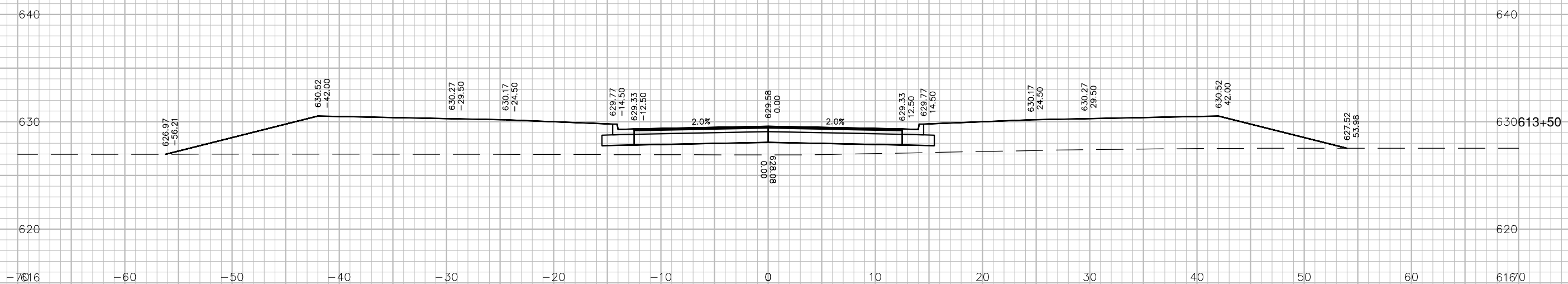
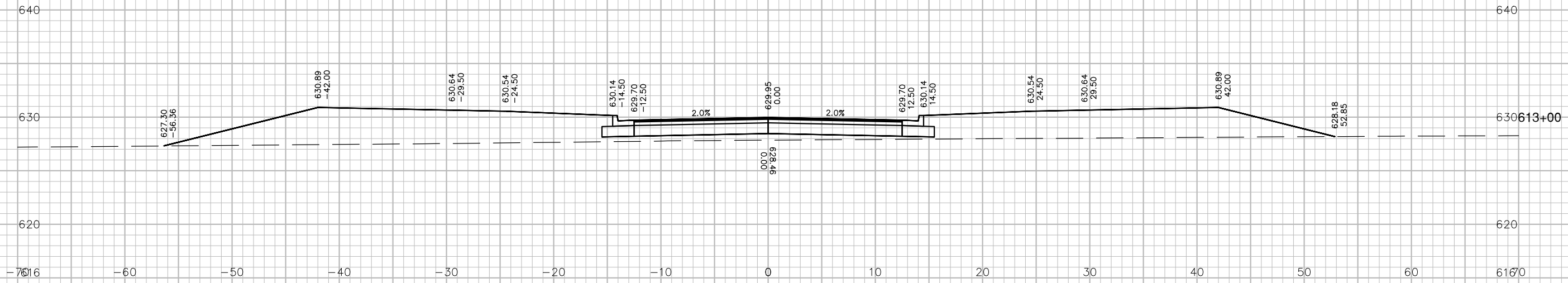
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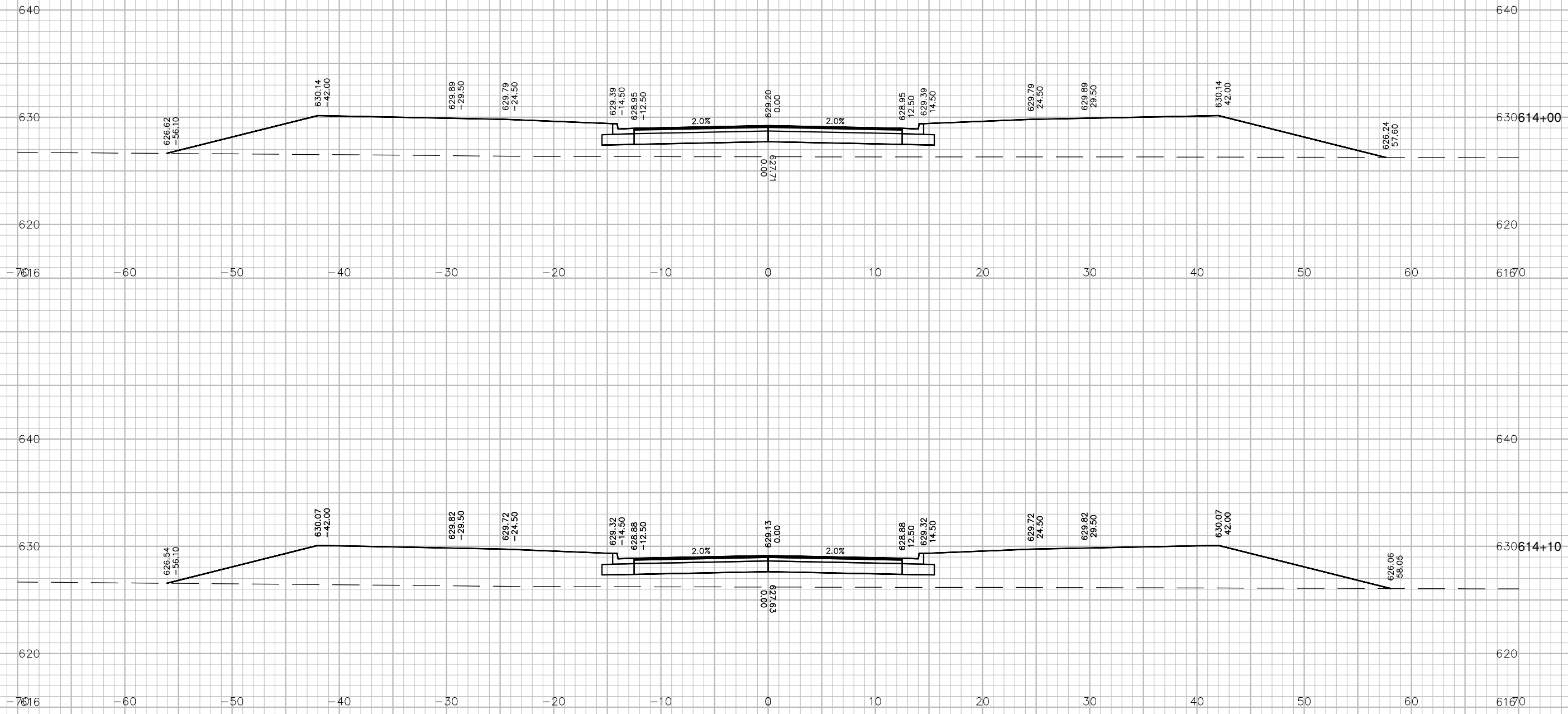
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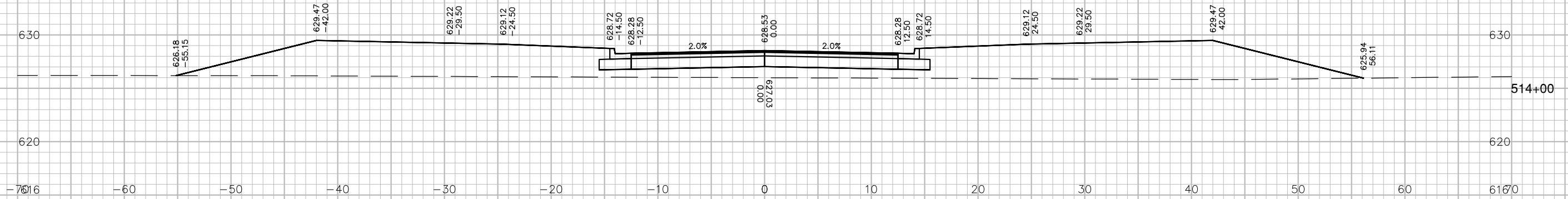
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Plot Date: Jun 14, 2022 - 8:52am



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Plot Date: Jun 14, 2022 - 8:53am



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BROWN COUNTY, WISCONSIN

VIN SCULLY LANE

FILE
0404471XS VIN SCULLY.DWG
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0404471

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33