

\$3,651,225.00  
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BID OF R. G. HUSTON CO., INC.

2022

PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS

FOR

ST. PAUL AVENUE, OHIO AVENUE, TALMADGE STREET, JACKSON STREET  
AND LAFOLLETTE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT - 2022

CONTRACT NO. 8616

PROJECT NO. 12907

MUNIS NO. 12907

IN

MADISON, DANE COUNTY, WISCONSIN

AWARDED BY THE COMMON COUNCIL  
MADISON, WISCONSIN ON MARCH 29, 2022

CITY ENGINEERING DIVISION  
1600 EMIL STREET  
MADISON, WISCONSIN 53713

<https://bidexpress.com/login>

**ST. PAUL AVENUE, OHIO AVENUE, TALMADGE STREET, JACKSON STREET  
AND LAFOLLETTE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT - 2022  
CONTRACT NO. 8616**

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This Proposal, and Agreement have  
been prepared by:

**CITY ENGINEERING DIVISION  
CITY OF MADISON  
MADISON, DANE COUNTY, WISCONSIN**



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Robert F. Phillips, P.E., City Engineer

RFP: AC

# SECTION A: ADVERTISEMENT FOR BIDS AND INSTRUCTIONS TO BIDDERS

## REQUEST FOR BID FOR PUBLIC WORKS CONSTRUCTION CITY OF MADISON, WISCONSIN

### A BEST VALUE CONTRACTING MUNICIPALITY

PROJECT NAME:	ST. PAUL AVENUE, OHIO AVENUE, TALMADGE STREET, JACKSON STREET AND LAFOLLETTE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT - 2022
CONTRACT NO.:	8616
SBE GOAL	8%
BID BOND	5%
SBE PRE BID MEETING	See Pre Bid Meeting info below
PREQUALIFICATION APPLICATION DUE (2:00 P.M.)	02/10/2022
BID SUBMISSION (2:00 P.M.)	02/17/2022
BID OPEN (2:30 P.M.)	02/17/2022
PUBLISHED IN WSJ	02/03/2022 & 02/10/2022

**SBE PRE BID MEETING:** Small Business Enterprise Pre-Bid Meetings are not being held in person at this time. Contractors can schedule one-on-one phone calls with Juan Pablo Torres Meza in Affirmative Action to count towards good faith efforts. Juan Pablo can be reached at (608) 261-9162 or by email, [jtorresmeza@cityofmdison.com](mailto:jtorresmeza@cityofmdison.com).

**PREQUALIFICATION APPLICATION:** Forms are available on our website, [www.cityofmadison.com/engineering/developers-contractors/contractors/how-to-get-prequalified](http://www.cityofmadison.com/engineering/developers-contractors/contractors/how-to-get-prequalified). If not currently prequalified in the categories listed in Section A, an amendment to your Prequalification will need to be submitted prior to the same due date. Postmark is not applicable.

**BIDS TO BE SUBMITTED:** by hand to 1600 EMIL ST., MADISON, WI 53713 or online at [www.bidexpress.com](http://www.bidexpress.com).

THE BID OPENING is at 1600 EMIL ST., MADISON, WI 53713.

Bids may be submitted on line through Bid Express or in person at 1600 Emil St. The bids will be posted on line after the bid opening. If you have any questions, please call Alane Boutelle at (608) 267-1197, or John Fahrney at (608) 266-9091.

#### STANDARD SPECIFICATIONS

The City of Madison's Standard Specifications for Public Works Construction - 2022 Edition, as supplemented and amended from time to time, forms a part of these contract documents as if attached hereto.

These standard specifications are available on the City of Madison Public Works website, [www.cityofmadison.com/engineering/developers-contractors/standard-specifications](http://www.cityofmadison.com/engineering/developers-contractors/standard-specifications).

The Contractor shall review these Specifications prior to preparation of proposals for the work to be done under this contract, with specific attention to Article 102, "BIDDING REQUIREMENTS AND CONDITIONS" and Article 103, "AWARD AND EXECUTION OF THE CONTRACT." For the convenience of the bidder, below are highlights of three subsections of the specifications.

## SECTION 102.1: PRE-QUALIFICATION OF BIDDERS

In accordance with Wisconsin State Statutes 66.0901 (2) and (3), all bidders must submit to the Board of Public Works proof of responsibility on forms furnished by the City. The City requires that all bidders be qualified on a biennial basis.

Bidders must present satisfactory evidence that they have been regularly engaged in the type of work specified herein and they are fully prepared with necessary capital, materials, machinery and supervisory personnel to conduct the work to be contracted for to the satisfaction of the City. All bidders must be pre-qualified by the Board of Public Works for the type of construction on which they are bidding prior to the opening of the bid.

In accordance with Section 39.02(9)(a). of the General Ordinances, all bidders shall submit in writing to the Affirmative Action Division Manager of the City of Madison, a Certificate of Compliance or an Affirmative Action Plan at the same time or prior to the submission of the proof of responsibility forms.

The bidder shall be disqualified if the bidder fails to or refuses to, prior to opening of the bid, submit a Certificate of compliance, Affirmative Action Plan or Affirmative Action Data Update, as applicable, as defined by Section 39.02 of the General Ordinances (entitled Affirmative Action) and as required by Section 102.11 of the Standard Specifications.

## SECTION 102.4 PROPOSAL

No bid will be accepted that does not contain an adequate or reasonable price for each and every item named in the Schedule of Unit Prices.

A lump sum bid for the work in accordance with the plans and specifications is required. The lump sum bid must be the same as the total amounts bid for the various items and it shall be inserted in the space provided.

All papers bound with or attached to the proposal form are considered a part thereof and must not be detached or altered when the proposal is submitted. The plans, specifications and other documents designated in the proposal form will be considered a part of the proposal whether attached or not.

A proposal submitted by an individual shall be signed by the bidder or by a duly authorized agent. A proposal submitted by a partnership shall be signed by a member/partner or by a duly authorized agent thereof. A proposal submitted by a corporation shall be signed by an authorized officer or duly authorized registered agent of such corporation, and the proposal shall show the name of the State under the laws of which such corporation was chartered. The required signatures shall in all cases appear in the space provided thereof on the proposal.

Each proposal shall be placed, together with the proposal guaranty, in a sealed envelope, so marked as to indicate name of project, the contract number or option to which it applies, and the name and address of the Contractor or submitted electronically through Bid Express ([www.bidexpress.com](http://www.bidexpress.com)). Proposals will be accepted at the location, the time and the date designated in the advertisement. Proposals received after the time and date designated will be returned to the bidder unopened.

## SECTION 102.5: BID DEPOSIT (PROPOSAL GUARANTY)

All bids, sealed or electronic, must be accompanied with a Bid Bond (City of Madison form) equal to at least 5% of the bid or a Certificate of Annual/Biennial Bid Bond or certified check, payable to the City Treasurer. Bid deposit of the successful bidders shall be returned within forty-eight (48) hours following execution of the contract and bond as required.

## MINOR DISCREPANCIES

Bidder is responsible for submitting all forms necessary for the City to determine compliance with State and City bidding requirements. Notwithstanding any language to the contrary contained herein, the City

may exercise its discretion to allow bidders to correct or supplement submissions after bid opening, if the minor discrepancy, bid irregularity or omission is insignificant and not one related to price, quality, quantity, time of completion or performance of the contract.

**Bidders for this Contract(s) must be Pre-Qualified for at least one of the following type(s) of construction denoted by an**

Building Demolition

- 101  Asbestos Removal
- 120  House Mover

Street, Utility and Site Construction

- 201  Asphalt Paving
- 205  Blasting
- 210  Boring/Pipe Jacking
- 215  Concrete Paving
- 220  Con. Sidewalk/Curb & Gutter/Misc. Flat Work
- 221  Concrete Bases and Other Concrete Work
- 222  Concrete Removal
- 225  Dredging
- 230  Fencing
- 235  Fiber Optic Cable/Conduit Installation
- 240  Grading and Earthwork
- 241  Horizontal Saw Cutting of Sidewalk
- 242  Hydro Excavating
- 243  Infrared Seamless Patching
- 245  Landscaping, Maintenance
- 246  Ecological Restoration
- 250  Landscaping, Site and Street
- 251  Parking Ramp Maintenance
- 252  Pavement Marking
- 255  Pavement Sealcoating and Crack Sealing
- 260  Petroleum Above/Below Ground Storage Tank Removal/Installation
- 262  Playground Installer

- 110  Building Demolition

- 265  Retaining Walls, Precast Modular Units
- 270  Retaining Walls, Reinforced Concrete
- 275  Sanitary, Storm Sewer and Water Main Construction
- 276  Sawcutting
- 280  Sewer Lateral Drain Cleaning/Internal TV Insp.
- 285  Sewer Lining
- 290  Sewer Pipe Bursting
- 295  Soil Borings
- 300  Soil Nailing
- 305  Storm & Sanitary Sewer Laterals & Water Svc.
- 310  Street Construction
- 315  Street Lighting
- 318  Tennis Court Resurfacing
- 320  Traffic Signals
- 325  Traffic Signing & Marking
- 332  Tree pruning/removal
- 333  Tree, pesticide treatment of
- 335  Trucking
- 340  Utility Transmission Lines including Natural Gas, Electrical & Communications
- 399  Other

Bridge Construction

- 501  Bridge Construction and/or Repair

Building Construction

- 401  Floor Covering (including carpet, ceramic tile installation, rubber, VCT)
- 402  Building Automation Systems
- 403  Concrete
- 404  Doors and Windows
- 405  Electrical - Power, Lighting & Communications
- 410  Elevator - Lifts
- 412  Fire Suppression
- 413  Furnishings - Furniture and Window Treatments
- 415  General Building Construction, Equal or Less than \$250,000
- 420  General Building Construction, \$250,000 to \$1,500,000
- 425  General Building Construction, Over \$1,500,000
- 428  Glass and/or Glazing
- 429  Hazardous Material Removal
- 430  Heating, Ventilating and Air Conditioning (HVAC)
- 433  Insulation - Thermal
- 435  Masonry/Tuck pointing

- 437  Metals
- 440  Painting and Wallcovering
- 445  Plumbing
- 450  Pump Repair
- 455  Pump Systems
- 460  Roofing and Moisture Protection
- 464  Tower Crane Operator
- 461  Solar Photovoltaic/Hot Water Systems
- 465  Soil/Groundwater Remediation
- 466  Warning Sirens
- 470  Water Supply Elevated Tanks
- 475  Water Supply Wells
- 480  Wood, Plastics & Composites - Structural & Architectural
- 499  Other

State of Wisconsin Certifications

- 1  Class 5 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for quarries, open pits and road cuts.
- 2  Class 6 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for trenches, site excavations, basements, underwater demolition, underground excavations, or structures 15 feet or less in height.
- 3  Class 7 Blaster - Blasting Operations and Activities for structures greater than 15' in height, bridges, towers, and any of the objects or purposes listed as "Class 5 Blaster or Class 6 Blaster".
- 4  Petroleum Above/Below Ground Storage Tank Removal and Installation (Attach copies of State Certifications.)
- 5  Hazardous Material Removal (Contractor to be certified for asbestos and lead abatement per the Wisconsin Department of Health Services, Asbestos and Lead Section (A&LS).) See the following link for application: [www.dhs.wisconsin.gov/Asbestos/Cert](http://www.dhs.wisconsin.gov/Asbestos/Cert). State of Wisconsin Performance of Asbestos Abatement Certificate must be attached.
- 6  Certification number as a Certified Arborist or Certified Tree Worker as administered by the International Society of Arboriculture
- 7  Pesticide application (Certification for Commercial Applicator For Hire with the certification in the category of turf and landscape (3.0) and possess a current license issued by the DATCP)
- 8  State of Wisconsin Master Plumbers License.

SECTION B: PROPOSAL

Please refer to the  
Bid Express Website  
at <https://bidexpress.com>  
look up contract number  
and go to  
Section B: Proposal Page

You can access all City of Madison bid solicitations for FREE at [www.bidexpress.com](http://www.bidexpress.com)

Click on the "Register for Free" button and follow the instructions to register your company and yourself. You will be asked for a payment subscription preference, since you may wish to bid online someday. Simply choose the method to pay on a 'per bid' basis. This requires no payment until / unless you actually bid online. You can also choose the monthly subscription plan at this time. You will, however, be asked to provide payment information. Remember, you can change your preference at anytime. You will then be able to complete your free registration and have full access to the site. Your free access does not require completion of the 'Digital ID' process, so you will have instant access for viewing and downloading. To be prepared in case you ever do wish to bid online, you may wish to establish your digital ID also, since you cannot bid without a Digital ID.

If you have any problems with the free registration process, you can call the bidexpress help team, toll free at 1-888-352-2439 (option 1, option1).

## SECTION C: SMALL BUSINESS ENTERPRISE

### Instructions to Bidders City of Madison SBE Program Information

#### 2 Small Business Enterprise (SBE) Program Information

##### 2.1 Policy and Goal

The City of Madison reaffirms its policy of nondiscrimination in the conduct of City business by maintaining a procurement process which remains open to all who have the potential and ability to sell goods and services to the City. It is the policy of the City of Madison to allow Small Business Enterprises (SBE) maximum feasible opportunity to participate in City of Madison contracting. The bidder acknowledges that its bid has been submitted in accordance with the SBE program and is for the public's protection and welfare.

Please refer to the "ADVERTISEMENT FOR BIDS" for the goal for the utilization of SBEs on this project. SBEs may participate as subcontractors, vendors and/or suppliers, which provide a commercially useful function. The dollar value for SBE suppliers or 'materials only' vendors shall be discounted to 60% for purposes of meeting SBE goals.

A bidder which achieves or exceeds the SBE goal will be in compliance with the SBE requirements of this project. In the event that the bidder is unable to achieve the SBE goal, the bidder must demonstrate that a good faith effort to do so was made. Failure to either achieve the goal or demonstrate a good faith effort to do so will be grounds for the bidder being deemed a non-responsible contractor ineligible for award of this contract.

A bidder may count towards its attainment of the SBE goal only those expenditures to SBEs that perform a commercially useful function. For purposes of evaluating a bidder's responsiveness to the attainment of the SBE goal, the contract participation by an SBE is based on the percentage of the total base bid proposed by the Contractor. The total base bid price is inclusive of all addenda.

Work performed by an SBE firm in a particular transaction can be counted toward the goal only if it involves a commercially useful function. That is, in light of industry practices and other relevant considerations, does the SBE firm have a necessary and useful role in the transaction, of a kind for which there is a market outside the context of the SBE Program, or is the firm's role a superfluous step added in an attempt to obtain credit towards goals? If, in the judgment of the Affirmative Action Division, the SBE firm will not perform a commercially useful function in the transaction, no credit towards goals will be awarded.

The question of whether a firm is performing a commercially useful function is completely separate from the question of whether the firm is an eligible SBE. A firm is eligible if it meets the definitional criteria and ownership and control requirements, as set forth in the City of Madison's SBE Program.

If the City of Madison determines that the SBE firm is performing a commercially useful function, then the City of Madison must then decide what that function is. If the commercially useful function is that of an SBE vendor / supplier that regularly transacts business with the respective product, then the City of Madison will count 60% of the value of the product supplied toward SBE goals.



To be counted, the SBE vendor / supplier must be engaged in selling the product in question to the public. This is important in distinguishing an SBE vendor / supplier, which has a regular trade with a variety of customers, from a firm which performs supplier-like functions on an ad hoc basis or for only one or two contractors with whom it has a special relationship.

A supplier of bulk goods may qualify as an eligible SBE vendor / supplier if it either maintains an inventory or owns or operates distribution equipment. With respect to the distribution equipment; e.g., a fleet of trucks, the term "operates" is intended to cover a situation in which the supplier leases the equipment on a regular basis for its entire business. It is not intended to cover a situation in which the firm simply provides drivers for trucks owned or leased by another party; e.g., a prime contractor, or leases such a party's trucks on an ad hoc basis for a specific job.

If the commercially useful function being performed is not that of a qualified SBE vendor / supplier, but rather that of delivery of products, obtaining bonding or insurance, procurement of personnel, acting as a broker or manufacturer's representative in the procurement of supplies, facilities, or materials, etc., only the fees or commissions will apply towards the goal.

For example, a business that simply transfers title of a product from manufacturer to ultimate purchaser; e. g., a sales representative who re-invoices a steel product from the steel company to the Contractor, or a firm that puts a product into a container for delivery would not be considered a qualified SBE vendor / supplier. The Contractor would not receive credit based on a percentage of the cost of the product for working with such firms.

Concerning the use of services that help the Contractor obtain needed supplies, personnel, materials or equipment to perform a contract: only the fee received by the service provider will be counted toward the goal. For example, use of a SBE sales representative or distributor for a steel company, if performing a commercially useful function at all, would entitle the Contractor receiving the steel to count only the fee paid to the representative or distributor toward the goal. This provision would also govern fees for professional and other services obtained expressly and solely to perform work relating to a specific contract.

Concerning transportation or delivery services: if an SBE trucking company picks up a product from a manufacturer or a qualified vendor / supplier and delivers the product to the Contractor, the commercially useful function it is performing is not that of a supplier, but simply that of a transporter of goods. Unless the trucking company is itself the manufacturer or a qualified vendor / supplier in the product, credit cannot be given based on a percentage of the cost of the product. Rather, credit would be allowed for the cost of the transportation service.

The City is aware that the rule's language does not explicitly mention every kind of business that may contribute work on this project. In administering these programs, the City would, on a case-by-case basis, determine the appropriate counting formula to apply in a particular situation.

## **2.2 Contract Compliance**

Questions concerning the SBE Program shall be directed to the Contract Compliance Officer of the City of Madison Department of Civil Rights, Affirmative Action Division, 210 Martin Luther King, Jr. Blvd., Room 523, Madison, WI 53703; telephone (608) 266-4910.

## 2.3 Certification of SBE by City of Madison

The Affirmative Action Division maintains a directory of SBEs which are currently certified as such by the City of Madison. Contact the Contract Compliance Officer as indicated in Section 2.2 to receive a copy of the SBE Directory or you may access the SBE Directory online at [www.cityofmadison.com/civil-rights/contract-compliance/targeted-business-enterprise-programs/targeted-business-enterprise](http://www.cityofmadison.com/civil-rights/contract-compliance/targeted-business-enterprise-programs/targeted-business-enterprise).

All contractors, subcontractors, vendors and suppliers seeking SBE status must complete and submit the **Targeted Business Certification Application** to the City of Madison Affirmative Action Division by the time and date established for receipt of bids. A copy of the Targeted Business Certification Application is available by contacting the Contract Compliance Officer at the address and telephone indicated in Section 2.2 or you may access the Targeted Business Certification Application online at [www.cityofmadison.com/civil-rights/contract-compliance/targeted-business-enterprise-programs/targeted-business-enterprise](http://www.cityofmadison.com/civil-rights/contract-compliance/targeted-business-enterprise-programs/targeted-business-enterprise). Submittal of the Targeted Business Certification Application by the time specified does not guarantee that the applicant will be certified as a SBE eligible to be utilized towards meeting the SBE goal for this project.

## 2.4 Small Business Enterprise Compliance Report

### 2.4.1 Good Faith Efforts

Bidders shall take all necessary affirmative steps to assure that SBEs are utilized when possible and that the established SBE goal for this project is achieved. A contractor who self performs a portion of the work, and is pre-qualified to perform that category of work, may subcontract that portion of the work, but shall not be required to do so. When a bidder is unable to achieve the established SBE goal, the bidder must demonstrate that a good faith effort to do so was made. Such a good faith effort should include the following:

- 2.4.1.1 Attendance at the pre-bid meeting.
- 2.4.1.2 Using the City of Madison's directory of certified SBEs to identify SBEs from which to solicit bids.
- 2.4.1.3 Assuring that SBEs are solicited whenever they are potential sources.
- 2.4.1.4 Referring prospective SBEs to the City of Madison Affirmative Action Division for certification.
- 2.4.1.5 Dividing total project requirements into smaller tasks and/or quantities, where economically feasible, to permit maximum feasible SBE participation.
- 2.4.1.6 Establishing delivery schedules, where requirements permit, which will encourage participation by SBEs.
- 2.4.1.7 Providing SBEs with specific information regarding the work to be performed.
- 2.4.1.8 Contacting SBEs in advance of the deadline to allow such businesses sufficient time to prepare a bid.
- 2.4.1.9 Utilizing the bid of a qualified and competent SBE when the bid of such a business is deemed reasonable (i.e. 5% above the lowest bidder), although not necessarily low.
- 2.4.1.10 Contacting SBEs which submit a bid, to inquire about the details of the bid and confirm that the scope of the work was interpreted as intended.
- 2.4.1.11 Completion of Cover Page (page C-6), Summary Sheet (page C-7) and SBE Contact Reports (pages C-8 and C9) if applicable.

## 2.4.2 Reporting SBE Utilization and Good Faith Efforts

The Small Business Enterprise Compliance Report is to be submitted by the bidder with the bid: This report is due by the specified bid closing time and date. Bids submitted without a completed SBE Compliance Report as outlined below may be deemed non-responsible and the bidder ineligible for award of this contract. Notwithstanding any language to the contrary contained herein, the City may exercise its discretion to allow bidders to correct or supplement submissions after bid opening, if the minor discrepancy, bid irregularity or omission is insignificant and not one related to price, quality, quantity, time of completion, performance of the contract, or percentage of SBE utilization.

2.4.2.1 If the Bidder meets or exceeds the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:

2.4.2.1.1 **Cover Page**, Page C-6; and

2.4.2.1.2 **Summary Sheet**, C-7.

2.4.2.2 If the bidder does not meet the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:

2.4.2.2.1 **Cover Page**, Page C-6;

2.4.2.2.2 **Summary Sheet**, C-7; and

2.4.2.2.3 **SBE Contact Report**, C-8 and C-9. (A separate Contact Report must be completed for each applicable SBE which is not utilized.)

## 2.5 Appeal Procedure

A bidder which does not achieve the established goal and is found non-responsible for failure to demonstrate a good faith effort to achieve such goal and subsequently denied eligibility for award of contract may appeal that decision to the Small Business Enterprises Appeals Committee. All appeals shall be made in writing, and shall be delivered to and received by the City Engineer no later than 4:30 PM on the third business day following the bidder's receipt of the written notification of ineligibility by the Affirmative Action Division Manager. Postmark not acceptable. The notice of appeal shall state the basis for the appeal of the decision of the Affirmative Action Division Manager. The Appeal shall take place in accordance with Madison General Ordinance 33.54.

## 2.6 SBE Requirements After Award of the Contract

The successful bidder shall identify SBE subcontractors, suppliers and vendors on the subcontractor list in accordance with the specifications. The Contractor shall submit a detailed explanation of any variances between the listing of SBE subcontractors, vendors and/or suppliers on the subcontractor list and the Contractor's SBE Compliance Report for SBE participation.

No change in SBE subcontractors, vendors and/or suppliers from those SBEs indicated in the SBE Compliance Report will be allowed without prior approval from the Engineer and the Affirmative Action Division. The contractor shall submit in writing to the City of Madison Affirmative Action Division a request to change any SBE citing specific reasons which necessitate such a change. The Affirmative Action Division will use a general test of reasonableness in approving or rejecting the contractor's request for change. If the request is approved, the Contractor will make every effort to utilize another SBE if available.

The City will monitor the project to ensure that the actual percentage commitment to SBE firms is carried out.

## **2.7 SBE Definition and Eligibility Guidelines**

A Small Business Enterprise is a business concern awarded certification by the City of Madison. For the purposes of this program a Small Business Enterprise is defined as:

- A. An independent business operated under a single management. The business may not be a subsidiary of any other business and the stock or ownership may not be held by any individual or any business operating in the same or a similar field. In determining whether an entity qualifies as a SBE, the City shall consider all factors relevant to being an independent business including, but not limited to, the date the business was established, adequacy of its resources for the work in which it proposes to involve itself, the degree to which financial, equipment leasing and other relationships exist with other ineligible firms in the same or similar lines of work. SBE owner(s) shall enjoy the customary incidents of ownership and shall share in the risks and profits commensurate with their enjoyment interests, as demonstrated by an examination of the substance rather than form or arrangements that may be reflected in its ownership documents.
- B. A business that has averaged no more than \$4.0 million in annual gross receipts over the prior three year period and the principal owner(s) do not have a personal net worth in excess of \$1.32 million.

Firm and/or individuals that submit fraudulent documents/testimony may be barred from doing business with the City and/or forfeit existing contracts.

SBE certification is valid for one (1) year unless revoked.

## SECTION D: SPECIAL PROVISIONS

### ST. PAUL AVENUE, OHIO AVENUE, TALMADGE STREET, JACKSON STREET AND LAFOLLETTE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT - 2022 CONTRACT NO. 8616

It is the intent of these Special Provisions to set forth the final contractual intent as to the matter involved and shall prevail over the Standard Specifications and plans whenever in conflict therewith. In order that comparisons between the Special Provisions can be readily made, the numbering system for the Special Provisions is equivalent to that of the Specifications.

Whenever in these Specifications the term "Standard Specifications" appears, it shall be taken to refer to the City of Madison Standard Specifications for Public Works Construction and Supplements thereto.

#### **SECTION 102.11: BEST VALUE CONTRACTING**

This Contract shall be considered a Best Value Contract if the Contractor's bid is equal to or greater than \$70,000 for a single trade contract; or equal to or greater than \$341,500 for a multi-trade contract pursuant to MGO 33.07(7).

#### **ARTICLE 104 SCOPE OF WORK**

The work under this contract shall include, but is not limited to excavation, clearing & grubbing, replacement of sanitary sewer main & laterals, storm sewer, asphalt pavement, roadway base course, curb & gutter, driveway aprons, sidewalk, ground restoration, and pavement markings.

The project limits for this work include the following; St Paul Ave from the western-end cul-de-sac to the southern-leg of Corry St; Jackson St from Atwood Ave to St Paul Ave; Ohio Ave from Atwood Ave to St Paul Ave AND from Bashford Ave to the northern-end cul-de-sac; Talmadge St from St Paul Ave to the northern-end cul-de-sac; and Lafollette Ave from Ohio Ave to Waubesa St.

**The Contractor shall view the site prior to bidding** to become familiar with the existing conditions. It will be the responsibility of the Contractor to work with the utilities located in the right of way to resolve conflicts during the construction process.

#### **SECTION 105.12 COOPERATION BY THE CONTRACTOR**

It is anticipated that the Contractor will need to use multiple crews in order to complete the work under this contract within the contract duration. It is also expected that certain items of work, particularly concrete work and asphalt paving, will require multiple mobilizations to meet the requirements of the traffic control and coordination specifications.

##### **Existing Items to Remain**

The Contractor shall use care around existing trees, plantings, fences, walls, steps and driveways that are indicated on the plans to remain. Damage to these items during construction shall be repaired or replaced at the Contractor's expense. No trees, other than those shown on the plan to be removed, shall be cut without the approval of the Engineer and the City Forester; the abutting property owners shall be notified in accordance with the City's Administrative Procedure Memorandum No. 6-2. The Contractor shall maintain access for property owners.

The existing water main, services and hydrants are to remain and will remain in service throughout the duration of the project. The Contractor shall work carefully around these items, unless relocations are called for by the Engineer. In the case of relocations, the Contractor shall contact Madison Water Utility Construction Inspector Jeff Belshaw (608-206-3856) two days prior to any work on the water system.

##### **Coordination with Utilities**

Work under this contract will require coordination with private utility companies. It will be the responsibility of the Contractor to work with the utilities located in the right of way to resolve conflicts during the construction process and allow working areas for installation of new facilities or for relocation work.

**MG&E Gas** is planning to relocate their facilities throughout the project area. It is expected that the new gas mains will be under the sidewalk on both sides of the streets. It is anticipated that MG&E's crews will be working simultaneously with the City project and that the Contractor shall coordinate this work as to not delay this project nor MG&E's gas replacement. MG&E is expected to start work within Phase 2 of the project (area north of St Paul along Ohio, Talmadge, and Lafollette) in early-Spring and they expect to be working in this area until at least mid-June. MG&E will then move on to gas replacement along St Paul, which includes work along the northerly-side sidewalk of St Paul near Corry St and Ohio Ave, and elsewhere outside of the project limits. Work along St. Paul will need to be coordinated during the utility and roadway construction activities included with this contract. The Contractor shall coordinate with Roger Ahles, [rahles@mge.com](mailto:rahles@mge.com) or (608) 252-5682, of MG&E to coordinate their gas replacement and provide specific construction schedules to help MG&E's crews prioritize their work.

**MG&E Electrical** has overhead electrical facilities and poles throughout the project area. The Contractor shall contact MG&E Electrical when working in close proximity to power poles so that poles can be supported if required. In addition, a number of MG&E poles need to be relocated or constructed in coordination with this project, they are listed below. The Contractor shall coordinate with Mark Bohm, [mbohm@mge.com](mailto:mbohm@mge.com) or (608) 252-4730, of MG&E on the pole relocations/construction and should provide time and space for MG&E to complete their work. The Contractor shall also coordinate with the other utilities with facilities on these poles.

- MG&E pole – Ohio Ave STA 500+58, within northeast corner ramp of Ohio-Atwood intersection
- MG&E pole – Ohio Ave STA 502+12, adjacent to Ohio-side driveway serving 2402 Atwood Ave
- Guy Wire base – St Paul Ave STA 108+08, pole can remain but Guy Wire needs to be relocated
- New MG&E Pole to be installed along the southerly-side of St Paul Ave at the Bashford intersection, new pole to be installed 110-ft to the west of the existing pole at St Paul STA 112+05

#### **Other Utilities Contacts**

Ryan Denewellis (AT&T): [rd1238@att.com](mailto:rd1238@att.com) or (608) 358-6258

Heather Crosby (Charter Communications): [heather.crosby@charter.com](mailto:heather.crosby@charter.com) or (608) 381-6041

Jerry Myers (TDS): [jerry.myers@tdstelecom.com](mailto:jerry.myers@tdstelecom.com) or (608) 664-4404

#### **Access to Atwood Community Gardens**

The Atwood Community Gardens consists of individual garden plots in the area between St Paul Ave and the Capital City Trail. Specifically, the garden plots between Jackson St & Ohio Ave and Ohio Ave & Corry St will be impacted by the work under this contract. The Contractor shall take special care when working directly around the garden plots and shall not excavate beyond the plan-specified grading limits. The Contractor shall install construction fencing around the gardens as shown on the plans and herein provided. Openings along the fence shall be created and maintained every 30-40 Ft as directed by the Construction Engineer. The Contractor shall maintain access to the plots at all times either via the Capital City Trail or through openings in the construction fencing along St Paul.

The Atwood Community Gardens receives compost and mulch deliveries in early-Spring. These items are dropped in the grassy areas between the garden plots and sidewalk at the southeastern-corner of the St Paul Ave – Ohio Ave intersection and the St Paul Ave – Corry St intersection. These areas are to be left cleared of any construction staging equipment and the Contractor shall allow people to access these areas throughout the project duration, including providing access for those material deliveries

Atwood Community Gardens Contact

Annette Nekola: [anekola@att.net](mailto:anekola@att.net) or (608) 249-8956

#### **Access to Properties**

The City is aware of residents from the following properties requesting accommodation for special needs or disabilities; 165 Ohio Ave. Access shall be maintained to these properties at all times.

Other residents in addition to the one listed above may require accommodation during the project, and the contractor shall work with the engineer to provide access as necessary.

Parking is very limited in this neighborhood and the City wishes to minimize parking inconvenience for neighbors. The City expects multiple mobilizations for concrete and asphalt crews to minimize the length of time residents are restricted from using their driveways, and to minimize inconvenience to the residents. The contractor must have at least 50% of the driveways on the project open to owners/residents at any given time, unless alternate arrangements to alleviate parking issues are agreed upon by the Engineer.

**Access & Impacts to Atwood Area Businesses**

There are a number of businesses along Jackson St and Ohio Ave nearest Atwood Ave, namely the Atwood Scoop Ice Cream Shop and the Ohio Tavern. To minimize impacts to these businesses, the Contractor shall end all work along portions of Jackson St and Ohio Ave, between Atwood Ave and the Capital City Trail, by 5pm every day with no work allowed in these areas on weekends. Note that both the Atwood Scoop Ice Cream Shop and the Ohio Tavern have outdoor patio spaces fronting Jackson St and Ohio Ave, respectively.

Ohio Tavern Contact

Josh Swentzel: [jmswentzel@gmail.com](mailto:jmswentzel@gmail.com) or (608) 446-4082

**SECTION 107.12 RAILROAD - HIGHWAY GRADE SEPARATIONS AND APPROACHES, NEW RAILROAD CROSSINGS, AND OPERATION ON RAILROAD RIGHT- OF WAY**

The company representative who may be consulted by Bidders and Contractors with regard to railroad requirements is Roger Schaalma of the Wisconsin & Southern Railroad (WSOR), at (608) 243-9129 x 4211. Notice must be given to Roger Schaalma at least 72 hours prior to working within twenty-five feet (25') of the Railroad Tracks. The Contractor shall obtain the authorization of the WSOR to work within twenty-five feet (25') of the railroad tracks prior to any work being done. Any time that work is being done within twenty-five feet (25') of the track, a WSOR flag person must be present.

It shall be the responsibility of the Contractor to compensate the Railroad for the flag person requirements. Prior to any work within twenty-five feet (25') of the Railroad Tracks, the Contractor shall provide to WSOR an estimate of the time required to perform the necessary work within twenty-five feet (25') of the Railroad Tracks and the Contractor shall pre-pay WSOR an estimated cost for compensation for a flag person based on the estimated time required to perform all work within twenty-five feet (25') of the tracks and the current hourly rate of compensation charged by WSOR for a flag person. In the event that the pre-paid amount for flag person compensation exceeds the actual cost required for the compensation of the flag person, any excess pre-paid amount will be refunded to the Contractor. In the event that actual cost for compensation of the flag person exceeds the pre-paid estimate, the Contractor shall submit an additional pre-payment for the estimated additional cost for compensation of a flag person, prior to any work continuing within twenty-five feet (25') of the tracks.

Absolutely no staging of equipment or materials will be allowed within the railroad right-of-way.

If a Contractor violates any of these requirements, the Wisconsin & Southern Railroad reserves the right to remove and prohibit the Contractor from any further access or encroachment on the Wisconsin & Southern Railroad right of way regardless of whether or not that access or encroachment is on, under, over, intentional or inadvertent, until such time as the Contractor provides satisfactory assurances and measures to prevent any reoccurrence of such violation.

**BID ITEM 10790 - RAILROAD INSURANCE**

The Contractor shall provide special third party protection insurance for, and in behalf of, the Wisconsin and Southern Railroad Company as well as the Union Pacific Railroad Company per Section 107.12(c) Railroad Insurance Requirements of the City of Madison Standard Specifications.

The amount of insurance to be provided shall be limited to a combined single limit amount of Two Million Dollars (\$2,000,000) per occurrence for Bodily Injury Liability, Property Damage Liability, and Physical Damage to Property, with Six Million Dollars (\$6,000,000) aggregate for the term of the policy with respect to Bodily Injury, Liability, Property Damage Liability and Physical Damage to Property.

#### **SECTION 107.6      DUST PROOFING**

The Contractor shall take all necessary steps to control dust arising from operations connected with this contract. When ordered by the Engineer, the Contractor shall dust proof the construction area by using power sweepers and water. Dust proofing shall be incidental with operations connected with this contract.

#### **SECTION 107.7      MAINTENANCE OF TRAFFIC**

All signing and barricading shall conform to Part VI of the Federal Highways Administrations "Manual on Uniform Traffic Control Devices" (MUTCD), the State of Wisconsin Standard Facilities Development Manual (including Chapter 16 – Standard Detail Drawings) and the City of Madison Standards for sidewalk and bikeway closures.

The project shall be phased to have minimal impact on pedestrian and bicycle traffic on the Capital City Trail. When work is occurring on Jackson St or Ohio Ave and bicycle traffic cannot remain on the Capital City Trail, the Contractor shall implement one of the two phases of the Pedestrian and Bicycle Detour Plan. While the Capital City Trail is detoured, a changeable message board shall be placed at either end of the closure one week in advance of the closure and remain up for the duration of the detour. It should be noted that the closed-off Capital City Trail shall remain usable for people accessing and working within the Atwood Community Gardens.

It is intended that Phase A of the Path Detour Plan will be used throughout much of Phase One (as described in Section 109.2) and that Phase B of the Path Detour Plan **can be used** as alternative detour route once Phase Two has begun and Phase One is not yet complete. Phase A of the Path Detour Plan can only be used before any work along Lafollette Ave has begun. Phase B of the Path Detour Plan can only be used once all work along St Paul Ave is complete from Corry St to West of Bashford Ave. The Contractor shall only switch between Phase A and Phase B of the Path Detour Plans **once** over the course of construction.

While either Path Detour is in place, Temporary No Parking Signs shall be obtained ahead of time to remove parking on one-side only of the streets utilized in the path detours; including Lafollette Ave (from Waubesa to Dunning) and Dunning St (from Lafollette to Atwood) for Path Detour Phase A, and Bashford Ave (from St Paul to Dunning) and Dunning St (from Bashford to Atwood) for Phase B. One week written notice shall be provided to Jeremy Nash, City of Madison Traffic Engineering, at 608-616-9098 or [jnash@cityofmadison.com](mailto:jnash@cityofmadison.com) so that they can provide Temporary No Parking Signage.

Two way traffic shall be maintained on Atwood Ave at all times. The northernmost westbound lane may be closed after the morning peak (7:00am-8:30am) for up to 10 calendar days but shall remain open overnight and when work is not occurring here. The lane closure shall not begin each day until after 8:30am. The contractor may use steel plates to re-open Atwood Ave. to traffic, but shall provide notice to Traffic Engineering and City Streets Division. Plates shall be ramped and secured in place with asphalt material at the ends. For the duration of the lane closure, the westbound bus stop between Ohio Ave and Corry St (Stop ID: 1682) shall be temporarily relocated west so that it is between Ohio Ave and Jackson St. Temporary No Parking signs shall be obtained ahead of time to remove parking on Atwood Ave to facilitate this temporary bus stop. One week written notice shall be provided to [metronotice@cityofmadison.com](mailto:metronotice@cityofmadison.com) so that they can provide signage for the temporary bus stop.



Traffic Control shall be measured as a lump sum. Payment for the Traffic Control is full compensation for constructing, assembling, hauling, erecting, re-erecting, maintaining, restoring, and removing non permanent traffic signs, drums, barricades, and similar control devices, including arrow boards, for providing, placing, and maintaining work zone. Maintaining shall include replacing damaged or stolen traffic control devices. Temporary pavement markings, tubular posts and bases and electronic message boards shall be paid for as separate bid items. Traffic control to install temporary or permanent pavement markings shall be included in the Traffic Control Lump Sum Bid Item.

Contractor shall supply all necessary mounting hardware and supports for signing. This shall also include covering and uncovering any conflicting overhead signs during the project. Contractor shall display all signing so as to be easily viewed by all users. Contractor shall mount traffic control on posts or existing poles or drive posts whenever possible. Existing poles may be used with approval of Construction Engineer. Contractor shall inspect traffic control daily to ensure all traffic control remains in place during the project.

The traffic control plan may need to be altered as conditions change in the field or as unexpected conditions occur. This shall include relocating existing traffic control or providing additional traffic control. This should be considered incidental to providing traffic control for the project.

Type A warning lights shall be installed on all barricades used in the project per State of Wisconsin S.D.D. 15C2-4B. Contractor shall also place Type C warning lights on any barrels used to taper traffic or lane closures.

All temporary inlet or structure plating for traffic control phasing shall be considered incidental to the traffic control bid item.

Contractor shall place portable changeable message boards at least one week in advance of the start of work, notifying the public of the start of construction. Contractor shall locate the portable changeable message boards as directed by the Engineer.

Contractor shall notify the City of Madison Police Department, Fire Department, Madison Metro, and Traffic Engineering 48 hours in advance of all switchovers of traffic lanes and closures of streets. Notifications must be given by 4:00 P.M. on Thursday for any such work to be done on the following Monday. Notify Madison Metro one week prior to traffic switches, street closures, and reopening the road to through traffic for bus routing. Madison Metro contact is Tim Sobota (608) 261-4289.

Maintain sidewalk at all times on one side of the street at all times and both sides whenever possible. When sidewalk must be closed for construction purposes, contractor shall ensure that sidewalk on opposite side of the street is open. Sidewalk closures shall be signed at the crosswalks prior to the closure. Sidewalk access to all businesses shall remain open from at least one end of a block at all times. Sidewalks shall be fully open during non-working hours except where necessary to enable sidewalk to cure. Maintaining Sidewalk is considered incidental to the contract.

Construction equipment and materials are not to be stored within the street right-of-way that is open to traffic during non-working hours.

Contractor is responsible for obtaining and installing temporary no parking signs to facilitate traffic control plan or as necessary to complete the work within the contract. The contractor shall contact John Villareal with the City of Madison Parking Utility (608-267-8756) at least 3 working days prior to needing the signs. Contractor shall post signs in accordance with the City of Madison Police Department Guidelines for temporary no parking restrictions for construction or special events. The guidelines can be found at the link listed below. This shall be considered incidental to the traffic control lump sum bid item.

[http://www.cityofmadison.com/business/pw/documents/guidelines\\_temporarynoparkingrestrictions.pdf](http://www.cityofmadison.com/business/pw/documents/guidelines_temporarynoparkingrestrictions.pdf)

The Contractor shall not remove traffic signs. For removal or replacement of traffic and parking signs, contact the City of Madison Traffic Engineering Field Operations, 1120 Sayle Street, 266-4767, 8:00 a.m. to 4:00 p.m., a minimum of 2 working days in advance of when any existing signs need to be removed. This service is provided free of charge. If the contractor removes the signs, the contractor will be billed for the reinstallation of, and any damage to, the signing equipment. The contractor shall notify The City of Madison Traffic Engineering Field Operations, 1120 Sayle Street, 266-4767 upon completion of final landscaping to have permanent signs reinstalled. The contractor shall expect a minimum of seven working days to have permanent signs reinstalled. The contractor shall leave in place all necessary traffic control until given notice by the construction engineer that permanent signing is in place and temporary traffic control may be removed.

Contact Jeremy Nash, City of Madison Traffic Engineering, at 608-616-9098 or [jnash@cityofmadison.com](mailto:jnash@cityofmadison.com) for questions on this spec.

## **SECTION 108.2**

### **PERMITS**

The City of Madison has obtained a City of Madison Erosion Control Permit, has submitted a DNR Notice of Intent (NOI) to obtain coverage under a Construction Site General permit, has submitted a DNR Sanitary Sewer Submittal, and has submitted a WISDOT DT2036 Railroad permit.

The Contractor shall meet the conditions of the permits by properly installing and maintaining the erosion control measures shown on the plans, specified in these Special Provisions, or as directed by the Construction Engineer or his designees. This work will be paid for under the appropriate contract bid items or, if appropriate items are not included in the contract, shall be paid for as Extra Work. A copy of the permit is available at the City of Madison, Engineering Division office.

This permit covers trench dewatering to a maximum of 70 gallons/minute from the project, provided appropriate control measures are in place. The City's obtaining this permit is not intended to be exhaustive of all permits that may be required to be obtained by the Contractor for construction of this project. It shall be the responsibility of the Contractor to identify and obtain any other permits needed for construction.

## **SECTION 109.2**

### **PROSECUTION OF WORK**

All work under this contract shall be completed by **October 28<sup>th</sup>, 2022**. The work under this contract shall be completed in **Two Phases**.

**Phase One** shall consist of all work in the southern-half of this project, including all work along St Paul Ave from the western-end cul-de-sac to the southern-leg of Corry St (this includes the Bashford Ave and Talmadge St intersections), Jackson St from Atwood Ave to St Paul Ave, and Ohio Ave from Atwood Ave to St Paul Ave.

**Phase Two** shall consist of all work in the northern-half of this project, including work along Ohio Ave from Bashford Ave to the northern-end cul-de-sac, Talmadge St from St Paul Ave to the northern-end cul-de-sac, and Lafollette Ave from Ohio Ave to Waubesa St.

The Contractor may begin work as early as **April 18<sup>th</sup>, 2022**. All work on **Phase One** shall be completed by the interim completion date of **July 31<sup>st</sup>, 2022**.

Work shall begin only after the contract is fully signed and executed and the start work letter is received. If it is desirable to begin work before the above-mentioned date, the Contractor shall establish a mutually acceptable date with the City Engineer, and the agreed upon date must be determined prior to the preconstruction meeting. The Contractor shall notify the Engineer of their anticipated start date a minimum of four (4) weeks in advance of their selected start date.

Time has been provided within the contractor duration to account for coordination with utilities. The Contractor shall coordinate their schedule and work areas as necessary in order for private utilities to complete their work as described, and no additional time will be provided for coordinating this work.

As included on the plans and described in Section 107.7 Maintenance of Traffic, there are two separate Pedestrian and Bicycle Detour Plans to be used when the Capital City Trail crossings at Ohio Ave and/or Jackson St are under construction. It is intended that Phase A of the Path Detour Plan will be used throughout much of **Phase One** and that Phase B of the Path Detour Plan can be used as alternative detour route once **Phase Two** has begun and **Phase One** is not yet complete. Phase A of the Path Detour Plan can only be used before any work along Lafollette Ave has begun. Phase B of the Path Detour Plan can only be used once all work along St Paul Ave is complete from Corry St to West of the Bashford Ave. The Contractor shall only switch between Phase A and Phase B of the Path Detour Plans once over the course of construction.

#### **SECTION 109.9      LIQUIDATED DAMAGES**

The fixed, agreed, and liquidated damages due the City of Madison from the Contractor for failure to complete all work within Phase One as herein described by the July 31<sup>st</sup>, 2022 interim completion date shall be \$1,000 per calendar day.

The fixed, agreed, and liquidated damages for failure to complete all work by the overall completion date shall be calculated in accordance with the standard specifications.

#### **BID ITEM 20101 – EXCAVATION CUT**

Work under this section shall be accomplished in accordance with the City of Madison Standard Specifications for Public Works Construction latest edition and as modified herein.

Contractor shall note the presence of miscellaneous structures and landscaping material in the terraces and right-of-way, including large stones and boulders, raised planting beds, pavers, planters, plantings, etc. The removal and disposal of all of these items shall be considered incidental to excavation cut and no separate payment shall be made to the Contractor. The Contractor shall view the site prior to bidding to become familiar with the existing conditions.

There are multiple large boulders within the Atwood Community Gardens along the southerly-side of St Paul Ave. The Contractor shall remove and dispose of these boulders off-site, and this work shall be considered incidental to the excavation cut.

There are two large sitting boulders along the easterly-side terrace of Jackson St in front of the Atwood Scoop Ice Cream Shop. The Contractor, as directed by the Construction Engineer, shall temporarily remove these boulders, if necessary for construction along Jackson, and place them back in the new terrace once the work along Jackson is substantially complete.

#### **BID ITEM 20336 – PIPE PLUG**

With regard to the City of Madison Standard Specifications for Public Works Construction Article 203.2(c), any pipe found in a trench that is less than 10" in diameter while installing a sewer facility shall be considered incidental to the pipe being installed.

Any pipe plugs required to abandon or remove sewer access structure (pipes directly connected to the structure) shall be considered incidental to abandoning or removing the structure regardless of the size of the pipe being abandoned.

## **BID ITEM 21110 – TERRACE RAIN GARDEN**

All work under this item shall be in accordance with Article 211 of the City of Madison Standard Specifications for Public Works Construction latest edition and Standard Detail Drawing 2.09.

The Terrace Rain Garden designer is Carissa Wegner. She may be contacted at (608) 261-9822 or [cwegner@cityofmadison.com](mailto:cwegner@cityofmadison.com). The Contractor shall contact Carissa after installation of any Terrace Rain Garden for inspection prior to acceptance.

The City is aware of residents from the following property requesting a Terrace Rain Garden:

- 181 Ohio Avenue

## **SECTION 210.1(d) STREET SWEEPING**

When required, either by the erosion control plan or the Construction Engineer, the Contractor shall perform mechanical street sweeping on all streets or paved surfaces affected by construction equipment, hauling or related construction activities that result in mud tracking or siltation. Mechanical street sweeping shall be completed as directed by the Construction Engineer and shall remove all loose material to the satisfaction of the Construction Engineer. Depending on site conditions, construction activities, and hauling methods utilized by the Contractor mechanical street sweeping may be required multiple times throughout the day with an absolute minimum that all streets are clean at the end of the work day. Areas not accessible by mechanical street sweepers may require hand scraping with shovels.

## **ARTICLE 301 CONCRETE AND CONCRETE MATERIALS GENERAL**

### **SECTION 301.1 GENERAL**

All concrete used on City of Madison Public Works projects shall comply with Section 501, 'Concrete' of the latest edition of the Standard Specifications for Highway and Structure Construction of the State of Wisconsin, Department of Transportation, Division of Highways. Note that there has been extensive updates to this section with the 2022 Edition of these Standard Specifications and the **Contractor shall review these updates prior to bidding.**

### **CARBON DIOXIDE (CO<sub>2</sub>) MINERALIZATION**

The use of concrete that has undergone a carbonization treatment with Carbon Dioxide (CO<sub>2</sub>) during mixing, such that CO<sub>2</sub> is chemically mineralized into the concrete, is permitted for use in concrete sidewalk, ramps, and driveway aprons **only**. It is **not** permitted for use in concrete curb & gutter or concrete pavement.

CO<sub>2</sub> mineralization: Supply CO<sub>2</sub> mineralized concrete, such that post-industrial carbon dioxide (CO<sub>2</sub>) is injected into the concrete like an admixture and chemically converted into a mineral. The concrete may undergo mix optimization whereby the strength enhancement property of the mineralized CO<sub>2</sub> is utilized to adjust cementitious content, pending that the optimized concrete mix meets concrete performance requirements as outlined in Article 301 of the City of Madison Standard Specifications for Public Works Construction. Acceptable technologies: CarbonCure Ready Mix Concrete Technology.

The injection and subsequent mineralization of CO<sub>2</sub> meets the requirements of ASTM C494 Type S admixture.

The Contractor shall submit an additional mix design to the City Engineer for concrete that has undergone CO<sub>2</sub> mineralization.

The use of CO<sub>2</sub> mineralization is not permitted for any 7-Inch concrete sidewalk or ramps within the table-top path crossings of the Capital City Trail at Jackson St or Ohio Ave, as shown on Sheet D-3 of the plans.

#### **BID ITEM 30302 – 7 INCH CONCRETE SIDEWALK & DRIVE**

Work under this item includes all 7 Inch Concrete within the Ohio Ave and Jackson St Table-Top crossings as shown on the plans and in accordance with the City of Madison Standard Specifications for Public Works Construction Part III - Concrete and Concrete Structures. All tie bars and smooth bars within the 7 Inch Concrete in the table-top crossings, as shown on Sheet D-3 in the plans, shall be epoxy-coated, and all bars for this work are included with this item.

#### **BID ITEM 30342 – TREE GRATE 4' X 8' (INCLUDING FRAME)**

Prior to placement of the tree grate or Terrace Support System (paid separately), the Contractor shall coordinate with City Forestry to confirm the final locations of the grates. Contact City Forestry at 266-4816 a minimum of 1 week prior to placement of these items. Tree plantings shall occur at the direction of City Forestry.

All tree grates shall have a center opening of 18-inches. Contractor will be responsible for covering and protecting the tree grate openings until the trees are planted, backfilled, and tree guards are in place.

When the concrete pour adjacent to the tree grate is less 1 ft. between the grate and any construction or expansion joints, the Contractor shall install a 12 ft. #5 epoxy coated rebar within the narrow concrete area, parallel to the length of the tree grate. This bar, where used, is included with this item.

#### **BID ITEM 40402 – 9 INCH CONCRETE PAVEMENT**

Work under this item includes all 9 Inch Concrete Pavement within the Ohio Ave and Jackson St Table-Top crossings as shown on the plans and in accordance with the City of Madison Standard Specifications for Public Works Construction Article 404 and Standard Detail Drawing 3.11 for Doweled Concrete Pavement. All tie bars within the table-top crossings, as shown on Sheet D-3 in the plans, shall be epoxy-coated and incidental to this item.

### **ARTICLE 500                    SEWER AND SEWER STRUCTURES GENERAL**

The sewer designer for the project is Kyle Frank. He may be contacted at (608) 266-4098 or [kfrank@cityofmadison.com](mailto:kfrank@cityofmadison.com).

#### **SANITARY SEWER GENERAL**

This project shall include installing approximately 3,212 feet of new 8" PVC SDR-35 sewer main, 459 feet of new 8" sanitary sewer pressure pipe, and 2,560 feet of new sanitary lateral.

ASTM D3034 SDR-35 sewer main and lateral as called for on the plan set shall be payable under Sanitary Sewer Main (Bid Item 50301) and Sanitary Lateral (Bid Item 50353). No additional compensation will be granted for ASTM D3034 SDR-26 pipe material

All new sanitary sewer access structures shall include Neenah R-1550 castings with the new City of Madison casting detail (see S.D.D. 5.7.16) of the City of Madison Standard Specifications for Public Works Construction latest ed. All new sewer main connections may be factory cored and shall be included in the structure. All existing main connections shall be field cored to accommodate existing conditions and shall be compensated under BID ITEM 50791 SANITARY SEWER TAP. All sewer main

and/or laterals not slated for replacement that are damaged during the installation of a structure shall be replaced by the Contractor and shall be considered incidental to the project. All benches and flowlines shall have a smooth trowel finish.

Contractors shall have a locator device on-site if they intend to start laying lateral pipe at the property line to minimize the amount of extra sidewalk removal. Each sanitary lateral shall have a maximum of 4 sidewalk squares removed and replaced. No additional compensation shall be awarded beyond this amount for the replacement of a sewer lateral. If laterals called for reinstatement on the plans are to be plugged under the direction of the engineer on-site, Contractors are required to use a sonde device to confirm that the laterals are not active.

All sanitary sewer laterals on this project were located by television inspection of the main and from City records.

It is advised that the Contractor visit the site prior to bidding to determine the type of trench protection that will be necessary for the sanitary sewer main installation.

### **STORM SEWER GENERAL**

Storm sewer pipe work shall include installing approximately 4073.5 feet of new storm sewer of various sizes ranging from 12" to 36" diameter.

Reconnection of existing pipes at new or existing structures, or new pipes at new or existing structures, shall be considered to be part of the work required to construct the new structure or to construct the new sewer pipe and shall not be rewarded with additional compensation. However, if the structure being removed is larger than the new structure, thus requiring additional pipe, the new pipe shall be paid under the appropriate bid item and the connection of the old pipe to the new pipe shall be accomplished with a concrete collar.

Where a new structure is to be constructed at an existing pipe, it is expected that the Contractor shall saw cut the existing pipe in the required location to accommodate the placement of the new structure. If the Contractor for his or her convenience deems it more suitable to remove the existing pipe to a full joint, the additional pipe and concrete collar required to reconnect to the new structure shall be the Contractor's responsibility and shall not be compensated.

Connection of new pipes to existing structures shall be accommodated with a Storm Sewer Tap – Bid Item 50792.

Precast structures are only allowed where field poured structures are not specifically called for, and no precast structures are allowed until ULO's are completed and approval of the design engineer has been received.

### **BID ITEM 50390 – SEWER ELECTRONIC MARKERS**

With regard to the City of Madison Standard Specifications for Public Works Construction Latest Edition Section 503.3(c), each sanitary lateral shall have a minimum of two (2) electronic markers with the City providing the Contractor with the required number of electronic markers. For sanitary laterals, which only include the installation of a wye, a marker ball shall be installed directly above the wye connection to the main.

### **BID ITEM 50801 – UTILITY LINE OPENING (ULO)**

The work under this item shall be completed in accordance with Article 508 of the Standard Specifications for Public Works Construction. It is the discretion of the Contractor to locate utilities by either a trench

excavation or by a pothole technique. However, the Contractor shall not be compensated more than once for multiple utilities located within a maximum distance of five (5) feet long.

This contract includes 5 additional undistributed ULOs to be performed at the direction of the Engineer.

### **BID ITEM 90001 – PROVIDE AND INSTALL SINGLE-STALL BIKE RACK**

#### **DESCRIPTION**

This work shall consist of the furnishing and installing bike racks at the locations shown on the plans and as herein provided.

#### **MATERIALS**

All bike racks shall be galvanized steel. Acceptable single stall bike racks are: "Bike Hitch" made by Dero, "Post & Ring" made by Saris, or approved equal. The contractor shall install the same style of rack for bike racks.

More information regarding bike rack installation can be found on the City Traffic Engineering website at: <https://www.cityofmadison.com/bikemadison/documents/bikerackrequirements.pdf>

#### **CONSTRUCTION**

Install bike racks with stainless steel bolt and anchor system according to manufacturer's instructions in locations shown on the plans. Install plastic shims under the base of the bike rack to elevate the anchoring location slightly above the sidewalk; coordinate shim placement with the Engineer.

Prior to installation, coordinate with Aaron Canton, project engineer, at [acanton@cityofmadison.com](mailto:acanton@cityofmadison.com) or 608-242-4763, to confirm installation location of the bike rack.

#### **METHOD OF MEASUREMENT**

Bike racks shall be measured by the unit, each, installed and accepted in place.

#### **BASIS OF PAYMENT**

This item, measured as provided above, will be paid for at the contract unit price each, which shall be payment in full for furnishing, installing bike racks; and for furnishing all labor, tools, equipment and incidentals necessary to complete this item of work.

### **BID ITEM 90002 – PROVIDE AND INSTALL 5-STALL, SINGLE-SIDED BIKE RACK**

#### **DESCRIPTION**

This work shall consist of the furnishing and installing a 5-stall, single-sided bike rack at the location shown on the plans and as herein provided.

#### **MATERIALS**

The bike rack shall be a 5-stall, single-sided bike rack. Capacity to be determined by the number of looped down brackets: the end supports shall not count towards rack capacity. Acceptable racks are as follows; the Spartan rack (SPR-SNG-5-SF) made by Madrax, the S5 Campus rack made by Dero, or an approved equal. Bike rack shall be steel, hot-dipped galvanized finish and painted black to match signal black RAL 9004.

More information regarding bike rack placement can be found on the City Traffic Engineering website at: <https://www.cityofmadison.com/bikemadison/documents/bikerackrequirements.pdf>

## **CONSTRUCTION**

Install bike racks with stainless steel bolt and anchor system according to manufacturer's instructions in locations shown on the plans. Install plastic shims under the base of the bike rack to elevate the anchoring location slightly above the sidewalk; coordinate shim placement with the Engineer.

Prior to installation, coordinate with Aaron Canton, project engineer, at [acanton@cityofmadison.com](mailto:acanton@cityofmadison.com) or 608-242-4763, to confirm installation location of the bike rack.

## **METHOD OF MEASUREMENT**

The bike rack shall be measured by the unit, each, installed and accepted in place.

## **BASIS OF PAYMENT**

This item, measured as provided above, will be paid for at the contract unit price each, which shall be payment in full for furnishing, installing bike racks; and for furnishing all labor, tools, equipment and incidentals necessary to complete this item of work.

## **BID ITEM 90003 – TERRACE SUPPORT SYSTEM**

### **DESCRIPTION**

This Bid Item shall include all work, materials, equipment and incidentals necessary to construction the Terrace Support System as shown on the plans, details, and as described in these Special Provisions.

The Contractor shall provide and install the Deeproot Silva Cells, GreenBlue Urban RootSpace, or approved equal, according to the manufacturer's requirements and per these Special Provisions. The objective of installing these cells is to support the concrete terrace, sidewalk and tree grates while keeping backfill material within the cells uncompacted to provide a better growing environment for the trees.

The plans and details indicate approximate limits and locations of the terrace support system, along with minimum depths and minimum surface square footage. The actual layout of the support system will be dependent on the manufacturer that is selected. Prior to installation, the Contractor shall provide the City a proposed layout of the support system for approval.

### **MATERIALS**

The Contractor shall provide and install the Terrace Support System, per the manufacturer's requirements. This will include the use of a manufacturer approved geogrid around the perimeter of the cell system and around any areas where the cells are gapped due to utility structures. The geogrids shall be considered incidental to this bid item. The base of the support system shall be constructed of Gradation No. 3 crushed aggregate. The Contractor shall install a nonwoven, geotextile fabric, type SAS that meets the City Standard Specifications, on top of the deck of the support system to prevent any crushed aggregate material from entering the area enclosed by the cells. Provide and install root barriers to the depths and locations indicated on the plans and details. If necessary for construction around utilities, install 1" clear stone and geogrid as recommended by the manufacturer to bridge those gaps in the support system.

### **CONSTRUCTION**



The Contractor shall excavate the terrace area down to the subgrade of the support system. The excavation of this area shall be included in this bid item. A minimum of 4" of gradation 3 crushed aggregate shall be installed as the base for the support system and shall be compacted per the City Standard Specifications. The top of the base layer shall be installed such that the top of the system is at the appropriate elevation and grade for the final surface placement. Installation of the base of the Terrace Support System is included with this item. If requested a minimum of 1 week in advance, the Engineer can assist in providing grades for the top of the base layer.

The cells of the support system, shall then be constructed on top of the base layer. The Contractor shall construct the frames around any shallow utility crossings. When necessary at utility crossings, the depth of the terrace support system may be reduced to approximately 26 inches from the top of sidewalk.

Around the perimeter of the cells, a geogrid shall be installed to prevent compacted material under the roadway or under the sidewalk from entering the cell area. The Contractor shall install the cells as close to any utility structures as possible, but the cells shall be gapped around the structures as necessary, with a geogrid installed around the perimeter of the cells at the gap, and 1" Clear Stone, included with this item, shall be installed to bridge any larger gaps in the cell system.

The cells shall also be gapped around the tree planting areas (tree pit) as shown on the details to allow for a tree to be planted. A 12" root barrier, per the manufacturer's recommendations shall be installed around the tree pit opening.

Prior to installing the top deck of the cell frames, the Contractor shall install the Planting Soil (paid separately). The backfill material shall fill the entire area of the cells as well as the tree pits and shall remain uncompacted within the support system.

Once all backfill material is in place, the top of the frames shall be set so that a minimum of 3" of aggregate will exist between the top of the frames and bottom of the concrete sidewalk. Once the frames are constructed, the geotextile fabric can be placed on top of the deck and wrapped per the detail drawings to prevent loss of the crushed aggregate at the tree pits. Installation of the geotextile fabric is included with this bid item.

The concrete sidewalk and the tree grate installation (each paid separately) shall be constructed per the standard specifications and details, except that the concrete sidewalk shall be thickened around the tree pit location, as shown on the detail drawings. The thickened sidewalk shall be considered incidental.

#### **METHOD OF MEASUREMENT**

Terrace Support System shall be measured by the cubic feet of space occupied by the framework of the cells that are installed and accepted. The tree pit area shall not be considered in the measurement of the terrace support system.

#### **BASIS OF PAYMENT**

This item, measured as provided above, shall be paid for at the contract unit price, which shall be payment in full for furnishing and installing all materials, all excavation, labor, equipment, hauling, and incidentals necessary to complete this item of work.

#### **BID ITEM 90004 – PLANTING SOIL**

#### **DESCRIPTION**

This work shall consist of furnishing and installing engineered topsoil as shown on the plans and details, and as herein provided. Planting Soil is to be used as the primary backfill material within the Terrace Support System and planter bed.

## **MATERIALS**

All tree planting sites, as described above, shall be backfilled with improved soil mixture of 2:1:1 of topsoil, sand, and organic matter respectively.

## **CONSTRUCTION**

Place planting soil material in no more than 8" lifts, and lightly compact the material only so that it remains in place. The soil backfill shall fill the void within the Terrace Support System up to the top deck of the cells.

## **METHOD OF MEASUREMENT**

Planting Soil will be measured by the Cubic Foot, lightly compacted and accepted in place.

## **BASIS OF PAYMENT**

This item, measured as provided above, will be paid for at the contract unit price, which price shall be payment in full for furnishing and installing topsoil backfill, and for all labor, tools, equipment and incidentals necessary to complete this item of work.

## **BID ITEM 90005 – PROVIDE AND PLANT TREE**

### **DESCRIPTION**

This item includes all work, equipment, hauling and incidentals necessary to provide and plant trees at the locations indicated on the plans. All work is to be completed per Article 209 of the standard specifications and per the standard detail drawings.

The Contractor shall provide 2 in. diameter trees, balled and burlapped, of the species indicated on the plans. Trees shall be planted within the center of the tree opening such that it is evenly spaced and vertical within the grate opening.

The tree plantings shall occur at the direction of City Forestry.

One (1) week prior to planting, the Contractor shall contact City Forestry at 266-4816 to review the planting specification and schedule an inspection of the nursery stock.

### **METHOD OF MEASUREMENT**

Provide and Plant Tree will be measured as Each tree acceptably procured and planted.

### **BASIS OF PAYMENT**

Tree Planting, measured as stated above, shall be paid at the contract unit price which includes all materials, equipment, work, hauling and incidentals necessary to complete the work as set forth in the description and as shown on the plans and details.

## **BID ITEM 90006 – PROVIDE AND INSTALL TREE GUARD**

### **DESCRIPTION**

This item includes the furnishing, work, equipment, and incidentals necessary to install tree guards at each of the tree planting locations.

The Tree Guards shall be manufactured by Neenah (model R-8501-4818), and installation of the tree guards shall be in accordance with their specifications. Installation of the tree guards shall be completed immediately following the planting of the new trees and shall be installed in a manner that does damage the new tree planting. Final placement shall be vertical and not skewed relative to the grate.

**METHOD OF MEASUREMENT**

Install Tree Guard will be measured by the unit, each, installed and accepted in place.

**BASIS OF PAYMENT**

This item, measured as provided above, will be paid for at the contract unit price each, which shall be payment in full for furnishing, installing tree guards and for furnishing all labor, tools, equipment and incidentals necessary to complete this item of work.

**BID ITEM 90007 - MODIFIED TYPE 'A' MOUNTABLE CONCRETE CURB & GUTTER**

**DESCRIPTION**

Work under this item shall include all work, materials, equipment, and incidentals required to construct the Modified Type 'A' Mountable Concrete Curb & Gutter located at the southwestern corner of the intersection of St Paul Ave and Jackson St. The Modified Type 'A' Mountable Concrete Curb & Gutter shall be constructed as shown on Sheet D-2 in the plans and in accordance with Article 302 of the Standard Specifications for Public Works Construction.

**CONSTRUCTION METHODS**

The Modified Type 'A' Mountable Concrete Curb & Gutter shall be constructed as shown in the plans and in accordance with Section 302.2 of the Standard Specifications for Public Works Construction.

**METHOD OF MEASUREMENT**

The Modified Type 'A' Mountable Concrete Curb & Gutter shall be measured as linear feet of concrete installed as measured along the flowline of the gutter for all completed and accepted work.

**BASIS OF PAYMENT**

The Modified Type 'A' Mountable Concrete Curb & Gutter shall be paid at the contract price per linear foot, which shall be full compensation for all work, materials, equipment, and incidentals to complete the work as described.

**BID ITEM 90008 - MODIFIED TYPE 'A' BIKE/PED. RAMP CONCRETE CURB & GUTTER**

**DESCRIPTION**

Work under this item shall include all work, materials, equipment, and incidentals required to construct the Modified Type 'A' Bike/Ped. Ramp Concrete Curb & Gutter located along the table-top path crossings of the Capital City Trail at Ohio Ave and Jackson St. The Modified Type 'A' Bike/Ped. Ramp Concrete Curb & Gutter shall be constructed as shown on Sheet D-3 in the plans and in accordance with Article 302 of the Standard Specifications for Public Works Construction.

**CONSTRUCTION METHODS**

The Modified Type 'A' Bike/Ped. Ramp Concrete Curb & Gutter shall be constructed as shown in the plans and in accordance with Section 302.2 of the Standard Specifications for Public Works Construction.

## **METHOD OF MEASUREMENT**

The Modified Type 'A' Bike/Ped. Ramp Concrete Curb & Gutter shall be measured as linear feet of concrete installed as measured along the flowline of the gutter for all completed and accepted work.

## **BASIS OF PAYMENT**

The Modified Type 'A' Bike/Ped. Ramp Concrete Curb & Gutter shall be paid at the contract price per linear foot, which shall be full compensation for all work, materials, equipment, and incidentals to complete the work as described.

## **BID ITEM 90009 – GEOSYNTHETIC REINFORCEMENT FABRIC (UNDISTRIBUTED)**

### **DESCRIPTION**

Work under this item shall include all work, materials, equipment, and incidentals necessary to provide and install **Mirafi RS580i, TerraTex HPG HM58b, or an approved equal.**

### **CONSTRUCTION METHODS**

The Geosynthetic Reinforcement Fabric shall be installed in accordance with the manufacturer's recommendations. A maximum of 12" of Undercut shall be removed, under the entire road area, and replaced with Breaker Run. Undercut and Breaker Run shall be paid for under the appropriate bid items. The Breaker Run shall be placed directly over the Geosynthetic Reinforcement Fabric in 8 to 12-inch loose lifts. Rubber-tired vehicles may be driven at low speeds, 10 mph or less, and in straight paths over the exposed Geosynthetic Reinforcement Fabric.

### **METHOD OF MEASUREMENT**

The Geosynthetic Reinforcement Fabric shall be measured by the square yard, in place. Any overlap of the rolls, measured either longitudinally or transversely, shall be included in the pay quantity.

### **BASIS OF PAYMENT**

Geosynthetic Reinforcement Fabric shall be measured as described above, which shall be full compensation for all work, materials, equipment and incidentals to complete the work as described above.

## **BID ITEM 90010 - HIGH FRICTION COLORED PAVEMENT MARKING, MMA-GREEN**

### **DESCRIPTION**

This work consists of furnishing and applying a high friction colored pavement marking in accordance with manufacturer's specifications and in conformity with the lines and details shown on the plans. The system shall consist of a Methyl Methacrylate resin system colorized with pigment to produce the specified color and mixed with anti-skid aggregate used for pavement markings (MMA).

The manufacturer's technical representative shall be on-site to direct contractor personnel prior to or during preparation and application of the MMA or the contractor shall provide documentation from manufacturer's representative endorsing contractor as qualified to install the material.

### **MATERIALS**

**General:** Use a Methyl Methacrylate based resin system capable of retaining an incorporated aggregate and withstanding vehicular traffic conditions. Color pigmented resins shall comply with FHWA color guidelines

GREEN colored resins shall comply with chromaticity requirements in accordance with MUTCD Interim Approval for Optional Use of Green Colored Pavement for Bike Lanes.

**Resin:** The Methyl Methacrylate based resin system shall meet the following requirements:

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Tensile Strength @ 7 days, psi, minimum	1000	ASTM D 638
Hardness, Shore D, minimum	55	ASTM D 2240
Cure Rate, minutes, maximum	30	at 70°F
Water Absorption @ 24 hours, max.	0.25%	ASTM D 570

**Aggregate:** The aggregate shall be high friction crushed bauxite, phonolite, or silica. The aggregate will be delivered to the construction site in clearly labeled bags or sacks. The aggregate shall be clean, dry and free from foreign matter. The aggregate shall meet the following requirements:

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Hardness, minimum	7	Mohs Scale

**Resin + Aggregate:**

<u>Property</u>	<u>Value</u>	<u>Test Method</u>
Skid Resistance, minimum	60	ASTM E303

## CONSTRUCTION METHODS

**General:** Apply MMA pavement surfacing system in accordance with manufactures specifications.

**Preparation:** Prepare surfaces so that they are clean, dry, and free of all dust, oil, debris and any other material that might interfere with the bond between the epoxy binder material and existing surfaces.

Protect utilities, drainage structures, curbs and any other structure within or adjacent to the treatment location against the application of the surface treatment materials. Cover and protect all existing pavement markings that are adjacent to the application surfaces as directed by the Engineer. Remove by grinding any pavement markings that conflict with the surface application and thoroughly sweep or vacuum the surface clean prior to application.

Pre-treat joints and cracks greater than 1/4 inches in width and depth with the mixed epoxy specified herein or by using an alternative procedure proposed by the manufacturer and agreed upon by the Engineer.

**Application:** For applications on new pavements, install MMA a minimum of 20 days after the placement of the underlying and adjacent pavement.

## PERFORMANCE REQUIREMENTS

**Raveling and Delamination:** Remove and replace MMA that ravel, delaminates, or wears off within 90 days after placement, unless approved to remain in place by the Engineer. The limits of removal and replacement shall be approved by the Engineer. The replaced high friction colored surface treatment shall meet the requirements of this sub-article.

**Warranty:** The MMA based resin system material shall be installed per plans and specification. The Engineer will notify the Contractor within 48 hours of installation regarding any of the MMA based resin

system material that is NOT installed to specification or to the satisfaction of the Engineer. Non conforming MMA material shall be removed at no charge to the City and replaced with conforming product.

The warranty period in reference to the following points is to be 1 year from date of installation. Warranty of the following items shall be submitted in writing by the Contractor or his installer prior to the pre-construction meeting.

- The MMA will maintain its original color in the surface area throughout the 'warranty period' with the exception of natural weathering, tire and dirt deposits and abnormal markings applied after installation.
- Friction will achieve a minimum BPN of 60 in accordance with ASTM E-303
- The MMA will maintain its skid resistance qualities in 100% of its surface area to never fall below a BPN of 60 during the 'warranty period'.
- With the exception of structural cracking or excessive movement of the surface beneath the two-part modified epoxy material will not be subject to excessive cracking in its surface.

#### **METHOD OF MEASUREMENT**

MMA will be measured in square foot, completed and accepted. No deduction will be made for the areas occupied by manholes, inlets, drainage structures, pavement markings or by any public utility appurtenances within the area.

#### **BASIS OF PAYMENT**

Payment for this work, measured as provided above, will be made under: HIGH FRICTION COLORED PAVEMENT MARKING, MMA-COLOR at the contract unit price per square foot, which shall be full compensation for all work, materials, labor, and incidentals required to complete the work as specified, including any re-application or repair required under the Performance Requirements and Warranty as provided herein.

#### **BID ITEM 90030 – 3'X6' STORM SAS**

#### **DESCRIPTION**

This item includes all necessary work, materials, excavation, preparation, sawcut and removal of existing pipe, doweling, curing, and incidentals necessary to construct structures called out as "3X6 SAS" on storm sewer schedule.

Structure shall have two castings, one R-3067-7004-V (or VB) placed in line with curb and one R-1550-0054 centered over offset pipe.

It is intended that the structure shall be constructed on a 12" bed of compacted crushed stone.

This item shall be constructed in accordance with Part III, V, and VIII of the City of Madison Standard Specifications for Public Works Construction.

#### **METHOD OF MEASUREMENT**

Structure shall be measured as each completed unit. The contract price shall include furnishing all materials necessary to perform the work, including castings unless specified to include a salvaged casting; excavation; installation and removal of sheeting and bracing; disposal of surplus material from the excavation; backfilling the excavation and compaction of the backfill material; preparation of the

foundation; construction of the structure, including connections; cleaning out the structure; restoring the site; and all other work incidental to the installation of sanitary sewer access structures.

**BASIS OF PAYMENT**

Structure shall be measured as described above which shall be full payment for all work, materials, and incidentals required to complete the work in accordance with the description

**BID ITEM 90031 – RECONSTRUCT CATCH BASIN TO SAS CASTING**

**DESCRIPTION**

Work under this item shall include removing the roof and any adjustment from an existing CATCH BASIN, lowering the walls up to 12 inches, constructing a new roof, to accommodate two (2) standard R-1550-0054 City of Madison SAS castings (included as part of this item), and installation of the new castings to the proposed grade. The new roof shall be constructed to be in compliance with the roof detail for sewer access structures in the Standard Specifications for Public Works Construction. This item includes all materials, incidentals, and labor required to complete the work. This item includes disposal of the existing casting and provision of a new sewer access structure casting.

**METHOD OF MEASUREMENT**

RECONSTRUCT CATCH BASIN TO SAS CASTING shall be measured as each structure reconstruction is complete.

**BASIS OF PAYMENT**

RECONSTRUCT CATCH BASIN TO SAS CASTING shall be measured as above and paid at the contract price which shall be full compensation for all work, materials, and incidentals to complete the work as outlined in the description.

**BID ITEM 90032 – RELOCATE WATER LATERAL SERVICE**

**DESCRIPTION**

This work shall include, but not be limited to, installation of vertical offsets to go beneath the proposed sewer utilities, or horizontal offsets to go around the proposed sewer utilities. The lengths of pipe to be relocated shall be limited to the immediate crossing of the proposed sewer utilities. Any new piping shall appropriately match the existing size of the water services being offset. Prior to construction, all ULOs and any necessary redesigns shall be completed in order to avoid potential conflicts.

All finished work must be inspected and approved by the Water Utility Construction Supervisor and shall conform to all relevant sections of the City of Madison Standards Specifications for Public Works Construction, Latest Edition.

Contact Jeff Belshaw ([jbelshaw@madisonwater.org](mailto:jbelshaw@madisonwater.org), (608) 261-9835) for coordination if water service relocation may be necessary.

**METHOD OF MEASUREMENT**

RELOCATE WATER LATERAL SERVICE shall be measured per each specific instance as identified in the field.

**BASIS OF PAYMENT**

RELOCATE WATER LATERAL SERVICE shall be paid for at the contract unit price, which shall be full compensation for all excavation, disposal of removed material, preparation of subgrade including sub-base, furnishing materials, backfilling and trench restoration, insulation installation, fill, topsoil, and for all labor, tools, equipment and incidentals necessary to complete the work.

**BID ITEM 90033 – RELOCATE WATER MAIN**

**DESCRIPTION**

This work shall include, but not be limited to, installation of vertical offsets to go beneath the proposed sewer utilities, or horizontal offsets to go around the proposed sewer utilities. The lengths of pipe to be relocated shall be limited to the immediate crossing of the proposed sewer utilities. Install new joints, piping to match the existing water main size, valves and any other materials necessary to complete the work. Prior to construction, all ULOs and any necessary redesign shall be completed in order to avoid potential conflicts.

All finished work must be inspected and approved by the Water Utility Construction Supervisor and shall conform to all relevant sections of the City of Madison Standards Specifications for Public Works Construction, Latest Edition.

Contact Jeff Belshaw ([jbelshaw@madisonwater.org](mailto:jbelshaw@madisonwater.org), (608) 261-9835) for coordination if water service relocation may be necessary.

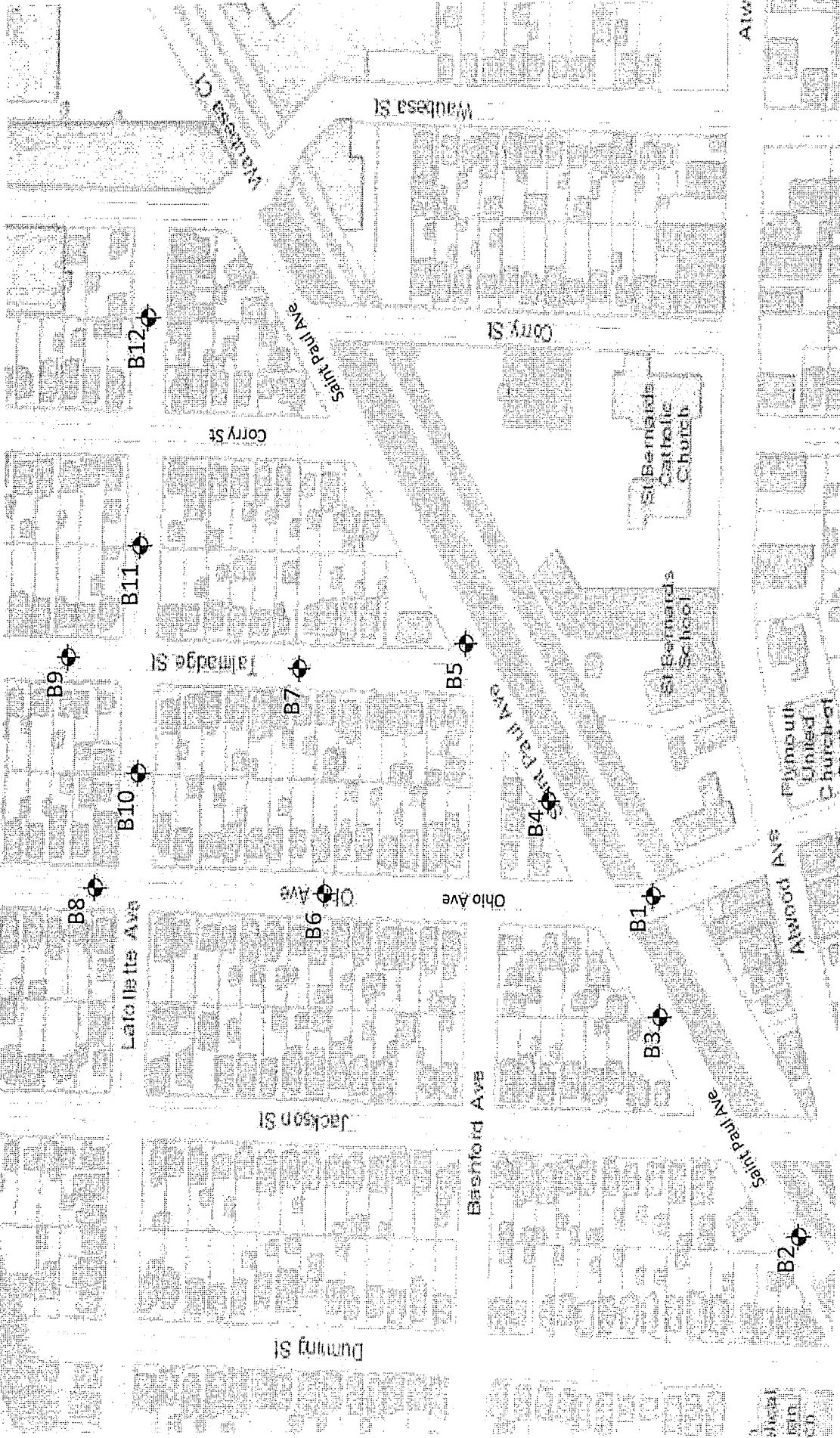
**METHOD OF MEASUREMENT**

RELOCATE WATER MAIN shall be measured per each specific instance as identified in the field.


**BASIS OF PAYMENT**

RELOCATE WATER MAIN shall be paid for at the contract unit price, which shall be full compensation for all excavation, disposal of removed material, preparation of subgrade including subbase, furnishing materials, backfilling and trench restoration, insulation installation, fill, topsoil, and for all labor, tools, equipment and incidentals necessary to complete the work.





**Legend**

 Detonics Boring Location

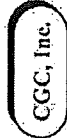


Scale: Reduced

**Notes**

1. Soil borings performed by Badger State Drilling in October 2021
2. Boring locations are approximate

**Soil Boring Location Map**  
**Saint Paul Avenue Area**  
**Madison, WI**



Date:  
10/2021

Job No.  
C21051-14



# LOG OF TEST BORING

Project St. Paul Avenue Area  
 Ohio: 50'S of St. Paul, 7'E of Centerline  
 Location Madison, WI

Boring No. 1  
 Surface Elevation (ft) 871±  
 Job No. C21051-14  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
					X	4.5 in. Asphalt Pavement/6.5 in. Base Course				
1	0	M	25		X	Medium Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM - Possible Fill to 3')				
2	18	M	20							
3	18	M	20							
4	18	M	14							
5	18	M	18			(1.25)				
6	18	M	15			(3.5)				
						(1.25)				
End Boring at 15 ft										
Borehole backfilled with bentonite chips and asphalt patch										

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Drilling <input checked="" type="checkbox"/> <u>NW</u> Upon Completion of Drilling _____	Start <u>10/11/21</u> End <u>10/11/21</u>
Time After Drilling _____	Driller <u>BSD</u> Chief <u>MC</u> Rig <u>CME-55</u>
Depth to Water _____	Logger <u>KD</u> Editor <u>ESF</u>
Depth to Cave in _____	Drill Method <u>2.25" HSA; Autohammer</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	



# LOG OF TEST BORING

Project St. Paul Avenue Area  
St. Paul: 180'SW of Jackson, 15'SE of Centerline  
 Location Madison, WI

Boring No. 2  
 Surface Elevation (ft) 872±  
 Job No. C21051-14  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
					3.5 in. Asphalt Pavement/8 in. Base Course					
1	10	M	13		Medium Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)					
2	16	M	29	5						
3	16	M	22							
4	8	M	24	10						
5	16	M	17							
6	16	M	24	15						
				15	End Boring at 15 ft					
				20	Borehole backfilled with bentonite chips and asphalt patch					

WATER LEVEL OBSERVATIONS	GENERAL NOTES
While Drilling <input checked="" type="checkbox"/> <u>NW</u> Upon Completion of Drilling _____ Time After Drilling _____ Depth to Water _____ Depth to Cave in _____	Start <u>10/12/21</u> End <u>10/12/21</u> Driller <u>BSD</u> Chief <u>MC</u> Rig <u>CME-55</u> Logger <u>KD</u> Editor <u>ESF</u> Drill Method <u>2.25" HSA; Autohammer</u>
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.	



# LOG OF TEST BORING

Project St. Paul Avenue Area  
St. Paul: 150' SW of Ohio  
 Location Madison, WI

Boring No. 3  
 Surface Elevation (ft) 876±  
 Job No. C21051-14  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES					
No.	TYPE E	Rec (in.)	Moist	N		Depth (ft)	q <sub>u</sub> (qa) (tsf)	W	LL	PL	LI
					0	2 in. Asphalt Pavement/10 in. Concrete Pavement					
1	■	8	M	14	14	Very Stiff, Gray-Brown Lean CLAY, Trace to Little Sand and Gravel (CL)					(2.5)
					13	Medium Dense, Brown Fine to Medium SAND, Some Silt and Clay, Trace Gravel (SM/SC)					
2	■	16	M	13	13						
					27	Medium Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)					
3	■	14	M	27	27						
					50/0"	Weathered to Competent, Dolomitic Limestone Bedrock					
4	■	0			50/0"	End Boring at 9 ft Due to Auger Refusal on Competent Bedrock					
Borehole backfilled with bentonite chips and asphalt patch											

### WATER LEVEL OBSERVATIONS

### GENERAL NOTES

While Drilling  NW      Upon Completion of Drilling \_\_\_\_\_  
 Time After Drilling \_\_\_\_\_  
 Depth to Water \_\_\_\_\_  
 Depth to Cave in \_\_\_\_\_

Start 10/11/21 End 10/11/21  
 Driller BSD Chief MC Rig CME-55  
 Logger KD Editor ESF  
 Drill Method 2.25" HSA; Autohammer

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



# LOG OF TEST BORING

Project St. Paul Avenue Area  
St. Paul: 200'NE of Ohio, 10'SE of Centerline  
 Location Madison, WI

Boring No. 4  
 Surface Elevation (ft) 876±  
 Job No. C21051-14  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
					7 in. Asphalt Pavement/5 in. Concrete Pavement					
1	16	M	5		Stiff to Soft, Brown Lean CLAY (CL)  Having Some Sand, Trace Gravel Beginning Near 4'	(1.5)				
2	18	M	7			(0.75)				
3	8	M	7			(0.5)				
4	10	M	12		Medium Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)					
5	14	M	12							
6	16	M	11							
				15	End Boring at 15 ft					
					Borehole backfilled with bentonite chips and asphalt patch					
				20						

### WATER LEVEL OBSERVATIONS

### GENERAL NOTES

While Drilling  NW Upon Completion of Drilling \_\_\_\_\_  
 Time After Drilling \_\_\_\_\_  
 Depth to Water \_\_\_\_\_  
 Depth to Cave in \_\_\_\_\_

Start 10/12/21 End 10/12/21  
 Driller BSD Chief MC Rig CME-55  
 Logger KD Editor ESF  
 Drill Method 2.25" HSA; Autohammer

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



# LOG OF TEST BORING

Project St. Paul Avenue Area  
St. Paul: 65'NE of Talmadge, 8'SE of Centerline  
 Location Madison, WI

Boring No. 5  
 Surface Elevation (ft) 874±  
 Job No. C21051-14  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		qu (tsf)	W	LL	PL	LI
					X	2 in. Asphalt Pavement/6 in. Concrete Pavement				
1	18	M	8	8	/	Stiff to Very Stiff, Brown Lean CLAY (CL)				
2	14	M	13	13	/	Becoming Sandy with Little Gravel Near 4'				
3	18	M	18	18	.	Medium Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)				
4	14	M	22	22	.					
5	18	M	20	20	.					
6	6	M	61/ 10"	61/ 10"	.	Very Dense Near 14' - Rough Drilling				
				15	.	End Boring at 14.75 ft Due to Auger Refusal on Boulder or Possible Bedrock				
				20	.	Borehole backfilled with bentonite chips and asphalt patch				

### WATER LEVEL OBSERVATIONS

### GENERAL NOTES

While Drilling  NW Upon Completion of Drilling \_\_\_\_\_  
 Time After Drilling \_\_\_\_\_  
 Depth to Water \_\_\_\_\_  
 Depth to Cave in \_\_\_\_\_

Start 10/12/21 End 10/12/21  
 Driller BSD Chief MC Rig CME-55  
 Logger KD Editor ESF  
 Drill Method 2.25" HSA; Autohammer

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



# LOG OF TEST BORING

Project St. Paul Avenue Area  
Ohio: 350'S of LaFollette, 8'E of Centerline  
 Location Madison, WI

Boring No. 6  
 Surface Elevation (ft) 874±  
 Job No. C21051-14  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
				0	5 in. Asphalt Pavement/6 in. Base Course					
1	16	M	10	10	Very Stiff, Gray-Brown Lean CLAY, Trace to Little Sand and Gravel (CL)	(3.0)				
2	8	M	11	11		(3.5)				
3	18	M	13	13	Medium Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)					
4	18	M	20	20	Apparent Bedrock					
5	0		50/3"	20	End Boring at 12 ft Due to Auger Refusal on Apparent Bedrock  Borehole backfilled with bentonite chips and asphalt patch					

## WATER LEVEL OBSERVATIONS

## GENERAL NOTES

While Drilling  NW Upon Completion of Drilling \_\_\_\_\_  
 Time After Drilling \_\_\_\_\_  
 Depth to Water \_\_\_\_\_  
 Depth to Cave in \_\_\_\_\_

Start 10/13/21 End 10/13/21  
 Driller BSD Chief MC Rig CME-55  
 Logger KD Editor ESF  
 Drill Method 2.25" HSA; Autohammer

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



# LOG OF TEST BORING

Project St. Paul Avenue Area  
Talmadge: 310'S of LaFollette, 10'W of Centerline  
 Location Madison, WI

Boring No. 7  
 Surface Elevation (ft) 871±  
 Job No. C21051-14  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	REMARKS (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
					X	4.5 in. Asphalt Pavement/6.5 in. Concrete Pavement				
1	16	M	13		/	(2.5)				
2	8	M	10		-					
				5						
3	18	M	20		.					
4	18	M	13							
				10						
5	12	M	28							
6	18	M	22							
				15						
End Boring at 15 ft										
Borehole backfilled with bentonite chips and asphalt patch										
				20						

### WATER LEVEL OBSERVATIONS

### GENERAL NOTES

While Drilling  NW Upon Completion of Drilling \_\_\_\_\_  
 Time After Drilling \_\_\_\_\_  
 Depth to Water \_\_\_\_\_  
 Depth to Cave in \_\_\_\_\_

Start 10/14/21 End 10/14/21  
 Driller BSD Chief MC Rig CME-55  
 Logger KD Editor ESF  
 Drill Method 2.25" HSA; Autohammer

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.





# LOG OF TEST BORING

Project St. Paul Avenue Area  
 Ohio: 6'N of LaFollette, 7'E of Centerline  
 Location Madison, WI

Boring No. 8  
 Surface Elevation (ft) 871±  
 Job No. C21051-14  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Type E	Rec (in.)	Moist	N		Depth (ft)	qu (qa) (tsf)	W	LL	PL
					0	2.5 in. Asphalt Pavement/6.5 in. Concrete Pavement				
1	6	M	7		1	Very Stiff, Gray-Brown Lean CLAY, Trace to Little Sand and Gravel (CL - Possible Fill)				
					5	Medium Dense, Brown Sandy SILT, Some Gravel (ML)				
2	18	M	13		6					
3	18	M	14		7					
4	18	M	18		10	Medium Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)				
5	8	M	58/ 10"		12	Apparent Bedrock				
					15	End Boring at 12 ft Due to Auger Refusal on Apparent Bedrock				
					20	Borehole backfilled with bentonite chips and asphalt patch				

WATER LEVEL OBSERVATIONS				
While Drilling	∇	NW	Upon Completion of Drilling	_____
Time After Drilling	_____	_____	_____	_____
Depth to Water	_____	_____	_____	∇
Depth to Cave in	_____	_____	_____	_____

GENERAL NOTES				
Start	10/13/21	End	10/13/21	
Driller	BSD	Chief	MC	Rig CME-55
Logger	KD	Editor	ESF	
Drill Method	2.25" HSA; Autohammer			

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



# LOG OF TEST BORING

Project St. Paul Avenue Area  
 Location Talmadge: 75'N of LaFollette, 8'W of Centerline  
Madison, WI

Boring No. 9  
 Surface Elevation (ft) 867±  
 Job No. C21051-14  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
					X	4 in. Asphalt Pavement/8 in. Concrete Pavement				
1	12	M	7		Hatched	Loose, Brown Clayey Fine to Medium SAND, Trace Gravel (SC - Possible Fill to 3')				
2	14	M	8		Hatched					
3	10	M	43		Dashed	Dense, Brown Sandy SILT, Some Gravel (ML)				
4	18	M	17		Dotted	Medium Dense to Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)				
5	18	M	30		Dotted					
6	16	W	35		Dotted					
					15	End Boring at 15 ft				
						Borehole backfilled with bentonite chips and asphalt patch				

### WATER LEVEL OBSERVATIONS

### GENERAL NOTES

While Drilling ∇ 14.0' Upon Completion of Drilling \_\_\_\_\_  
 Time After Drilling \_\_\_\_\_  
 Depth to Water \_\_\_\_\_  
 Depth to Cave in \_\_\_\_\_

Start 10/13/21 End 10/13/21  
 Driller BSD Chief MC Rig CME-55  
 Logger KD Editor ESF  
 Drill Method 2.25" HSA; Autohammer

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



# LOG OF TEST BORING

Project St. Paul Avenue Area  
LaFollette: 130'W of Talmadge, 9'S of Centerline  
 Location Madison, WI

Boring No. 10  
 Surface Elevation (ft) 869±  
 Job No. C21051-14  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		q <sub>u</sub> (qa) (tsf)	W	LL	PL	LI
				5	X	5 in. Asphalt Pavement/7 in. Base Course				
1	16	M	10	10	Hatched	Very Stiff, Gray-Brown Lean CLAY, Trace to Little Sand and Gravel (CL)  (2.25)				
2	8	M	15	15	Hatched					
3	6	M	16	16	Dotted	Medium Dense, Brown Fine to Medium SAND, Some Silt and Gravel, Scattered Cobbles and Boulders (SM)				
4	18	M	14	14	Dotted					
5	16	M	27	27	Dotted					
6	18	M/W	25	25	Dotted					
15					End Boring at 15 ft  Borehole backfilled with bentonite chips and asphalt patch					
20										

WATER LEVEL OBSERVATIONS					GENERAL NOTES					
While Drilling	<input checked="" type="checkbox"/> NW	Upon Completion of Drilling			Start	<u>10/13/21</u>	End	<u>10/13/21</u>		
Time After Drilling					Driller	<u>BSD</u>	Chief	<u>MC</u>	Rig <u>CME-55</u>	
Depth to Water					Logger	<u>KD</u>	Editor	<u>ESF</u>		
Depth to Cave in					Drill Method	<u>2.25" HSA; Autohammer</u>				
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.										



# LOG OF TEST BORING

Project St. Paul Avenue Area  
LaFollette: 165'E of Talmadge, 9'S of Centerline  
 Location Madison, WI

Boring No. 11  
 Surface Elevation (ft) 865±  
 Job No. C21051-14  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		qu (qa) (tsf)	W	LL	PL	LI
				0	X	4 in. Asphalt Pavement/7 in. Base Course				
1	16	M	10	10	/	(3.0)				
2	8	M	9	9	-					
3	10	M	62	62	-					
4	14	M	17	17	-					
5	18	M	17	17	-					
6	10	W	66/8"	14.5	-					
				15	-	End Boring at 15 ft Due to Auger Refusal on Boulder or Possible Bedrock  Borehole backfilled with bentonite chips and asphalt patch				
				20						

### WATER LEVEL OBSERVATIONS

### GENERAL NOTES

While Drilling ∇ 13.5' Upon Completion of Drilling \_\_\_\_\_  
 Time After Drilling \_\_\_\_\_  
 Depth to Water \_\_\_\_\_  
 Depth to Cave in \_\_\_\_\_ 11'

Start 10/14/21 End 10/14/21  
 Driller BSD Chief MC Rig CME-55  
 Logger KD Editor ESF  
 Drill Method 2.25" HSA; Autohammer

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.



## LOG OF TEST BORING

Project St. Paul Avenue Area  
LaFollette: 45'E of Corry, 8'S of Centerline  
 Location Madison, WI

Boring No. 12  
 Surface Elevation (ft) 864±  
 Job No. C21051-14  
 Sheet 1 of 1

2921 Perry Street, Madison, WI 53713 (608) 288-4100, FAX (608) 288-7887

SAMPLE					VISUAL CLASSIFICATION and Remarks	SOIL PROPERTIES				
No.	Rec (in.)	Moist	N	Depth (ft)		q <sub>u</sub> (qa) (tsf)	W	LL	PL	LI
					X					
					X					
1	16	M	7	7	/	(2.5)				
					/					
2	16	M	9	9	/	(2.0)				
					/					
				5						
3	18	M	12	12	.					
					.					
4	14	M	15	15	.					
					.					
				10						
5	14	M	11	11	.					
					.					
6	18	M/W	30	30	.					
					.					
				15						
					.					
				20						

WATER LEVEL OBSERVATIONS					GENERAL NOTES				
While Drilling	<input checked="" type="checkbox"/>	NW	Upon Completion of Drilling		Start	10/12/21	End	10/12/21	
Time After Drilling					Driller	BSD	Chief	MC	Rig CME-55
Depth to Water				<input checked="" type="checkbox"/>	Logger	KD	Editor	ESF	
Depth to Cave in					Drill Method	2.25" HSA; Autohammer			
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.									

**LOG OF TEST BORING**  
*General Notes*

**DESCRIPTIVE SOIL CLASSIFICATION**

Grain Size Terminology

Soil Fraction	Particle Size	U.S. Standard Sieve Size
Boulders .....	Larger than 12" .....	Larger than 12"
Cobbles .....	3" to 12" .....	3" to 12"
Gravel: Coarse.....	¾" to 3" .....	¾" to 3"
Fine .....	4.76 mm to ¾".....	#4 to ¾"
Sand: Coarse.....	2.00 mm to 4.76 mm.....	#10 to #4
Medium .....	0.42 to mm to 2.00 mm .....	#40 to #10
Fine .....	0.074 mm to 0.42 mm.....	#200 to #40
Silt.....	0.005 mm to 0.074 mm.....	Smaller than #200
Clay.....	Smaller than 0.005 mm.....	Smaller than #200

Plasticity characteristics differentiate between silt and clay.

General Terminology

**Physical Characteristics**  
 Color, moisture, grain shape, fineness, etc.  
**Major Constituents**  
 Clay, silt, sand, gravel  
**Structure**  
 Laminated, varved, fibrous, stratified, cemented, fissured, etc.  
**Geologic Origin**  
 Glacial, alluvial, eolian, residual, etc.

Relative Density

Term	"N" Value
Very Loose.....	0 - 4
Loose.....	4 - 10
Medium Dense.....	10 - 30
Dense.....	30 - 50
Very Dense.....	Over 50

Relative Proportions Of Cohesionless Soils

Proportional Term	Defining Range by Percentage of Weight
Trace.....	0% - 5%
Little.....	5% - 12%
Some.....	12% - 35%
And .....	35% - 50%

Consistency

Term	q <sub>a</sub> -tons/sq. ft
Very Soft.....	0.0 to 0.25
Soft.....	0.25 to 0.50
Medium.....	0.50 to 1.0
Stiff.....	1.0 to 2.0
Very Stiff.....	2.0 to 4.0
Hard.....	Over 4.0

Organic Content by Combustion Method

Soil Description	Loss on Ignition
Non Organic.....	Less than 4%
Organic Silt/Clay.....	4 - 12%
Sedimentary Peat.....	12% - 50%
Fibrous and Woody Peat...	More than 50%

Plasticity

Term	Plastic Index
None to Slight.....	0 - 4
Slight.....	5 - 7
Medium.....	8 - 22
High to Very High ..	Over 22

The penetration resistance, N, is the summation of the number of blows required to effect two successive 6" penetrations of the 2" split-barrel sampler. The sampler is driven with a 140 lb. weight falling 30" and is seated to a depth of 6" before commencing the standard penetration test.

**SYMBOLS**

Drilling and Sampling

- CS – Continuous Sampling
- RC – Rock Coring: Size AW, BW, NW, 2"W
- RQD – Rock Quality Designation
- RB – Rock Bit/Roller Bit
- FT – Fish Tail
- DC – Drove Casing
- C – Casing: Size 2 ½", NW, 4", HW
- CW – Clear Water
- DM – Drilling Mud
- HSA – Hollow Stem Auger
- FA – Flight Auger
- HA – Hand Auger
- COA – Clean-Out Auger
- SS - 2" Dia. Split-Barrel Sample
- 2ST – 2" Dia. Thin-Walled Tube Sample
- 3ST – 3" Dia. Thin-Walled Tube Sample
- PT – 3" Dia. Piston Tube Sample
- AS – Auger Sample
- WS – Wash Sample
- PTS – Peat Sample
- PS – Pitcher Sample
- NR – No Recovery
- S – Sounding
- PMT – Borehole Pressurimeter Test
- VS – Vane Shear Test
- WPT – Water Pressure Test

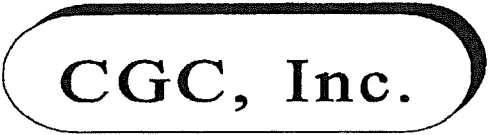
Laboratory Tests

- q<sub>a</sub> – Penetrometer Reading, tons/sq ft
- q<sub>u</sub> – Unconfined Strength, tons/sq ft
- W – Moisture Content, %
- LL – Liquid Limit, %
- PL – Plastic Limit, %
- SL – Shrinkage Limit, %
- LI – Loss on Ignition
- D – Dry Unit Weight, lbs/cu ft
- pH – Measure of Soil Alkalinity or Acidity
- FS – Free Swell, %

Water Level Measurement

- ▽ - Water Level at Time Shown
- NW – No Water Encountered
- WD – While Drilling
- BCR – Before Casing Removal
- ACR – After Casing Removal
- CW – Cave and Wet
- CM – Caved and Moist

Note: Water level measurements shown on the boring logs represent conditions at the time indicated and may not reflect static levels, especially in cohesive soils.



Madison - Milwaukee

# Unified Soil Classification System

## UNIFIED SOIL CLASSIFICATION AND SYMBOL CHART

COARSE-GRAINED SOILS (more than 50% of material is larger than No. 200 sieve size)		
Clean Gravels (Less than 5% fines)		
<b>GRAVELS</b> More than 50% of coarse fraction larger than No. 4 sieve size		GW Well-graded gravels, gravel-sand mixtures, little or no fines
		GP Poorly-graded gravels, gravel-sand mixtures, little or no fines
	Gravels with fines (More than 12% fines)	
		GM Silty gravels, gravel-sand-silt mixtures
		GC Clayey gravels, gravel-sand-clay mixtures
Clean Sands (Less than 5% fines)		
<b>SANDS</b> 50% or more of coarse fraction smaller than No. 4 sieve size		SW Well-graded sands, gravelly sands, little or no fines
		SP Poorly graded sands, gravelly sands, little or no fines
	Sands with fines (More than 12% fines)	
		SM Silty sands, sand-silt mixtures
		SC Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (50% or more of material is smaller than No. 200 sieve size.)		
<b>SILTS AND CLAYS</b> Liquid limit less than 50%		ML Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
		CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL Organic silts and organic silty clays of low plasticity
<b>SILTS AND CLAYS</b> Liquid limit 50% or greater		MH Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH Inorganic clays of high plasticity, fat clays
		OH Organic clays of medium to high plasticity, organic silts
<b>HIGHLY ORGANIC SOILS</b>		PT Peat and other highly organic soils

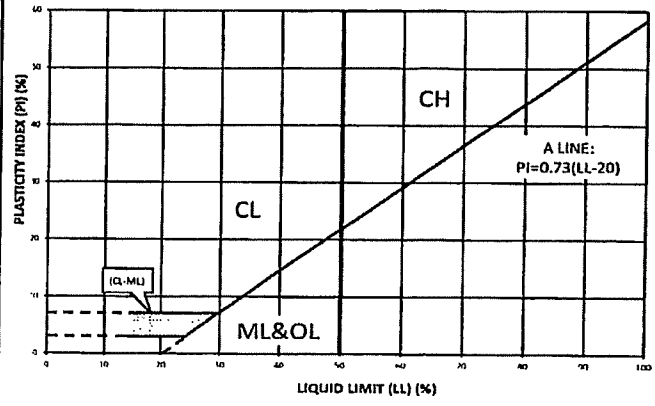
## LABORATORY CLASSIFICATION CRITERIA

GW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$ between 1 and 3	
GP	Not meeting all gradation requirements for GW	
GM	Atterberg limits below "A" line or P.I. less than 4	Above "A" line with P.I. between 4 and 7 are borderline cases requiring use of dual symbols
GC	Atterberg limits above "A" line or P.I. greater than 7	
SW	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_c = \frac{D_{30}}{D_{10} \times D_{60}}$ between 1 and 3	
SP	Not meeting all gradation requirements for GW	
SM	Atterberg limits below "A" line or P.I. less than 4	Limits plotting in shaded zone with P.I. between 4 and 7 are borderline cases requiring use of dual symbols
SC	Atterberg limits above "A" line with P.I. greater than 7	

Determine percentages of sand and gravel from grain-size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size), coarse-grained soils are classified as follows:

Less than 5 percent ..... GW, GP, SW, SP  
 More than 12 percent ..... GM, GC, SM, SC  
 5 to 12 percent ..... Borderline cases requiring dual symbols

### PLASTICITY CHART





Department of Public Works  
**Engineering Division**  
Robert F. Phillips, P.E., City Engineer

City-County Building, Room 115  
210 Martin Luther King, Jr. Boulevard  
Madison, Wisconsin 53703  
Phone: (608) 266-4751  
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**Deputy City Engineer**  
Gregory T. Fries, P.E.

**Deputy Division Manager**  
Kathleen M. Cryan

**Principal Engineer 2**  
Christopher J. Petykowski, P.E.  
John S. Fahmey, P.E.

**Principal Engineer 1**  
Christina M. Bachmann, P.E.  
Mark D. Moder, P.E.  
Janet Schmidt, P.E.  
Jim Wolfe, P.E.

**Facilities & Sustainability**  
Bryan Cooper, Principal Architect

**Financial Manager**  
Steven B. Danner-Rivers

February 14, 2022

NOTICE OF ADDENDUM  
ADDENDUM NO. 1  
CONTRACT NO. 8616

ST PAUL AVE, OHIO AVE, TALMADGE ST, JACKSON ST AND LAFOLLETTE AVE  
ASSESSMENT DISTRICT - 2022

Revise and amend the contract document(s) for the above project as stated in this addendum, otherwise, the original document shall remain in effect.

**PLANS:**

TITLE SHEET: REVISED EARTHWORK SUMMARY QUANTITIES

P SHEETS: REVISED LAFOLLETTE AVE PROFILE. REVISED ALL SHEETS TO CORRECT PROFILE VIEW ISSUE OF MISSING STATION ELEVATIONS.

U SHEETS: REVISED ALL SHEETS TO SHOW EXISTING FIRE HYDRANTS. REVISED SAS#14 FOR HYDRANT PIPE CONFLICT. REVISED SAS#10, S-4, S-4A, S-4B, S-7, S-7A, S-7B FOR LAFOLLETTE AVE CHANGES PER PROFILE UPDATE.

X SHEETS: REVISED LAFOLLETTE AVE CROSS SECTIONS PER PROFILE/GRADE CHANGES.

Full plan-set has been revised and posted to Bid Express with a revision date of 2/14/2022.

**SPECIFICATIONS:**

**ARTICLE 301      CONCRETE AND CONCRETE MATERIALS GENERAL**

**SECTION 301.1      GENERAL**

All concrete used on City of Madison Public Works projects shall comply with Section 501, 'Concrete' of the latest edition of the Standard Specifications for Highway and Structure Construction of the State of Wisconsin, Department of Transportation, Division of Highways. Note that there has been extensive updates to this section with the 2022 Edition of these Standard Specifications and the **Contractor shall review these updates prior to bidding.**



## CARBON DIOXIDE (CO<sub>2</sub>) MINERALIZATION

The use of concrete that has undergone a carbonization treatment with Carbon Dioxide (CO<sub>2</sub>) during mixing, such that CO<sub>2</sub> is chemically mineralized into the concrete, is permitted for use in concrete sidewalk, ramps, and driveway aprons only. It is not permitted for use in concrete curb & gutter or concrete pavement.

CO<sub>2</sub> mineralization: Supply CO<sub>2</sub> mineralized concrete, such that post-industrial carbon dioxide (CO<sub>2</sub>) is injected into the concrete like an admixture and chemically converted into a mineral. The concrete may undergo mix optimization whereby the strength enhancement property of the mineralized CO<sub>2</sub> is utilized to adjust cementitious content, pending that the optimized concrete mix meets concrete performance requirements as outlined in Article 301 of the City of Madison Standard Specifications for Public Works Construction. Acceptable technologies: CarbonCure Ready Mix Concrete Technology.

The injection and subsequent mineralization of CO<sub>2</sub> meets the requirements of ASTM C494 Type S admixture.

The Contractor shall submit an additional mix design to the City Engineer for concrete that has undergone CO<sub>2</sub> mineralization.

Minimum cementitious content and maximum water/cementing materials ratio requirements as outlined in Article 301 of the City of Madison Standard Specifications for Public Works Construction will be reviewed and may be adjusted by the Engineer pending review of the submitted mix design. Adjustment of cementitious content and water/cementing materials ratio requirement will be at the sole discretion of the Engineer.

Any concrete items that undergo a carbonization treatment shall be identified by the Contractor and recorded by the Construction Engineer for future reference and long-term inspection.

The use of CO<sub>2</sub> mineralization is not permitted for any 7-Inch concrete sidewalk or ramps within the table-top path crossings of the Capital City Trail at Jackson St or Ohio Ave, as shown on Sheet D-3 of the plans.

### **PROPOSAL:**

See below for a summary of items that have been removed, added or revised. Refer to the proposal for updated quantities. See proposal on [bidexpress.com](http://bidexpress.com).

### **ITEMS:**

Action	Bid Item	Description
MODIFY	20101	EXCAVATION CUT
MODIFY	40402	9 INCH CONCRETE PAVEMENT
MODIFY	50212	SELECT BACKFILL FOR SANITARY SEWER
MODIFY	50301	8" PVC SANITARY SEWER PIPE (SDR 35, SDR 26)

Please acknowledge this addendum on page E1 of the contract documents and/or in Section E: Bidder's Acknowledgement on Bid Express.

Electronic version of these documents can be found on the Bid Express web site at:

<http://www.bidexpress.com>

If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751 receive the material by another route.

Sincerely,

*EN- Greg Fries*

\_\_\_\_\_ for:

Robert F. Phillips, P.E.  
City Engineer

RFP:AJC



Madison, Wisconsin

# CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

## PLAN OF PROPOSED IMPROVEMENT

ST PAUL AVE, OHIO AVE, TALMADGE ST,  
JACKSON ST AND LAFOLLETTE AVE  
ASSESSMENT DISTRICT - 2022

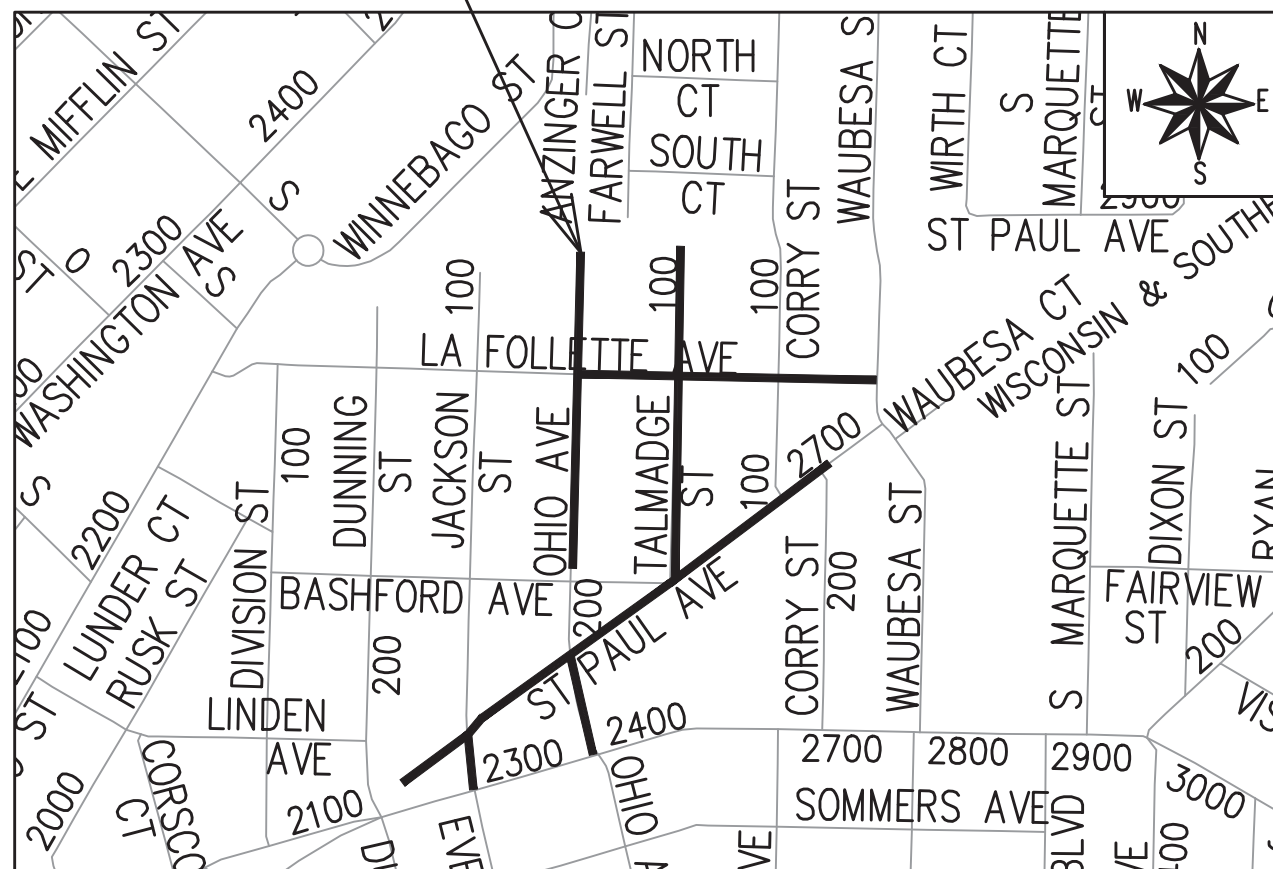
INDEX OF SHEETS

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SHEET NO. EC0-EC11	EROSION CONTROL PLANS
SHEET NO. P1-P11	STREET PLAN & PROFILES
SHEET NO. U0-U11	UTILITY PLAN & PROFILES
SHEET NO. U12-U13	SANITARY SEWER SCHEDULE
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SHEET NO. PM1-PM5	PAVEMENT MARKING PLANS
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PROJECT LOCATION

CITY PROJECT NO. 12907  
CONTRACT NO. 8616

REV 2022-02-14 BY AJC  
FULL PLAN-SET REVISED



EARTHWORK SUMMARY:

EXCAVATION CUT (MEASURED PLAN QUANTITY)	<del>7040</del> 7320 CY
ESTIMATED UNDISTRIBUTED UNDERCUT	<del>1320</del> 1320 CY
TOTAL UNCLASSIFIED EXCAVATION CUT	<del>8360</del> 8640 CY

CONVENTIONAL SIGNS  
FIELD VERIFY ALL UTILITY LOCATIONS

GAS	G
STORM SEWER	ST
SANITARY SEWER	SAN
WATER	W
BURIED ELECTRIC	E
OVERHEAD ELECTRIC	OH
POWER POLE	□
ADA COMPLIANT RAMP W/ DETECTABLE WARNING FIELD	▣
COMBUSTIBLE FLUIDS	☀

NOTES:

ALL GUTTERS SHALL DRAIN WITH A MINIMUM GRADE OF 0.50% TOWARD STORM SEWER INLETS.

SIDEWALK RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1" PER 12". SIDEWALK AND CURB RAMPS SHALL BE CONSTRUCTED WITH A SIDE SLOPE OF 2.00%. SIDEWALK SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 0.50% AND A MAXIMUM LONGITUDINAL SLOPE OF 5.00% EXCEPT WHERE STREET GRADES EXCEED 5.00%.

PUBLIC IMPROVEMENT PROJECT APPROVED

APPROVED DATE: JANUARY 4, 2022

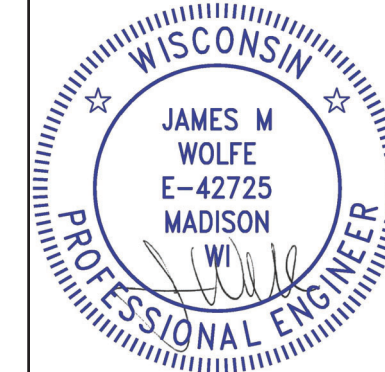
BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

*Greg Fries* Feb 4, 2022

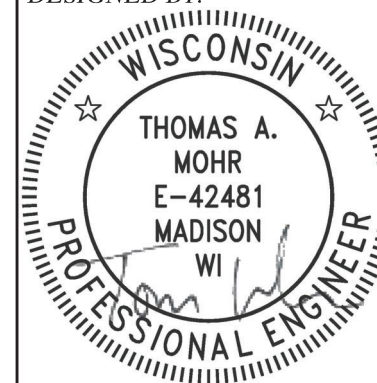
City Engineer Date

STREET DESIGNED BY:



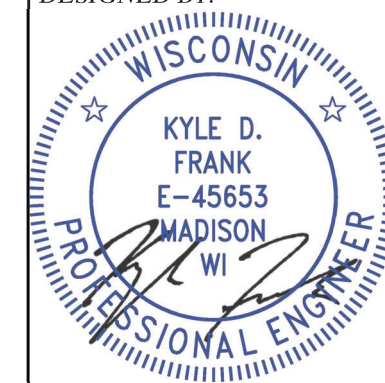
Feb 4, 2022

PAVEMENT MARKINGS DESIGNED BY:



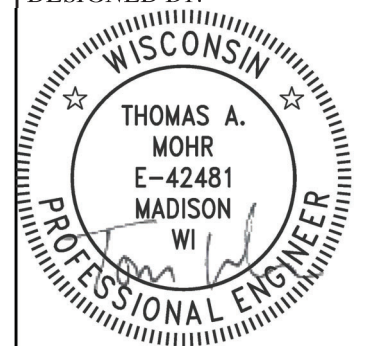
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STORM & SANITARY SEWER DESIGNED BY:



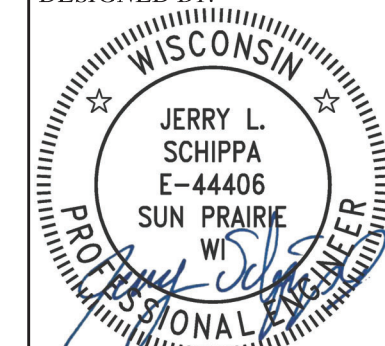
Feb 4, 2022

STREET GEOMETRICS DESIGNED BY:



Feb 4, 2022

ELECTRICAL DESIGNED BY:



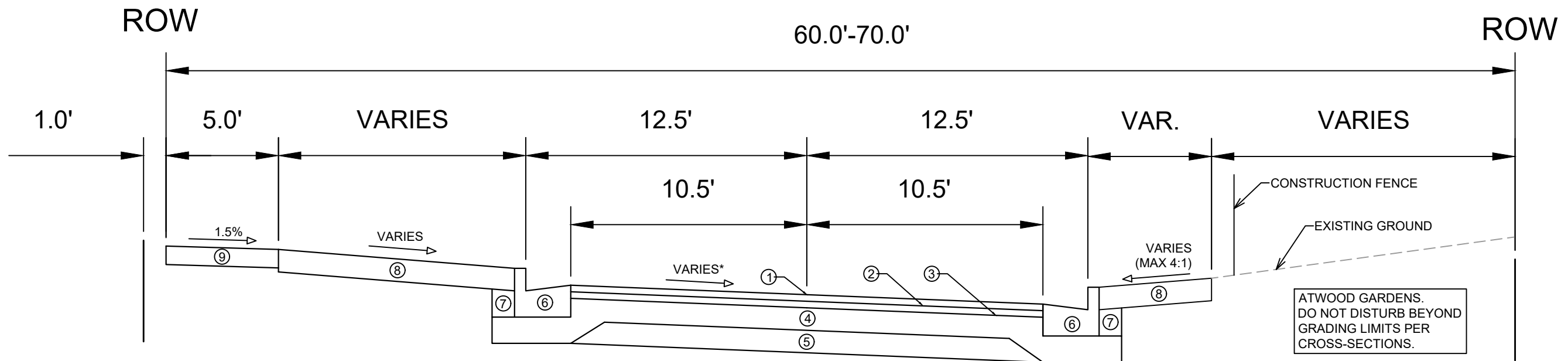
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PLOT SCALE: 1 IN. = 1 FT. XREF

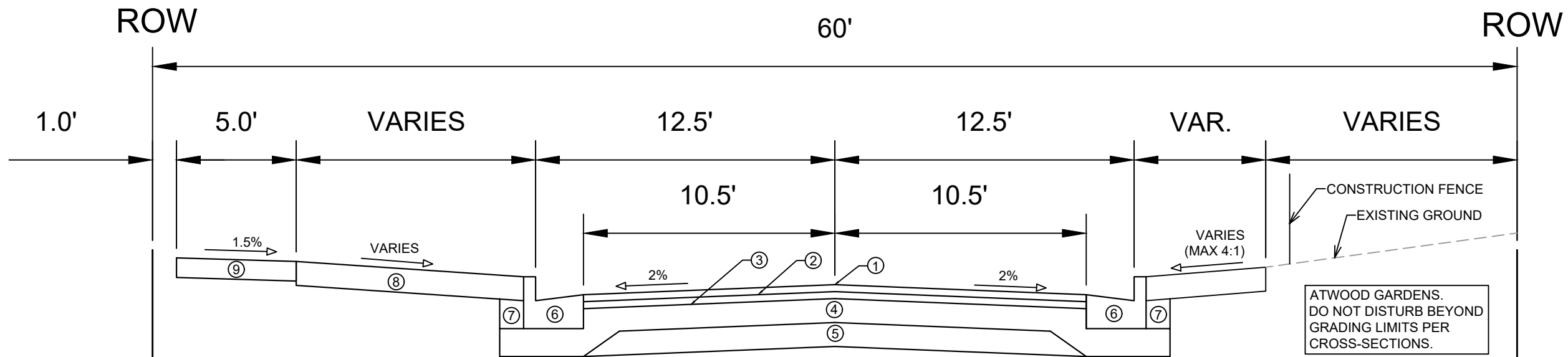
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ORIGINATOR: CITY\_OF\_MADISON



**TYPICAL SECTION  
ST PAUL AVENUE**  
(STA 101+75 TO STA 109+50)



**TYPICAL SECTION  
ST PAUL AVENUE**  
(STA 109+50 TO STA 116+82)

**SPECIAL NOTES:**

- \* SEE X-SHEETS FOR CROSS SLOPES
- \*\* SEE P-SHEETS FOR CURB AND GUTTER TYPE 'X' LOCATIONS

- ① POINT REFERRED TO ON PROFILE
- ② 1.75" HMA PAVEMENT- TYPE 4 LT 58-28 S
- ③ 1.75" HMA PAVEMENT- TYPE 4 LT 58-28 S
- ④ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE
- ⑤ 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE
- ⑥ CONCRETE CURB AND GUTTER TYPE 'A' AND TYPE 'X'.\*\*
- ⑦ FILL INCIDENTAL TO CURB AND GUTTER INSTALLATION
- ⑧ 6" TOPSOIL, SEED, & MAT
- ⑨ 5" CONCRETE SIDEWALK, REMOVE AND REPLACE AS SHOWN ON THE P-SHEETS OR AS DIRECTED BY THE ENGINEER

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12907	D-1

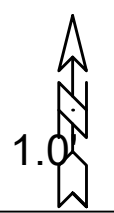
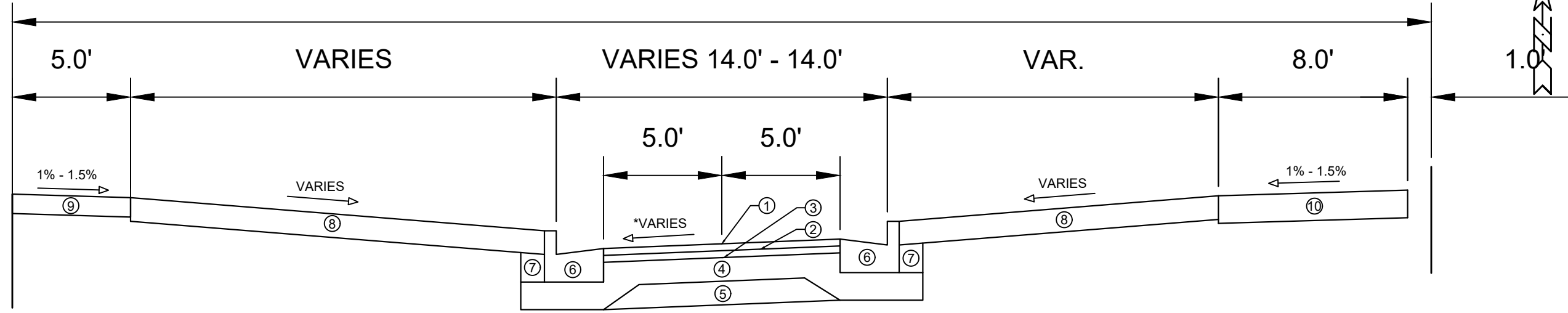
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ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
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CONTRACT NO: 8616



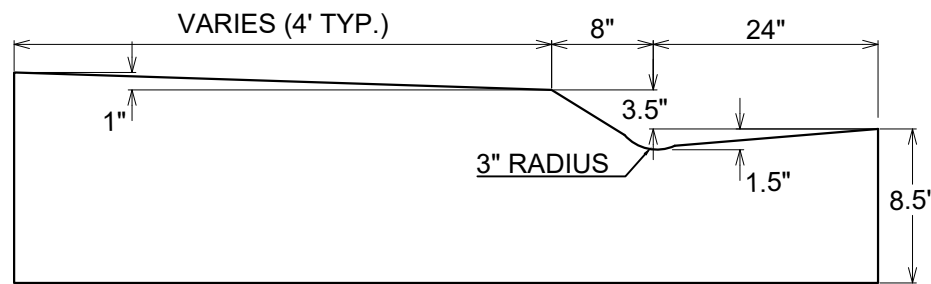
ROW

60.0'

ROW



TYPICAL SECTION  
JACKSON ST

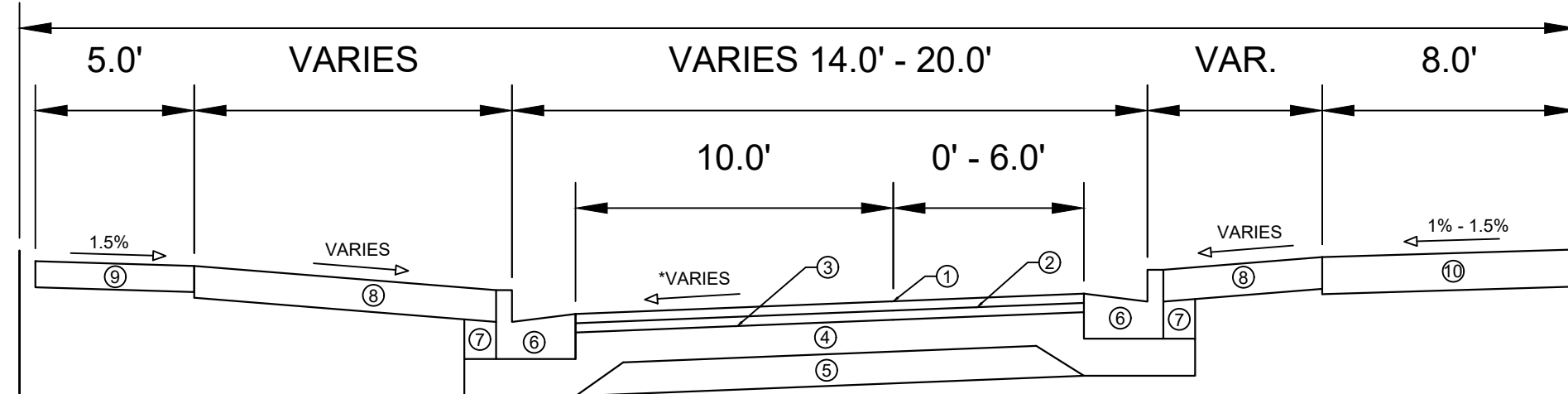


MODIFIED TYPE 'A' MOUNTABLE  
CONCRETE CURB & GUTTER

ROW

49.0'

ROW



TYPICAL SECTION  
OHIO AVENUE  
(STA 500+25 TO STA 503+00)

- ① POINT REFERRED TO ON PROFILE
- ② 1.75" HMA PAVEMENT- TYPE 4 LT 58-28 S
- ③ 1.75" HMA PAVEMENT- TYPE 4 LT 58-28 S
- ④ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE
- ⑤ 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE
- ⑥ CONCRETE CURB AND GUTTER TYPE 'A' AND TYPE 'X'.\*\*
- ⑦ FILL INCIDENTAL TO CURB AND GUTTER INSTALLATION
- ⑧ 6" TOPSOIL, SEED, & MAT
- ⑨ 5" CONCRETE SIDEWALK, REMOVE AND REPLACE AS SHOWN ON THE P-SHEETS OR AS DIRECTED BY THE ENGINEER
- ⑩ 7" CONCRETE SIDEWALK

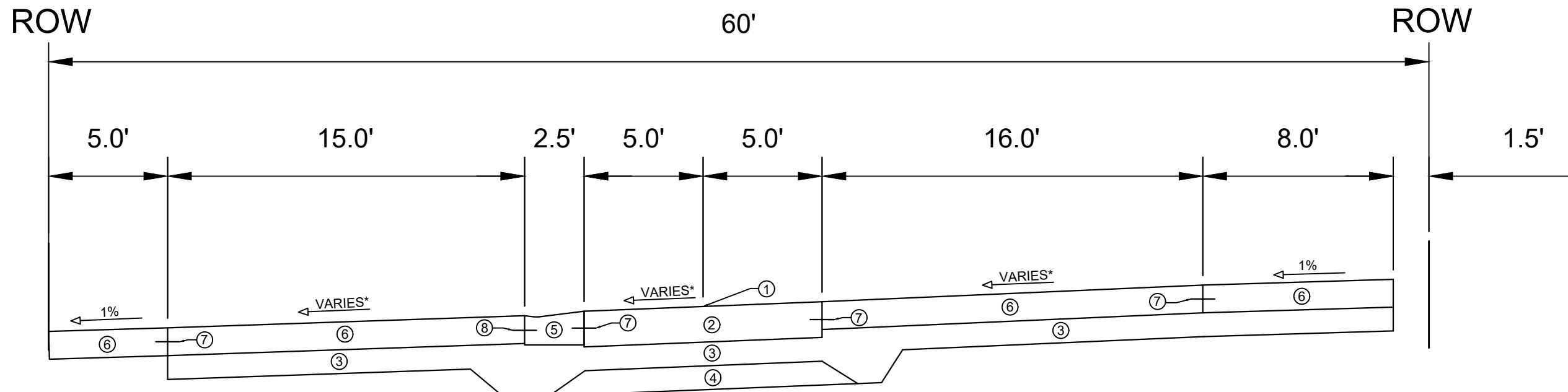
SPECIAL NOTES:

- \* SEE X-SHEETS FOR CROSS SLOPES
- \*\* SEE P-SHEETS FOR CURB AND GUTTER TYPE 'X' LOCATIONS
- SEE SHEET D-3 FOR JACKSON & OHIO TABLE-TOP TYPICAL SECTIONS

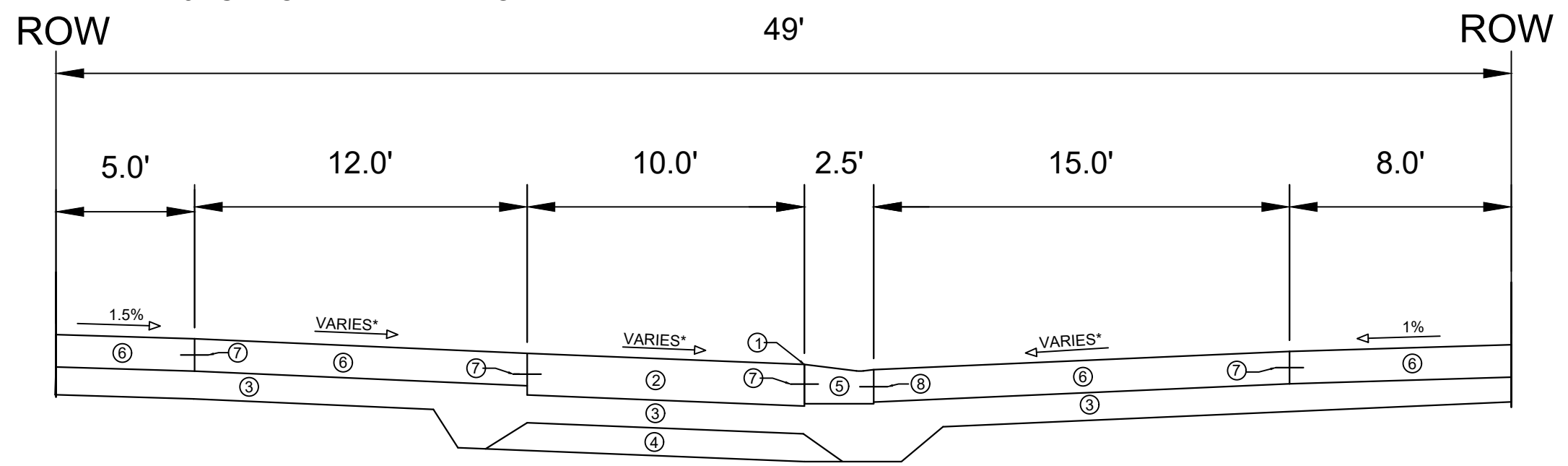
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 TYPICAL SECTIONS  
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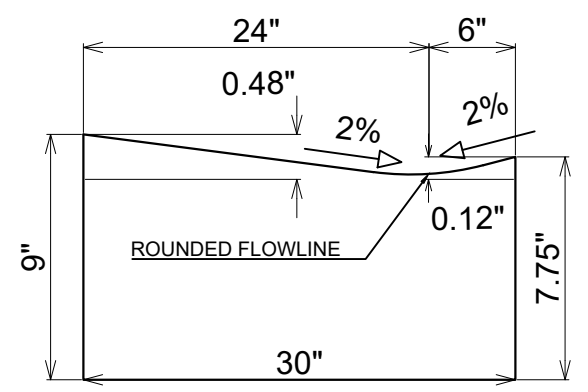




TYPICAL SECTION  
JACKSON ST TABLE-TOP



TYPICAL SECTION  
OHIO AVE TABLE-TOP



MODIFIED TYPE 'A' BIKE/PED. RAMP  
CONCRETE CURB & GUTTER

(MIRRORED FOR JACKSON & OHIO TABLE-TOPS)  
INSTALL WHERE FLOWLINE IS INDICATED ON TABLE-TOP PLAN

NOTES:  
- ALL CONTROL JOINTS SHALL BE SAWCUT AS DIRECTED BY CONSTRUCTION ENGINEER

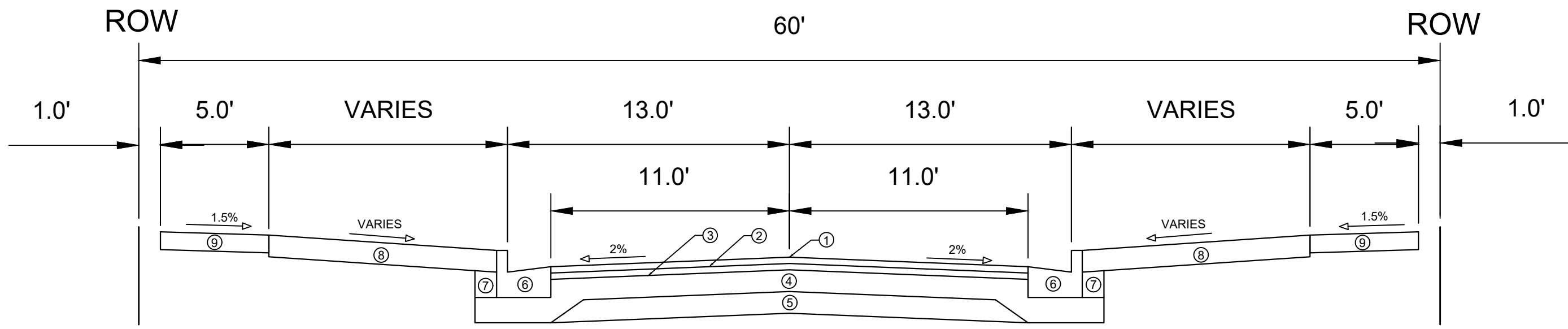
\* SEE X-SHEETS FOR CROSS SLOPES  
\*\* SEE P-SHEETS FOR CURB AND GUTTER TYPE 'X' LOCATIONS

- ① POINT REFERRED TO ON PROFILE
- ② 9" CONCRETE PAVEMENT
- ③ 6" GRADATION 2 CRUSHED AGGREGATE BASE COURSE
- ④ 6" GRADATION 1 CRUSHED AGGREGATE BASE COURSE
- ⑤ MODIFIED CONCRETE CURB & GUTTER. SEE INSET DETAIL.
- ⑥ 7" CONCRETE RAMPS & SIDEWALK
- ⑦ 24" NO. 4 SMOOTH BARS @ 3-FT OC WITH 1/2-INCH EXPANSION
- ⑧ 24" NO. 4 TIE BARS @ 3-FT OC (NO EXPANSION)



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TYPICAL SECTIONS					
ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI					
CONTRACT NO: 8616					
CITY OF MADISON WISCONSIN					
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**TYPICAL SECTION**  
**OHIO AVE**  
 (STA 506+33 TO STA 515+17)  
**TALMADGE ST**

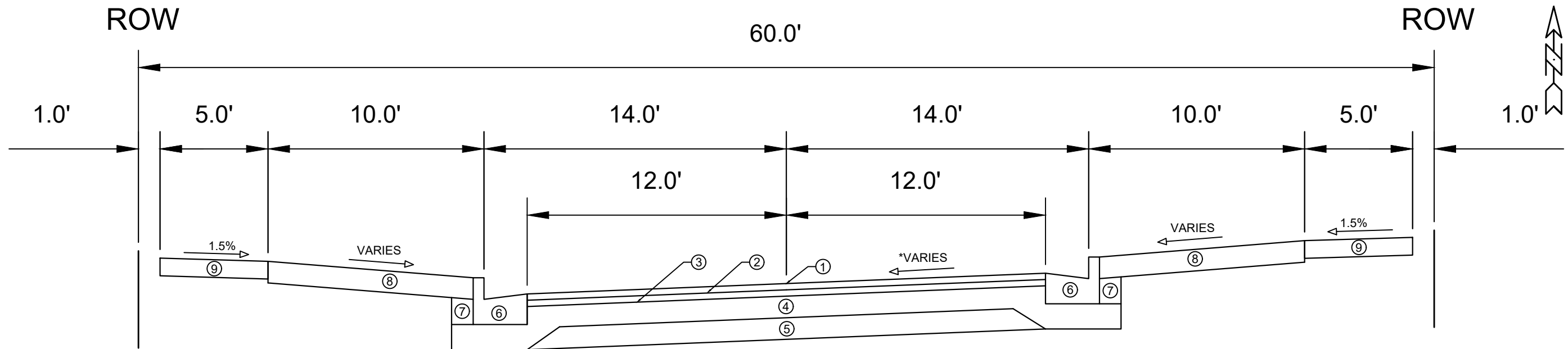
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- \* SEE X-SHEETS FOR CROSS SLOPES
- \*\* SEE P-SHEETS FOR CURB AND GUTTER TYPE 'X' LOCATIONS

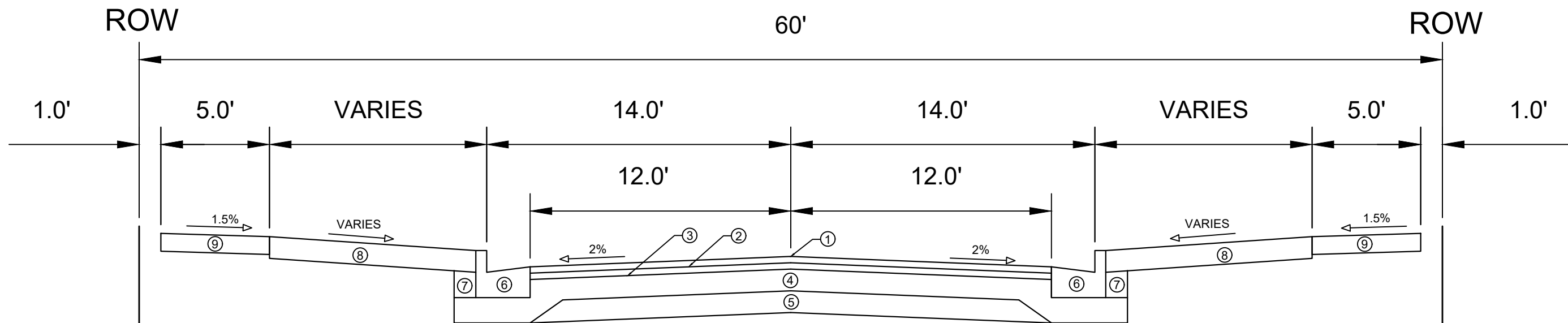
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- ⑦ FILL INCIDENTAL TO CURB AND GUTTER INSTALLATION
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 TYPICAL SECTIONS  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
 CONTRACT NO: 8616  
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TYPICAL SECTION  
LAFOLLETTE AVENUE  
(STA 308+86 TO STA 310+50)



TYPICAL SECTION  
LAFOLLETTE AVENUE  
(STA 310+50 TO STA 317+76)

SPECIAL NOTES:

- \* SEE X-SHEETS FOR CROSS SLOPES
- \*\* SEE P-SHEETS FOR CURB AND GUTTER TYPE 'X' LOCATIONS

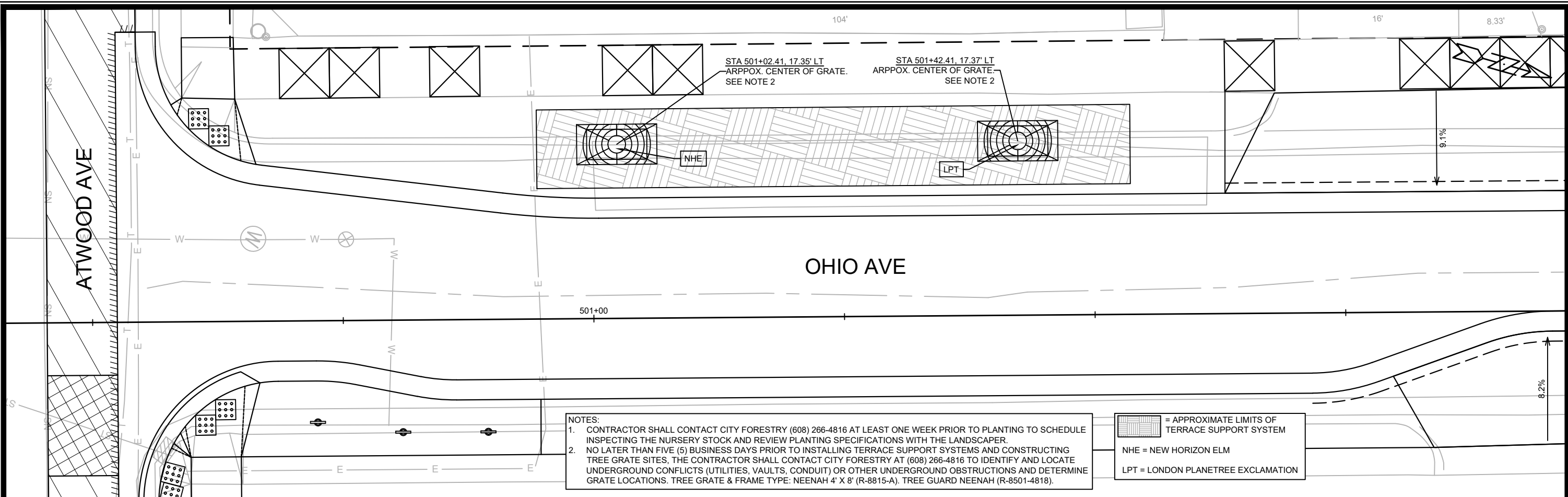
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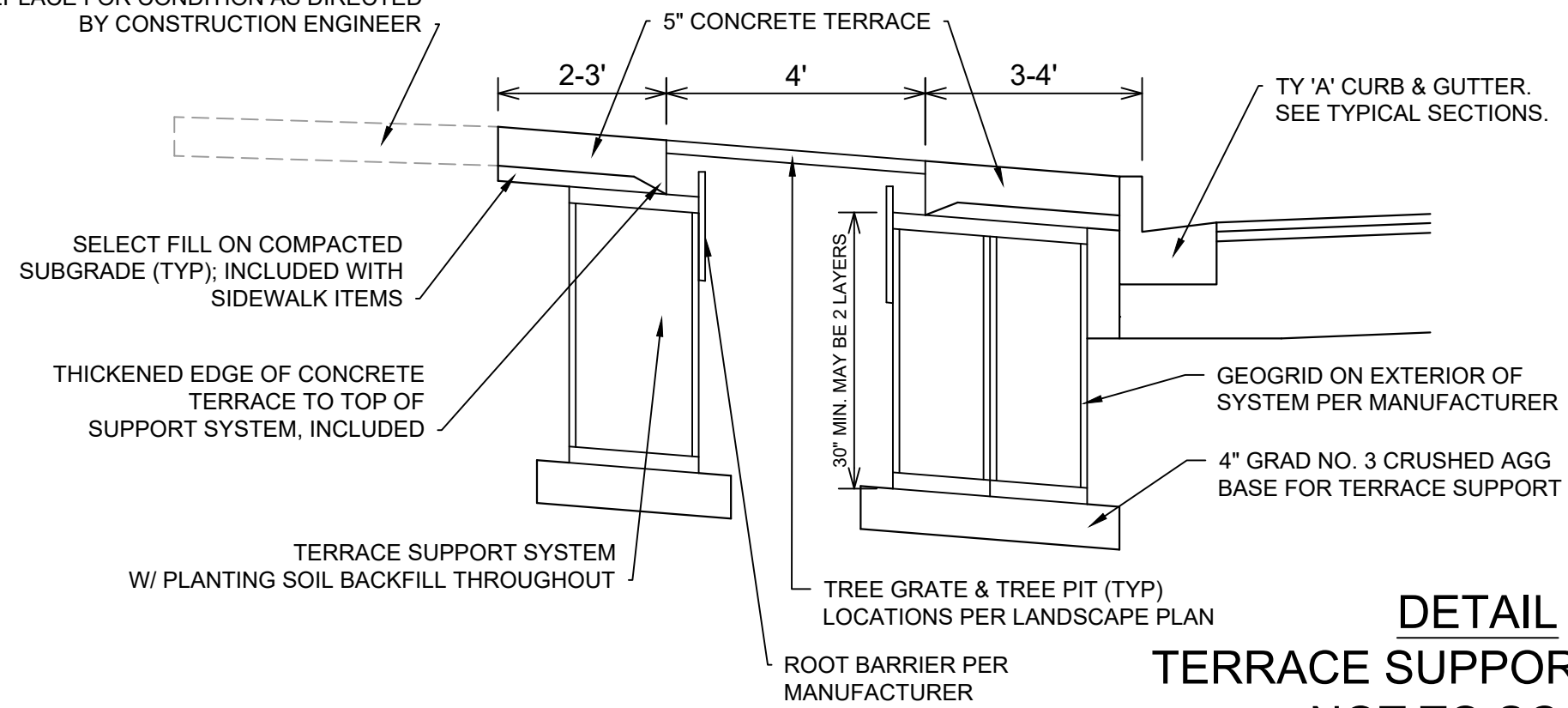
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CONTRACT NO: 8616  
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EXISTING 5" CONC SIDEWALK TO REMAIN.  
REPLACE FOR CONDITION AS DIRECTED  
BY CONSTRUCTION ENGINEER



NOTES:

- LOCATIONS OF TREE GRATES AND APPROXIMATE LIMITS OF TERRACES SUPPORT SYSTEM ARE SHOWN ON THE LANDSCAPING PLAN. THE FINAL LAYOUT OF THE SYSTEM IS DEPENDENT ON THE MANUFACTURER SELECTED BY THE CONTRACTOR. CONTRACTOR SHALL CONFIRM A LAYOUT WITH THE ENGINEER PRIOR TO INSTALLATION.
- TERRACE SUPPORT SYSTEM SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS INCLUDING ALL FABRICS, GEOGRID, AND ROOT BARRIERS. MINIMUM DEPTH OF THE SYSTEM IS PROVIDED ON THE DETAIL, AND THIS MAY BE ACHIEVED IN A SINGLE LAYER OR TWO LAYERS.
- THE PERIMETER OF THE SYSTEM AT EACH PLANTING LOCATION SHALL BE ENCLOSED WITH A GEOGRID AND THE TOP SURFACE IS TO BE COVERED WITH A FABRIC THAT IS TO BE HELD IN PLACE WITH A THICKENED CONCRETE EDGE AS SHOWN ON THE DETAIL.
- BACKFILL THE ENTIRE SYSTEM WITH PLANTING SOIL (PAID SEPARATELY) TO WITHIN 5" OF THE BOTTOM OF THE TREE GRATE. ADD SOIL AS NECESSARY DURING THE TREE PLANTING PROCESS. THE REMAINING AREA IS TO BE TOPPED WITH WASHED STONE AS INDICATED IN THE STANDARD DETAIL DRAWINGS, WHICH IS INCLUDED WITH TREE GRATE ITEM.

**DETAIL**  
**TERRACE SUPPORT SYSTEM**  
**NOT TO SCALE**

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ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI

8616

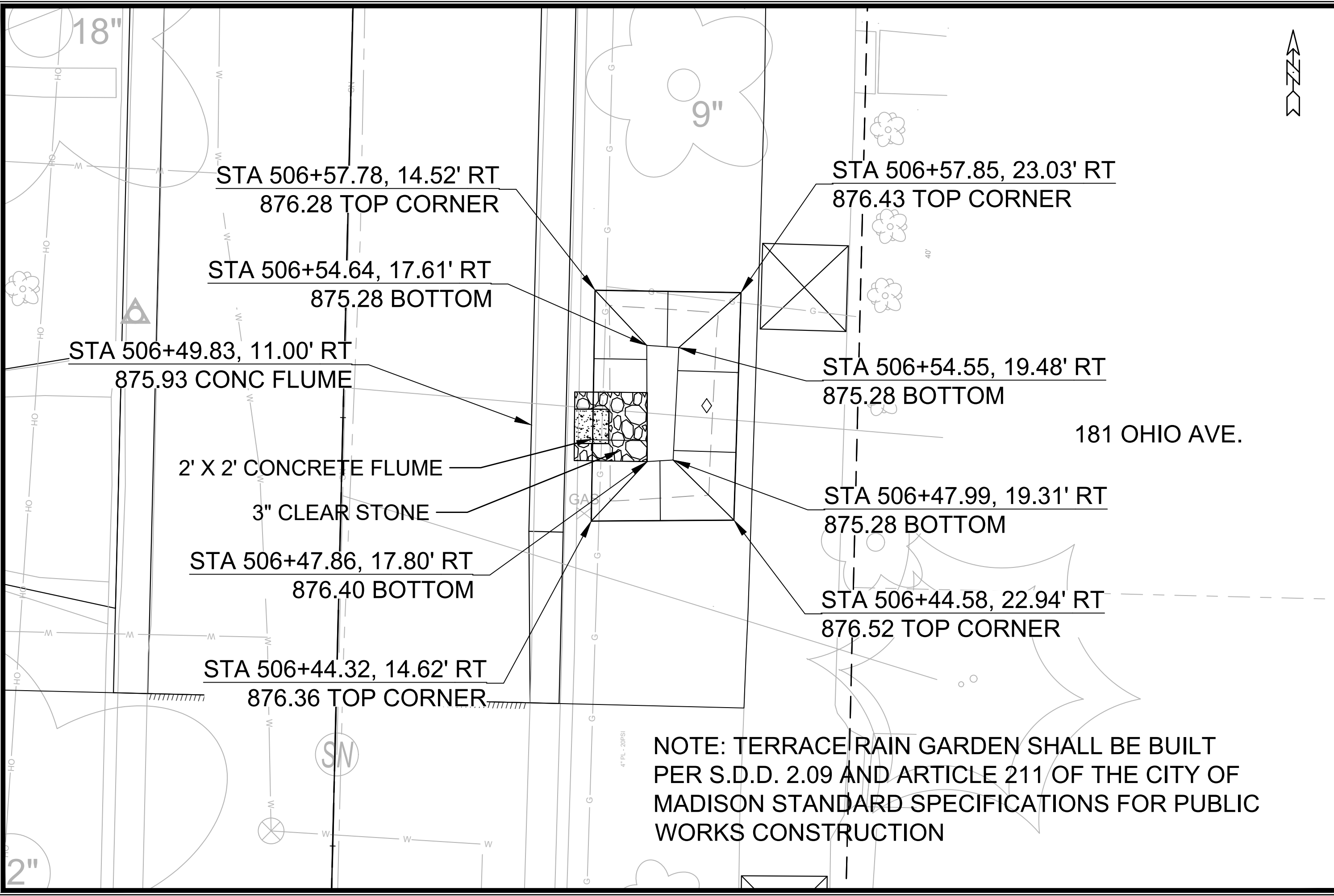
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LANDSCAPING DETAIL

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D-6



STA 506+57.78, 14.52' RT  
876.28 TOP CORNER

STA 506+57.85, 23.03' RT  
876.43 TOP CORNER

STA 506+54.64, 17.61' RT  
875.28 BOTTOM

STA 506+54.55, 19.48' RT  
875.28 BOTTOM

STA 506+49.83, 11.00' RT  
875.93 CONC FLUME

181 OHIO AVE.

2' X 2' CONCRETE FLUME

3" CLEAR STONE

STA 506+47.99, 19.31' RT  
875.28 BOTTOM

STA 506+47.86, 17.80' RT  
876.40 BOTTOM

STA 506+44.58, 22.94' RT  
876.52 TOP CORNER

STA 506+44.32, 14.62' RT  
876.36 TOP CORNER

NOTE: TERRACE RAIN GARDEN SHALL BE BUILT PER S.D.D. 2.09 AND ARTICLE 211 OF THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION



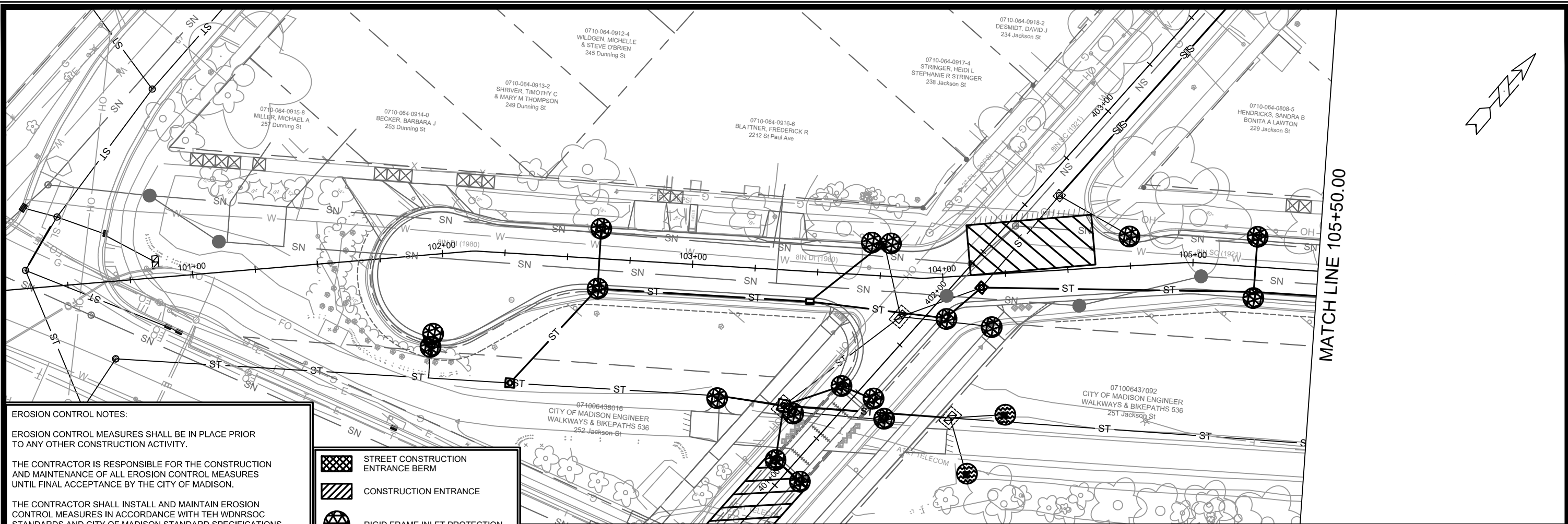
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TERRACE RAIN GARDEN PLAN  
ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
MADISON, WI  
8616  
CONTRACT NO:

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12907  
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**EROSION CONTROL NOTES:**

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.







THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

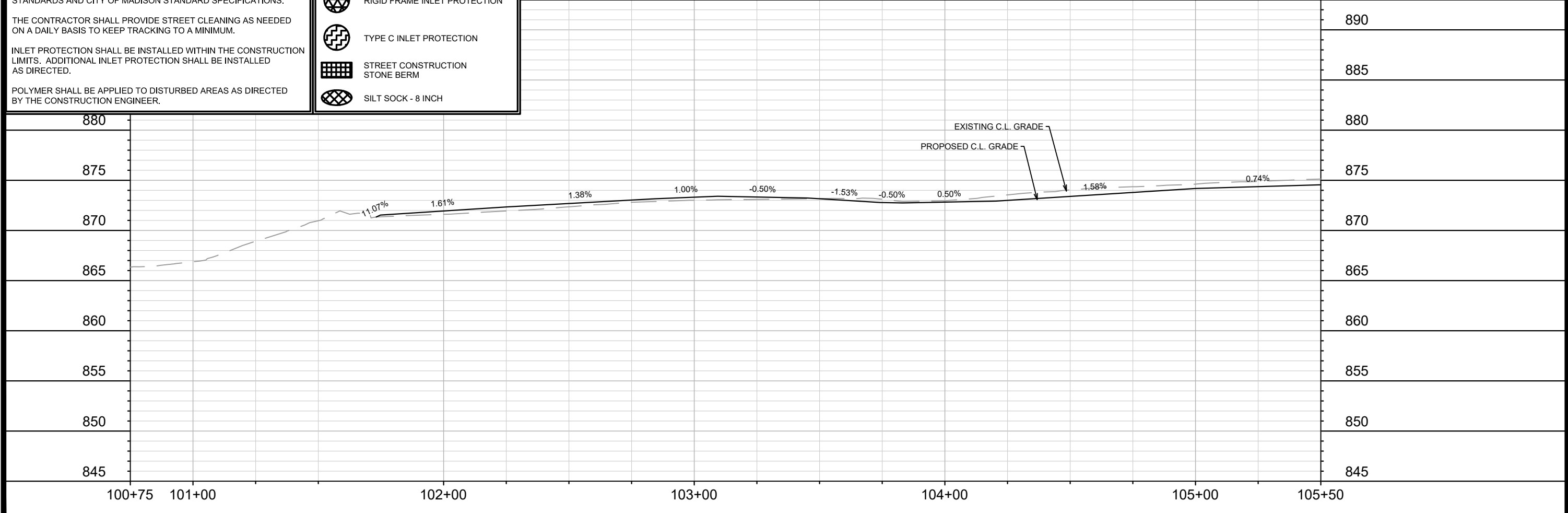
THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

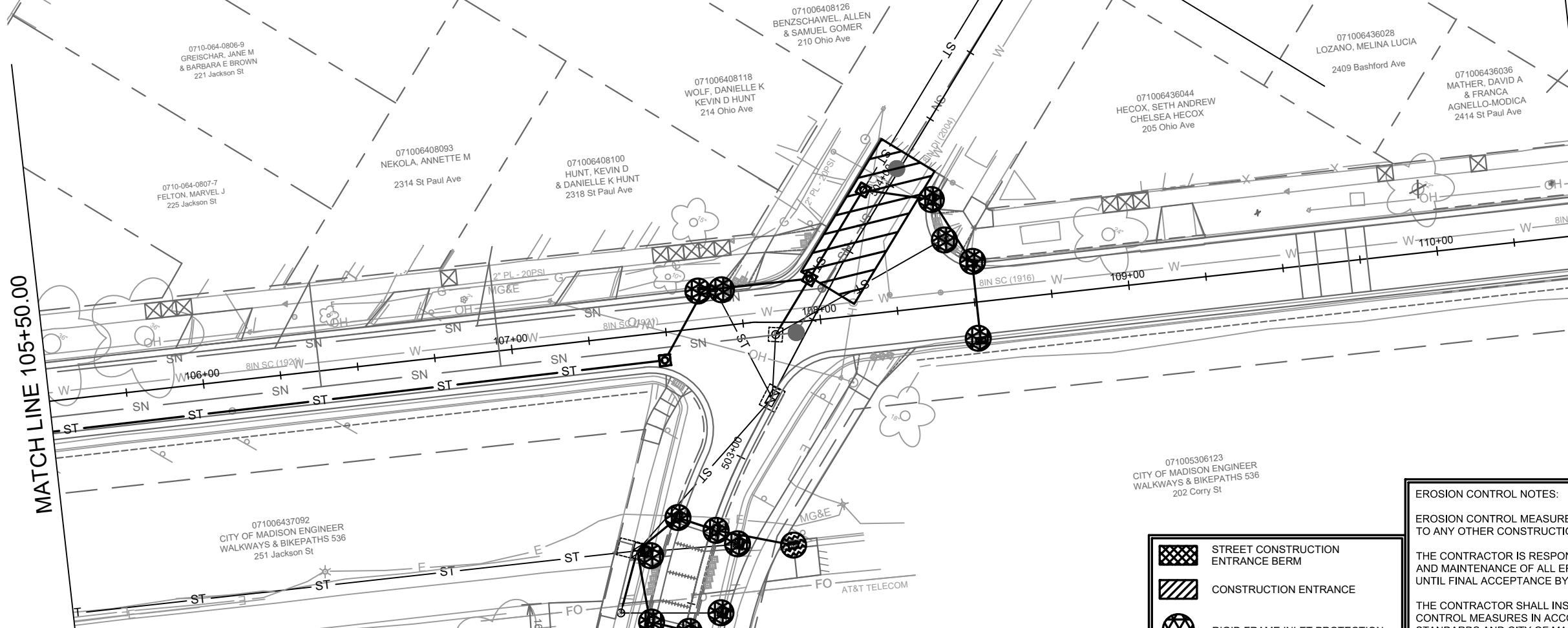
-  STREET CONSTRUCTION ENTRANCE BERM
-  CONSTRUCTION ENTRANCE
-  RIGID FRAME INLET PROTECTION
-  TYPE C INLET PROTECTION
-  STREET CONSTRUCTION STONE BERM
-  SILT SOCK - 8 INCH



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<b>12907</b> <b>ST. PAUL AVE - EROSION CONTROL PLAN</b>		<b>8616</b> <b>CONTRACT NO.:</b>		
<b>MADISON, WI</b> <b>JACKSON AND LAFOLLETTE RECONSTRUCT</b>				
				
<b>12907</b> <b>EC-0</b>				

MATCH LINE 105+50.00

MATCH LINE 110+50.00



- STREET CONSTRUCTION ENTRANCE BERM
- CONSTRUCTION ENTRANCE
- RIGID FRAME INLET PROTECTION
- TYPE C INLET PROTECTION
- STREET CONSTRUCTION STONE BERM
- SILT SOCK - 8 INCH

**EROSION CONTROL NOTES:**

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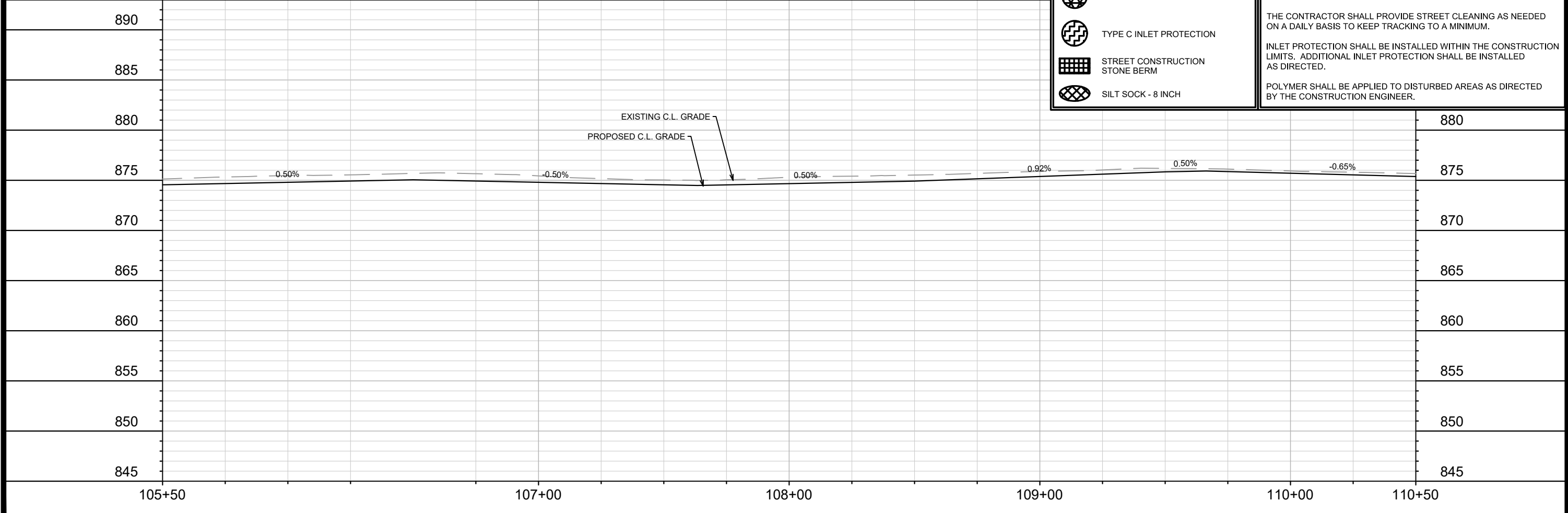
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THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH TEH WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

INLET PROTECTION SHALL BE INSTALLED WITHIN THE CONSTRUCTION LIMITS. ADDITIONAL INLET PROTECTION SHALL BE INSTALLED AS DIRECTED.

POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.



MARK	REVISION	DATE	BY

12907  
 MADISON, WI  
 8616  
 CONTRACT NO:

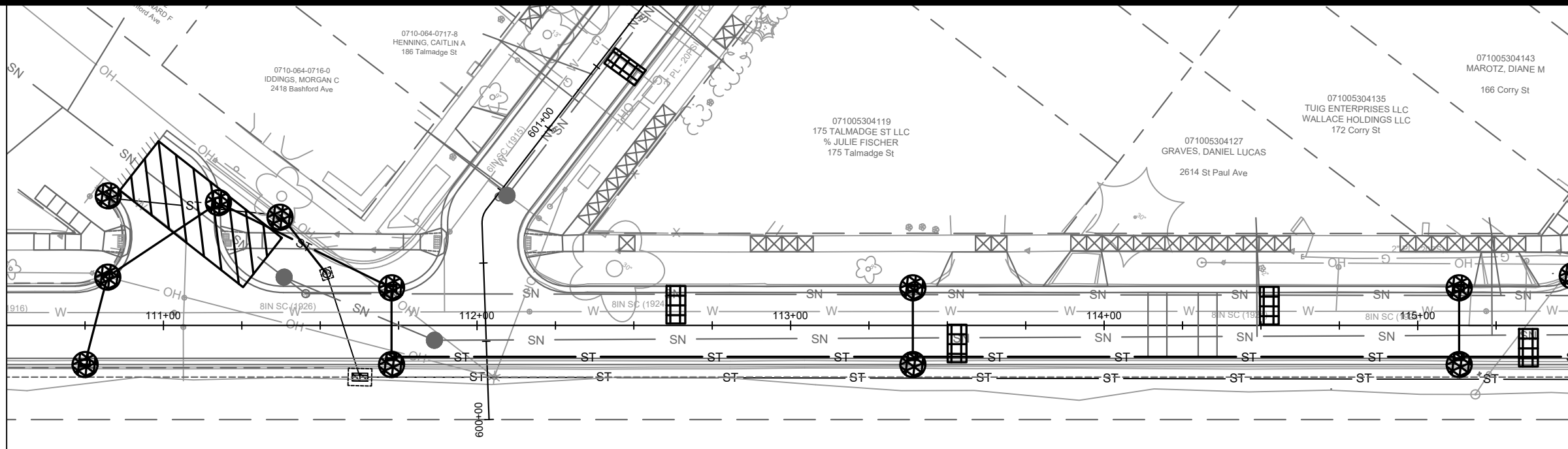
ST. PAUL AVE - EROSION CONTROL PLAN  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
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12907  
 EC-1

MATCH LINE 110+50.00

MATCH LINE 115+50.00



**EROSION CONTROL NOTES:**

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THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

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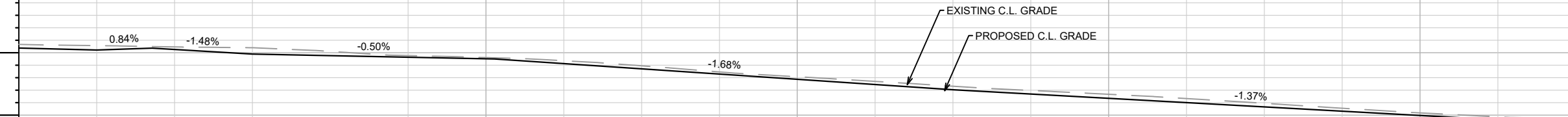
POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

-  STREET CONSTRUCTION ENTRANCE BERM
-  CONSTRUCTION ENTRANCE
-  RIGID FRAME INLET PROTECTION
-  TYPE C INLET PROTECTION
-  STREET CONSTRUCTION STONE BERM
-  SILT SOCK - 8 INCH

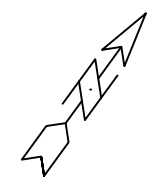
071005306123  
CITY OF MADISON ENGINEER  
WALKWAYS & BIKEPATHS 536  
202 Corry St

890  
885  
880  
875  
870  
865  
860  
855  
850  
845

890  
885  
880  
875  
870  
865  
860  
855  
850  
845



110+50      112+00      113+00      114+00      115+00      115+50

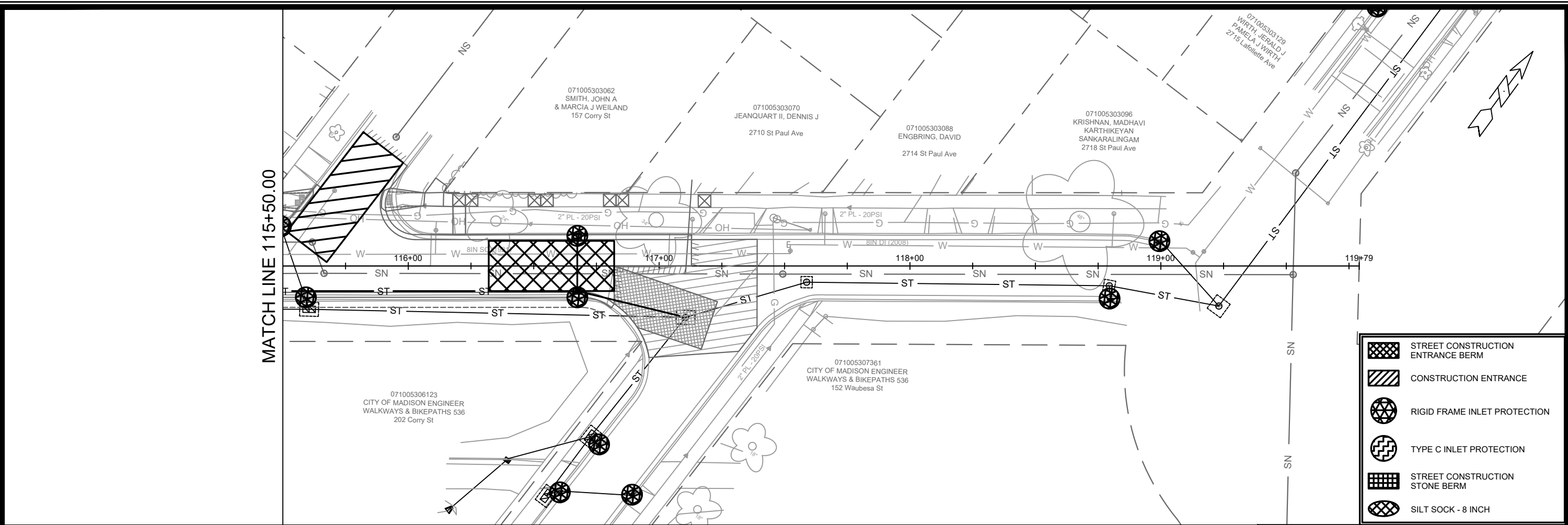


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12907	2/17/2022	12:45 PM	Scale: 1" = 40'
Designed By: AUC	Date:		







12907  
ST. PAUL AVE - EROSION CONTROL PLAN  
ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
M:\DESIGN\Projects\12907\CAD\Sewers\12907SWR-ErosionControl.dwg  
8616  
CONTRACT NO:

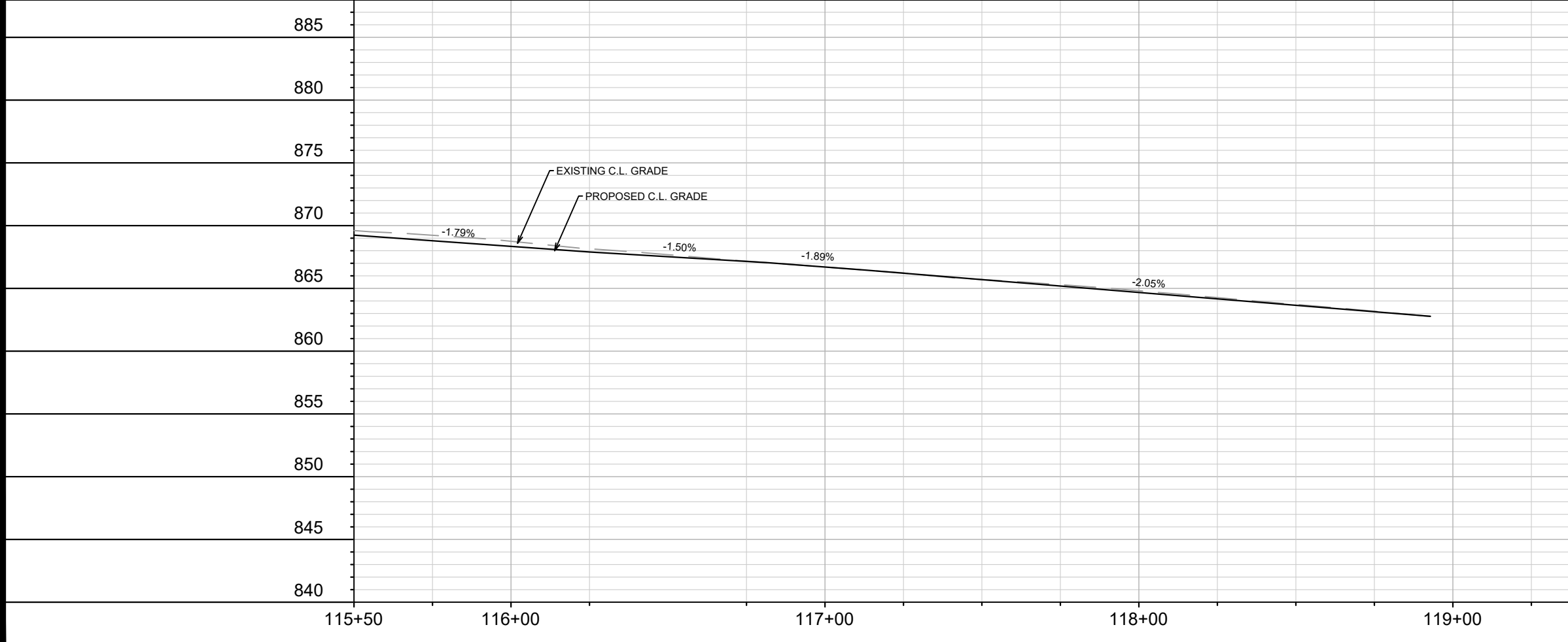


12907  
EC-2



MATCH LINE 115+50.00

-  STREET CONSTRUCTION ENTRANCE BERM
-  CONSTRUCTION ENTRANCE
-  RIGID FRAME INLET PROTECTION
-  TYPE C INLET PROTECTION
-  STREET CONSTRUCTION STONE BERM
-  SILT SOCK - 8 INCH



**EROSION CONTROL NOTES:**

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

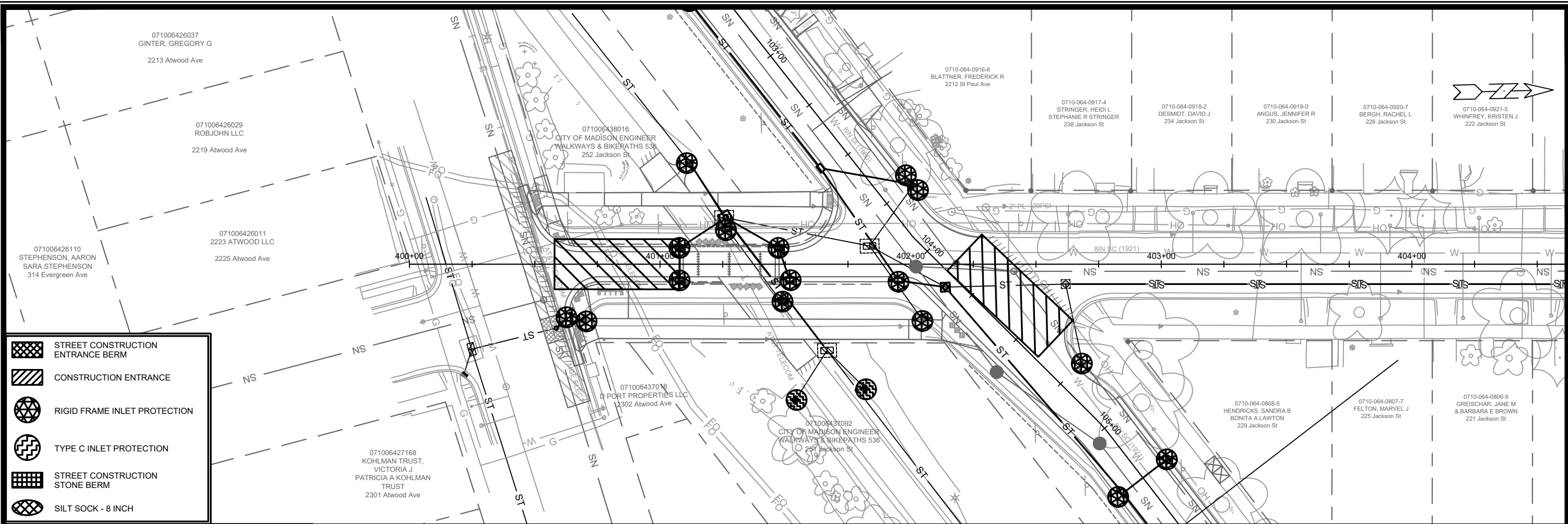
THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

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POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

MARK	REVISION	DATE	BY	
Designed By: AUC	Date: 2/14/2022 12:46 PM			Scale: 1" = 40'
12907		8616		EC-3
<b>ST. PAUL AVE - EROSION CONTROL PLAN</b>				
<b>ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI</b>				
M:\DESIGN\Projects\12907\CAD\Sewer\12907SWR-ErosionControl.dwg				
				
12907				
EC-3				



- STREET CONSTRUCTION ENTRANCE BERM
- CONSTRUCTION ENTRANCE
- RIGID FRAME INLET PROTECTION
- TYPE C INLET PROTECTION
- STREET CONSTRUCTION STONE BERM
- SILT SOCK - 8 INCH

**EROSION CONTROL NOTES:**

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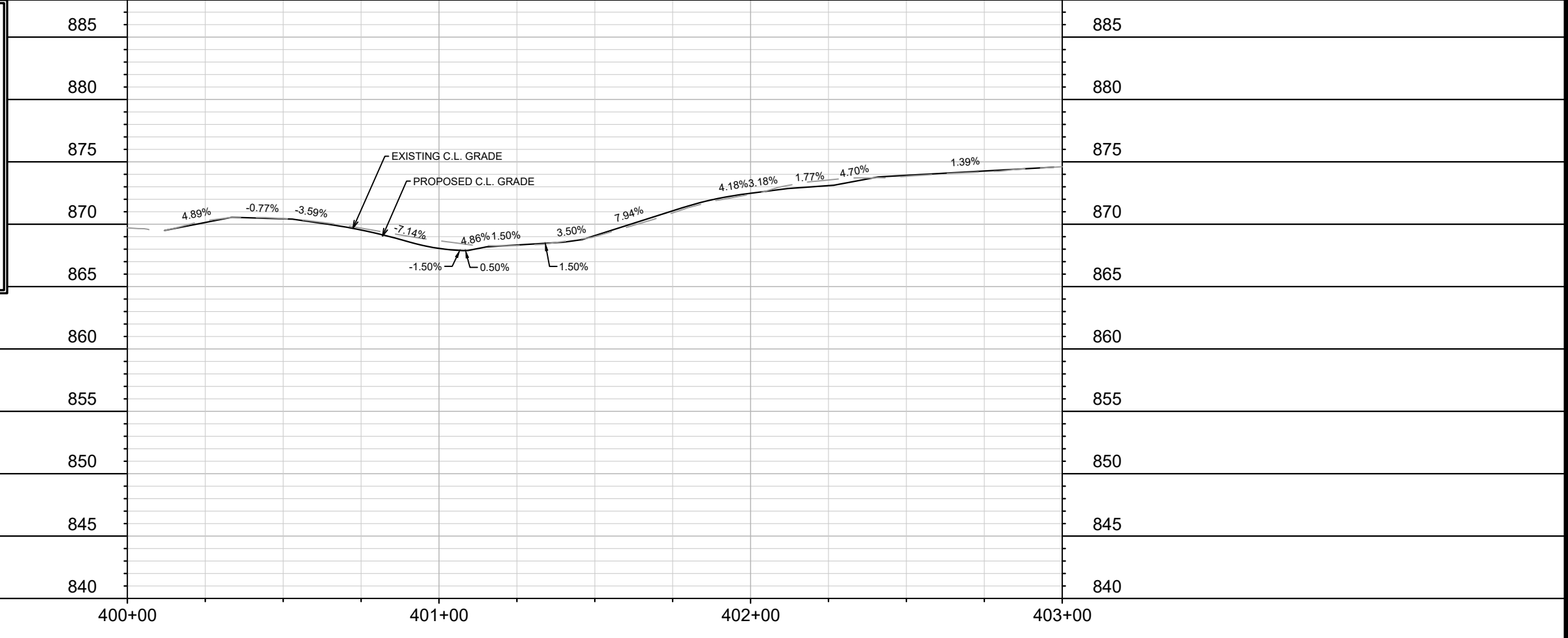
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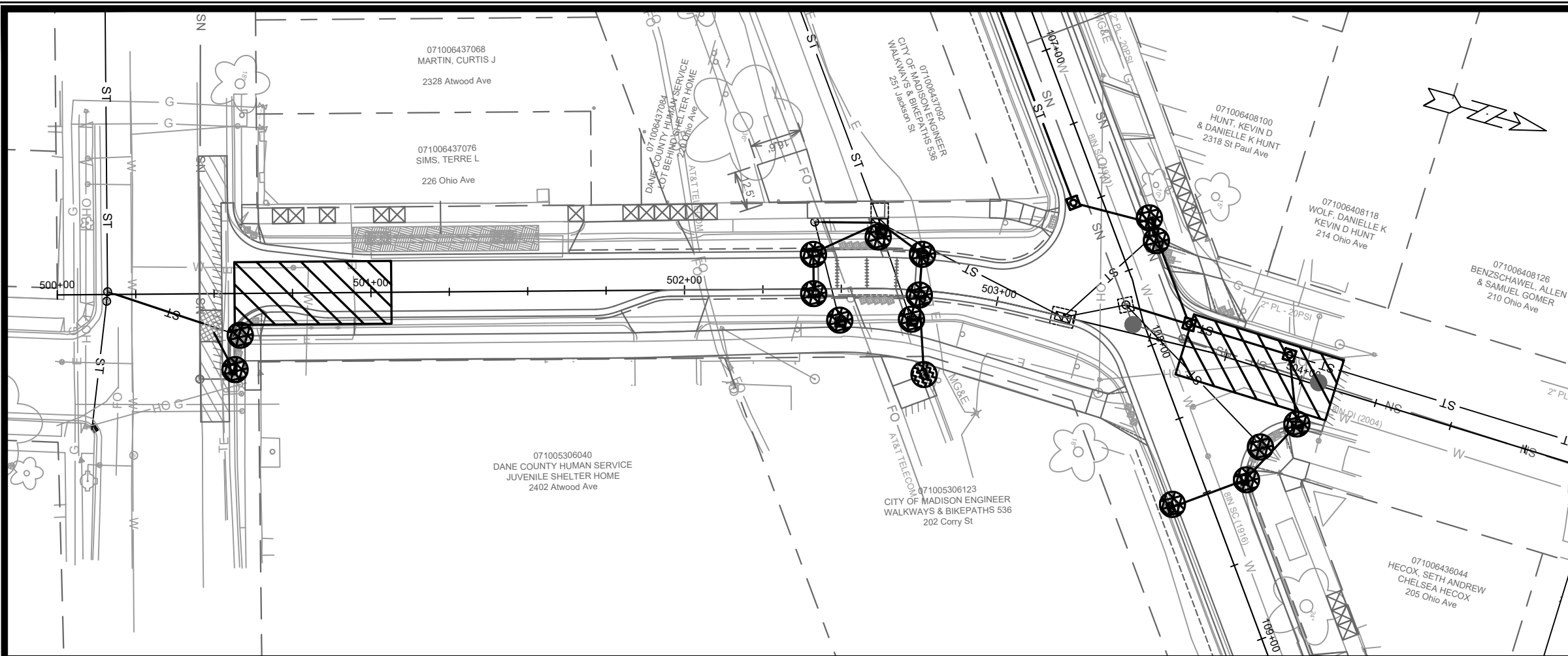
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MARK	REVISION	DATE	BY	
Designed By: AUC	Date: 2/17/2022 12:45 PM	Scale: 1" = 40'		EC-4
12907				
<b>JACKSON ST - EROSION CONTROL PLAN</b>		<b>12907</b>		
ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT		MADISON, WI		
M:\DESIGN\Projects\12907\CAD\sewers\12907SWR-ErosionControl.dwg		CONTRACT NO: 8616		
		12907		
		EC-4		



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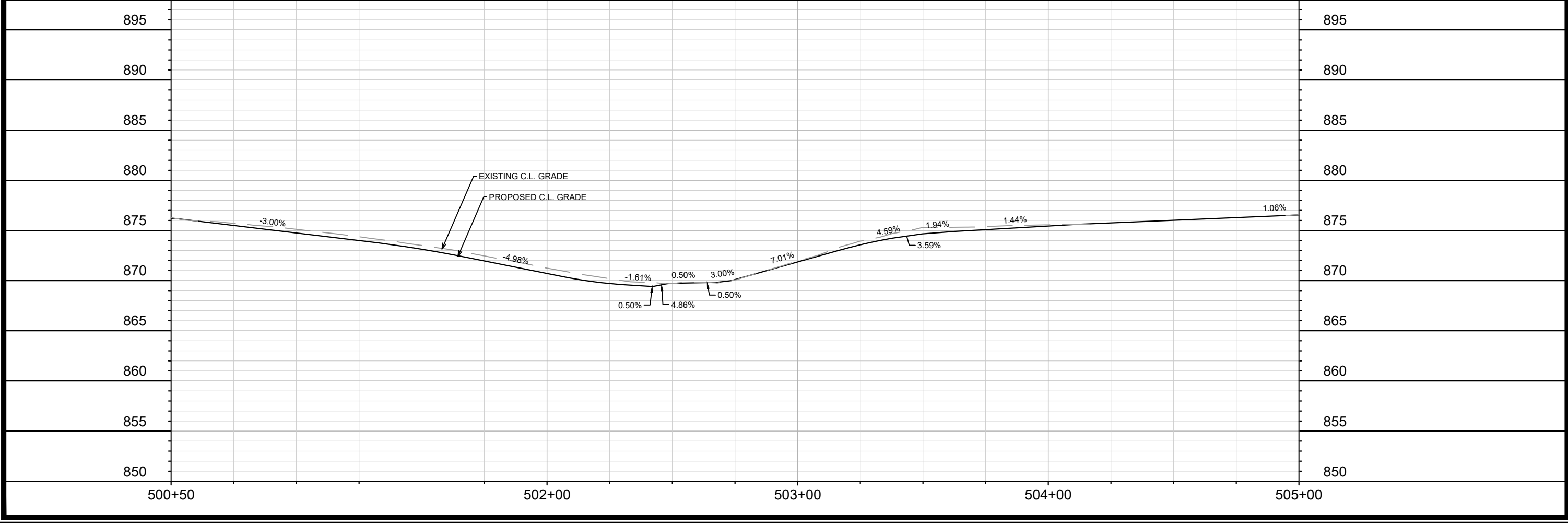
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- STREET CONSTRUCTION ENTRANCE BERM
- CONSTRUCTION ENTRANCE
- RIGID FRAME INLET PROTECTION
- TYPE C INLET PROTECTION
- STREET CONSTRUCTION STONE BERM
- SILT SOCK - 8 INCH



MARK	REVISION	DATE	BY
12907		2/17/2022	12:46 PM

Scale: 1" = 40'

**OHIO AVE - EROSION CONTROL PLAN**

**ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI**

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12907      8616      CONTRACT NO.:

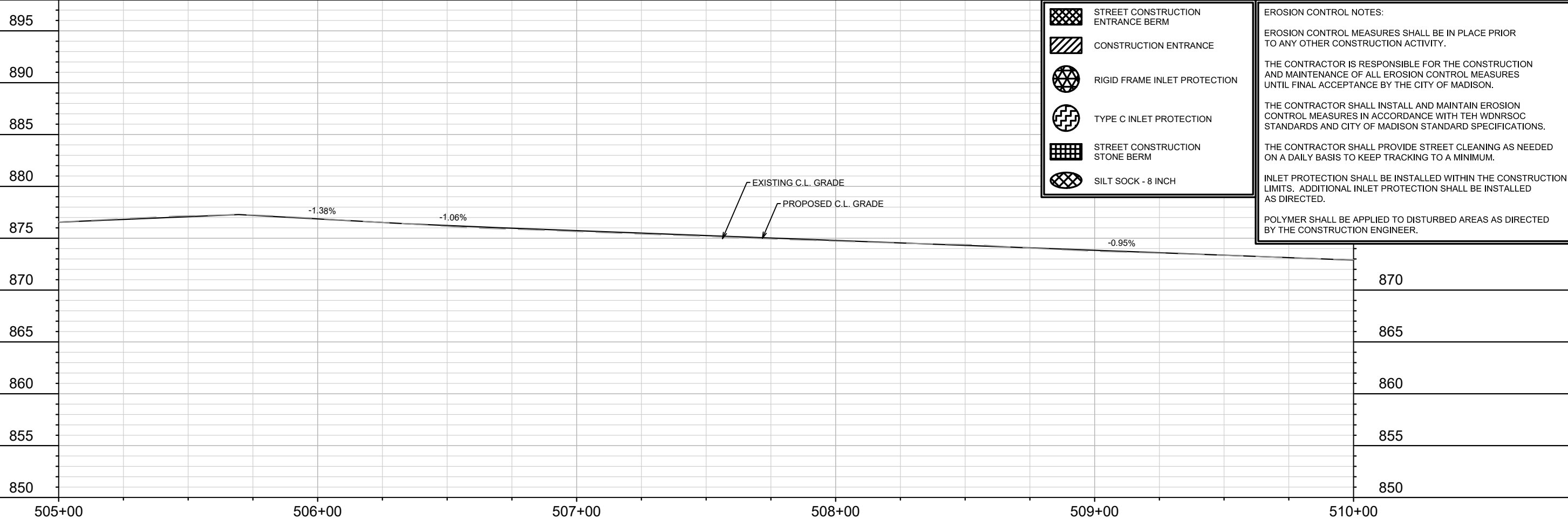
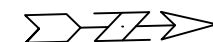
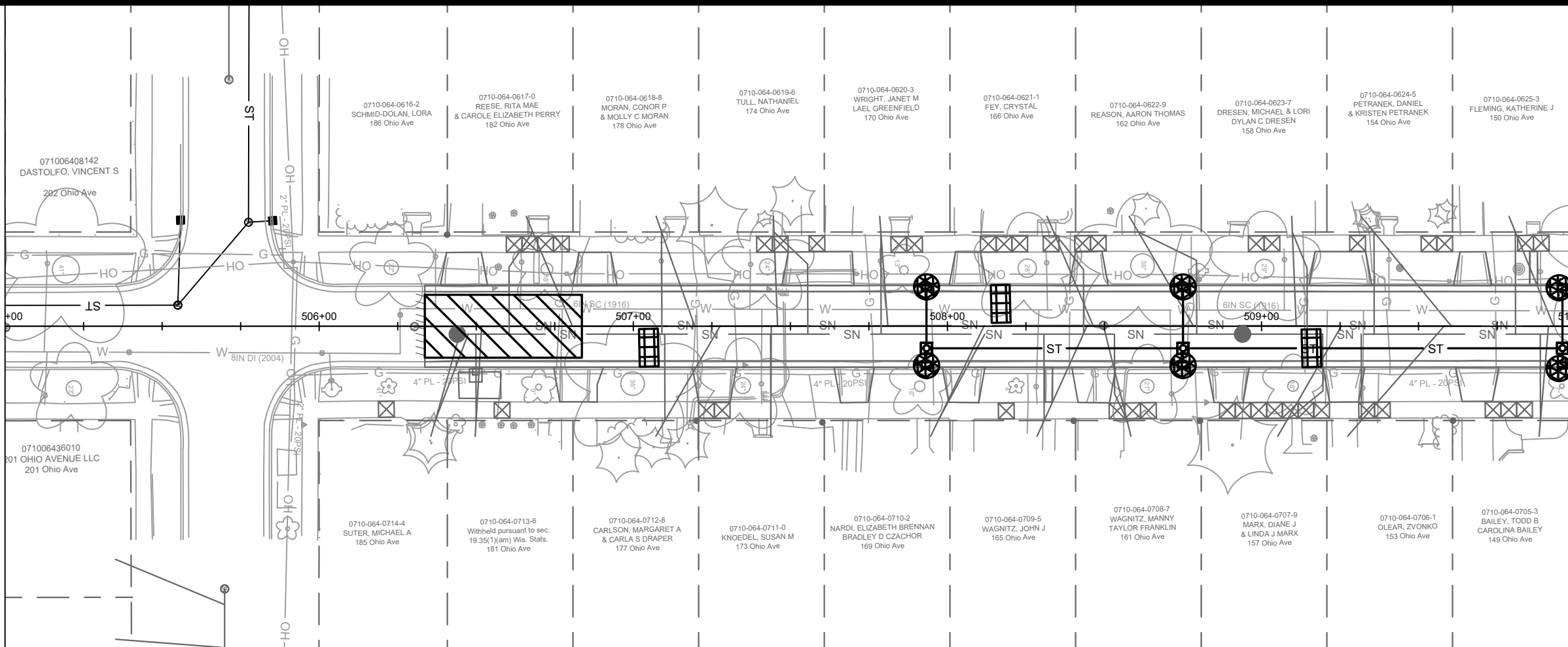
12907      EC-5











MATCH LINE 505+00.00

MATCH LINE 510+00.00



-  STREET CONSTRUCTION ENTRANCE BERM
-  CONSTRUCTION ENTRANCE
-  RIGID FRAME INLET PROTECTION
-  TYPE C INLET PROTECTION
-  STREET CONSTRUCTION STONE BERM
-  SILT SOCK - 8 INCH

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MARK	REVISION	DATE	BY
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Scale: 1" = 40'

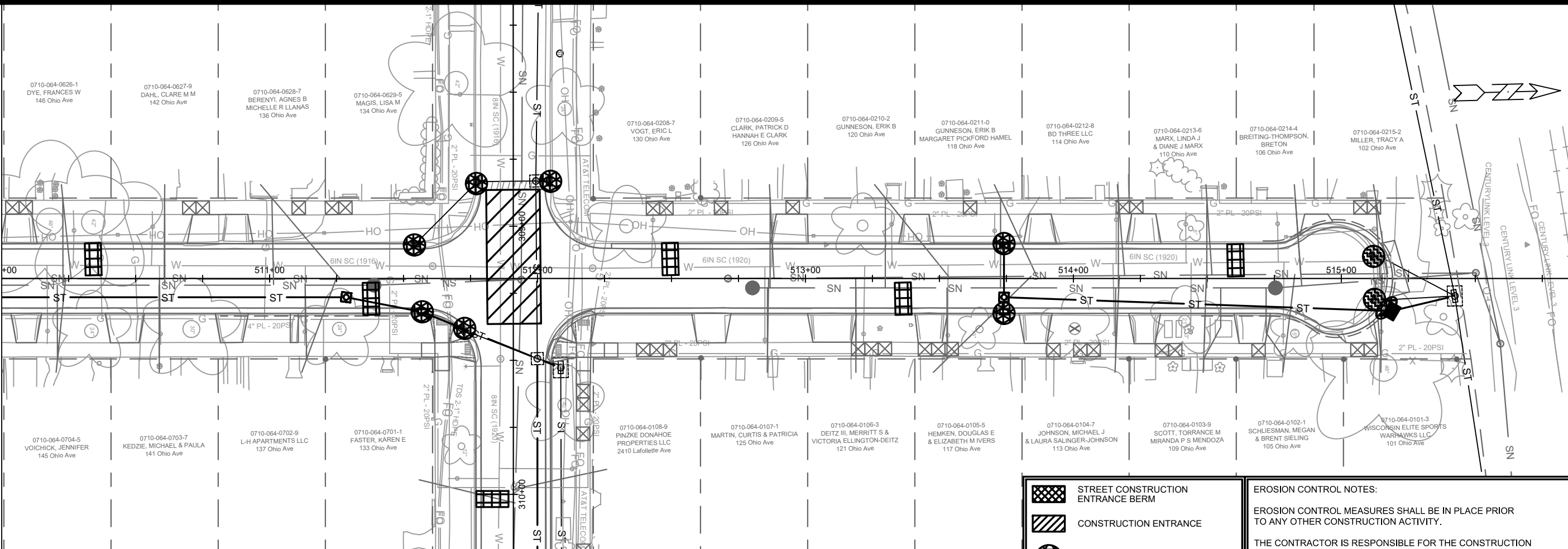
12907  
 MADISON, WI  
 CONTRACT NO.: 8616

OHIO AVE - EROSION CONTROL PLAN  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT



12907  
 EC-6

MATCH LINE 510+00.00



0710-064-0626-1 DYE, FRANCES W 146 Ohio Ave  
 0710-064-0627-9 DAHL, CLARE M M 142 Ohio Ave  
 0710-064-0628-7 BERENYI, AGNES B MICHELLE R LLANAS 136 Ohio Ave  
 0710-064-0629-5 MAGIS, LISA M 134 Ohio Ave  
 0710-064-0208-7 VOGT, ERIC L 130 Ohio Ave  
 0710-064-0209-5 CLARK, PATRICK D HANNAH E CLARK 126 Ohio Ave  
 0710-064-0210-2 GUNNESON, ERIK B 120 Ohio Ave  
 0710-064-0211-0 GUNNESON, ERIK B MARGARET PICKFORD HAMEL 118 Ohio Ave  
 0710-064-0212-8 BO THREE LLC 114 Ohio Ave  
 0710-064-0213-6 MARX, LINDA J & DIANE J MARX 110 Ohio Ave  
 0710-064-0214-4 BREITING-THOMPSON, BRETON 106 Ohio Ave  
 0710-064-0215-2 MILLER, TRACY A 102 Ohio Ave  
 0710-064-0704-5 VOICHICK, JENNIFER 145 Ohio Ave  
 0710-064-0703-7 KEDZIE, MICHAEL & PAULA 141 Ohio Ave  
 0710-064-0702-9 L-H APARTMENTS LLC 137 Ohio Ave  
 0710-064-0701-1 FASTER, KAREN E 133 Ohio Ave  
 0710-064-0108-9 PINZKE DONAHOE PROPERTIES LLC 2410 Lafollette Ave  
 0710-064-0107-1 MARTIN, CURTIS & PATRICIA 125 Ohio Ave  
 0710-064-0106-3 DEITZ III, MERRITT S & VICTORIA ELLINGTON-DEITZ 121 Ohio Ave  
 0710-064-0105-5 HEMKEN, DOUGLAS E & ELIZABETH M IVERS 117 Ohio Ave  
 0710-064-0104-7 JOHNSON, MICHAEL J & LAURA SALINGER-JOHNSON 113 Ohio Ave  
 0710-064-0103-9 SCOTT, TORRANCE M MIRANDA P S MENDOZA 109 Ohio Ave  
 0710-064-0102-1 SCHLESMAN, MEGAN & BRENT SIELING 105 Ohio Ave  
 0710-064-0101-3 WISCONSIN ELITE SPORTS WARHAWKS LLC 101 Ohio Ave

- STREET CONSTRUCTION ENTRANCE BERM
- CONSTRUCTION ENTRANCE
- RIGID FRAME INLET PROTECTION
- TYPE C INLET PROTECTION
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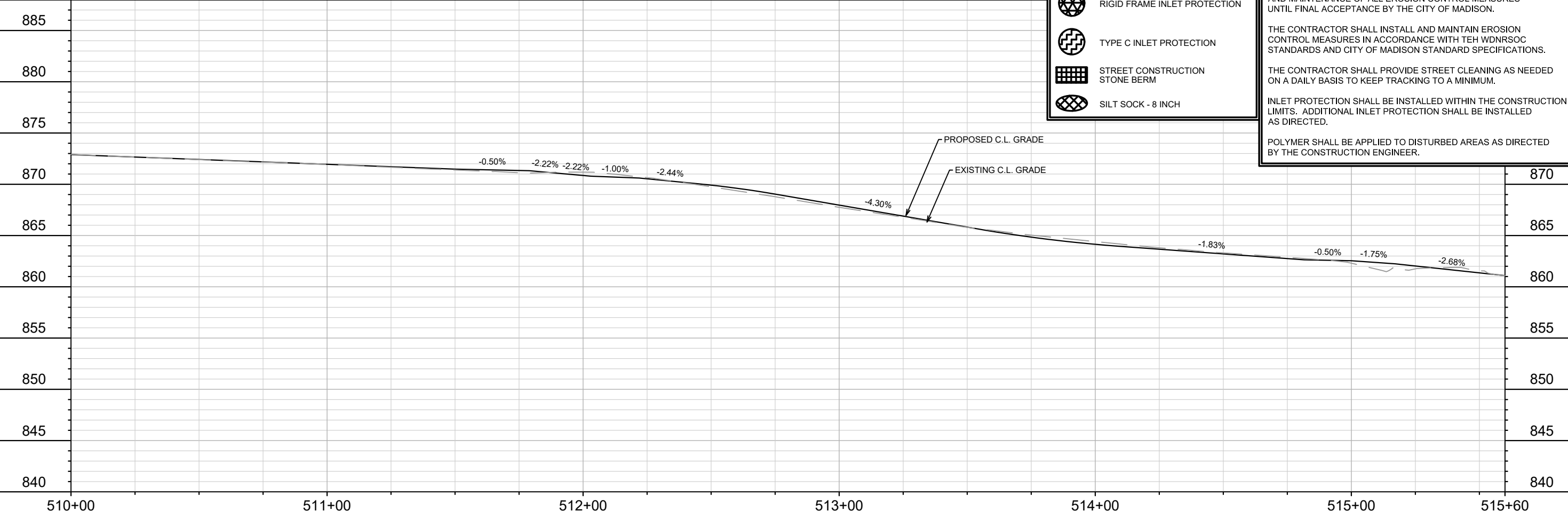
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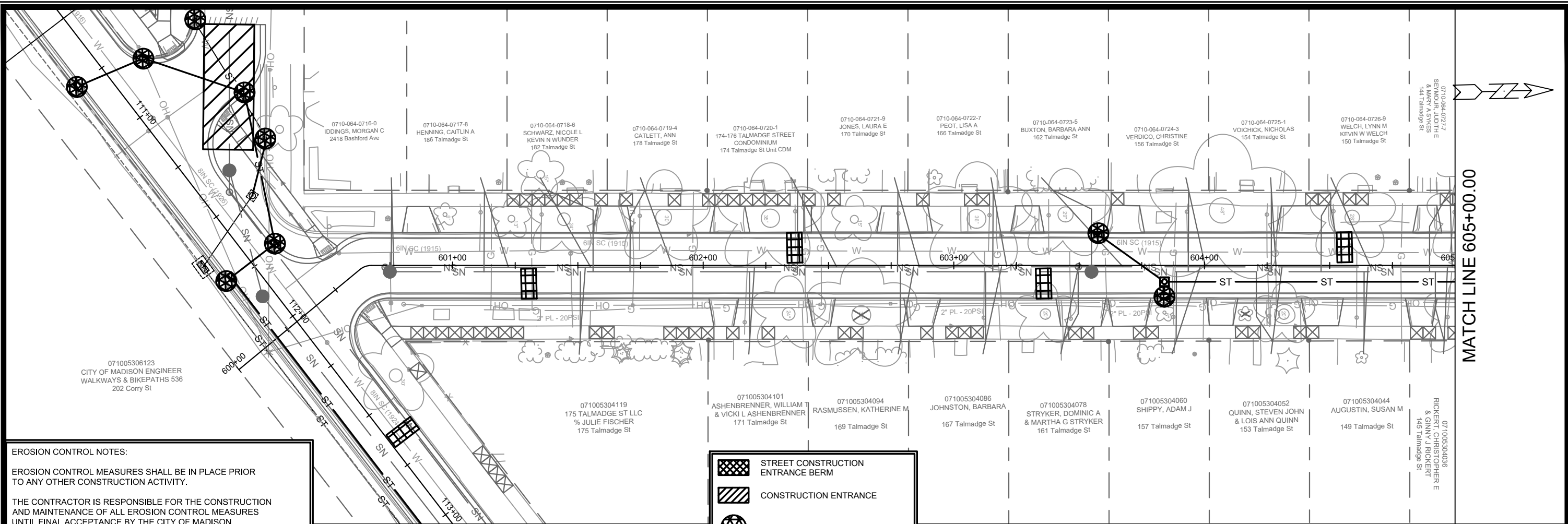
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12907	MADISON, WI	8616	CONTRACT NO:
OHIO AVE - EROSION CONTROL PLAN			
ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT			
M:\DESIGN\Projects\12907\CAD\Drawings\12907SWR-ErosionControl.dwg			
12907			
EC-7			



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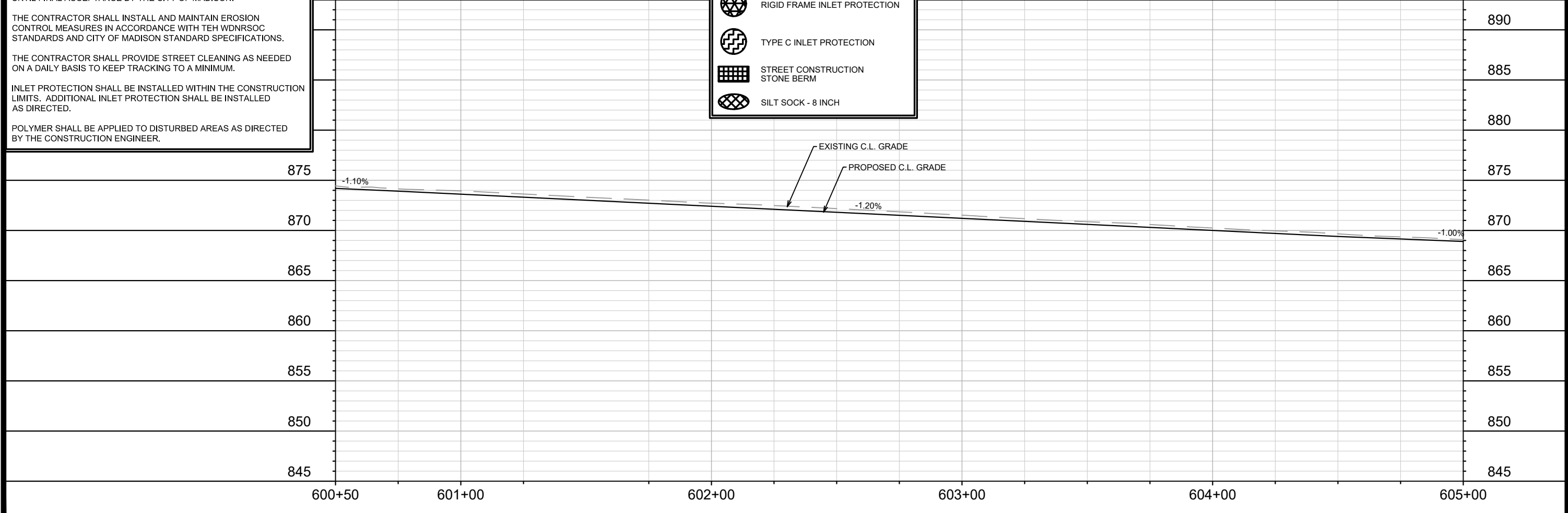
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	STREET CONSTRUCTION ENTRANCE BERM
	CONSTRUCTION ENTRANCE
	RIGID FRAME INLET PROTECTION
	TYPE C INLET PROTECTION
	STREET CONSTRUCTION STONE BERM
	SILT SOCK - 8 INCH



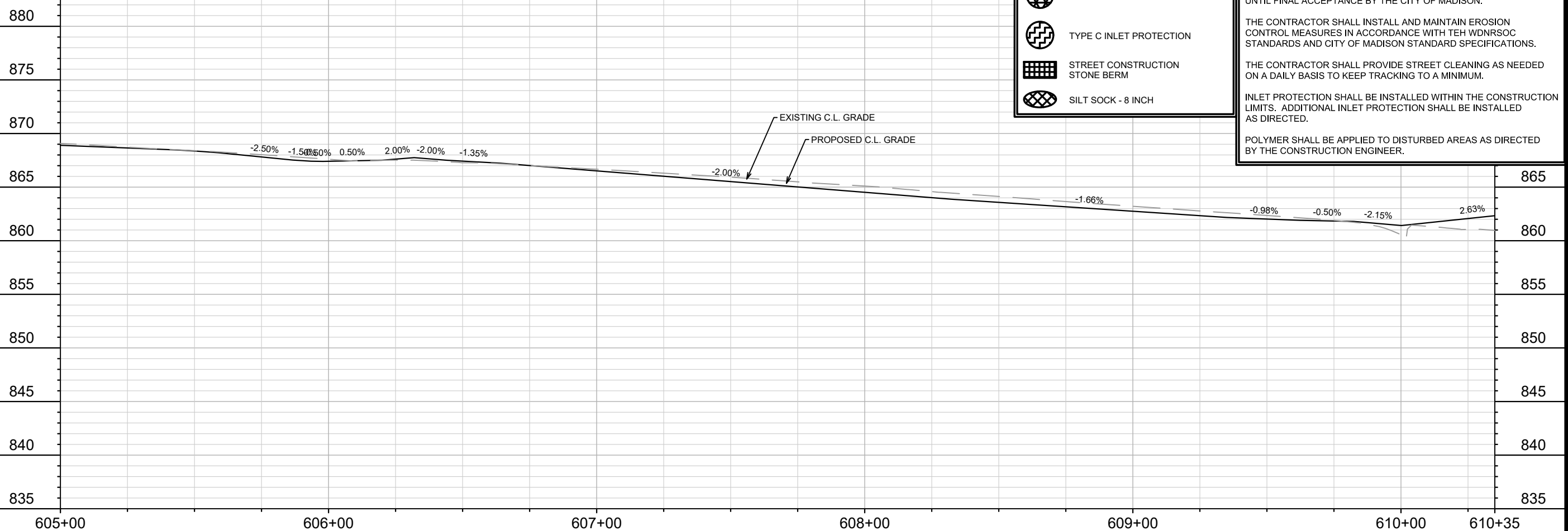
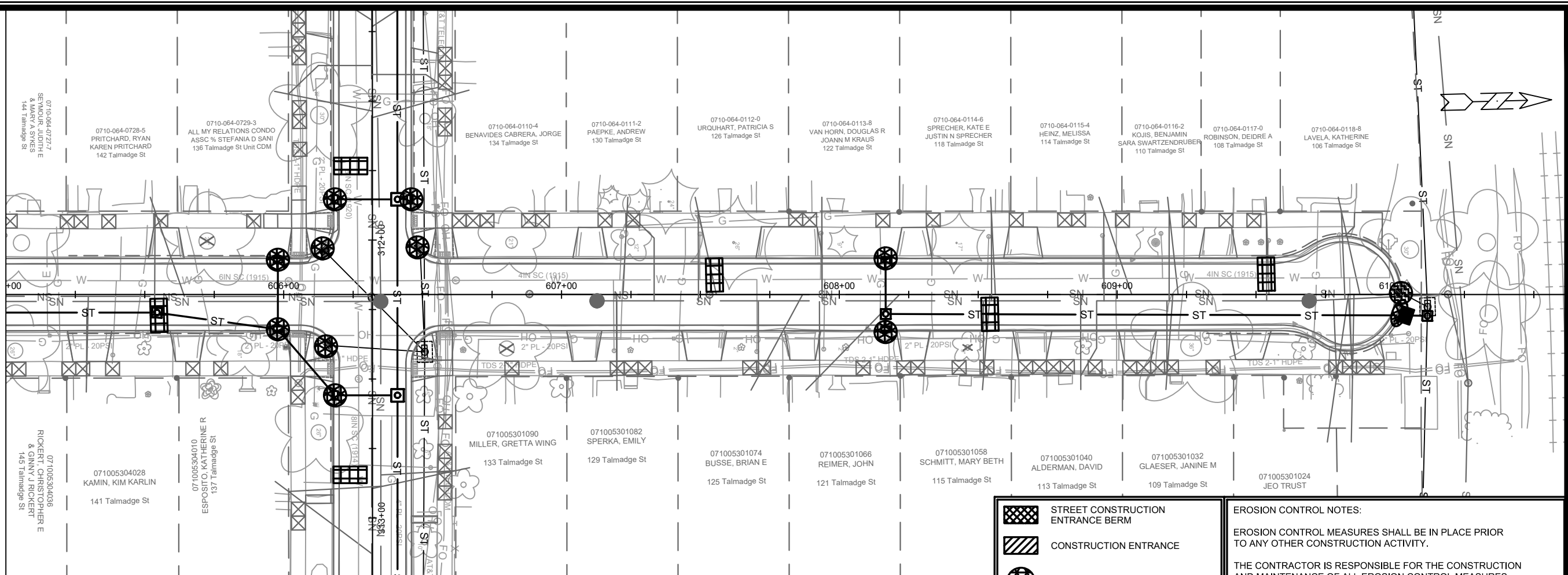
MATCH LINE 605+00.00







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Designed By: AJC		Date: 2/17/2022	12:46 PM
Scale: 1" = 40'			
CONTRACT NO: 8616		EC-8	

12907  
 TALMADGE ST - EROSION CONTROL PLAN  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
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12907  
 EC-8

MATCH LINE 605+00.00



-  STREET CONSTRUCTION ENTRANCE BERM
-  CONSTRUCTION ENTRANCE
-  RIGID FRAME INLET PROTECTION
-  TYPE C INLET PROTECTION
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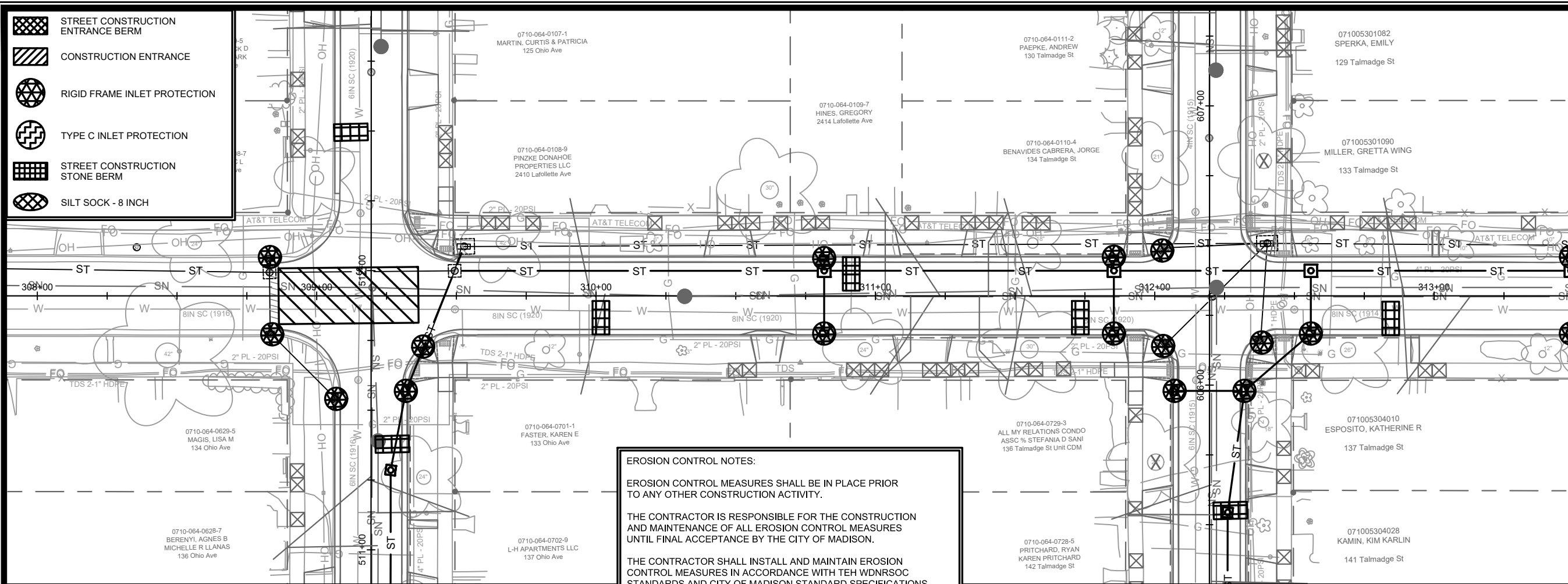
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12907	MADISON, WI	8616	CONTRACT NO:
TALMADGE ST - EROSION CONTROL PLAN			
ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT			
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12907			
EC-9			

-  STREET CONSTRUCTION ENTRANCE BERM
-  CONSTRUCTION ENTRANCE
-  RIGID FRAME INLET PROTECTION
-  TYPE C INLET PROTECTION
-  STREET CONSTRUCTION STONE BERM
-  SILT SOCK - 8 INCH



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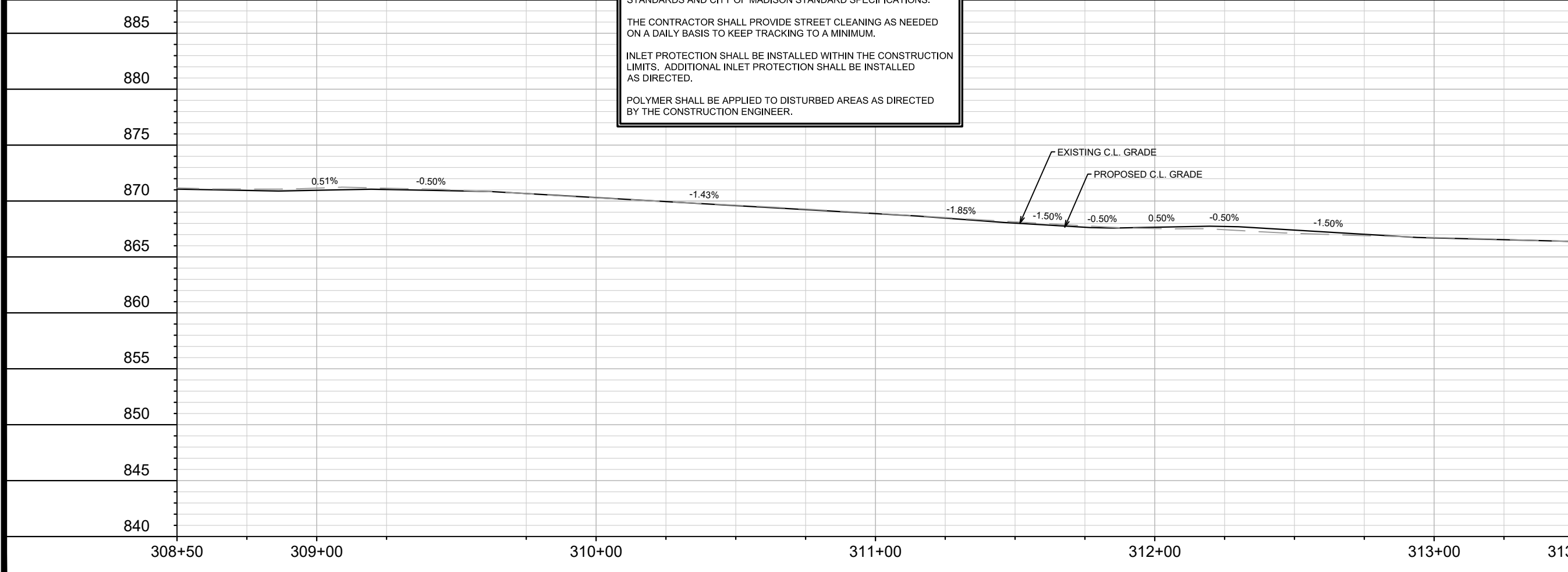
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MATCH LINE 313+50.00



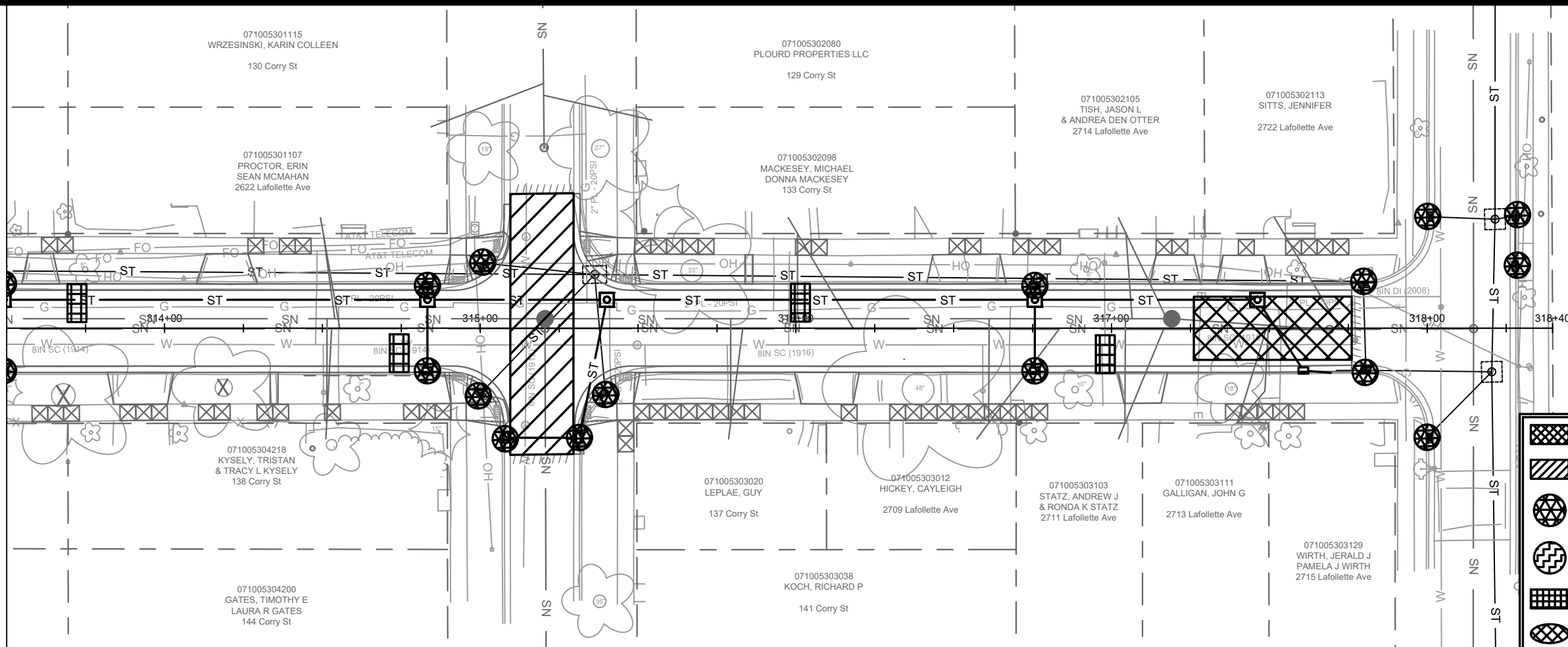
12907	EROSION CONTROL PLAN	12907	MADISON, WI	BY
LAFOLLETTE AVE - EROSION CONTROL PLAN		ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT		DATE
ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT		MADISON, WI		REVISION
CONTRACT NO: 8616		12907		Date: 2/17/2022 12:46 PM
Scale: 1" = 40'		12907		EC-10



12907

EC-10

MATCH LINE 313+50.00



- STREET CONSTRUCTION ENTRANCE BERM
- CONSTRUCTION ENTRANCE
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- SILT SOCK - 8 INCH

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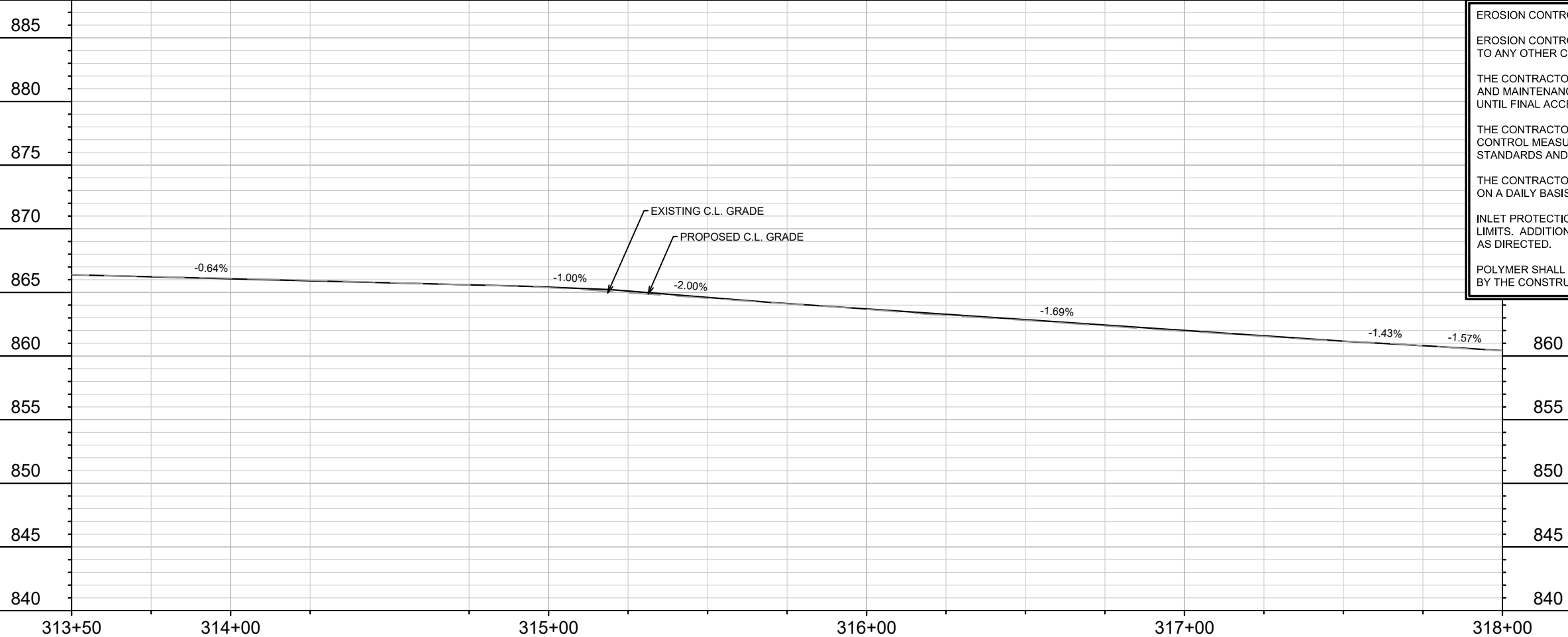
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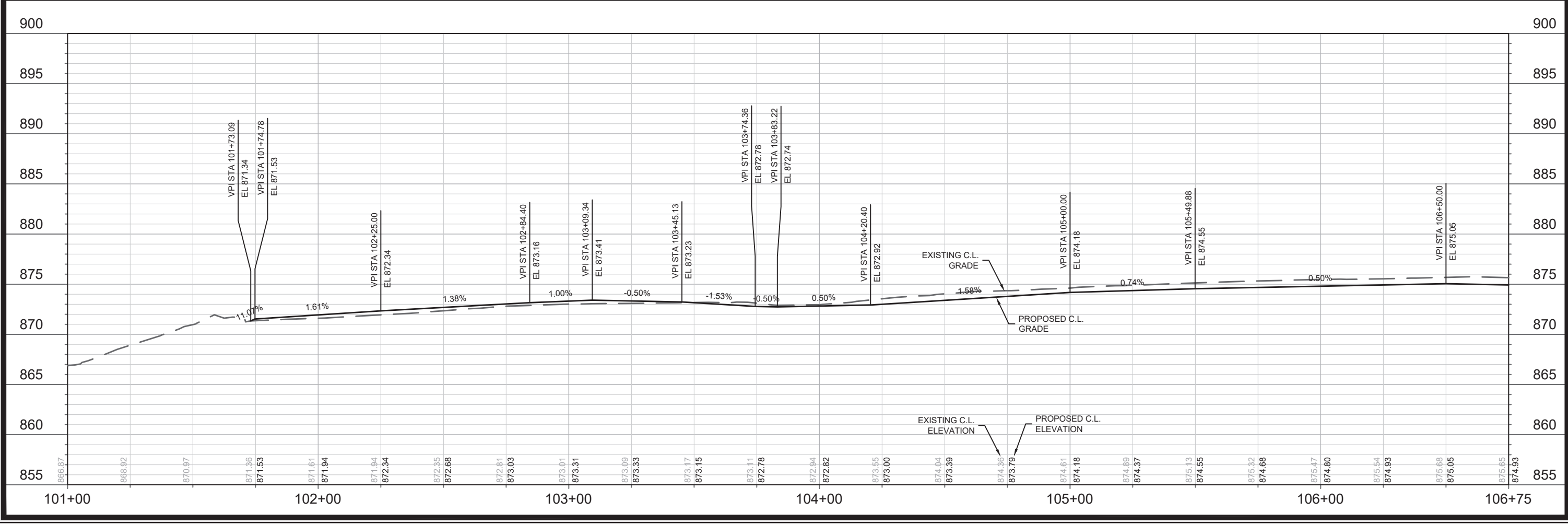
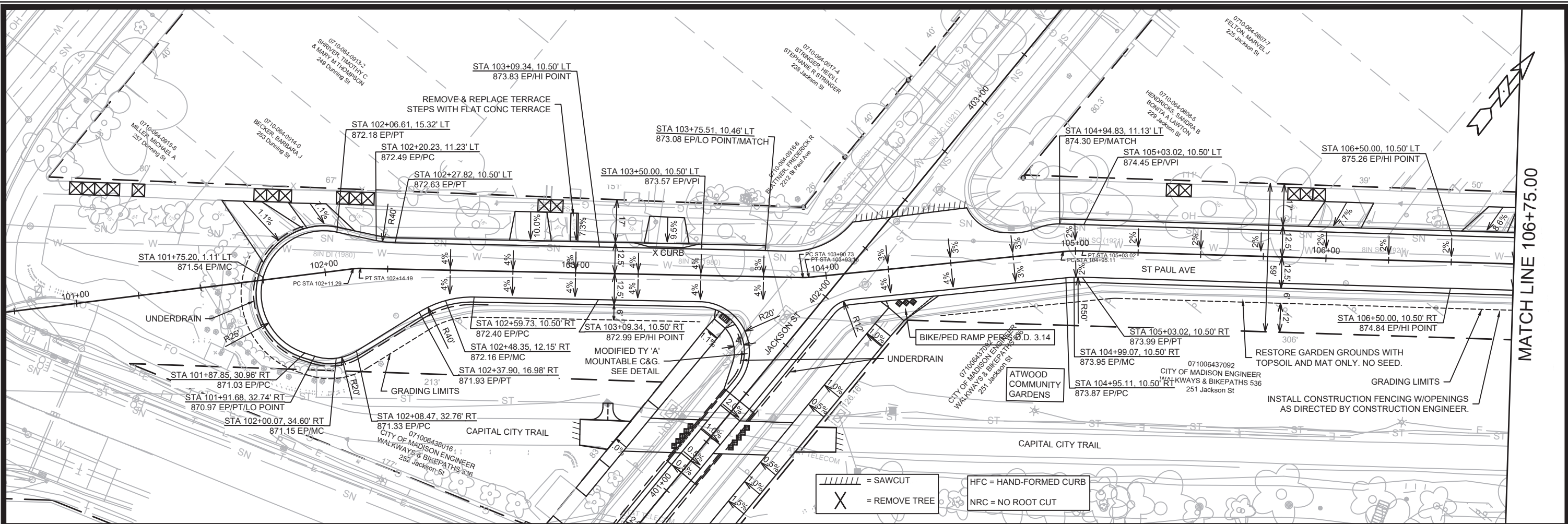


MARK	REVISION	DATE	BY
12907	EC-11	2/24/2022	12:47 PM

12907  
 MADISON, WI  
 JACKSON AND LAFOLLETTE RECONSTRUCT  
 CONTRACT NO.: 8616



12907  
 EC-11



DATE	BY
REVISION	DATE
MARK	DATE
DESIGNED BY: AUC	DATE: 2/14/2022 10:40 AM
12907	Scale: 1" = 40'
P-1	

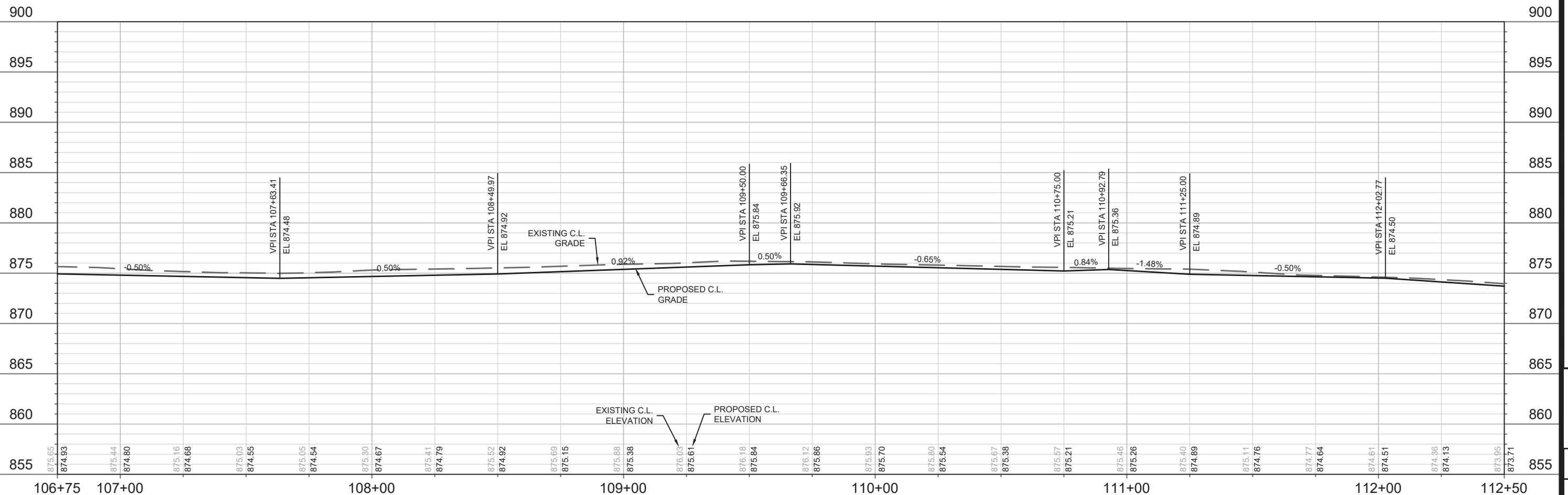
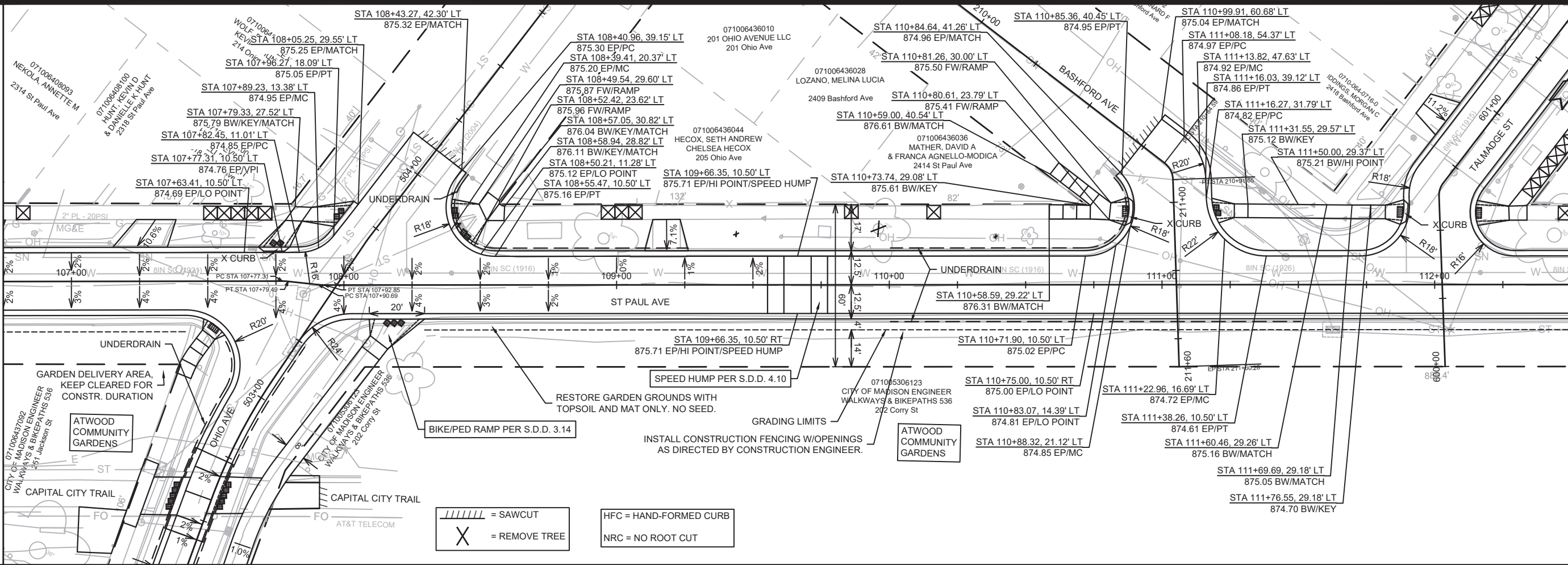
12907  
 MADISON, WI  
 CONTRACT NO: 8616

ST PAUL AVE - PLAN & PROFILE  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
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12907  
 P-1

MATCH LINE 106+75.00

MATCH LINE 112+50.00



12907  
 ST PAUL AVE - PLAN & PROFILE  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
 MADISON, WI  
 CONTRACT NO: 8616  
 P-2

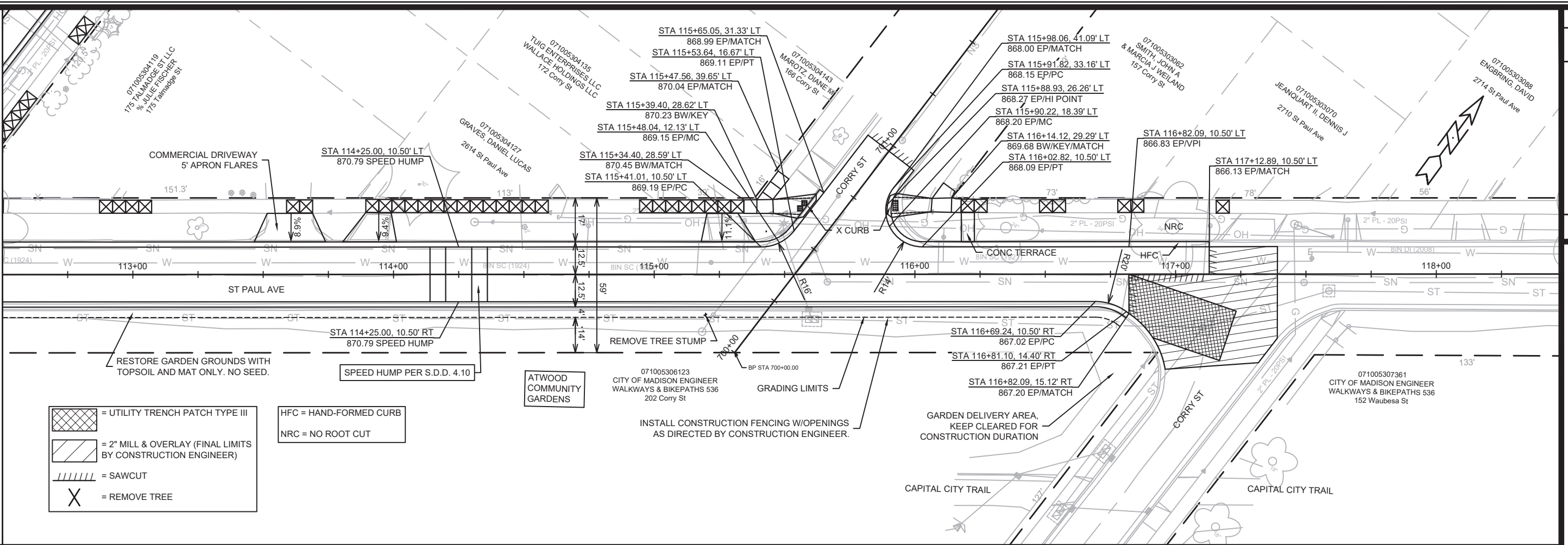
City of Madison Wisconsin logo

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12907  
 P-2



MATCH LINE 112+50.00



- = UTILITY TRENCH PATCH TYPE III
- = 2" MILL & OVERLAY (FINAL LIMITS BY CONSTRUCTION ENGINEER)
- = SAWCUT
- = REMOVE TREE

HFC = HAND-FORMED CURB  
NRC = NO ROOT CUT

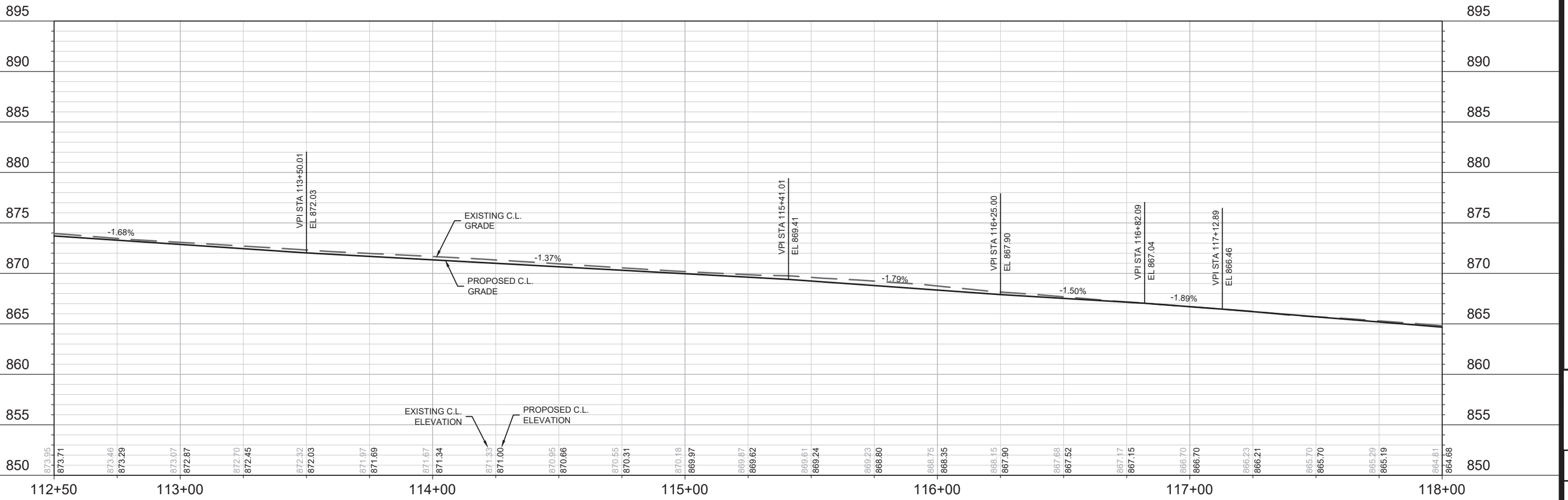
ATWOOD COMMUNITY GARDENS

071005306123  
CITY OF MADISON ENGINEER  
WALKWAYS & BIKEPATHS 536  
202 Corry St

INSTALL CONSTRUCTION FENCING W/OPENINGS AS DIRECTED BY CONSTRUCTION ENGINEER.

GARDEN DELIVERY AREA, KEEP CLEARED FOR CONSTRUCTION DURATION

071005307361  
CITY OF MADISON ENGINEER  
WALKWAYS & BIKEPATHS 536  
152 Waubesa St

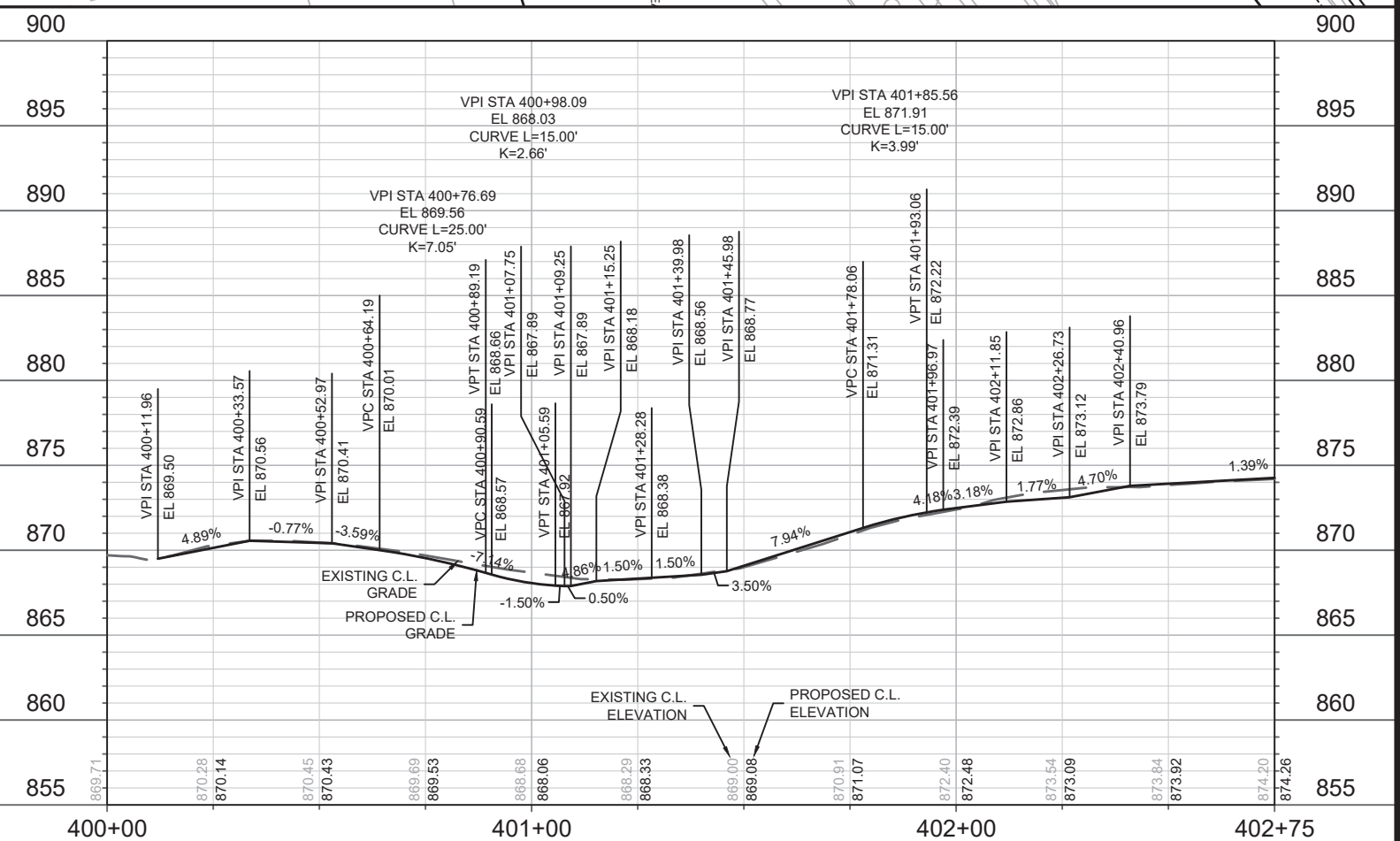
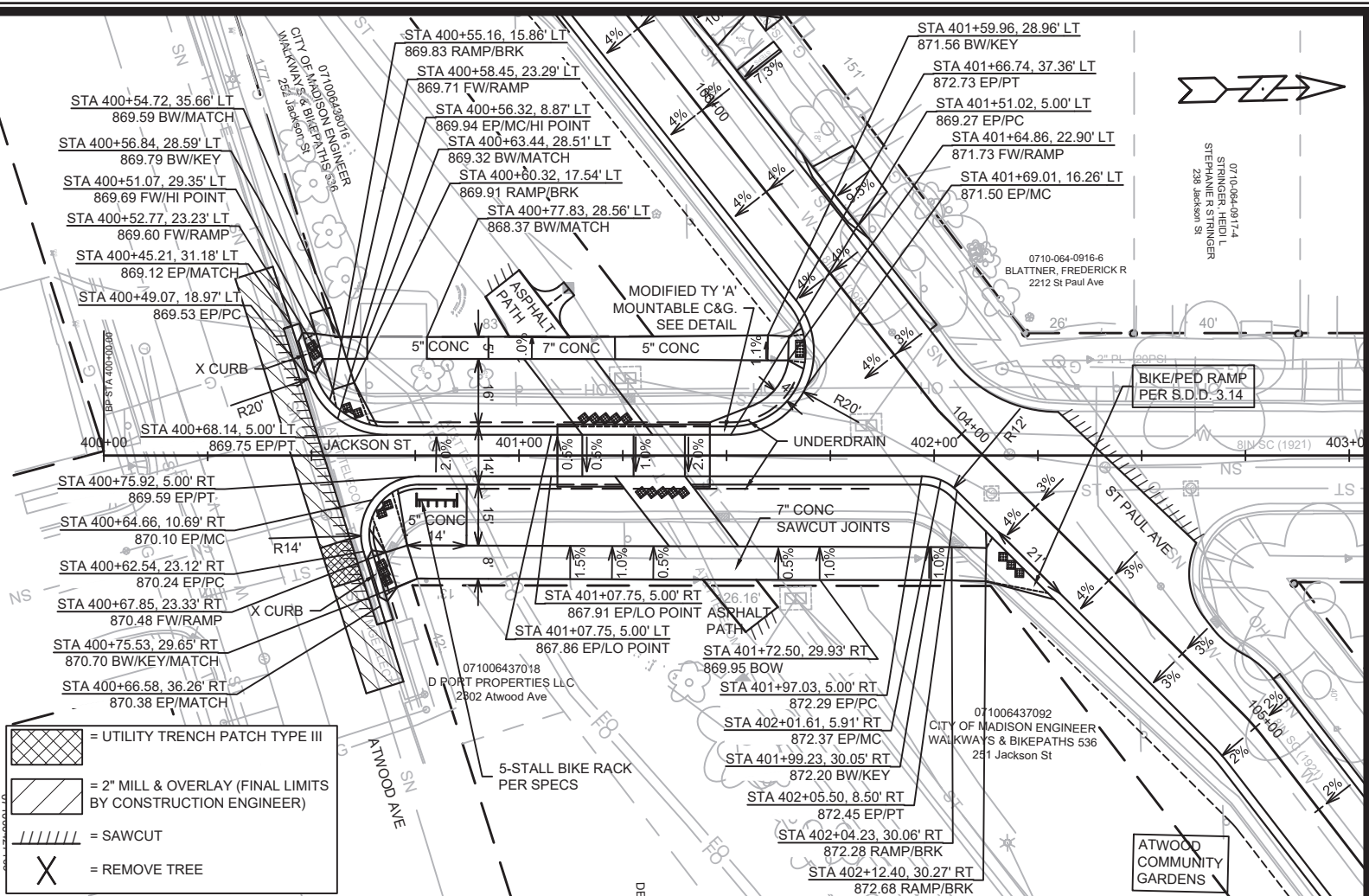
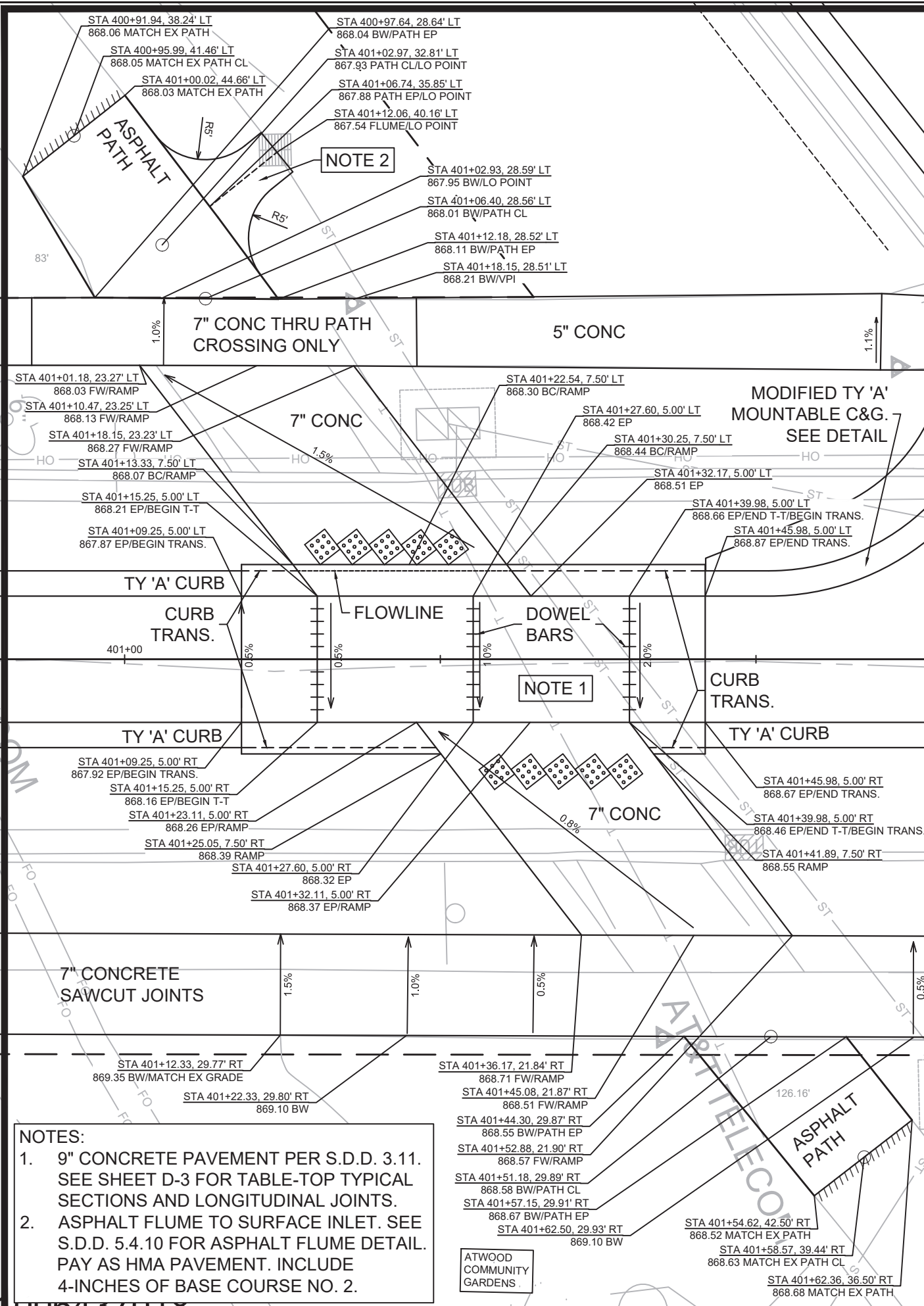


DATE	BY
2/14/2022	12907
REVISION	
MARK	
DESIGNED BY: AUC	DATE: 2/14/2022 10:40 AM
SCALE: 1" = 40'	P-3

12907  
ST PAUL AVE - PLAN & PROFILE  
ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
CONTRACT NO: 8616  
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12907  
P-3



**NOTES:**

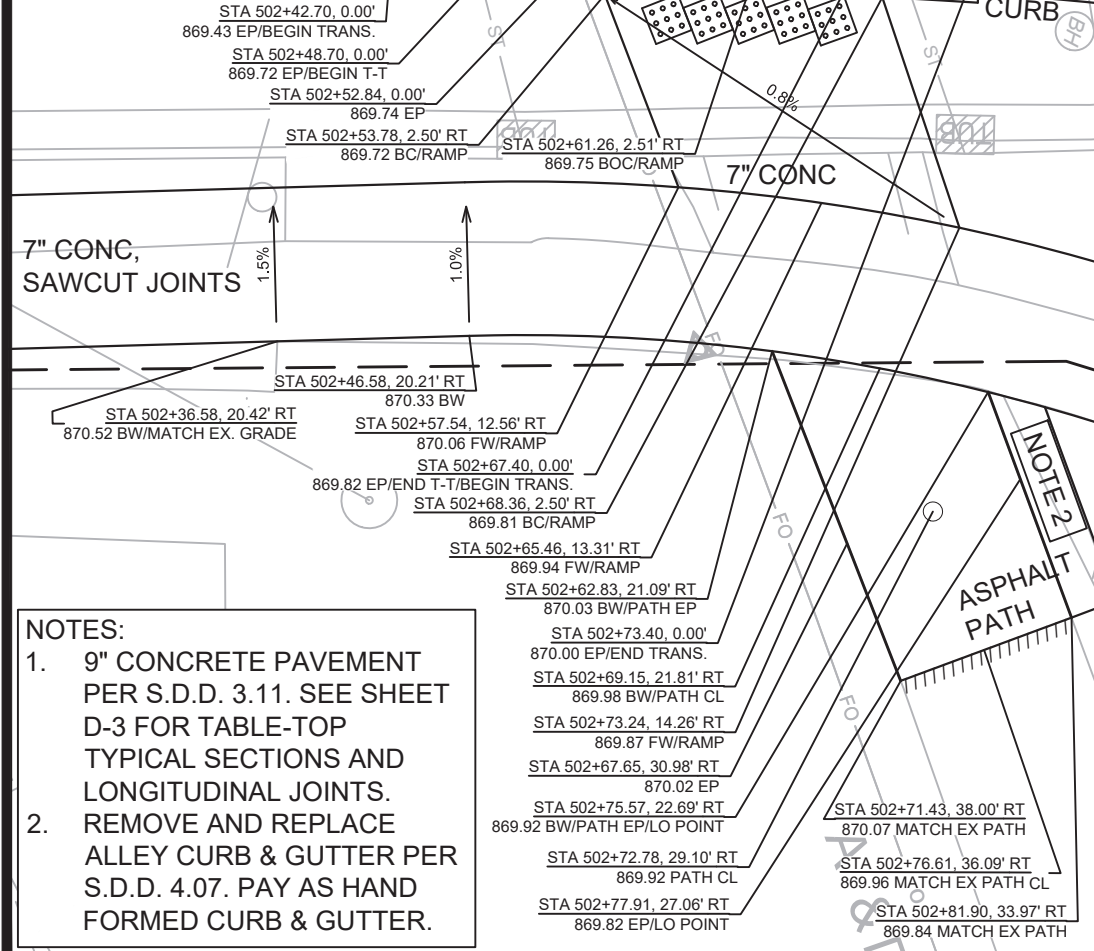
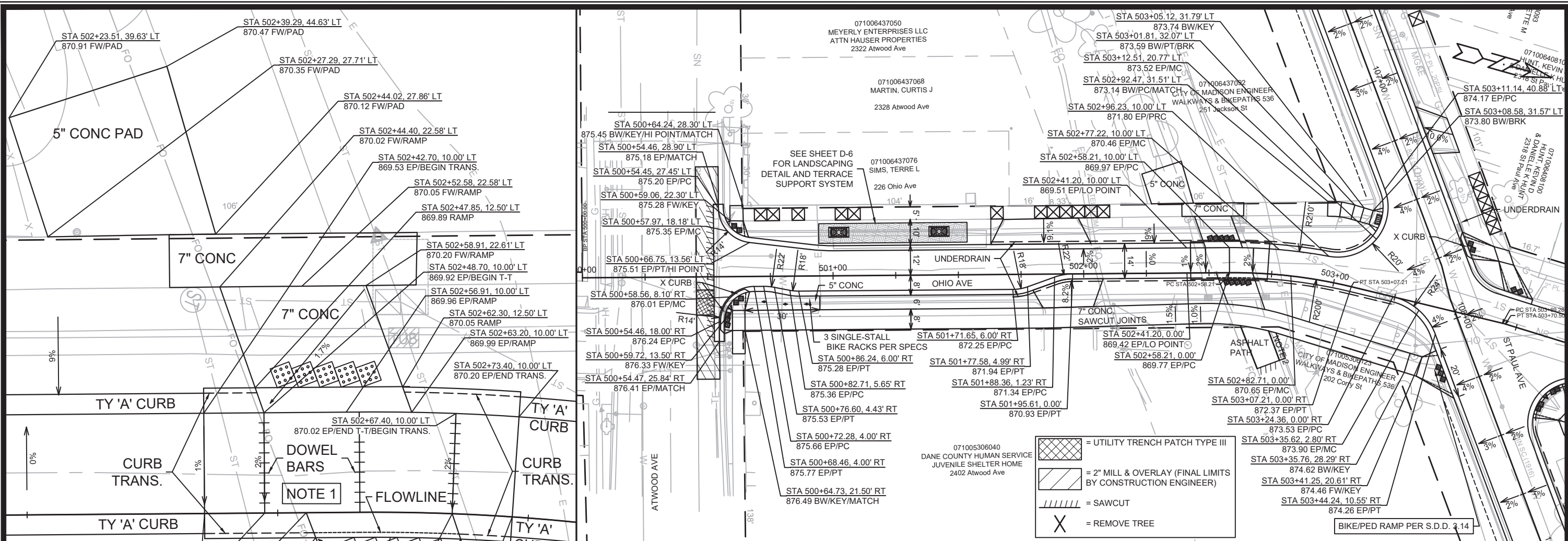
- 9" CONCRETE PAVEMENT PER S.D.D. 3.11. SEE SHEET D-3 FOR TABLE-TOP TYPICAL SECTIONS AND LONGITUDINAL JOINTS.
- ASPHALT FLUME TO SURFACE INLET. SEE S.D.D. 5.4.10 FOR ASPHALT FLUME DETAIL. PAY AS HMA PAVEMENT. INCLUDE 4-INCHES OF BASE COURSE NO. 2.

- = UTILITY TRENCH PATCH TYPE III
- = 2" MILL & OVERLAY (FINAL LIMITS BY CONSTRUCTION ENGINEER)
- = SAWCUT
- = REMOVE TREE

12907  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
 MADISON, WI  
 CONTRACT NO.: 8616  
 P-4

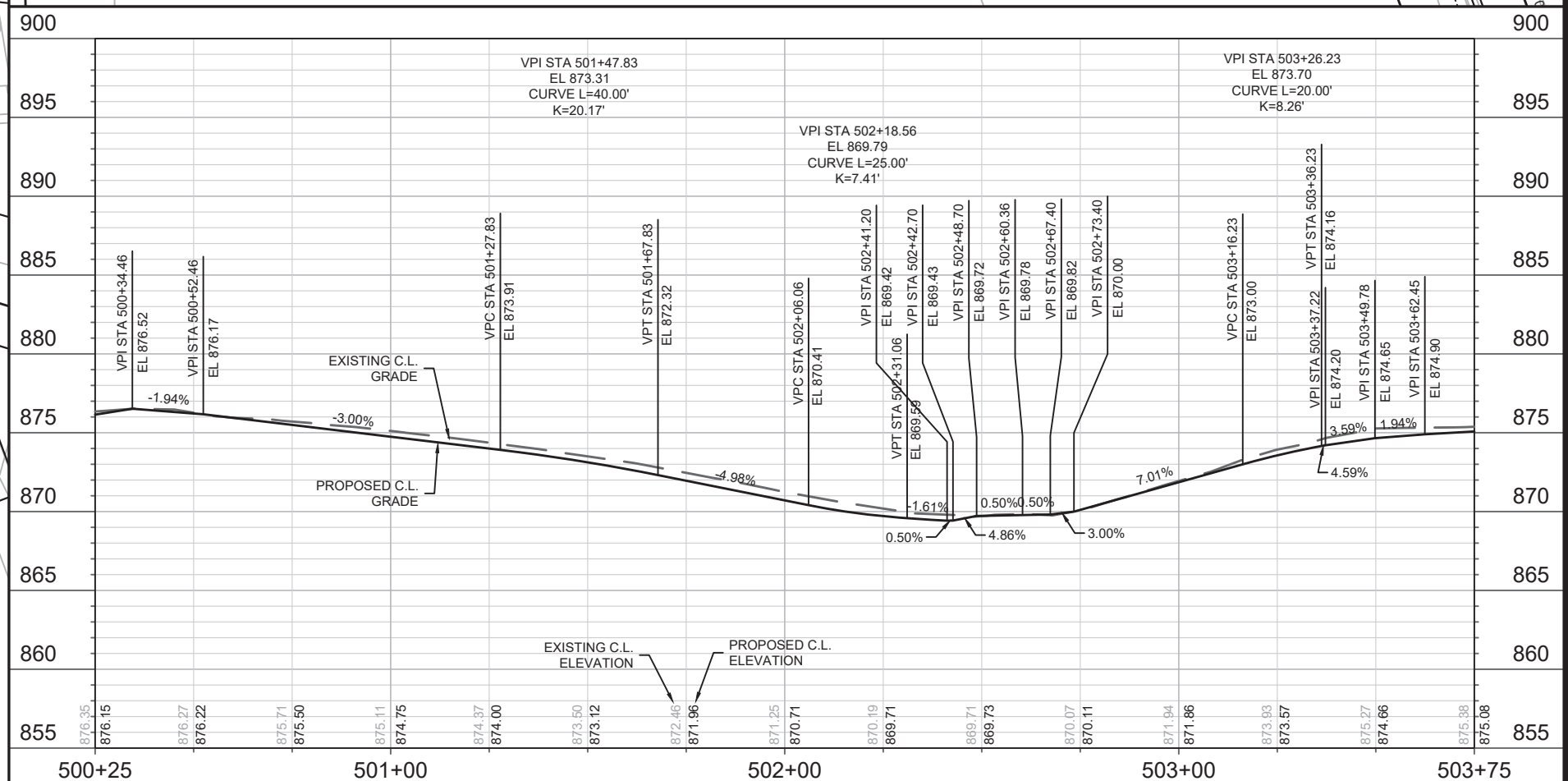
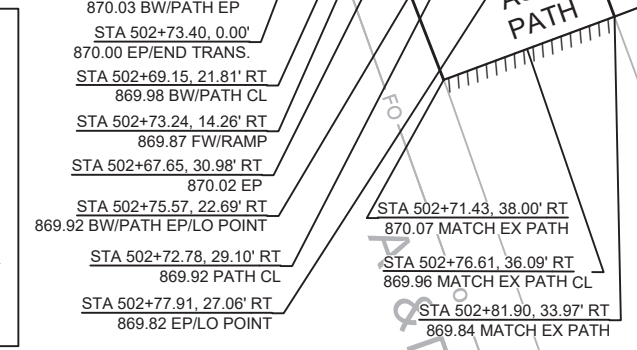
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 12907



**NOTES:**

- 9" CONCRETE PAVEMENT PER S.D.D. 3.11. SEE SHEET D-3 FOR TABLE-TOP TYPICAL SECTIONS AND LONGITUDINAL JOINTS.
- REMOVE AND REPLACE ALLEY CURB & GUTTER PER S.D.D. 4.07. PAY AS HAND FORMED CURB & GUTTER.

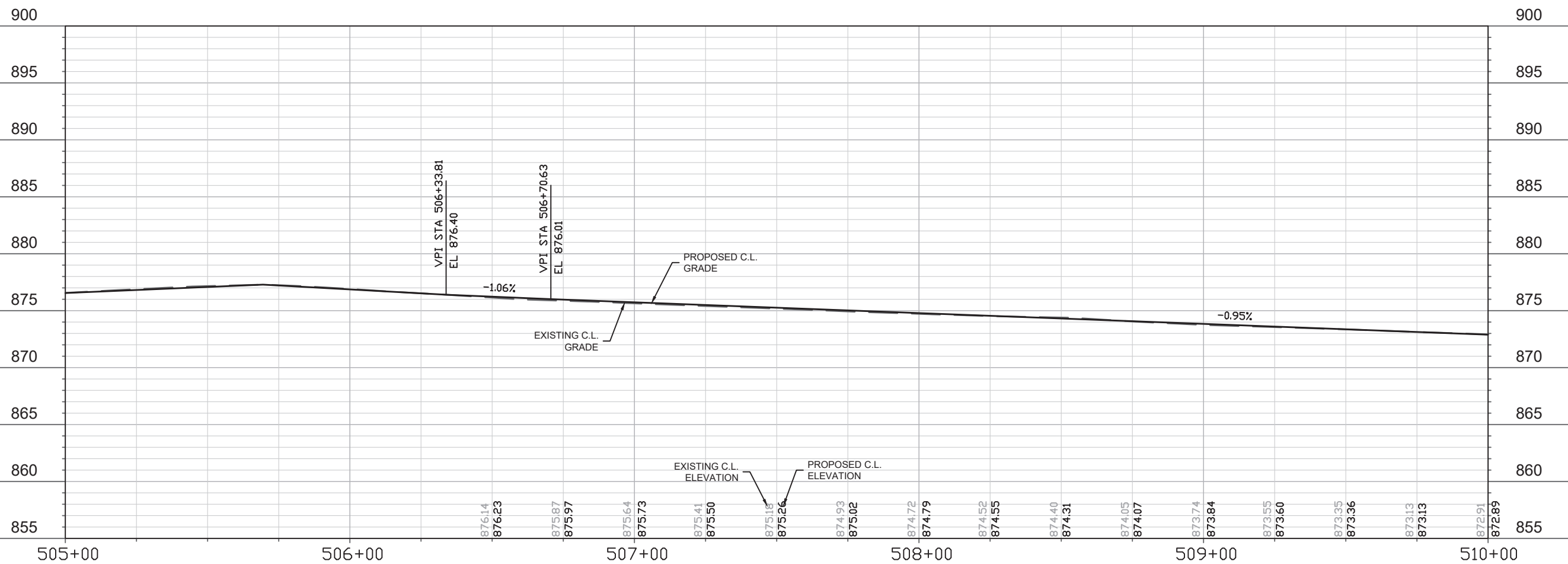
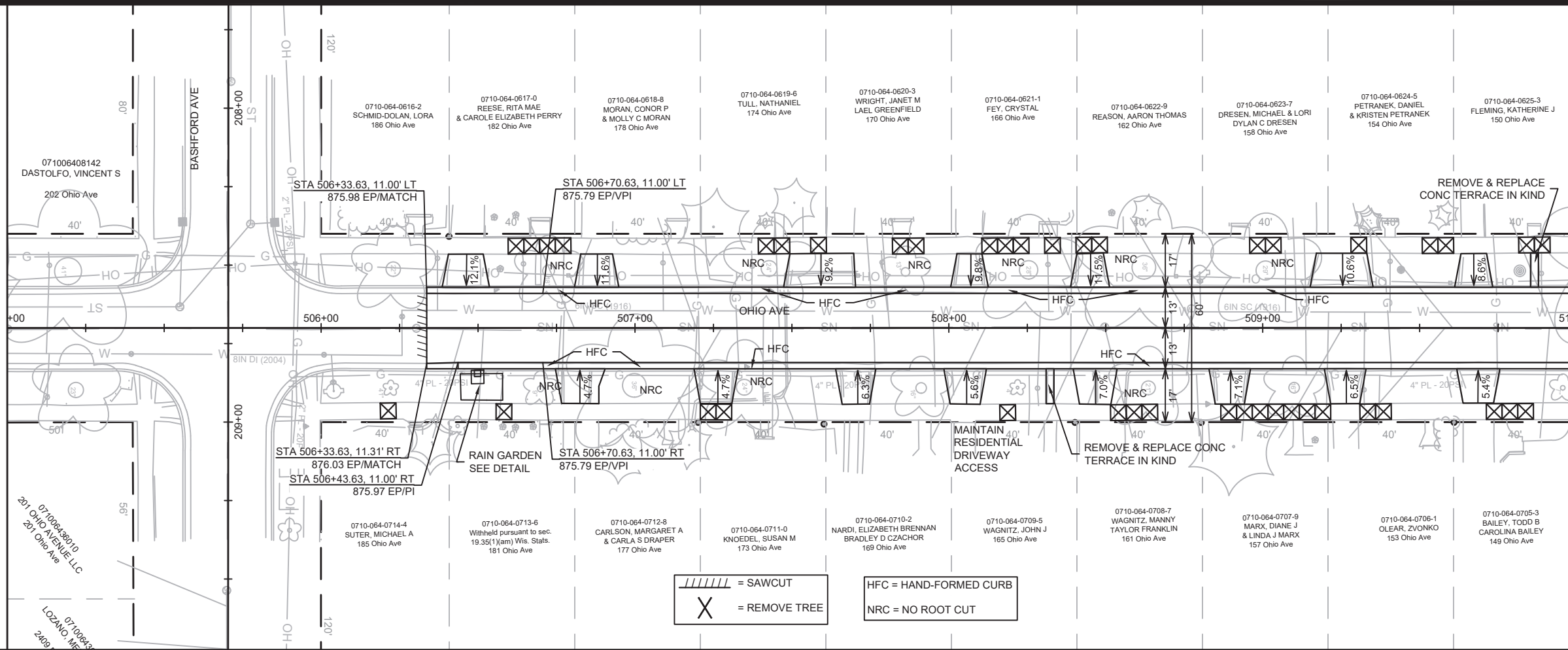


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REVISION	DATE	12907
MARK	DATE	12907

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 OHIO AVE - PLAN & PROFILE  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
 MADISON, WI  
 CONTRACT NO.: 8616  
 CITY OF MADISON WISCONSIN  
 12907  
 P-5

MATCH LINE 505+00.00

MATCH LINE 510+00.00



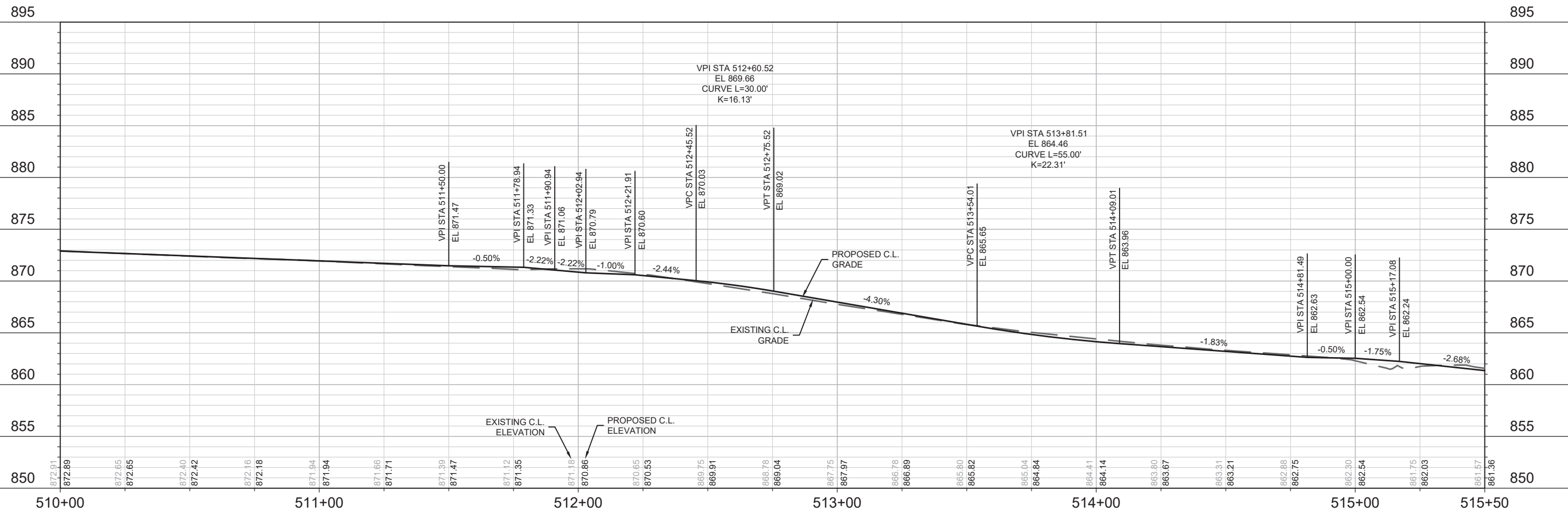
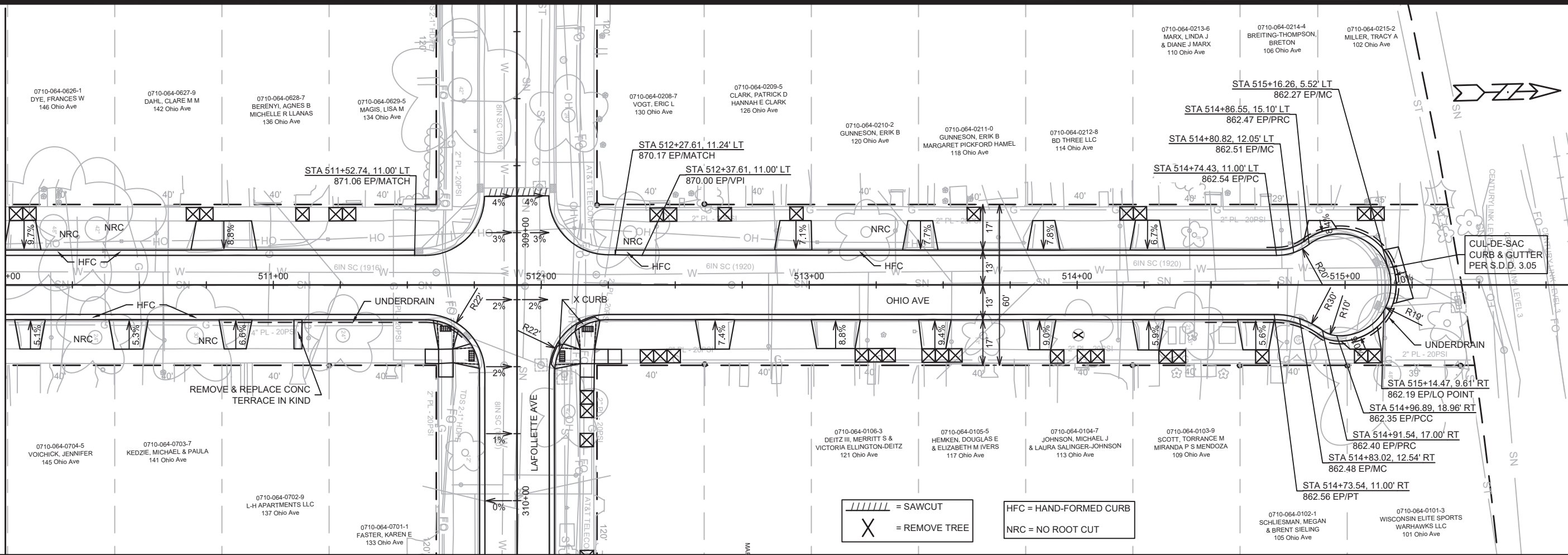
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 OHIO AVE - PLAN & PROFILE  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
 CONTRACT NO.: 8616  
 P-6

MARK	REVISION	DATE	BY

Designed By: AUC Date: 2/14/2022 10:41 AM Scale: 1" = 40'  
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 P-6

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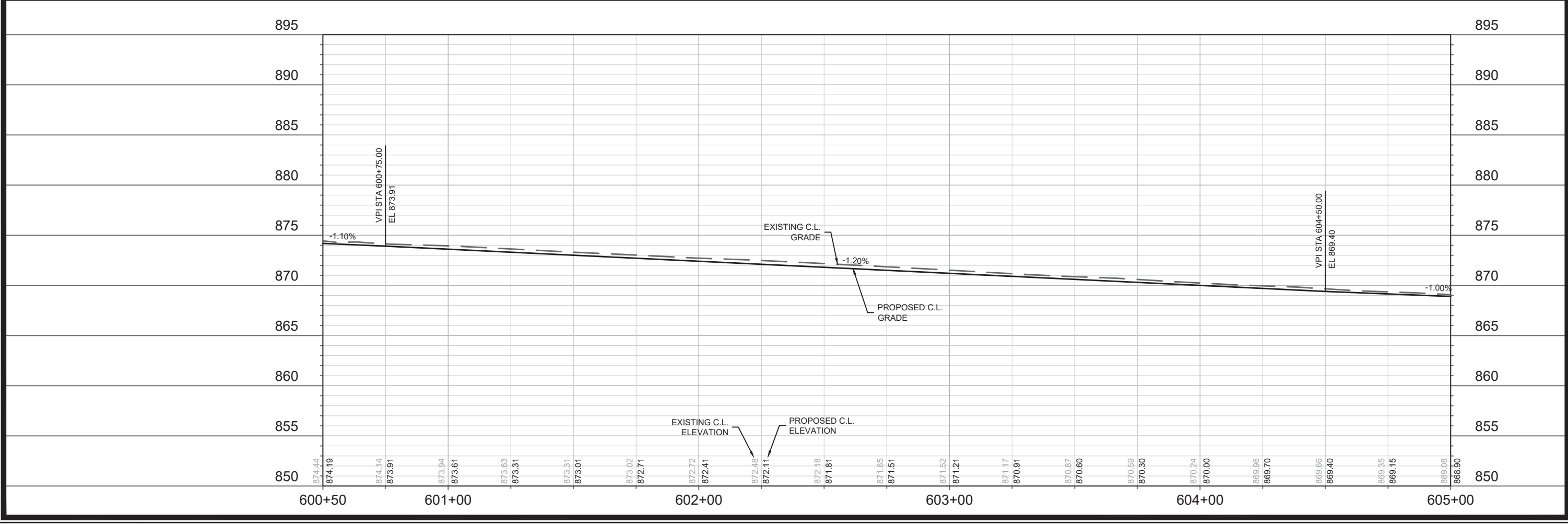
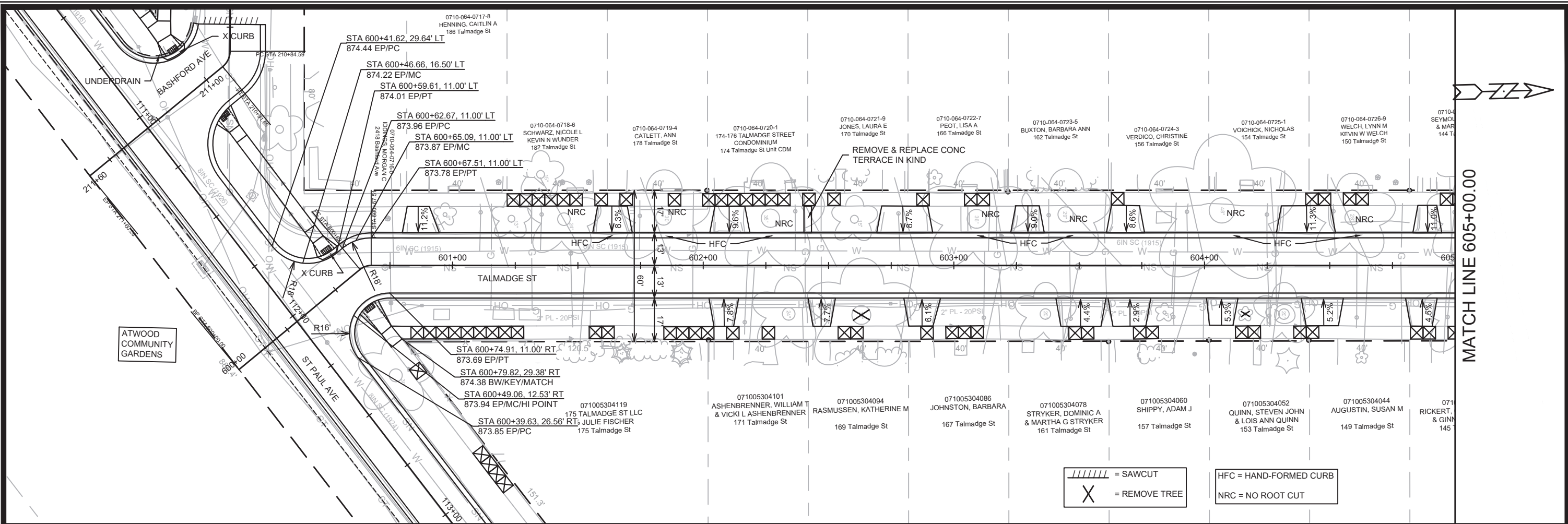
MATCH LINE 510+00.00



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2/14/2022	10:41 AM
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MARK	
DESIGNED BY: AUC	12907
SCALE	1" = 40'
PAGE	P-7

12907  
 MADISON, WI  
 JACKSON AND LAFOLLETTE RECONSTRUCT  
 CONTRACT NO: 8616  
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MARK	
Designed By: AUC	Date: 2/14/2022 10:41 AM
Scale: 1" = 40'	
12907	P-8

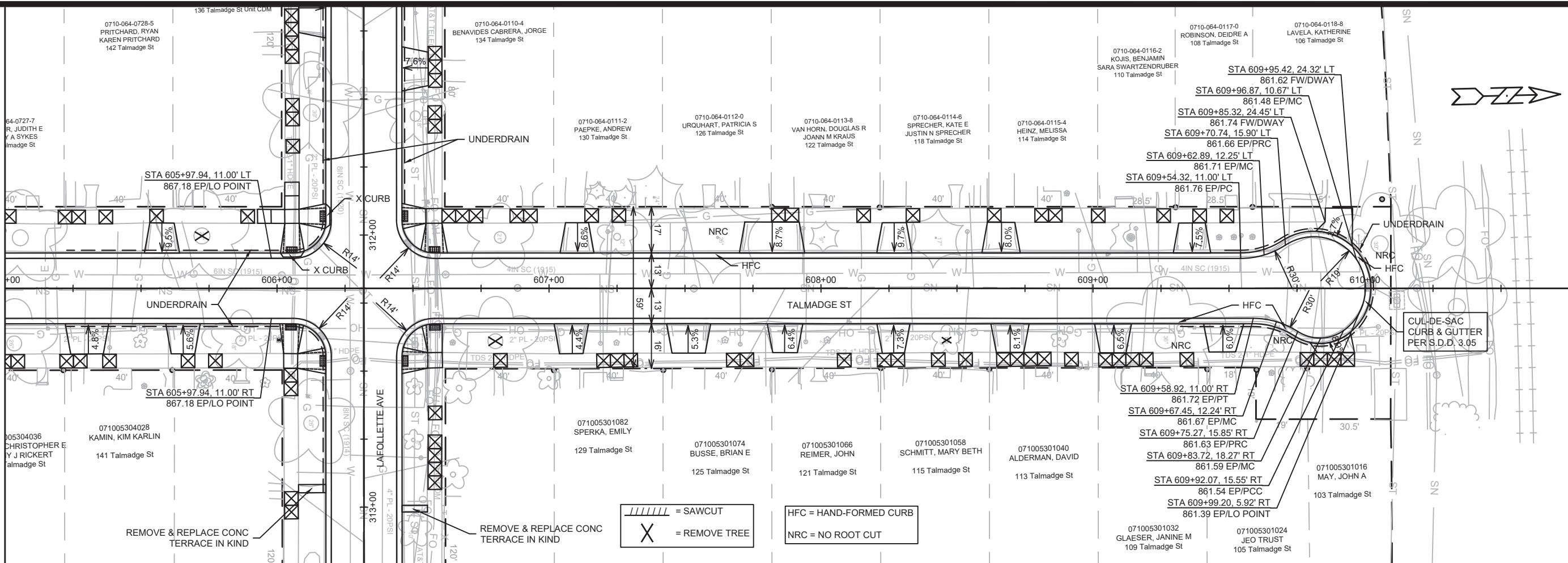
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 MADISON, WI  
 CONTRACT NO: 8616

TALMADGE ST - PLAN & PROFILE  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT

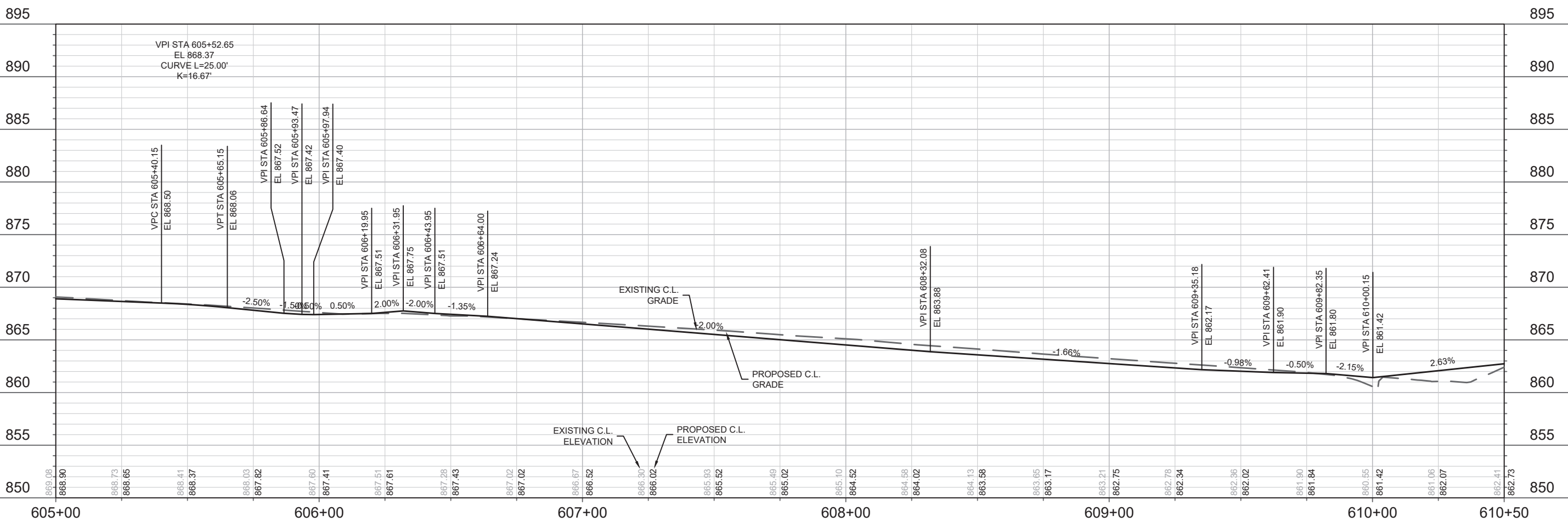
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 P-8

MATCH LINE 605+00.00



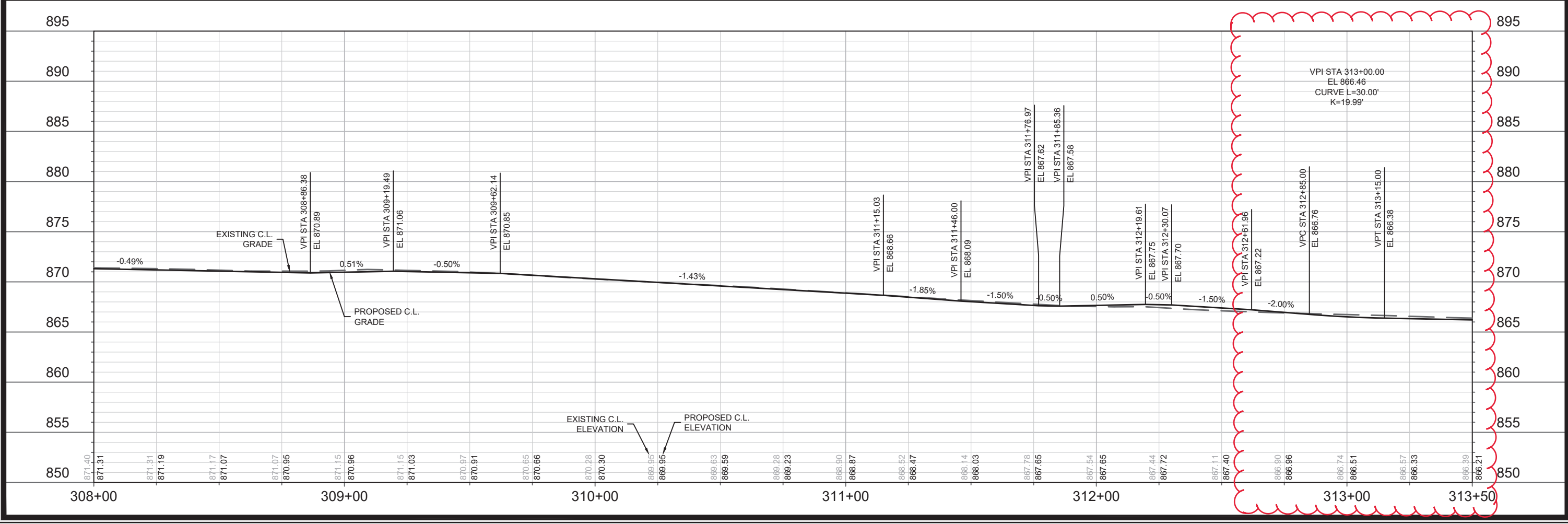
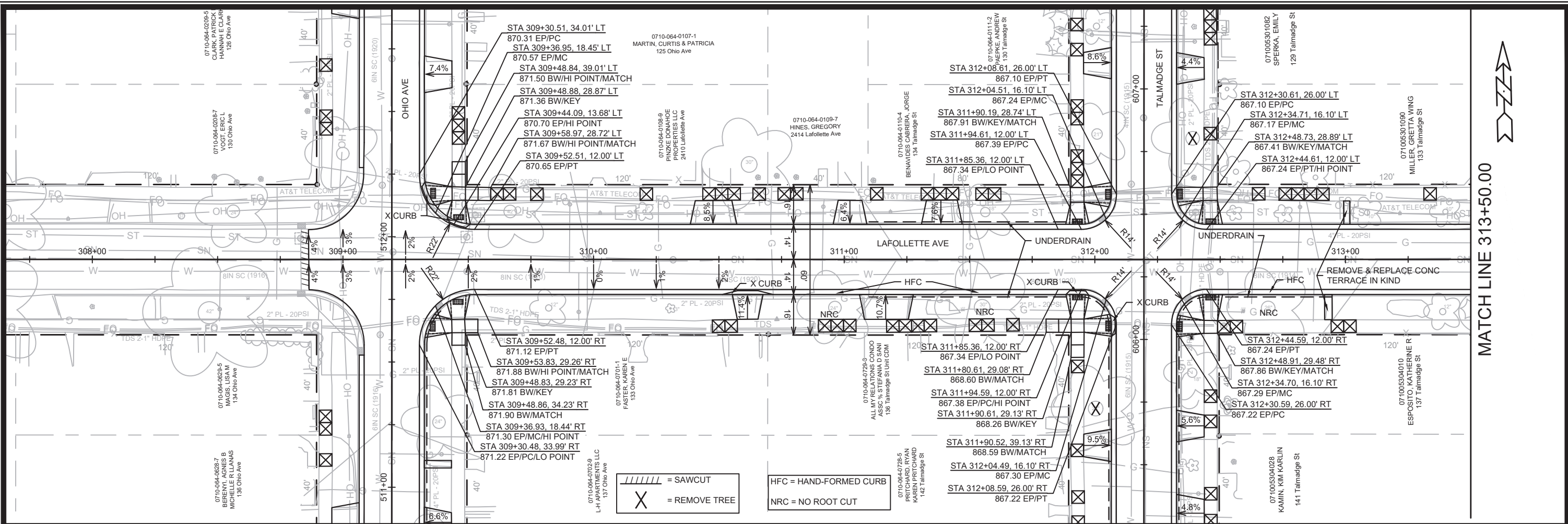
/ / / / = SAWCUT  
 X = REMOVE TREE  
 HFC = HAND-FORMED CURB  
 NRC = NO ROOT CUT



DATE	BY
REVISION	
MARK	
DESIGNED BY: AUC	DATE: 2/14/2022 10:41 AM
12907	P-9

12907  
 TALMADGE ST - PLAN & PROFILE  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
 MADISON, WI  
 CONTRACT NO: 8616  
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12907  
 P-9



MATCH LINE 313+50.00

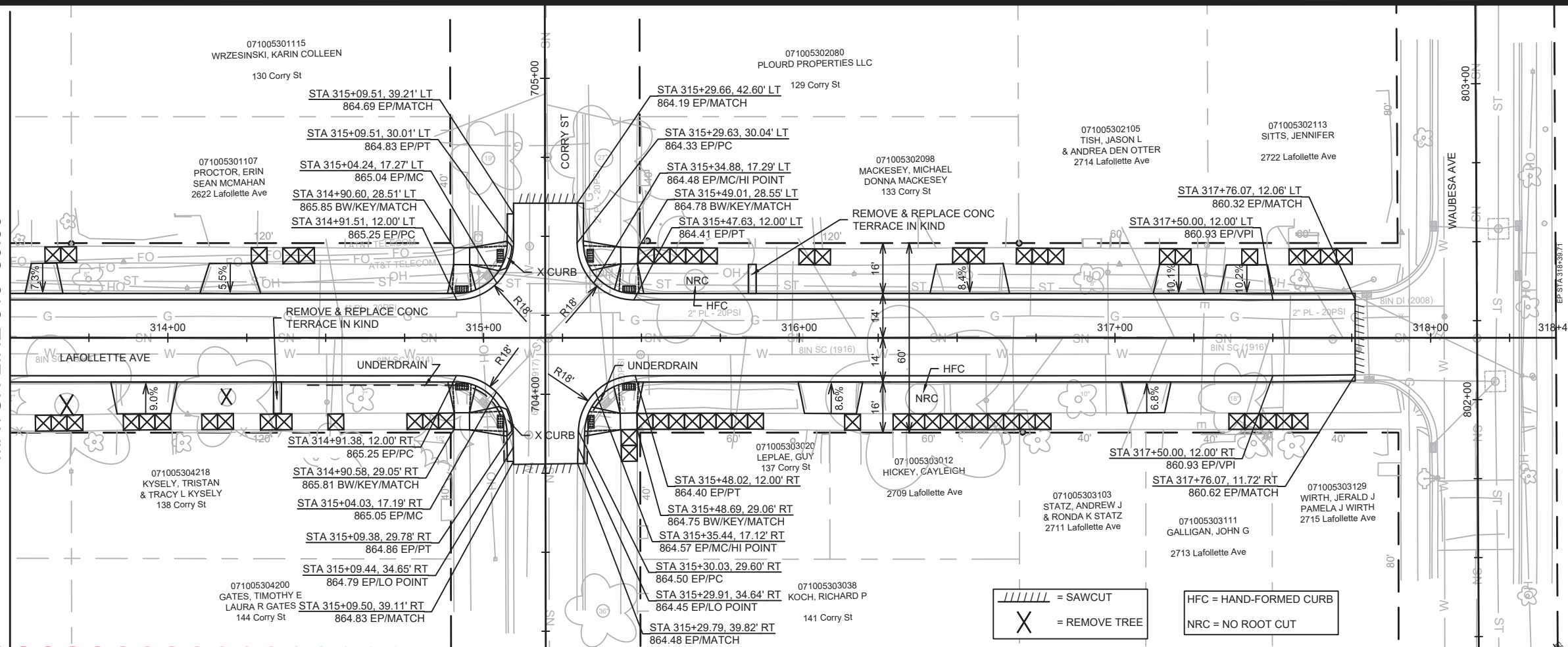
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**LAFOLLETTE AVE - PLAN & PROFILE**  
**ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI**  
 CONTRACT NO: **8616**  
 P-10

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 12907 P-10

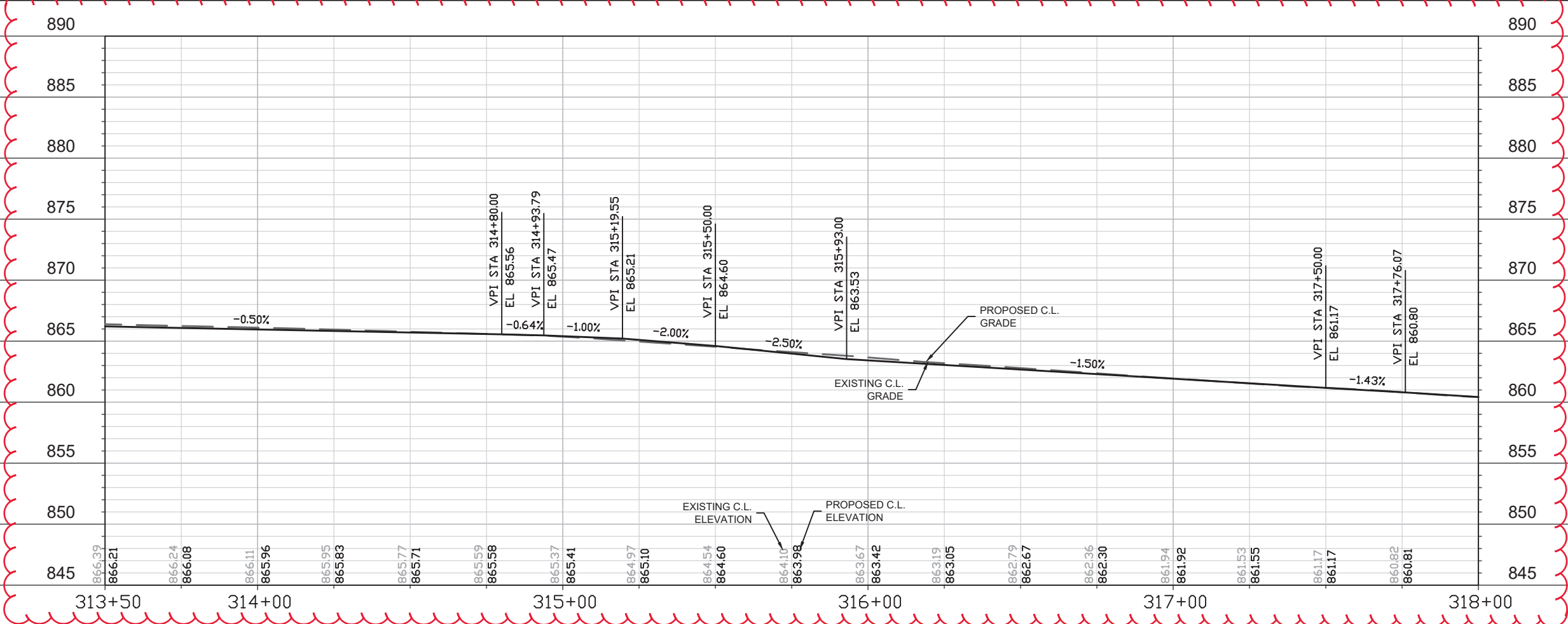


MATCH LINE 313+50.00



071005305018  
GCC REAL ESTATE HOLDINGS  
INC  
149 Waubesa St

= SAWCUT  
 = REMOVE TREE  
 HFC = HAND-FORMED CURB  
 NRC = NO ROOT CUT

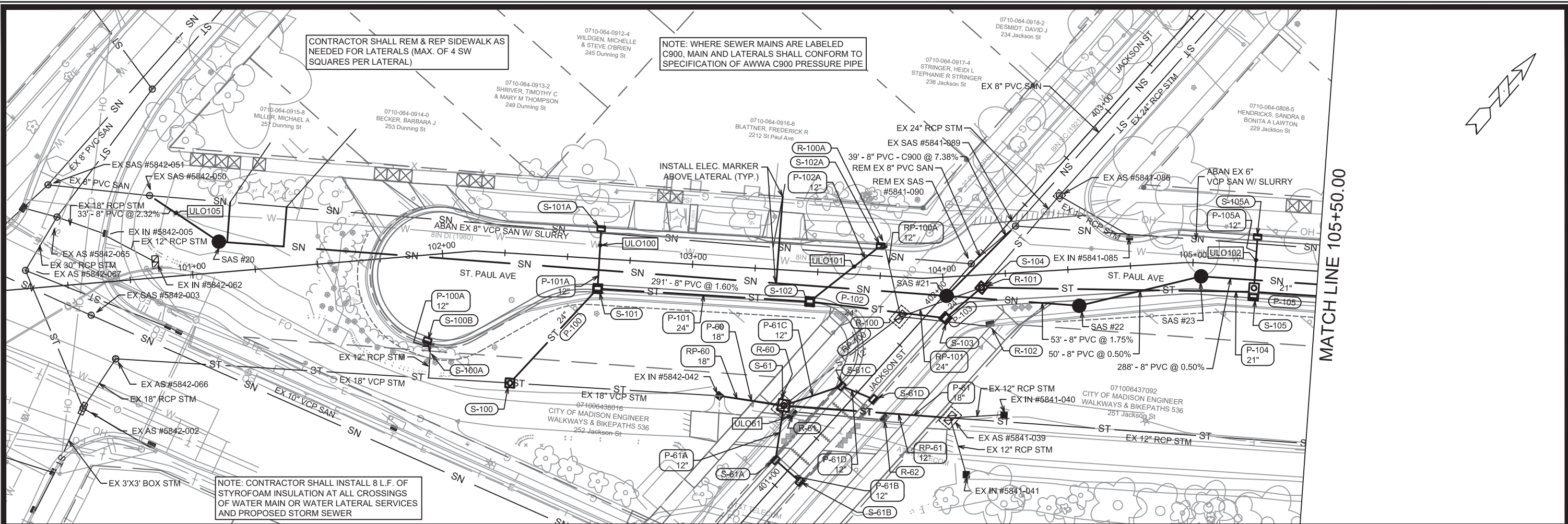


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12907  
 MADISON, WI  
 CONTRACT NO: 8616  
 P-11

LAFOLLETTE AVE - PLAN & PROFILE  
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 P-11



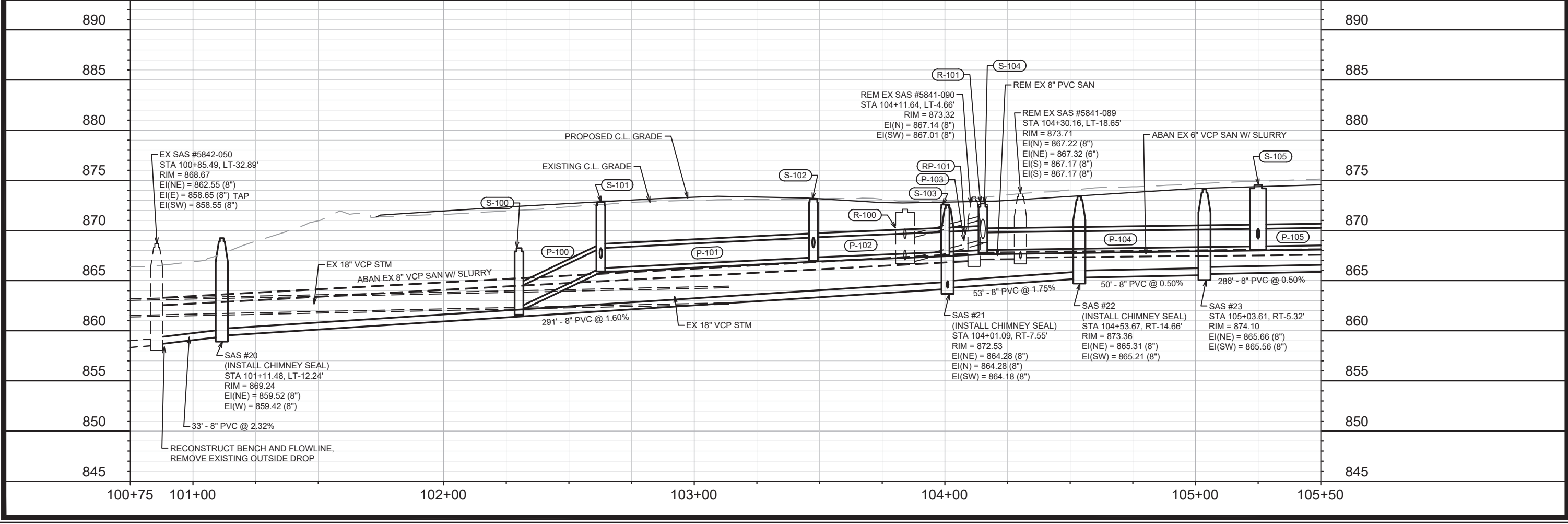


CONTRACTOR SHALL REM & REP SIDEWALK AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL)

NOTE: WHERE SEWER MAINS ARE LABELED C900, MAIN AND LATERALS SHALL CONFORM TO SPECIFICATION OF AWWA C900 PRESSURE PIPE

NOTE: CONTRACTOR SHALL INSTALL 8 L.F. OF STYROFOAM INSULATION AT ALL CROSSINGS OF WATER MAIN OR WATER LATERAL SERVICES AND PROPOSED STORM SEWER

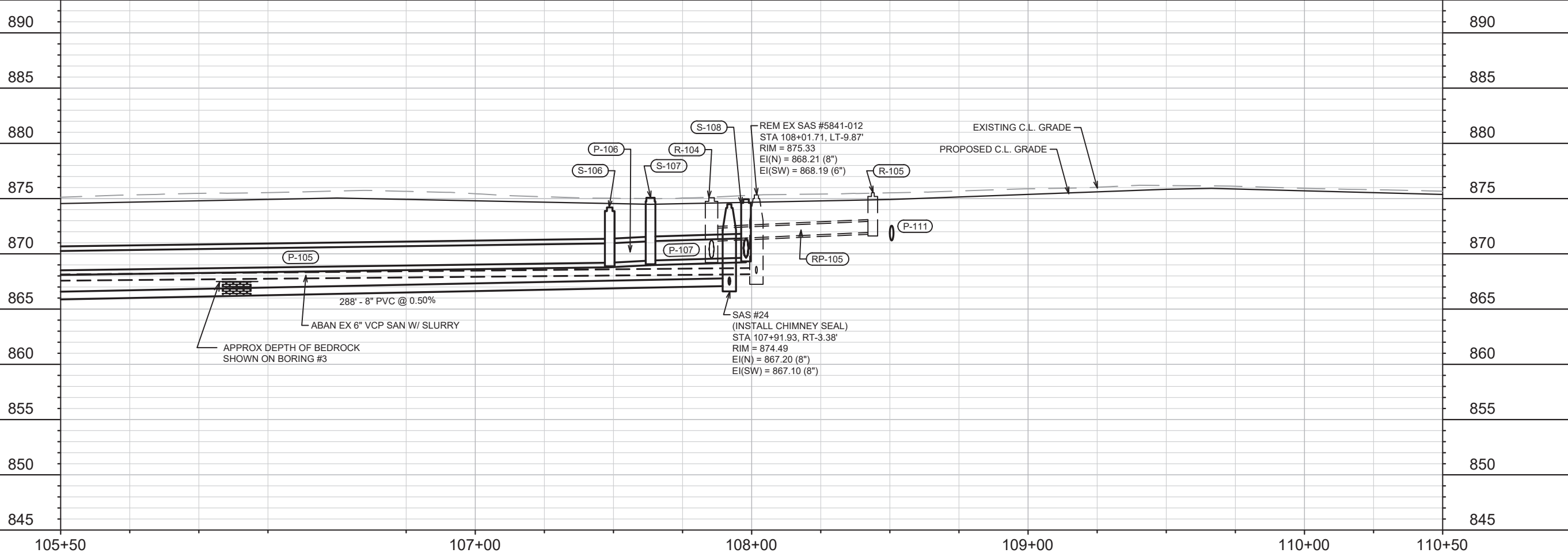
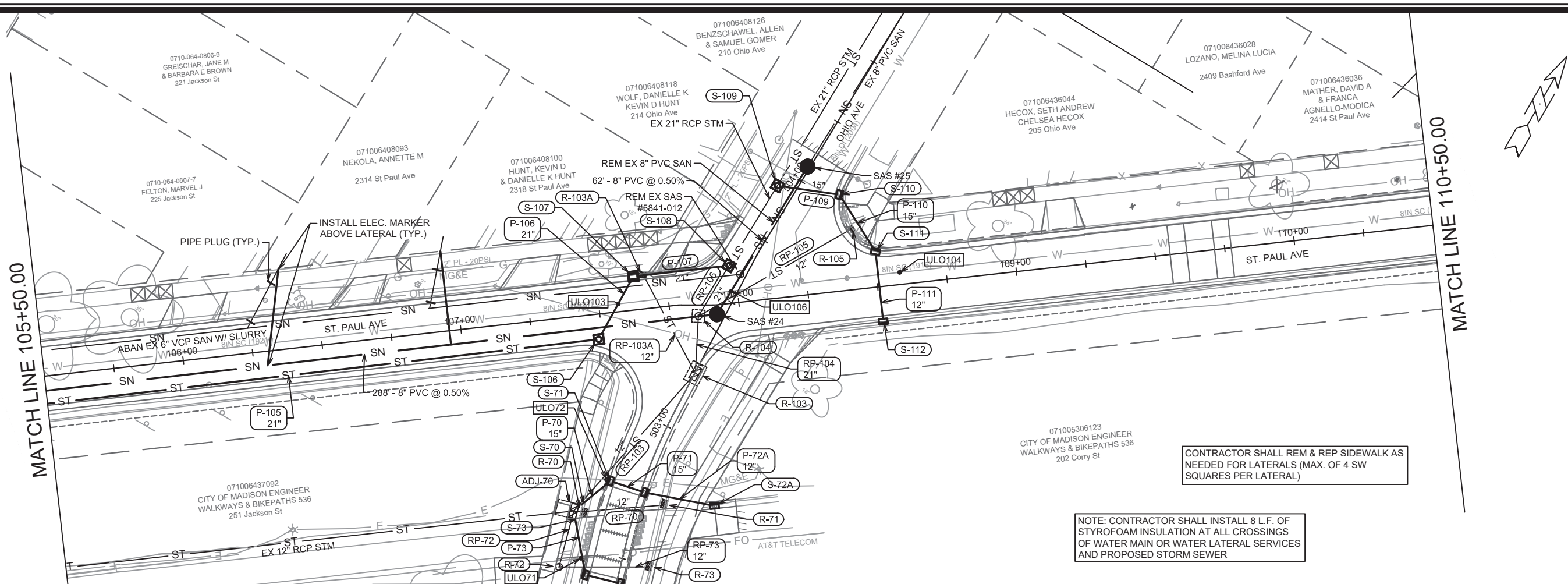
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DATE	2/10/22	BY	KDF
REVISION			
MARK			
DESIGNED BY: AUC	Date: 2/10/2022 10:22 AM	Scale: 1" = 40'	U-0
12907			

12907  
 MADISON, WI  
 JACSON AND LAFOLLETTE RECONSTRUCT  
 CONTRACT NO.: 8616  
 U-0

ST. PAUL AVE - SEWER PLAN & PROFILE  
 ST. PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
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 U-0



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2	REVISION	2/10/22	AM

Designed By: AUC Date: 2/10/2022 10:27 AM Scale: 1" = 40'

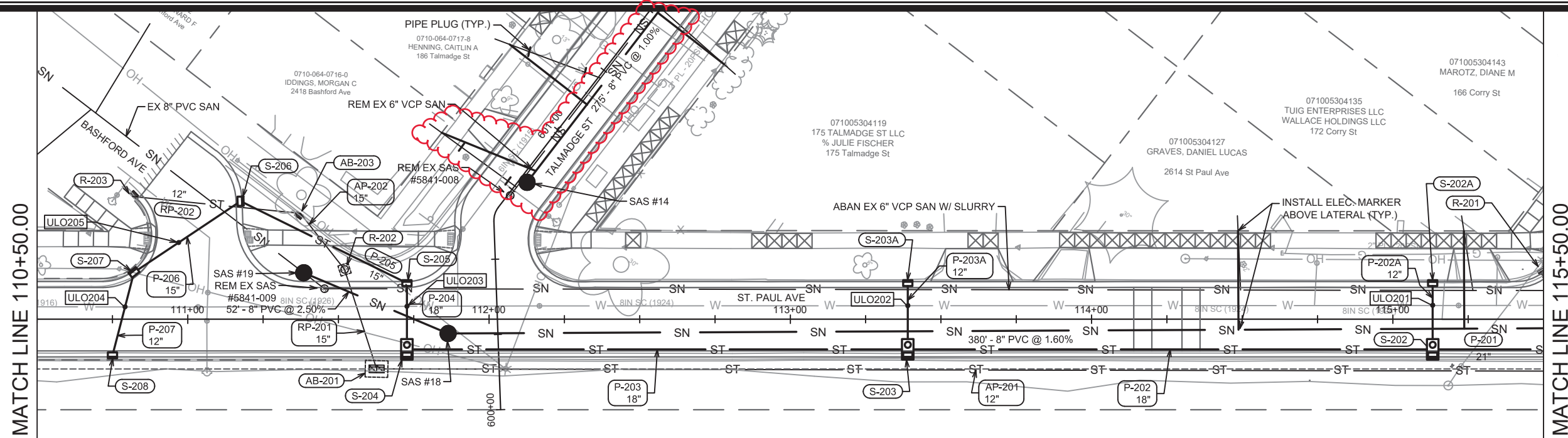
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 ST. PAUL AVE - SEWER PLAN & PROFILE  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
 MADISON, WI  
 CONTRACT NO.: 8616  
 U-1

ST. PAUL AVE - SEWER PLAN & PROFILE

ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT

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 U-1

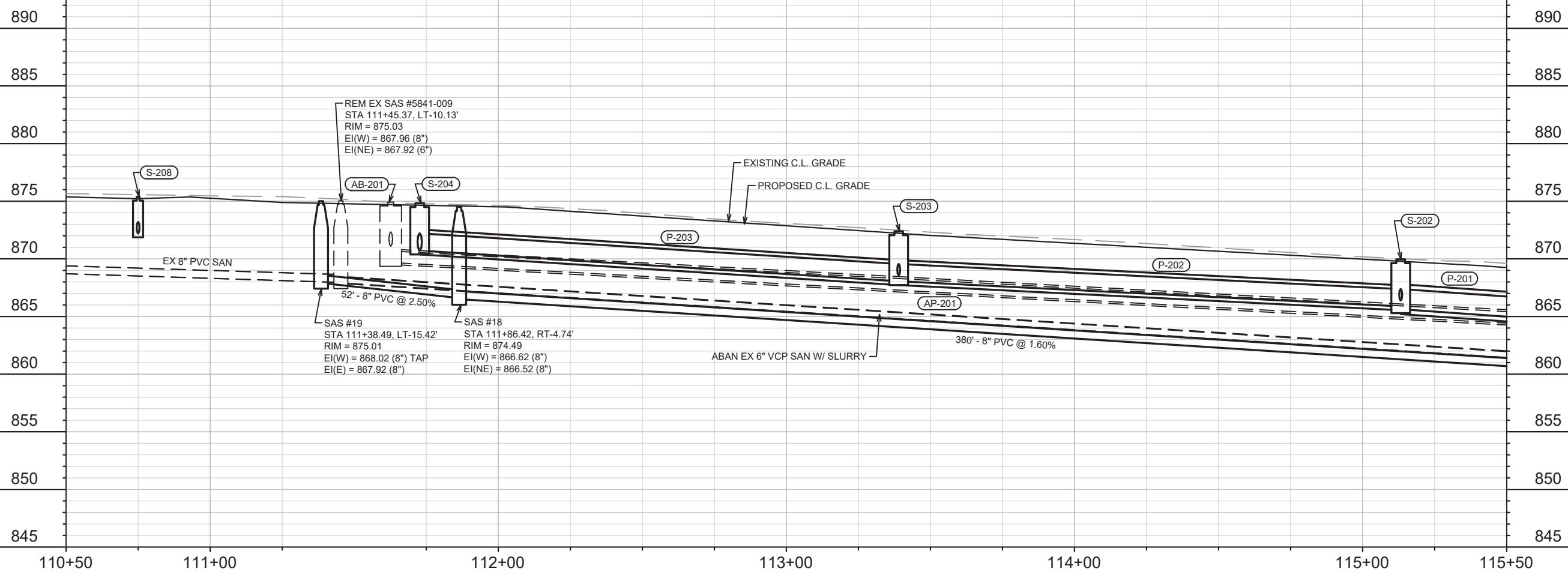


MATCH LINE 110+50.00

MATCH LINE 115+50.00

NOTE: CONTRACTOR SHALL INSTALL 8 L.F. OF STYROFOAM INSULATION AT ALL CROSSINGS OF WATER MAIN OR WATER LATERAL SERVICES AND PROPOSED STORM SEWER

CONTRACTOR SHALL REM & REP SIDEWALK AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL)



REM EX SAS #5841-009  
 STA 111+45.37, LT-10.13'  
 RIM = 875.03  
 EI(W) = 867.96 (8")  
 EI(NE) = 867.92 (6")

SAS #19  
 STA 111+38.49, LT-15.42'  
 RIM = 875.01  
 EI(W) = 868.02 (8") TAP  
 EI(E) = 867.92 (8")

SAS #18  
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 RIM = 874.49  
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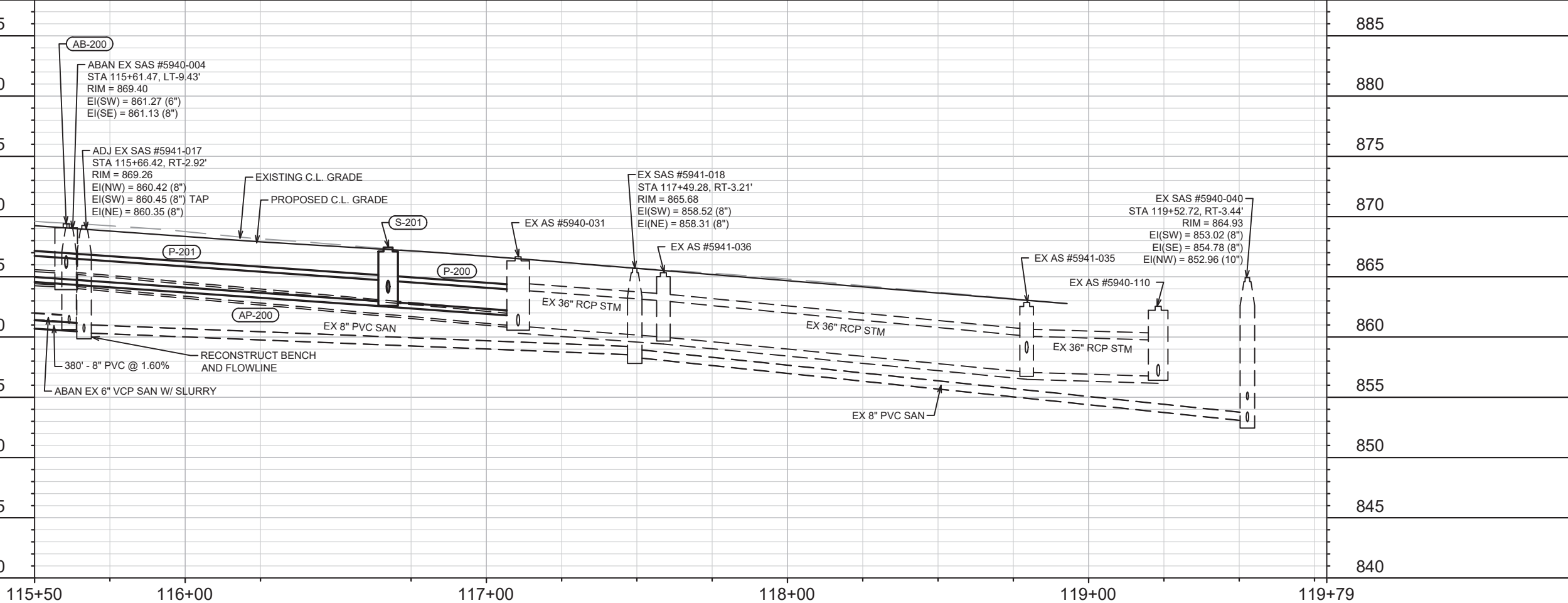
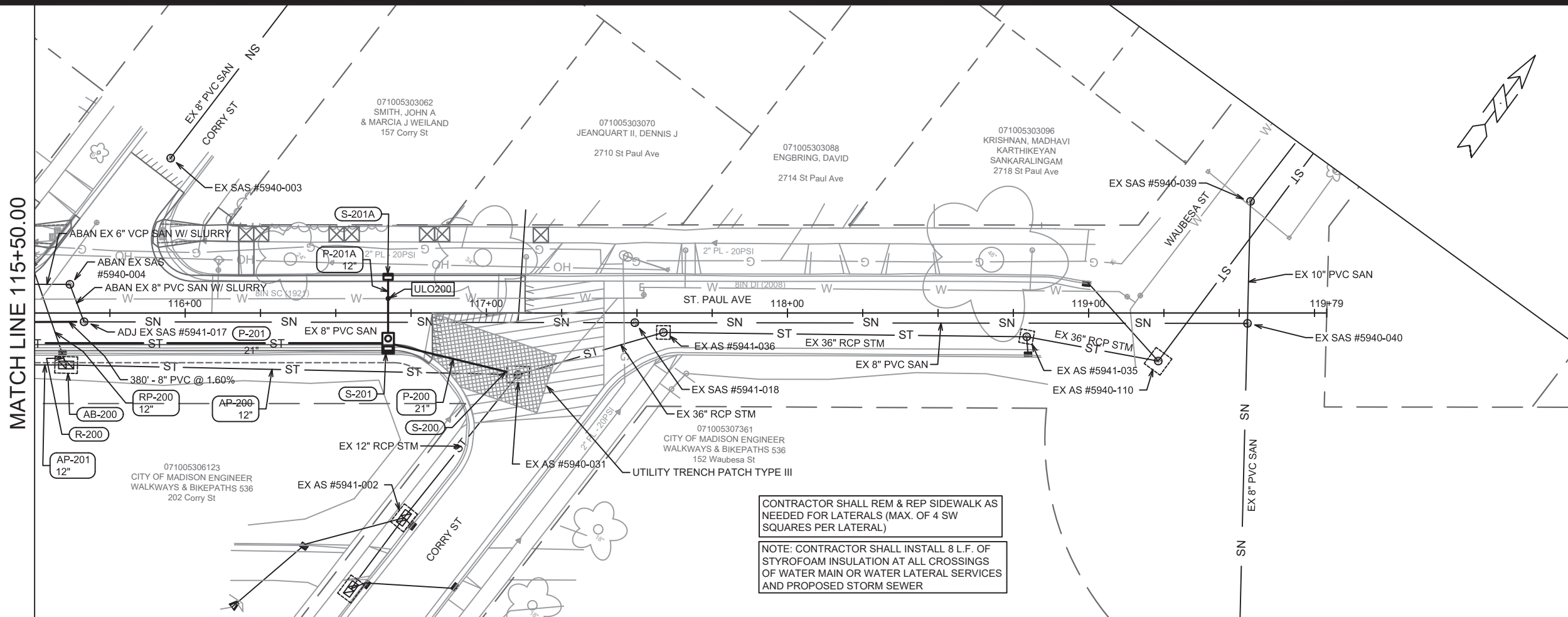
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12907			U-2

12907  
 MADISON, WI  
 CONTRACT NO.: 8616

ST. PAUL AVE - SEWER PLAN & PROFILE  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
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12907  
 U-2



CONTRACTOR SHALL REM & REP SIDEWALK AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL)

NOTE: CONTRACTOR SHALL INSTALL 8 L.F. OF STYROFOAM INSULATION AT ALL CROSSINGS OF WATER MAIN OR WATER LATERAL SERVICES AND PROPOSED STORM SEWER

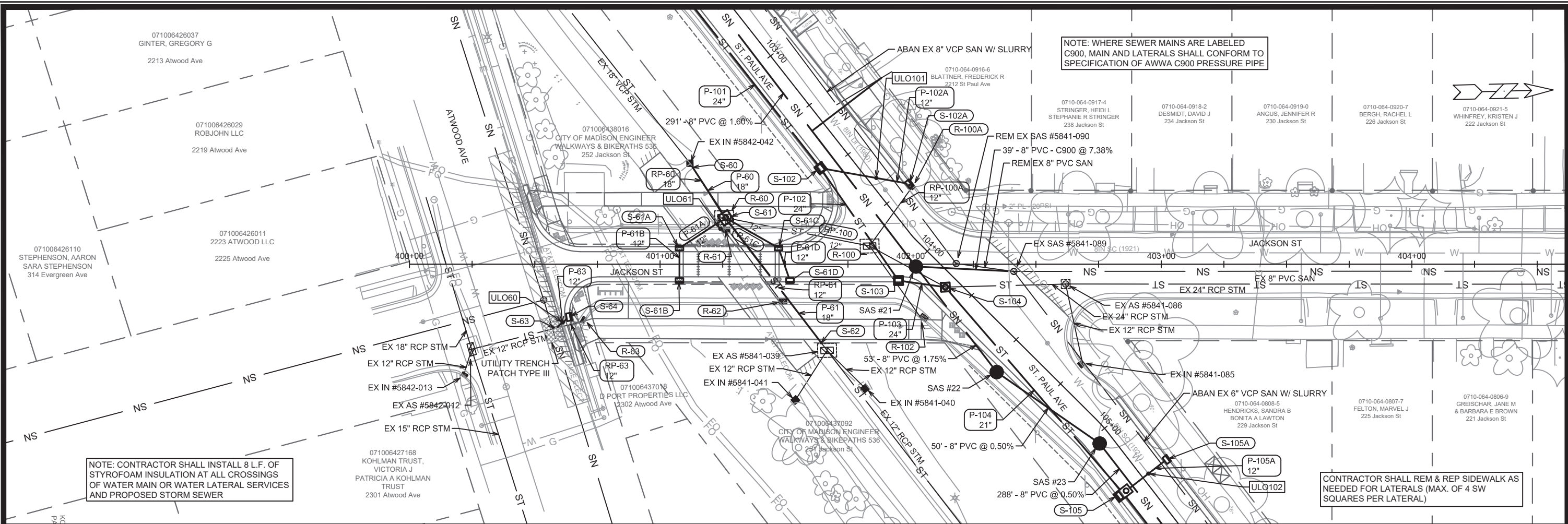
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2/10/22	KDF
REVISION	
DATE	BY
2/10/2022	AM
Scale:	1" = 40'
U-3	

12907  
 MADISON, WI  
 CONTRACT NO.: 8616

ST. PAUL AVE - SEWER PLAN & PROFILE  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
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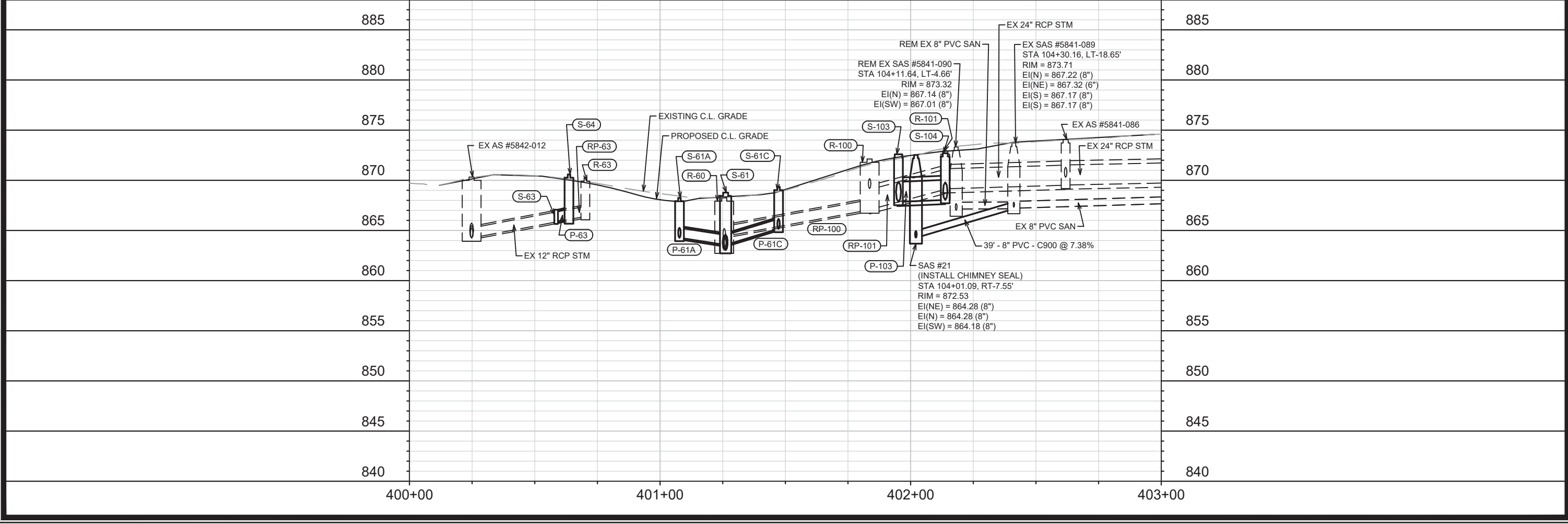
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NOTE: CONTRACTOR SHALL INSTALL 8 L.F. OF STYROFOAM INSULATION AT ALL CROSSINGS OF WATER MAIN OR WATER LATERAL SERVICES AND PROPOSED STORM SEWER

NOTE: WHERE SEWER MAINS ARE LABELED C900, MAIN AND LATERALS SHALL CONFORM TO SPECIFICATION OF AWWA C900 PRESSURE PIPE

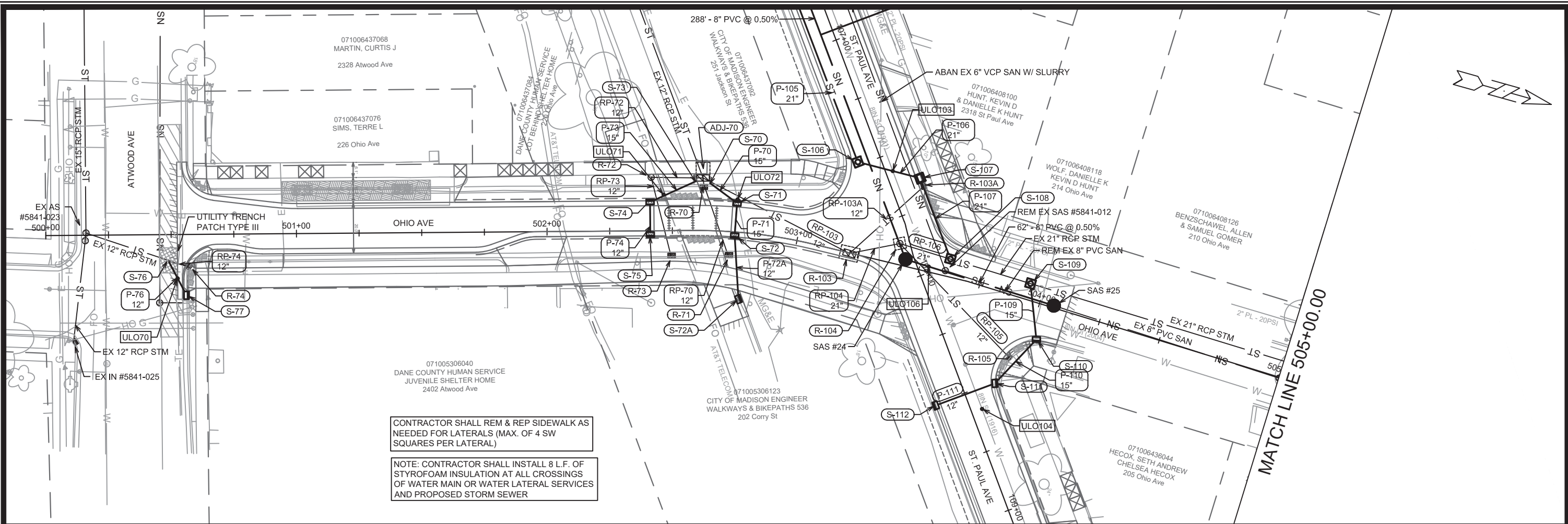
CONTRACTOR SHALL REM & REP SIDEWALK AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL)



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2	DESIGNED BY: AUC	DATE: 2/10/2022 10:31 AM	Scale: 1" = 40'
3	12907		U-4

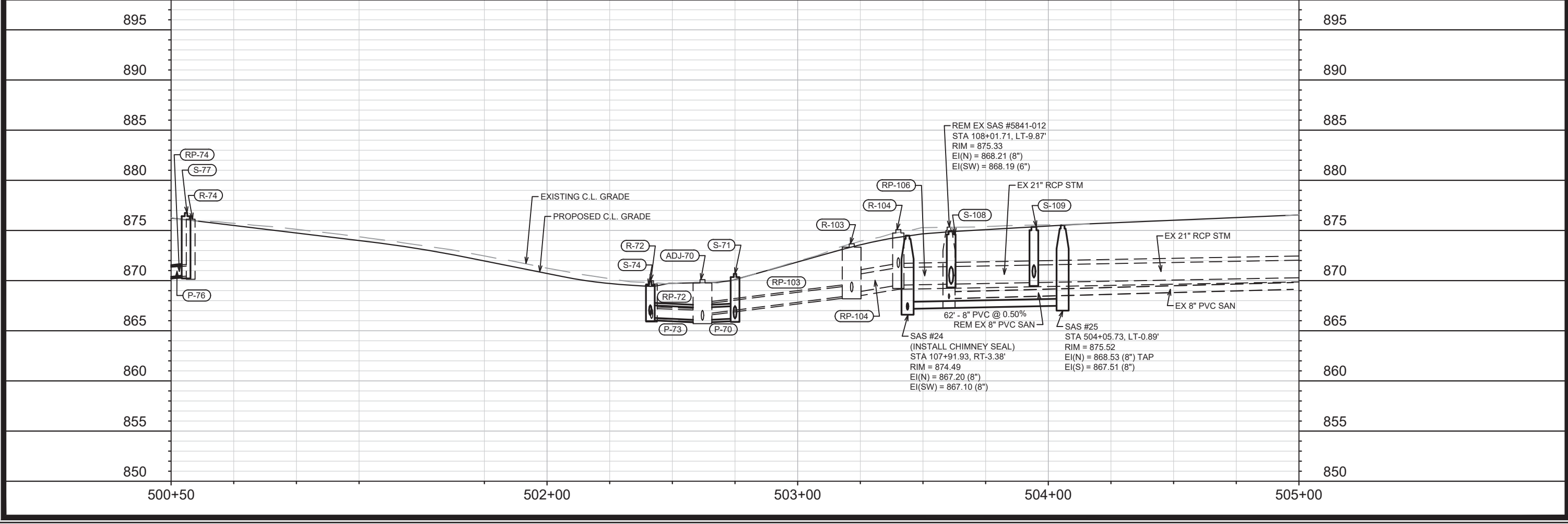
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 MADISON, WI  
 CONTRACT NO.: 8616  
 JACKSON ST - SEWER PLAN & PROFILE  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
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 12907  
 U-4





CONTRACTOR SHALL REM & REP SIDEWALK AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL)

NOTE: CONTRACTOR SHALL INSTALL 8 L.F. OF STYROFOAM INSULATION AT ALL CROSSINGS OF WATER MAIN OR WATER LATERAL SERVICES AND PROPOSED STORM SEWER



DATE	BY
2/10/22	KDF
REVISION	
12907	U-5

12907  
 MADISON, WI  
 CONTRACT NO: 8616

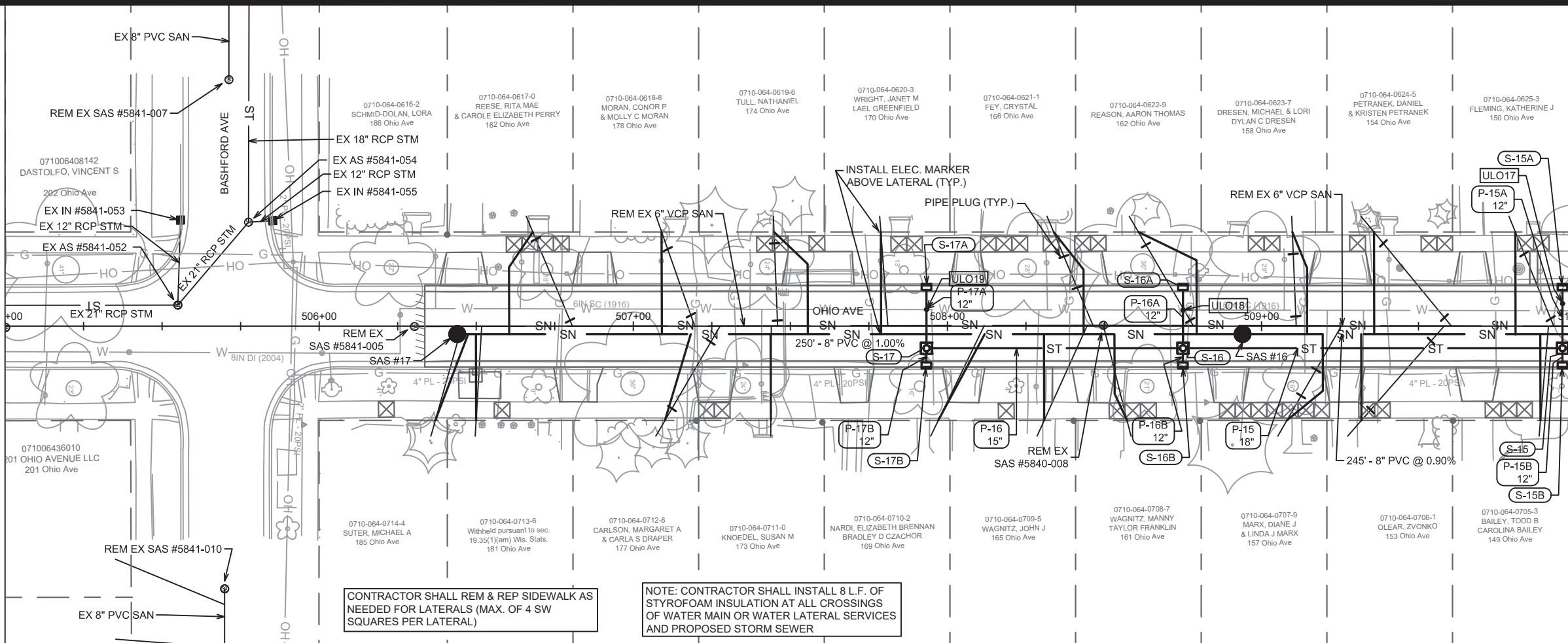
OHIO AVE - SEWER PLAN & PROFILE

ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT

12907  
 U-5

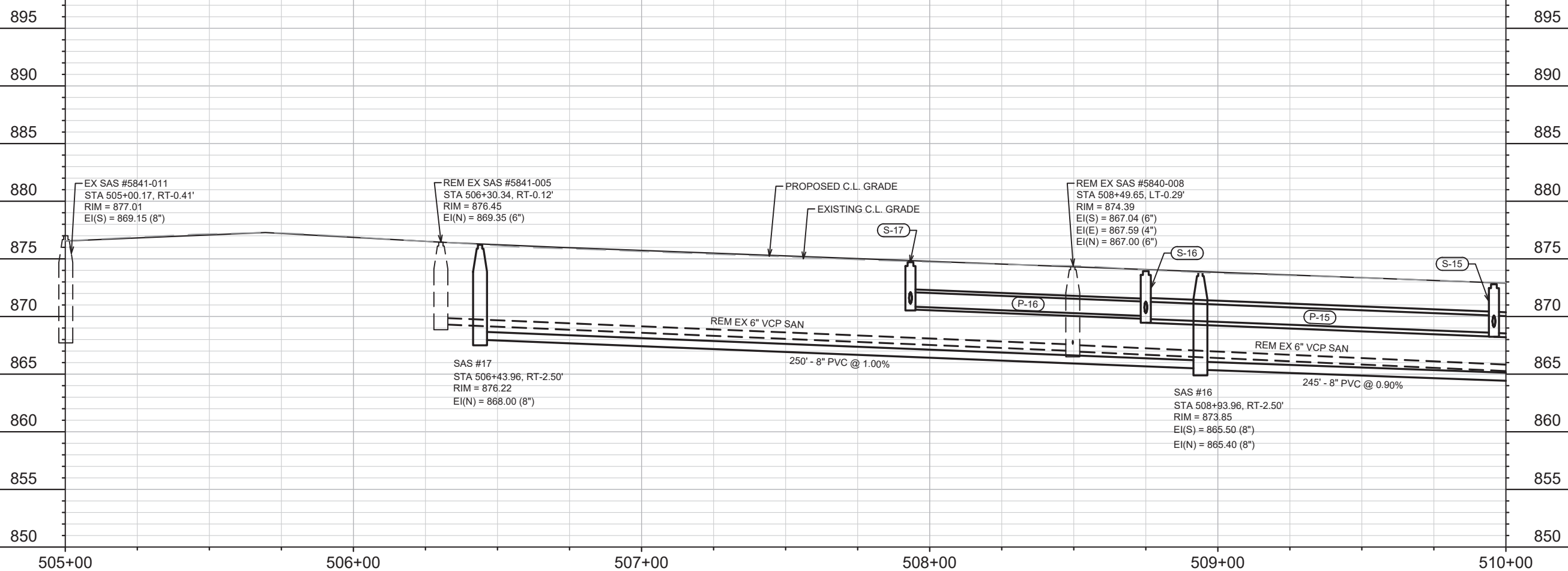
MATCH LINE 505+00.00

MATCH LINE 510+00.00



CONTRACTOR SHALL REM & REP SIDEWALK AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL)

NOTE: CONTRACTOR SHALL INSTALL 8 L.F. OF STYROFOAM INSULATION AT ALL CROSSINGS OF WATER MAIN OR WATER LATERAL SERVICES AND PROPOSED STORM SEWER



DATE	2/10/22	BY	KDF
REVISION	REPRINT FOR HYDRANTS	DATE	2/10/22
MARK	U-6	Scale:	1" = 40'
DESIGNED BY: AUC	12907	DATE:	2/10/2022 10:33 AM

12907  
 MADISON, WI  
 CONTRACT NO.: 8616

OHIO AVE - SEWER PLAN & PROFILE  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
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12907  
 U-6



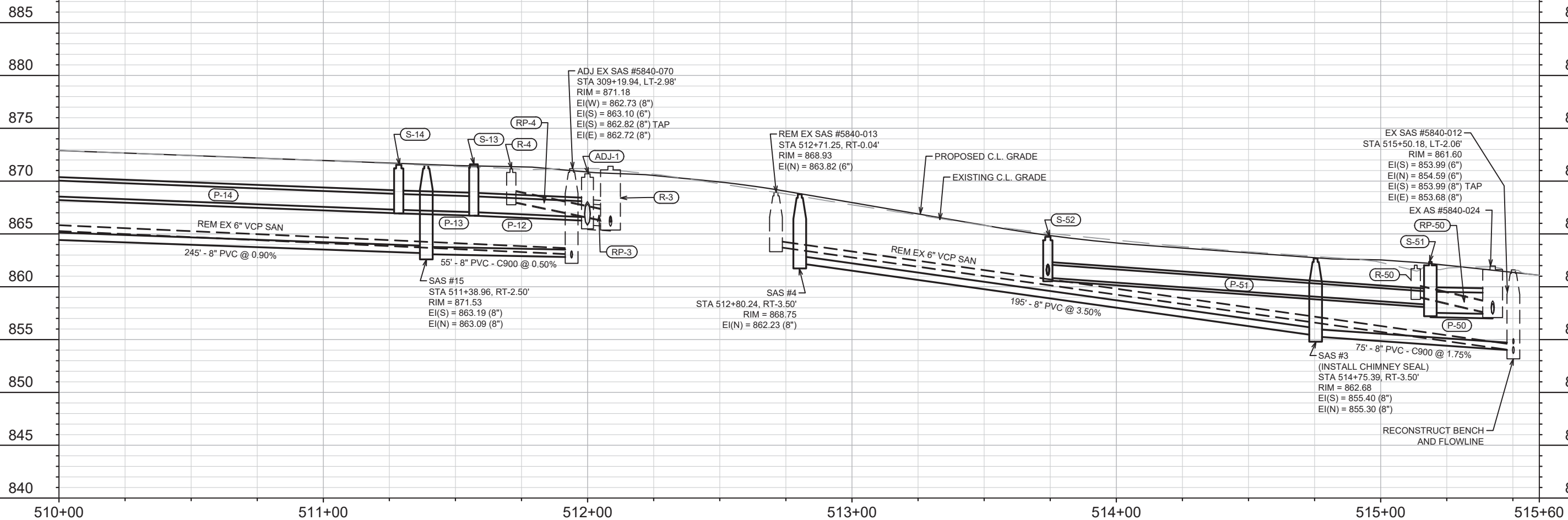
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NOTE: WHERE SEWER MAINS ARE LABELED C900, MAIN AND LATERALS SHALL CONFORM TO SPECIFICATION OF AWWA C900 PRESSURE PIPE

NOTE: CONTRACTOR SHALL INSTALL 8 L.F. OF STYROFOAM INSULATION AT ALL CROSSINGS OF WATER MAIN OR WATER LATERAL SERVICES AND PROPOSED STORM SEWER

NOTE: GAS MAIN ALONG OHIO, NORTH OF LAFOLLETTE, AND IN THE OHIO-LAFOLLETTE INTERSECTION WERE REPLACED IN 2020 AND NOT SURVEYED FOR THIS PROJECT. THE MAIN SHOWN ON THE PLAN SHEETS WERE DRAFTED BASED ON AS-BUILT DATA.

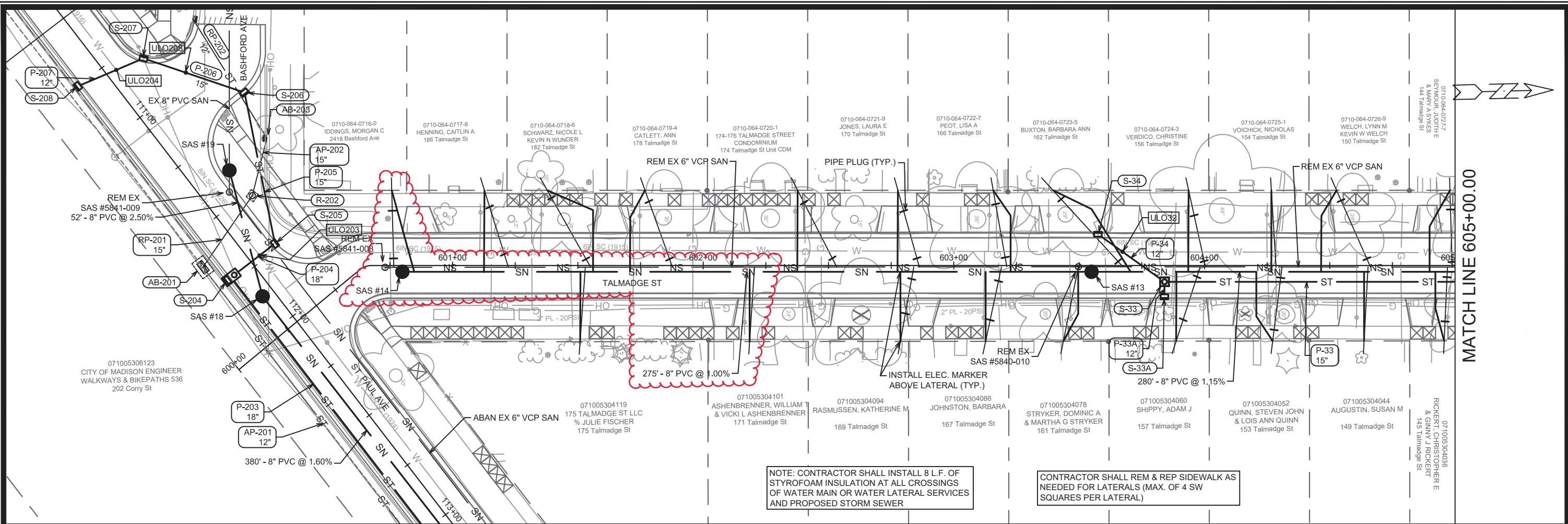
CONTRACTOR SHALL REM & REP SIDEWALK AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL)



DATE	2/10/22	BY	KDF
REVISION			
MARK			
Designed By: AUC	Date: 2/10/2022 10:34 AM	Scale: 1" = 40'	U-7

12907  
 MADISON, WI  
 JACKSON AND LAFOLLETTE RECONSTRUCT  
 CONTRACT NO: 8616

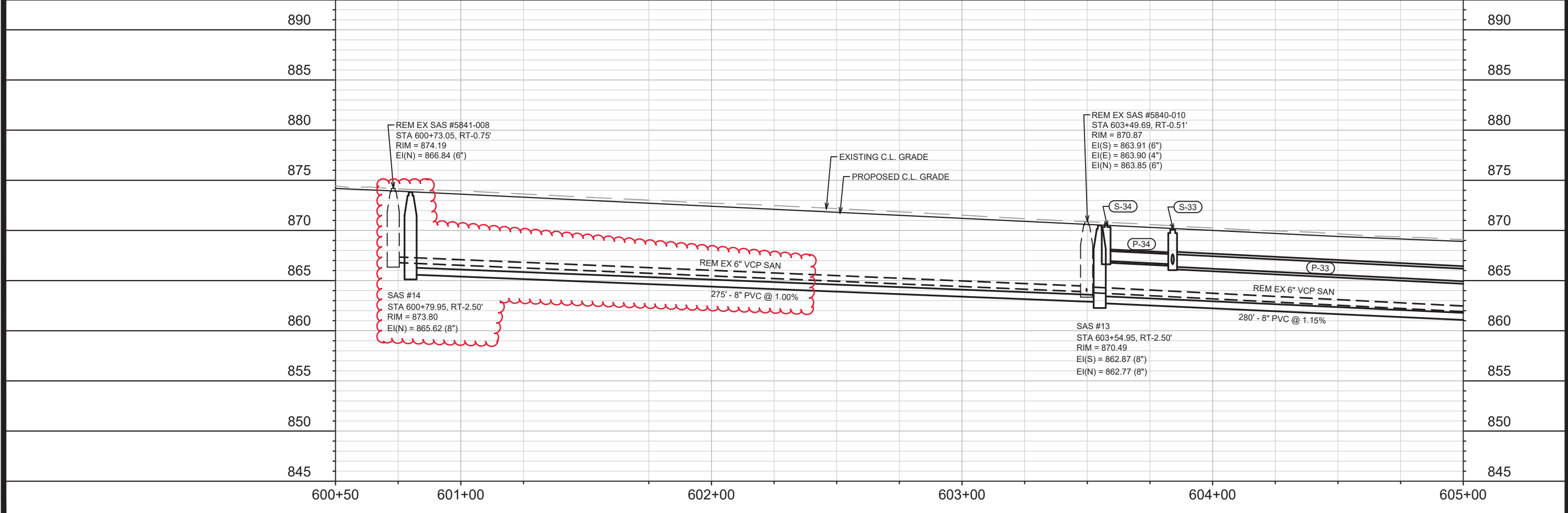
OHIO AVE - SEWER PLAN & PROFILE  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
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MATCH LINE 605+00.00

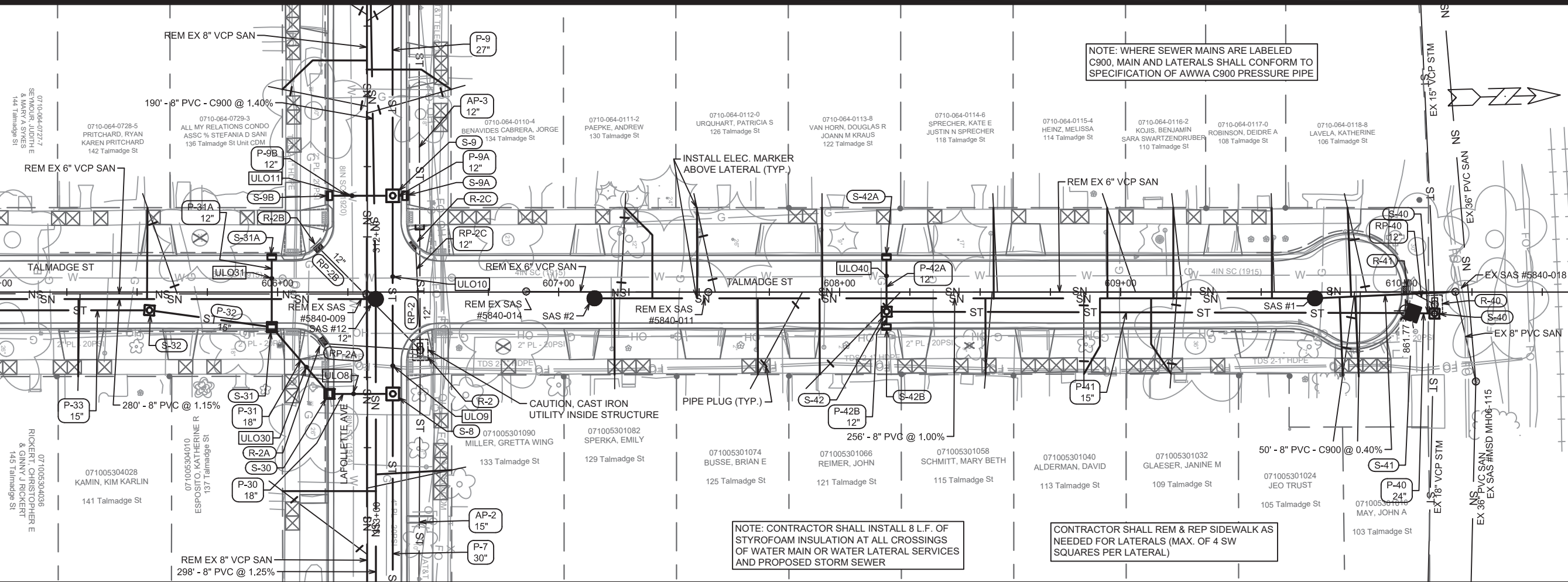
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CONTRACTOR SHALL REM & REP SIDEWALK AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL)



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12907	REVISION	2/10/22	10:35 AM	Scale: 1" = 40'	U-8
12907	CONTRACT NO.	8616			
<b>TALMADGE ST - SEWER PLAN &amp; PROFILE</b> <b>ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI</b>					
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<b>12907</b> <b>U-8</b>					

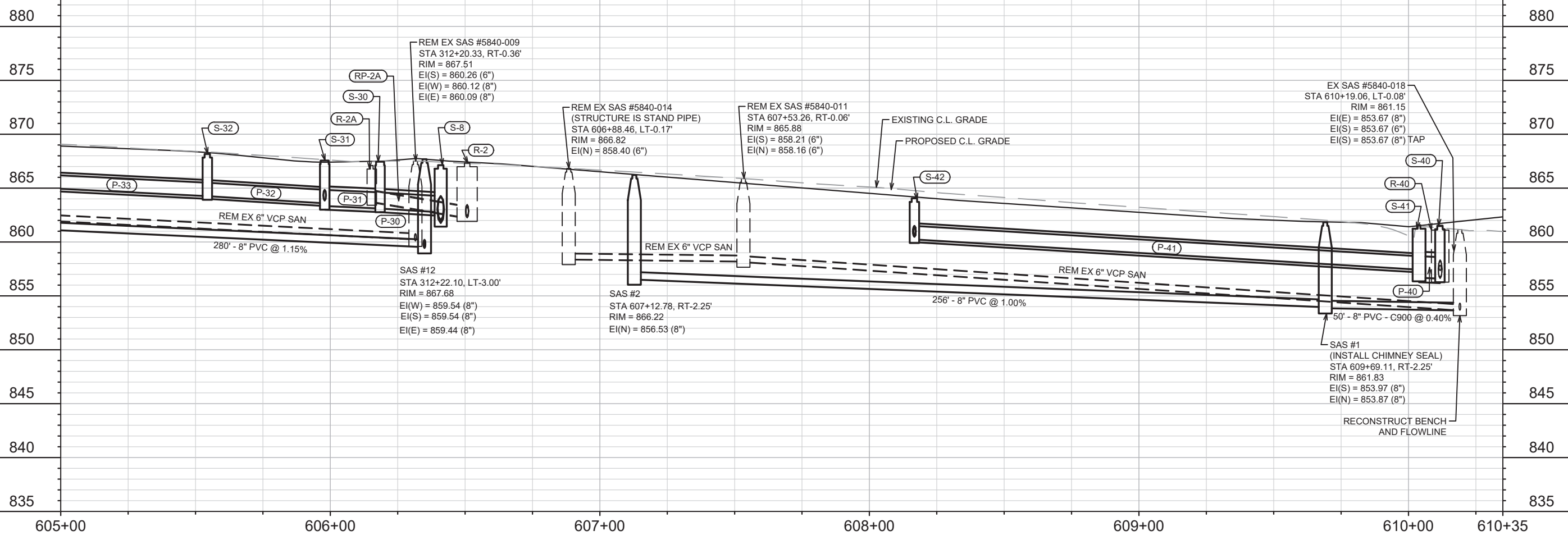
MATCH LINE 605+00.00



NOTE: WHERE SEWER MAINS ARE LABELED C900, MAIN AND LATERALS SHALL CONFORM TO SPECIFICATION OF AWWA C900 PRESSURE PIPE

NOTE: CONTRACTOR SHALL INSTALL 8 L.F. OF STYROFOAM INSULATION AT ALL CROSSINGS OF WATER MAIN OR WATER LATERAL SERVICES AND PROPOSED STORM SEWER

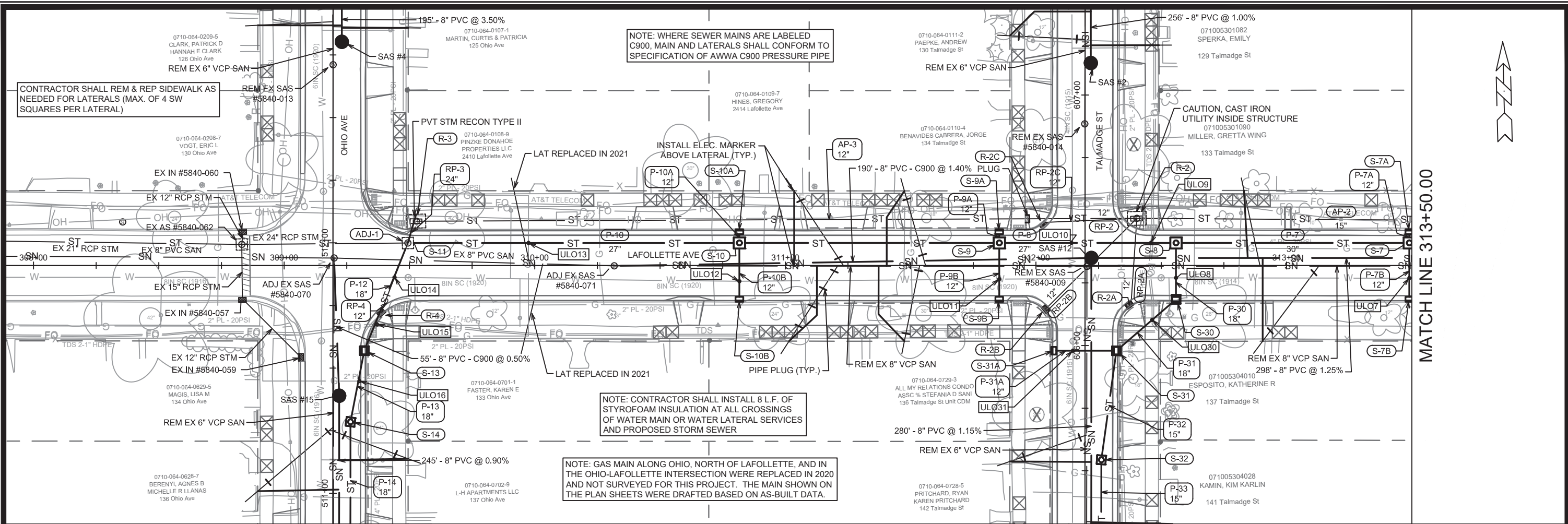
CONTRACTOR SHALL REM & REP SIDEWALK AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL)



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DESIGNED BY: AUC	Date: 2/10/2022 10:36 AM		
Scale:	1" = 40'		
12907	U-9		

12907  
**TALMADGE ST - SEWER PLAN & PROFILE**  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
 CONTRACT NO: 8616  
 U-9





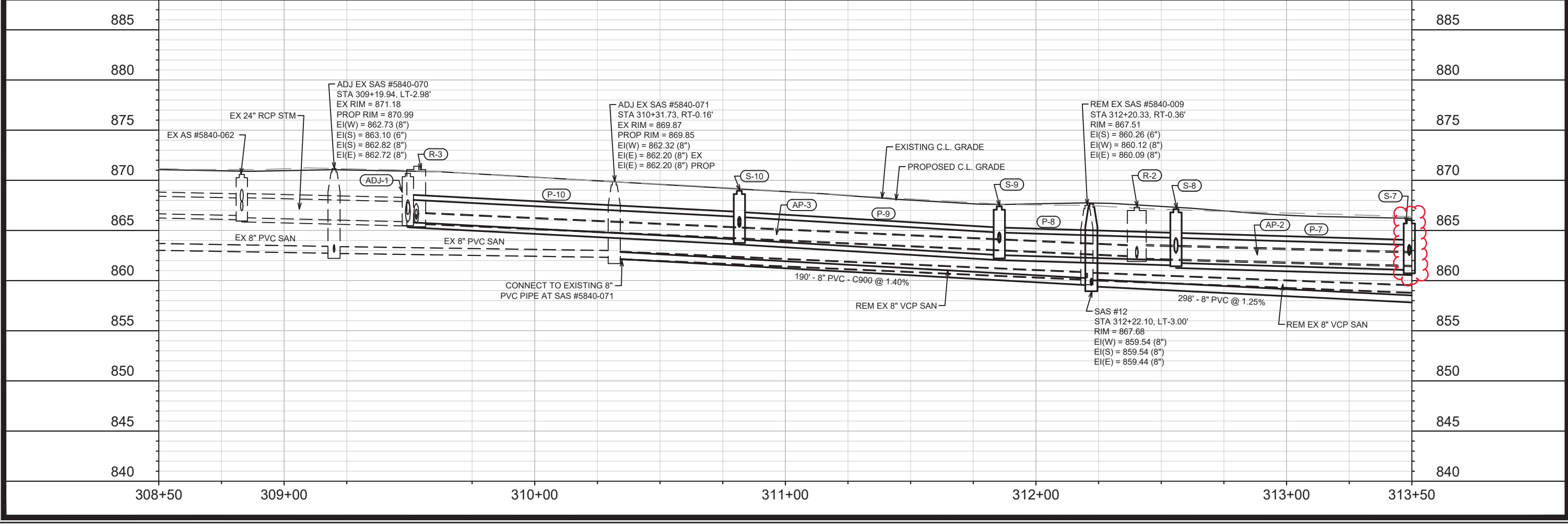
NOTE: WHERE SEWER MAINS ARE LABELED C900, MAIN AND LATERALS SHALL CONFORM TO SPECIFICATION OF AWWA C900 PRESSURE PIPE

NOTE: CONTRACTOR SHALL INSTALL 8 L.F. OF STYROFOAM INSULATION AT ALL CROSSINGS OF WATER MAIN OR WATER LATERAL SERVICES AND PROPOSED STORM SEWER

NOTE: GAS MAIN ALONG OHIO, NORTH OF LAFOLLETTE, AND IN THE OHIO-LAFOLLETTE INTERSECTION WERE REPLACED IN 2020 AND NOT SURVEYED FOR THIS PROJECT. THE MAIN SHOWN ON THE PLAN SHEETS WERE DRAFTED BASED ON AS-BUILT DATA.

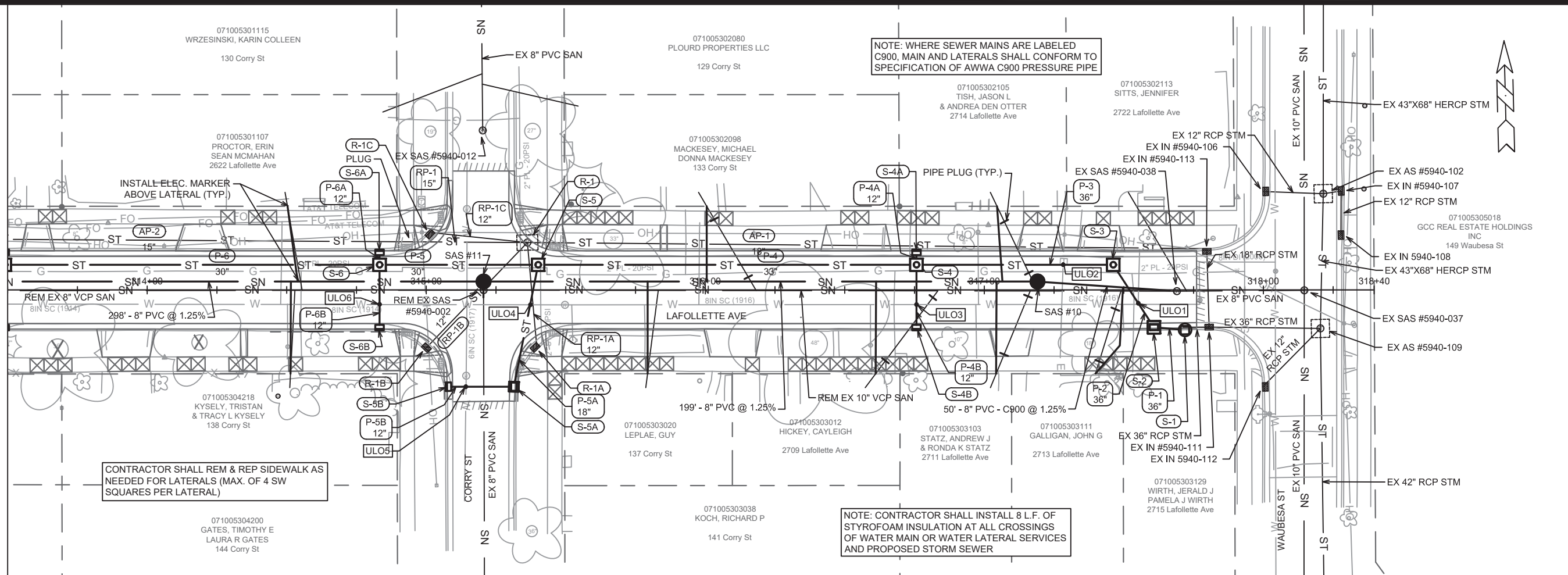
CONTRACTOR SHALL REM & REP SIDEWALK AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL)

MATCH LINE 313+50.00



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LAFOLLETTE AVE - SEWER PLAN & PROFILE			
ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT			
CONTRACT NO. 8616			
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12907			
U-10			

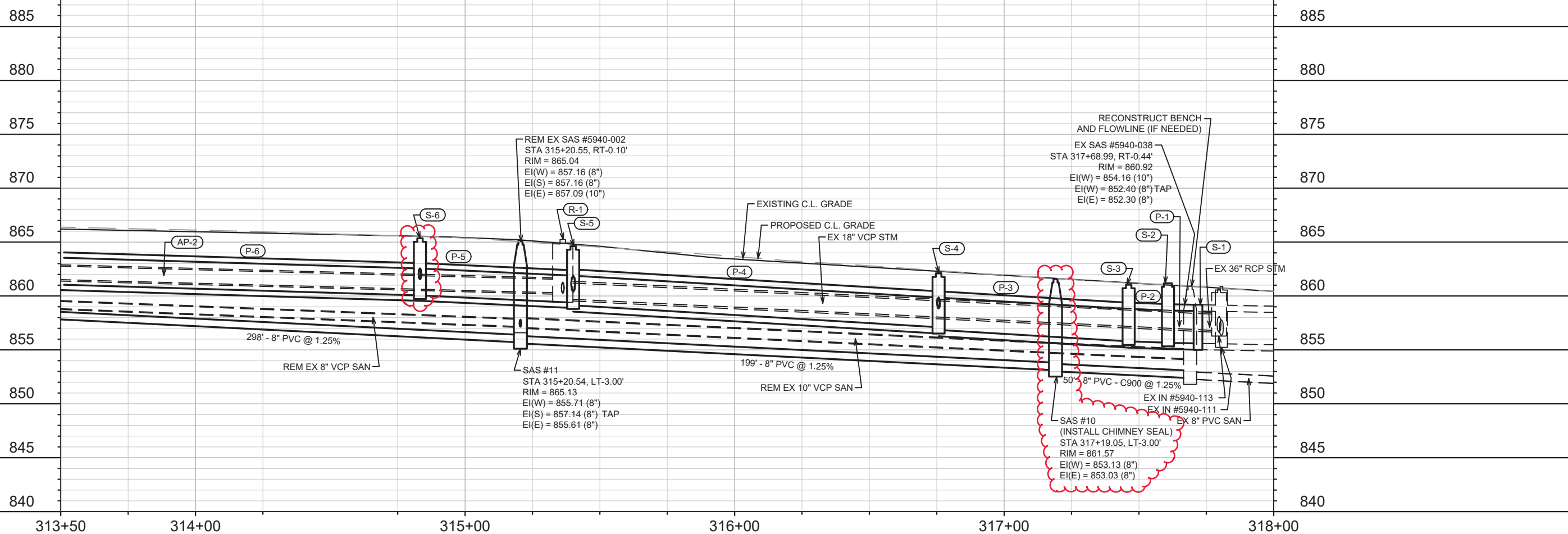
MATCH LINE 313+50.00



NOTE: WHERE SEWER MAINS ARE LABELED C900, MAIN AND LATERALS SHALL CONFORM TO SPECIFICATION OF AWWA C900 PRESSURE PIPE

NOTE: CONTRACTOR SHALL INSTALL 8 L.F. OF STYROFOAM INSULATION AT ALL CROSSINGS OF WATER MAIN OR WATER LATERAL SERVICES AND PROPOSED STORM SEWER

CONTRACTOR SHALL REM & REP SIDEWALK AS NEEDED FOR LATERALS (MAX. OF 4 SW SQUARES PER LATERAL)



DATE	2/10/22	BY	KDF
REVISION	FOR HYDRANTS & STM SWR	DATE	2/10/22
MARK	DESIGNED BY: AUC	DATE	2/14/2022 9:57 AM
SCALE	1" = 40'	U-11	

12907  
 MADISON, WI  
 CONTRACT NO: 8616  
 U-11

LAFOLLETTE AVE - SEWER PLAN & PROFILE  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT

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12907  
 U-11

# SANITARY SEWER SCHEDULE

\*ADDENDUM 2/10/2022 KDF

ST PAUL, OHIO, TALMADGE, JACKSON, & LAFOLLETTE RECON ASSESS DIST - 2022	SHEET NO. U-12
PROJECT NO. 12907 SANITARY SEWER SCHEDULE CITY OF MADISON	

## PROPOSED SANITARY STRUCTURES

SAS NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>TALMADGE STREET</b>						
SAS #1	609+69.11	RT-2.25	861.83	853.87	7.96	[1]
SAS #2	607+12.78	RT-2.25	866.22	856.53	9.69	-
SAS #13	603+54.95	RT-2.50	870.49	862.77	7.72	[1]
* SAS #14	<b>600+79.95</b>	<b>RT-2.50</b>	<b>873.80</b>	<b>865.62</b>	<b>8.18</b>	-
<b>OHIO AVENUE</b>						
SAS #3	514+75.39	RT-3.50	862.68	855.30	7.38	[1]
SAS #4	512+80.24	RT-3.50	868.75	862.23	6.52	-
SAS #15	511+38.96	RT-2.50	871.53	863.09	8.44	-
SAS #16	508+93.96	RT-2.50	873.85	865.40	8.45	-
SAS #17	506+43.96	RT-2.50	876.22	868.00	8.22	-
SAS #25	504+05.73	LT-0.89	875.52	867.51	8.01	-
<b>LAFOLLETTE AVENUE</b>						
* SAS #10	317+19.05	LT-3.00	<b>861.57</b>	853.03	<b>8.54</b>	[1]
SAS #11	315+20.54	LT-3.00	865.13	855.61	9.52	-
SAS #12	312+22.10	LT-3.00	867.68	859.44	8.24	-
<b>ST. PAUL AVENUE</b>						
SAS #18	111+86.42	RT-4.74	874.49	866.52	7.97	-
SAS #19	111+38.49	LT-15.42	875.01	867.92	7.09	-
SAS #20	101+11.48	LT-12.24	869.24	859.42	9.82	[1]
SAS #21	104+01.09	RT-7.55	872.53	864.18	8.35	[1]
SAS #22	104+53.67	RT-14.66	873.36	865.21	8.15	[1]
SAS #23	105+03.61	RT-5.32	874.10	865.56	8.54	-
SAS #24	107+91.93	RT-3.38	874.49	867.10	7.39	[1]

## SANITARY STRUCTURES ADJUSTMENTS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	EX. TOC ELEV.	PROP ELEV.	ADJUST DIFF.	NOTES
<b>LAFOLLETTE AVENUE</b>						
SAS #5840-070	309+19.94	LT-2.98	871.18	870.99	-0.19	-
SAS #5840-071	310+31.73	RT-0.16	869.87	869.85	-0.02	-
<b>ST. PAUL AVENUE</b>						
SAS #5941-017	115+66.42	RT-2.92	869.26	868.89	-0.37	-

## PROPOSED SANITARY PIPES

FROM (DNSTM)	TO (UPSTM)	DWNSTRM E.I.	UPSTRM E.I.	PLAN (PAY) LGTH (FT)	SLOPE (%)	PIPE SIZE	PVC TYPE	NOTES
<b>TALMADGE STREET</b>								
SAS #5840-018	SAS #1	853.67	853.87	50	0.40%	8"	C900	-
SAS #1	SAS #2	853.97	856.53	256	1.00%	8"	SDR-35	-
SAS #12	SAS #13	859.54	862.77	280	1.15%	8"	SDR-35	-
* SAS #13	SAS #14	862.87	<b>865.62</b>	<b>275</b>	1.00%	8"	SDR-35	-
<b>OHIO AVENUE</b>								
SAS #5840-012	SAS #3	853.99	855.30	75	1.75%	8"	C900	-
SAS #3	SAS #4	855.40	862.23	195	3.50%	8"	SDR-35	-
SAS #5840-070	SAS #15	862.82	863.09	55	0.50%	8"	C900	-
SAS #15	SAS #16	863.19	865.40	245	0.90%	8"	SDR-35	-
SAS #16	SAS #17	865.50	868.00	250	1.00%	8"	SDR-35	-
SAS #24	SAS #25	867.20	867.51	62	0.50%	8"	SDR-35	-
<b>LAFOLLETTE AVENUE</b>								
SAS #5940-038	SAS #10	852.40	853.03	50	1.25%	8"	C900	-
SAS #10	SAS #11	853.13	855.61	199	1.25%	8"	SDR-35	-
SAS #11	SAS #12	855.71	859.44	298	1.25%	8"	SDR-35	-
SAS #12	SAS #5840-071	859.54	862.20	190	1.40%	8"	C900	-
<b>ST. PAUL AVENUE</b>								
SAS #5941-017	SAS #18	860.45	866.52	380	1.60%	8"	SDR-35	-
SAS #18	SAS #19	866.62	867.92	52	2.50%	8"	SDR-35	-
SAS #5842-050	SAS #20	858.65	859.42	33	2.32%	8"	SDR-35	-
SAS #20	SAS #21	859.52	864.18	291	1.60%	8"	SDR-35	-
SAS #21	SAS #5841-089	864.28	867.17	39	7.40%	8"	C900	-
SAS #21	SAS #22	864.28	865.21	53	1.75%	8"	SDR-35	-
SAS #22	SAS #23	865.31	865.56	50	0.50%	8"	SDR-35	-
SAS #23	SAS #24	865.66	867.10	288	0.50%	8"	SDR-35	-

## SPECIFIC NOTES

[1] INSTALL INTERNAL CHIMNEY SEAL IN ACCORDANCE WITH S.D.D. 5.7.17

# SANITARY SEWER SCHEDULE

## SANITARY STRUCTURE REMOVALS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>TALMADGE STREET</b>						
SAS #5841-008	600+73.05	RT-0.75	874.19	866.84	7.35	-
SAS #5840-010	603+49.69	RT-0.51	870.87	863.85	7.02	-
SAS #5840-014	606+88.46	LT-0.17	866.82	858.40	8.42	STAND PIPE STRUCTURE
SAS #5840-011	607+53.26	RT-0.06	865.88	858.16	7.72	-
<b>OHIO AVENUE</b>						
SAS #5841-005	506+30.34	RT-0.12	876.45	869.35	7.10	-
SAS #5840-008	508+49.65	LT-0.29	874.39	867.00	7.39	-
SAS #5840-013	512+71.25	RT-0.04	868.93	863.82	5.11	-
<b>LAFOLLETTE AVENUE</b>						
SAS #5840-009	312+20.33	RT-0.36	867.51	860.09	7.42	-
SAS #5940-002	315+20.55	RT-0.10	865.04	857.09	7.95	-
<b>ST. PAUL AVENUE</b>						
SAS #5841-090	104+11.64	LT-4.66	873.32	867.01	6.31	-
SAS #5841-012	108+01.71	LT-9.87	875.33	868.19	7.14	-
SAS #5841-009	111+45.37	LT-10.13	875.03	867.92	7.11	-

## SANITARY STRUCTURE ABANDONMENTS

STRUCTURE ID NO.	STATION	LOCATION (OFFSET)	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>ST. PAUL AVENUE</b>						
SAS #5940-004	115+61.47	LT-9.43	869.40	861.13	8.27	-

## SANITARY PIPES REMOVALS

REMOVE FROM	REMOVE TO	TOTAL LGTH (FT)	PAY LGTH (FT)	PIPE SIZE	PIPE TYPE	NOTES
<b>TALMADGE STREET</b>						
SAS #5840-010	SAS #5841-008	277	0	6"	VCP	[1]
SAS #5840-009	SAS #5840-010	282	0	6"	VCP	[1]
SAS #5840-011	SAS #5840-014	65	20	6"	VCP	[1]
SAS #5840-018	SAS #5840-011	266	0	6"	VCP	[1]
<b>OHIO AVENUE</b>						
SAS #5840-008	SAS #5841-005	220	10	6"	VCP	[1]
SAS #5840-070	SAS #5840-008	345	0	6"	VCP	[1]
SAS #5840-012	SAS #5840-013	280	280	6"	VCP	[1]
<b>LAFOLLETTE AVENUE</b>						
SAS #5840-009	SAS #5840-071	189	0	8"	VCP	[1]
SAS #58940-002	SAS #5840-009	300	300	8"	VCP	[1]
SAS #5940-038	SAS #58940-002	250	200	10"	VCP	[1]
<b>ST. PAUL AVENUE</b>						
SAS #5841-090	SAS #5841-089	23	0	8"	PVC	[1]
SAS #5841-012	SAS #25	45	0	8"	PVC	[1]
SAS #5841-009	SAS #19	8	0	8"	PVC	[1]

## SANITARY PIPES ABANDONMENTS

REMOVE FROM	REMOVE TO	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
<b>ST. PAUL AVENUE</b>						
SAS #5842-050	SAS #5841-090	324	8"	VCP	Y	SLURRY, 4.2 CY
SAS #5841-089	SAS #5841-012	368	6"	VCP	Y	SLURRY, 2.7 CY
SAS #5940-004	SAS #5841-009	411	6"	VCP	Y	SLURRY, 3.0 CY
SAS #5941-017	SAS #5940-004	8	8"	PVC	Y	SLURRY, 0.1 CY

## SPECIFIC NOTES

[1] TRENCH WIDTH WAS ASSUMED TO BE 3FT FROM C.L. OF PROPOSED PIPE WHEN DETERMINING PAY LENGTH





# STORM SEWER SCHEDULE

ST PAUL, OHIO, TALMADGE, JACKSON, & LAFOLLETTE RECON ASSESS DIST - 2022	SHEET NO. U-15
PROJECT NO. 12907 SANITARY SEWER SCHEDULE CITY OF MADISON	

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>OHIO AVENUE</b>							
S-50	515+42.36	RT-6.50	TAP	-	857.42	-	-
S-51	515+18.79	RT-12.14	TERR IN TYPE II	862.36	857.54	4.82	FP, LP, UD
S-52	513+74.09	RT-7.00	3X3 SAS	864.73	860.65	4.08	W/R-1550-0054
S-52A	513+74.09	LT-12.50	H INLET	865.03	861.49	3.54	W/R-3067-7004-V
S-52B	513+74.09	RT-12.50	H INLET	865.03	861.21	3.82	W/R-3067-7004-V
<b>TALMADGE STREET</b>							
S-70	502+62.00	LT-21.00	TAP	-	866.05	-	-
S-71	502+75.00	LT-11.50	H INLET	870.68	866.22	4.46	W/R-3067-7004-V
S-72	502+75.00	RT-1.50	H INLET	870.48	866.29	4.19	W/R-3067-7004-V
S-72A	502+78.94	RT-26.64	H INLET	869.69	866.67	3.02	W/R-3362-L
S-73	502+62.00	LT-21.00	TAP	-	866.05	-	-
S-74	502+41.20	LT-11.50	H INLET	869.89	866.30	3.59	LP, UD, W/R-3067-7004-VB
S-75	502+41.20	RT-1.50	H INLET	869.80	866.62	3.18	LP, UD, W/R-3067-7004-VB
S-76	500+48.73	RT-10.27	BEND	-	870.34	-	[1]
S-77	500+55.97	RT-24.27	H INLET	876.75	870.55	6.20	W/R-3067-7004-V
<b>JACKSON STREET</b>							
S-31	605+97.93	RT-12.50	3X3 SAS	867.56	863.34	4.22	LP, UD, W/R-3067-7004-VB
S-31A	605+97.93	LT-12.50	H INLET	867.56	863.97	3.59	LP, UD, W/R-3067-7004-VB
S-32	605+54.38	RT-6.50	3X3 SAS	868.17	864.25	3.92	W/R-1550-0054
S-33	603+84.05	RT-6.50	3X3 SAS	870.06	866.38	3.68	W/R-1550-0054
S-33A	603+84.05	RT-12.50	H INLET	870.35	866.69	3.66	W/R-3067-7004-V
S-34	603+57.50	LT-12.50	H INLET	870.67	866.96	3.71	W/R-3067-7004-V
S-40	610+11.65	RT-7.67	3X3 SAS	861.57	856.60	4.97	W/R-1550-0054
S-41	610+03.90	RT-7.50	TERR IN TYPE II	861.57	856.68	4.89	FP, LP, UD
S-42	608+16.70	RT-7.00	3X3 SAS	864.04	860.24	3.80	W/R-1550-0054
S-42A	608+16.65	LT-12.50	H INLET	864.34	860.88	3.46	W/R-3067-7004-V
S-42B	608+16.65	RT-12.50	H INLET	864.34	860.60	3.74	W/R-3067-7004-V

## PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
<b>OHIO AVENUE</b>										
P-50	S-50	S-51	857.42	857.54	24.5	19.4	0.62%	24"	RCP	-
P-51	S-51	S-52	858.29	860.65	145	141.5	1.67%	15"	RCP	-
P-52A	S-52	S-52A	861.10	861.49	19.5	17.0	2.29%	12"	RCP	-
P-52B	S-52	S-52B	861.10	861.21	5.5	3.0	3.65%	12"	RCP	-
<b>TALMADGE STREET</b>										
P-70	S-70	S-71	866.05	866.22	17	12.0	1.42%	15"	RCP	-
P-71	S-71	S-72	866.22	866.29	13	11.0	0.64%	15"	RCP	-
P-72A	S-72	S-72A	866.54	866.67	25.5	22.8	0.57%	12"	RCP	-
P-73	S-73	S-74	866.05	866.30	23.5	18.8	1.33%	15"	RCP	-
P-74	S-74	S-75	866.55	866.62	13	11.0	0.64%	12"	RCP	-
P-76	S-76	S-77	870.34	870.55	16	14.1	1.49%	12"	RCP	-
<b>JACKSON STREET</b>										
P-31	S-30	S-31	863.10	863.34	31.5	27.3	0.88%	18"	RCP	-
P-31A	S-31	S-31A	863.84	863.97	25	22.5	0.58%	12"	RCP	-
P-32	S-31	S-32	863.59	864.25	44	41.0	1.61%	15"	RCP	-
P-33	S-32	S-33	864.25	866.38	170.5	167.4	1.27%	15"	RCP	-
P-33A	S-33	S-33A	866.63	866.69	6	3.5	1.71%	12"	RCP	-
P-34	S-33	S-34	866.63	866.96	33	28.9	1.14%	12"	RCP	-
P-40	S-40	S-41	856.60	856.68	8.5	4.6	1.75%	24"	RCP	-
P-41	S-41	S-42	857.43	860.24	187	184.0	1.53%	15"	RCP	-
P-42A	S-42	S-42A	860.49	860.88	19.5	17.0	2.29%	12"	RCP	-
P-42B	S-42	S-42B	860.49	860.60	5.5	3.0	3.65%	12"	RCP	-
P-60	S-60	S-61	862.79	863.05	26	22.6	1.15%	18"	RCP	-
P-61	S-61	S-62	863.05	863.55	66.5	61.5	0.81%	18"	RCP	-
P-61A	S-61	S-61A	863.55	864.27	22	18.2	3.96%	12"	RCP	-
P-61B	S-61A	S-61B	864.27	864.60	13	11.0	2.99%	12"	RCP	-
P-61C	S-61	S-61C	863.55	865.16	24.5	20.3	7.92%	12"	RCP	-
P-61D	S-61C	S-61D	865.16	865.57	14	11.7	3.51%	12"	RCP	-
P-63	S-63	S-64	865.85	866.18	7	5.6	5.87%	12"	RCP	-

**NOTE:** PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

## STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SASs.
- TOP OF CONCRETE ROOF (TR) IS 1.25 BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL REBAR FOR FIELD POUR STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.
- ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3.
- ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT KYLE FRANK OF CITY ENGINEERING AT (608) 266-4098 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO KFRANK@CITYOFMADISON.COM.

## SPECIFIC NOTES:

- [1] INSTALL ELECTRONIC MARKER BALL ABOVE COLLAR OR BEND

# STORM SEWER SCHEDULE

ST PAUL, OHIO, TALMADGE, JACKSON, & LAFOLLETTE RECON ASSESS DIST - 2022	SHEET NO. U-16
PROJECT NO. 12907 SANITARY SEWER SCHEDULE CITY OF MADISON	

## PROPOSED STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>ST. PAUL AVENUE</b>							
S-100	102+30.10	RT-51.74	3X3 SAS	868.24	862.34	5.90	W/ R-1550-0054
S-100A	101+91.77	RT-39.02	COLLAR	-	868.26	-	[3]
S-100B	101+91.05	RT-34.10	H INLET	871.35	866.85	4.50	LP, UD, W/R-3067-7004-VB
S-101	102+62.73	RT-12.00	3X3 SAS	872.82	866.24	6.58	W/R-3067-7004-V
S-101A	102+62.73	LT-12.00	H INLET	873.66	869.76	3.90	W/R-3067-7004-V
S-102	103+47.56	RT-12.00	3X3 SAS	873.15	867.30	5.85	W/R-3067-7004-V
S-102A	103+74.38	LT-12.00	H INLET	873.48	869.92	3.56	LP, UD, W/R-3067-7004-VB
S-103	104+00.10	RT-16.39	3X3 SAS	872.59	867.85	4.74	W/R-3067-7004-V
S-104	104+15.18	RT-5.08	3X3 SAS	872.69	868.04	4.65	W/ R-1550-0054
S-105	105+25.00	RT-10.00	3X6 SAS	874.54	868.42	6.12	[1]
S-105A	105+25.00	LT-12.00	H INLET	874.95	870.82	4.13	W/R-3067-7004-V
S-106	107+48.63	RT-9.00	3X3 SAS	874.20	869.20	5.00	W/ R-1550-0054
S-107	107+63.41	LT-12.00	3X3 SAS	875.07	869.39	5.68	LP, UD, W/R-3067-7004-VB
S-108	107+97.96	LT-13.47	3X3 SAS	874.94	869.65	5.29	W/ R-1550-0054
S-109	108+18.32	LT-39.98	3X3 SAS	875.35	869.80	5.55	W/ R-1550-0054
S-110	108+40.04	LT-34.36	H INLET	875.67	870.93	4.74	LP, UD, W/R-3067-7004-VB
S-111	108+50.65	LT-12.72	H INLET	875.50	871.07	4.43	LP, UD, W/R-3067-7004-VB
S-112	108+50.65	RT-12.00	H INLET	875.46	871.44	4.02	W/R-3067-7004-V
S-200	117+10.55	RT-20.50	TAP	-	862.15	-	-
S-201	116+67.38	RT-10.00	3X6 SAS	867.43	862.93	4.50	[1], FP
S-201A	116+67.38	LT-12.00	H INLET	867.43	863.68	3.75	W/R-3067-7004-V
S-202	115+13.19	RT-10.00	3X6 SAS	869.96	865.63	4.33	[1], FP
S-202A	115+13.19	LT-12.00	H INLET	969.96	866.48	103.48	W/R-3067-7004-V
S-203	113+38.98	RT-10.00	3X6 SAS	872.38	868.06	4.32	[1], FP
S-203A	113+38.98	LT-12.00	H INLET	872.38	868.67	3.71	W/R-3067-7004-V
S-204	111+72.74	RT-10.00	3X6 SAS	874.82	870.72	4.10	[1], FP
S-205	111+72.74	LT-12.00	H INLET	874.82	870.89	3.93	W/R-3067-7004-V
S-206	111+17.53	LT-39.17	H INLET	875.24	871.60	3.64	FP, W/R-3067-7004-V
S-207	110+82.14	LT-15.56	H INLET	875.18	871.81	3.37	FP, LP, UD, W/R-3067-7004-VB
S-208	110+75.00	RT-12.00	H INLET	875.38	872.20	3.18	LP, UD, W/R-3067-7004-VB

## PROPOSED STORM PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	DISCH. E.I.	INLET E.I.	PLAN (PAY) LGTH (FT)	PIPE LGTH (FT)	SLOPE (%)	PIPE SIZE	TYPE	NOTES
<b>ST. PAUL AVENUE</b>										
P-100	S-100	S-101	862.34	866.24	51.5	47.6	8.19%	24"	RCP	-
P-100A	S-100A	S-100B	866.81	866.85	5	3.7	1.07%	12"	RCP	-
P-101	S-101	S-102	866.24	867.30	85	81.9	1.29%	24"	RCP	-
P-101A	S-101	S-101A	867.24	869.76	24	21.6	11.65%	12"	RCP	-
P-102	S-102	S-103	867.30	867.85	54.5	51.2	1.07%	24"	RCP	-
P-102A	S-102	S-102A	868.30	869.92	36	32.3	5.01%	12"	RCP	-
P-103	S-103	S-104	867.85	868.04	19	15.8	1.20%	24"	RCP	-
P-104	S-104	S-105	868.04	868.42	109	103.6	0.37%	21"	RCP	-
P-105	S-105	S-106	868.42	869.20	223.5	219.1	0.36%	21"	RCP	-
P-105A	S-105	S-105A	869.17	870.82	22	19.6	8.42%	12"	RCP	-
P-106	S-106	S-107	869.20	869.39	25.5	21.9	0.87%	21"	RCP	-
P-107	S-107	S-108	869.39	869.65	34.5	31.1	0.84%	21"	RCP	-
P-109	S-109	S-110	870.30	870.93	22.5	19.9	3.17%	15"	RCP	-
P-110	S-110	S-111	870.93	871.07	24	21.2	0.66%	15"	RCP	-
P-111	S-111	S-112	871.32	871.44	25	23.2	0.52%	12"	RCP	-
P-200	S-200	S-201	862.15	862.93	44.5	37.8	2.07%	21"	RCP	-
P-201	S-201	S-202	862.93	865.63	154	148.2	1.82%	21"	RCP	-
P-201A	S-201	S-201A	863.68	863.68	22	19.5	0.00%	12"	RCP	-
P-202	S-202	S-203	865.88	868.06	174	168.2	1.30%	18"	RCP	-
P-202A	S-202	S-202A	866.38	866.48	22	19.5	0.51%	12"	RCP	-
P-203	S-203	S-204	868.06	870.72	166	160.3	1.66%	18"	RCP	-
P-203A	S-203	S-203A	868.56	868.67	22	19.5	0.56%	12"	RCP	-
P-204	S-204	S-205	870.72	870.89	22	19.5	0.87%	18"	RCP	-
P-205	S-205	S-206	871.14	871.60	61.5	58.7	0.78%	15"	RCP	-
P-206	S-206	S-207	871.60	871.81	42.5	39.8	0.53%	15"	RCP	-
P-207	S-207	S-208	872.06	872.20	28.5	25.6	0.55%	12"	RCP	-

## STORM STRUCTURE ADJUSTMENTS

ADJUST NO.	STATION	LOCATION (OFFSET)	TYPE	EX. TOC ELEV.	ADJUST ELEV.	ADJUST DIFF.	NOTES
ADJ-1	309+49.39	LT-8.97	SAS	870.69	870.73	0.04	-
ADJ-70	502+62.02	LT-21.00	RECONSTRUCT	870.1	870.34	0.24	[2]

**NOTE:** PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL LENGTH OF PIPE FROM STRUCTURE WALL TO STRUCTURE WALL. SLOPE CALCULATED USING PIPE LENGTH.

## STANDARD NOTES:

- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES; UD = UNDERDRAIN
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SASs.
- TOP OF CONCRETE ROOF (TR) IS 1.25 BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL REBAR FOR FIELD POUR STRUCTURES SHALL BE EPOXY COATED. ANY EXPOSED STEEL SHALL BE TOUCHED UP OR RECOATED PRIOR TO USE.
- ALL FIELD POURED SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.3.
- ALL PRECAST SAS STORM STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DETAIL DRAWING 5.7.5.
- ALL STRUCTURES CALLED OUT AS FIELD POURED SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT KYLE FRANK OF CITY ENGINEERING AT (608) 266-4098 FOR PRECAST APPROVALS, FAX SHOP DRAWINGS TO (608)264-9275, OR EMAIL SHOP DRAWINGS TO KFRANK@CITYOFMADISON.COM.

## SPECIFIC NOTES:

- [1] OFFSET PIPES COMING INTO STRUCTURE BY 2' FROM CENTER, AWAY FROM CURB. STRUCTURE SHALL HAVE ONE R-3067-7004-VB AND ONE R-1550-0054
- [2] RECONSTRUCT CATCHBASIN PER BID ITEM 90031
- [3] INSTALL ELECTRONIC MARKER BALL ABOVE COLLAR OR BEND

# STORM SEWER SCHEDULE

## REMOVE STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>LAFOLLETTE AVENUE</b>							
R-1	315+36.26	LT-16.99	CATCHBASIN	865.24	859.74	5.50	-
R-1A	315+39.73	RT-21.30	INLET	865.41	862.69	2.72	-
R-1B	314+99.38	RT-21.43	INLET	866.00	862.98	3.02	-
R-1C	315+00.58	LT-20.72	INLET	865.21	862.71	2.50	-
R-2	312+40.24	LT-18.81	CATCHBASIN	867.31	862.24	5.07	[2]
R-2A	312+37.87	RT-16.57	INLET	867.10	864.10	3.00	-
R-2B	312+03.12	RT-18.08	INLET	867.33	864.77	2.56	-
R-2C	312+02.20	LT-17.15	INLET	867.12	864.14	2.98	[1]
R-3	309+52.73	LT-17.69	CATCHBASIN	871.40	865.72	5.68	-
R-4	309+39.24	RT-19.85	INLET	871.15	868.09	3.06	-
<b>TALMADGE STREET</b>							
R-40	610+11.73	RT-4.42	CATCHBASIN	861.44	856.61	4.83	-
R-41	610+02.41	LT-0.53	INLET	861.08	857.59	3.49	[1]
<b>OHIO AVENUE</b>							
R-50	515+13.26	RT-8.17	INLET	862.04	859.13	2.91	[1]
R-51	515+12.71	LT-9.08	INLET	862.10	858.81	3.29	[1]
R-70	502+62.34	LT-18.42	INLET	871.00	869.40	1.60	[1]
R-71	502+73.26	RT-10.39	INLET	870.66	869.74	0.92	[1]
R-72	502+41.71	LT-21.32	SAS	869.99	866.22	3.77	-
R-73	502+49.60	RT-11.02	INLET	870.14	866.39	3.75	-
R-74	500+57.80	RT-13.36	INLET	876.46	870.47	5.99	-
<b>JACKSON STREET</b>							
R-60	401+25.61	LT-18.65	CATCHBASIN	868.25	863.05	5.20	-
R-61	401+26.28	LT-14.25	INLET	868.65	864.20	4.45	[1]
R-62	401+48.86	RT-14.91	INLET	868.91	864.60	4.31	[1]
R-63	400+70.20	RT-22.60	INLET	870.24	866.40	3.84	-
<b>ST. PAUL AVENUE</b>							
R-100	103+84.09	RT-15.82	CATCHBASIN	872.12	867.05	5.07	-
R-100A	103+75.77	LT-13.07	INLET	873.42	870.11	3.31	-
R-101	104+15.18	RT-5.08	SAS	872.93	869.09	3.84	-
R-102	104+17.82	RT-20.78	INLET	872.23	870.23	2.00	[1]
R-103	107+84.36	RT-24.43	CATCHBASIN	873.67	868.52	5.15	-
R-103A	107+66.51	LT-12.30	INLET	875.97	869.05	6.92	-
R-104	107+85.49	RT-3.99	SAS	875.08	869.55	5.53	-
R-105	108+43.83	LT-22.04	INLET	875.52	871.95	3.57	-
R-106	600+12.11	RT-36.04	INLET	871.43	866.81	4.62	-
R-200	115+59.27	RT-14.03	INLET	869.07	866.29	2.78	-
R-201	115+48.85	LT-16.75	INLET	869.53	866.45	3.08	-
R-202	111+52.04	LT-16.52	SAS	874.84	871.16	3.68	-
R-203	110+81.67	LT-40.75	INLET	875.29	872.14	3.15	-

## ABANDON STORM STRUCTURES

STRUC. NO.	STATION	LOCATION (OFFSET)	TYPE	TOP OF CASTING	E.I.	DEPTH	NOTES
<b>ST. PAUL AVENUE</b>							
AB-200	115+60.49	RT-17.24	CATCHBASIN	869.40	864.27	5.13	-
AB-201	111+62.67	RT-16.50	CATCHBASIN	874.92	869.68	5.24	-
AB-203	111+37.39	LT-35.14	INLET	875.08	871.31	3.77	-

## REMOVE STORM PIPES

REMOVE NO.	REMOVE FROM	REMOVE TO	LGTH (FT)	PAY LGTH (FT)	PIPE SIZE	PIPE TYPE	NOTES
<b>LAFOLLETTE AVENUE</b>							
RP-1	R-1	PLUG	38	38	15"	VCP	-
RP-1A	R-1A	R-1	36	0	12"	VCP	-
RP-1B	R-1B	R-1	49	27	12"	VCP	-
RP-1C	R-1C	R-1	31	31	12"	VCP	-
RP-2	R-2	PLUG	39	39	12"	VCP	-
RP-2A	R-2A	R-2	32	32	12"	VCP	-
RP-2B	R-2B	R-2	48	20	12"	VCP	-
RP-2C	R-2C	R-2	33	33	12"	VCP	-
RP-3	R-3	ADJ-1	4	0	24"	RCP	-
RP-4	R-4	R-3	36	0	12"	VCP	-
<b>TALMADGE STREET</b>							
RP-40	R-40	AS #5840-022	7	7	12"	VCP	-
<b>OHIO AVENUE</b>							
RP-50	R-50	AS #5840-024	26	0	12"	VCP	-
RP-70	R-70	R-71	29	29	12"	VCP	-
RP-72	R-72	ADJ-70	16	16	12"	VCP	-
RP-73	R-72	R-73	30	30	12"	VCP	-
RP-74	R-74	S-76	9	9	12"	VCP	-
<b>JACKSON STREET</b>							
RP-60	R-60	IN #5842-042	21	0	18"	VCP	-
RP-61	AS #5841-039	R-60	61	0	12"	VCP	-
RP-63	R-63	S-63	11	5	12"	VCP	-
<b>ST. PAUL AVENUE</b>							
RP-100	R-100	R-60	53	53	12"	VCP	-
RP-100A	R-100A	R-100	25	25	12"	VCP	-
RP-101	R-101	R-100	30	20	24"	RCP	-
RP-103	R-103	ADJ-70	59	44	12"	VCP	-
RP-103A	R-103	R-103A	37	37	12"	VCP	-
RP-104	R-104	R-103	15	15	21"	RCP	-
RP-105	R-105	R-104	61	61	12"	VCP	-
RP-106	S-108	R-104	17	17	21"	RCP	-
RP-200	R-201	AB-200	32	32	12"	VCP	-
RP-201	R-202	AB-201	30	30	15"	RCP	-
RP-202	R-203	AB-203	53	25	12"	VCP	-

## STORM SEWER ABANDONMENTS

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	LGTH (FT)	PIPE SIZE	PIPE TYPE	PAID (Y/N)	NOTES
<b>LAFOLLETTE AVENUE</b>							
AP-1	R-1	IN #5940-113	250	18"	VCP	Y	6 - PIPE PLUGS PAID
AP-2	R-2	R-1	289	15"	VCP	Y	6 - PIPE PLUGS PAID
AP-3	R-3	R-2	240	12"	VCP	Y	6 - PIPE PLUGS PAID
<b>OHIO AVENUE</b>							
AP-50	R-51	AS #5840-024	29	12"	VCP	Y	2 - PIPE PLUGS PAID
<b>ST. PAUL AVENUE</b>							
AP-200	AB-200	AS #5940-031	143	12"	VCP	Y	2 - PIPE PLUGS PAID
AP-201	AB-201	AB-200	391	12"	VCP	Y	2 - PIPE PLUGS PAID
AP-202	AB-203	R-202	21	12"	VCP	Y	4 - PIPE PLUGS PAID

## SPECIFIC NOTES

- [1] INLET IS A TUB INLET AND PIPE INVERT IS ESTIMATED  
[2] OLD CAST IRON UTILITY LOCATED WITHIN STRUCTION, CONTRACTOR SHOULD TAKE CAUTION WHEN REMOVING

# STORM SEWER SCHEDULE

## STORM SEWER ULOs (5 ADDITIONAL INDISTRIBUTED ULOs INCLUDED)

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
<b>LAFOLLETTE AVENUE</b>					
ULO1	317+55.17	RT-4.80	WATER	-	-
ULO2	317+28.25	LT-9.00	ELECTRIC	-	-
ULO3	316+75.67	RT-5.23	WATER	-	-
ULO4	315+37.36	RT-5.31	WATER	-	-
ULO5	315+14.19	RT-34.67	WATER	-	-
ULO6	314+83.27	RT-5.18	WATER	-	-
ULO7	313+48.97	RT-5.07	WATER	-	-
ULO8	312+55.87	RT-4.96	WATER	-	-
ULO9	312+45.85	LT-9.00	FIBER OPTIC	-	-
ULO10	312+14.11	LT-9.00	WATER	-	-
ULO11	311+85.36	RT-5.45	WATER	-	-
ULO12	310+81.66	RT-6.29	WATER	-	-
ULO13	309+97.50	LT-8.98	GAS	-	-
ULO14	309+44.05	RT-4.77	WATER	-	-
<b>OHIO AVENUE</b>					
ULO15	511+67.41	RT-17.60	FIBER OPTIC	-	-
ULO16	511+44.81	RT-10.53	GAS	-	-
ULO17	509+95.83	LT-7.17	WATER	-	-
ULO18	508+75.00	LT-5.15	WATER	-	-
ULO19	507+93.34	LT-5.30	WATER	-	-
ULO50	513+74.09	LT-5.20	WATER	-	-
ULO70	500+52.46	RT-17.49	TELE & ELEC	-	-
ULO71	502+46.60	LT-14.36	FIBER OPTIC	-	-
ULO72	502+75.05	LT-13.00	ELECTRIC	-	-
<b>TALMADGE STREET</b>					
ULO30	606+10.24	RT-26.75	FIBER OPTIC	-	-
ULO31	605+97.93	LT-4.86	WATER	-	-
ULO32	603+67.31	LT-5.48	WATER	-	-
ULO40	608+16.65	LT-5.71	WATER	-	-
<b>JACKSON STREET</b>					
ULO60	400+61.18	RT-23.22	TELE & ELEC	-	-
ULO61	401+24.06	LT-14.12	TELECOM	-	-
<b>ST. PAUL AVENUE</b>					
ULO100	102+62.73	LT-5.33	WATER	-	-
ULO101	103+64.35	LT-3.03	WATER	-	-
ULO102	105+25.00	LT-2.70	WATER	-	-
ULO103	107+57.22	LT-2.80	WATER	-	-
ULO104	108+58.47	LT-4.34	WATER	-	-
ULO200	116+67.38	LT-4.80	WATER	-	-
ULO201	115+13.19	LT-4.60	WATER	-	-
ULO202	113+38.98	LT-4.47	WATER	-	-
ULO203	111+72.74	LT-4.28	WATER	-	-
ULO204	110+79.17	LT-4.09	WATER	-	-
ULO205	110+96.96	LT-25.45	WATER	-	-

## SANITARY SEWER ULOs

ULO NO.	STATION	LOCATION (OFFSET)	TYPE	TOP ELEV.	NOTES
<b>ST. PAUL AVENUE</b>					
ULO105	100+95.39	LT-25.05	WATER	-	-
ULO106	107+97.75	LT-4.29	WATER	-	-

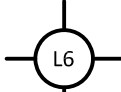
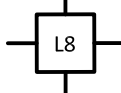

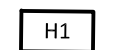
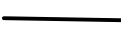
## SPECIFIC NOTES

ELECTRIC NOTES:

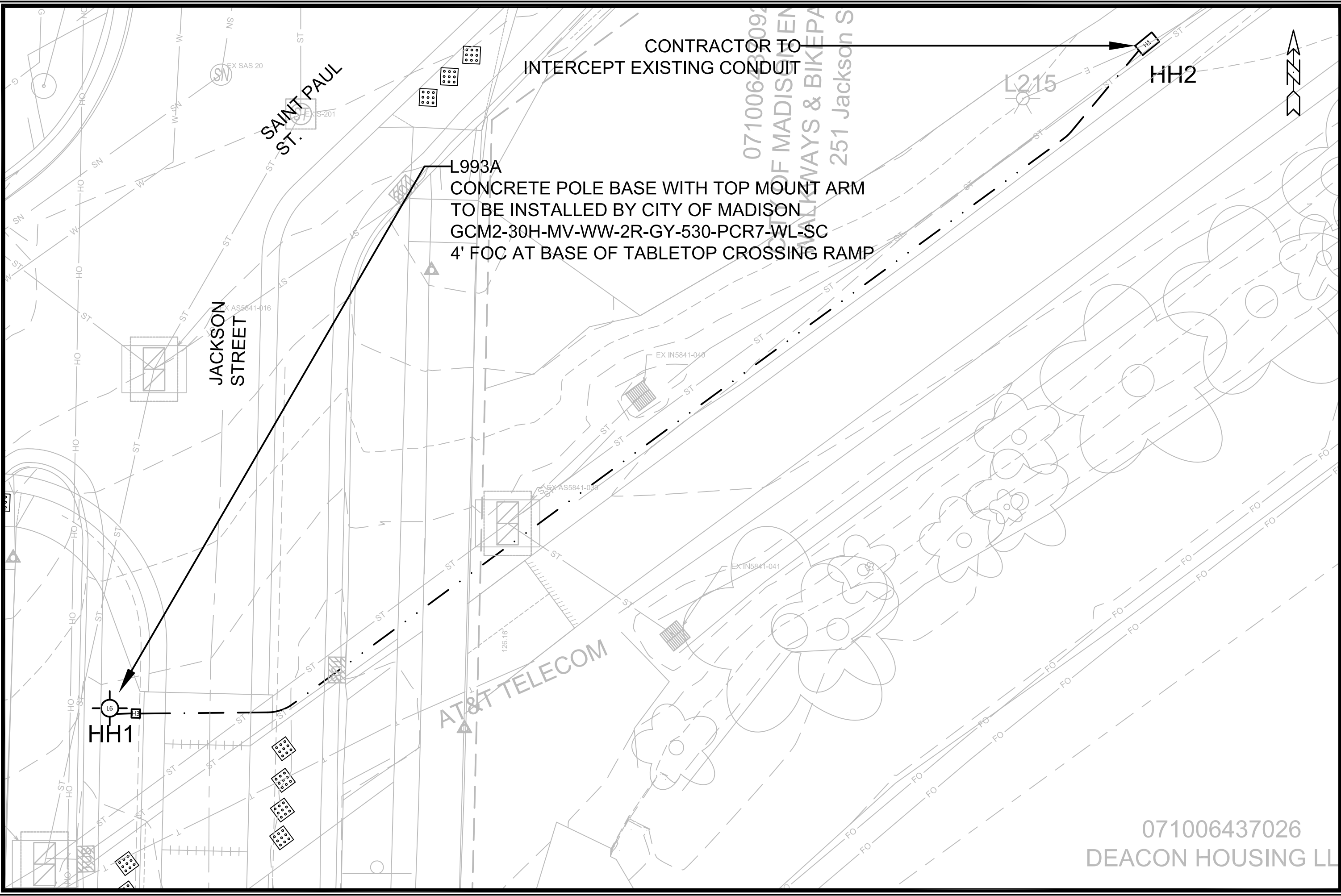


1. ALL LOCATIONS ARE APPROXIMATE, THE TRAFFIC ENGINEER SHALL APPROVE FINAL LOCATIONS, INCLUDING SETBACK IN THE FIELD AFTER CONTRACTOR SURVEYS STAKING. THE CONTRACTOR SHALL NOTIFY JERRY SCHIPPA (608) 267-1969 CITY TRAFFIC ENGINEERING, AT LEAST 24-HRS IN ADVANCE OF NEEDING CONDUIT OR BASE LOCATIONS MARKED.
2. THE CONTRACTOR SHALL DO ALL WORK IN ACCORDANCE WITH THE "CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2022 EDITION" AND ALL ADDENDUMS THERETO.
3. ALL CONDUIT SHALL BE 2-INCH SCHEDULE 80 BENEATH PAVEMENT OR 2-INCH SCHEDULE 40 UNLESS SPECIFIED OTHERWISE. PULL WIRE REQUIRED AS PER STANDARD SPECIFICATIONS.
4. THE CONTRACTOR SHALL CALL MIKE BENZSCHAWEL (608) 266-9031 AT THE TRAFFIC ENGINEERING SHOP AT LEAST 24-HRS IN ADVANCE OF PLACING CONCRETE INSTALLING BASES, INSTALLING HANDHOLES, OR BURYING CONDUIT FOR INSPECTION.
5. ANY WORK COMPLETED WITHOUT INSPECTION IS SUBJECT TO REJECTION.
6. EXISTING STREET LIGHTS SHALL BE IN SERVICE EVERY NIGHT
7. THE CITY OF MADISON WILL INSTALL CONCRETE STREET LIGHT POLES AND CONDUIT BETWEEN THE STREET LIGHTS L993 TO HH1, AND L994 TO HH4.
8. MADISON GAS AND ELECTRIC TO INSTALL NEW WOOD POLE, 6-FT ARM, FIXTURE, AND NECESSARY OVERHEAD WIRES AT ST. PAUL & BASHFORD.
9. NOTIFY MIKE BENZSCHAWEL (608) 266-9031 24-HRS PRIOR TO PLACING HANDHOLE HH5 TO COORDINATE THE INSTALLATION OF TS2 (SEE SHEET E-4).
10. CONTACT ED SMITH AT THE TRAFFIC ENGINEERING SHOP (608) 266-9034 TO COORDINATE THE PICK-UP THE FOLLOWING ANCHOR BOLTS:
  - 10.1. (8) 1 1/4" x 48" ANCHOR BOLTS

LEGEND

-  CONCRETE STREET LIGHT POLE (INSTALLED BY CITY)
-  INSTALL LB-8 BASE
-  FURNISH & INSTALL TYPE III HANDHOLE
-  FURNISH & INSTALL TYPE I HANDHOLE
-  2-INCH, PVC CONDUIT (UNLESS OTHERWISE NOTED)

12907	JACKSON & CAPITAL CITY PATH	JACKSON & CAPITAL CITY PATH	12907
MARK	ST. PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCTION	MADISON, WI	12907
REVISION	CONTRACT NO:	8616	E-1
DATE	M:\DESIGN\Projects\12907\CAD\Traffic\12907TE-Electrical_recover.dwg		
BY			

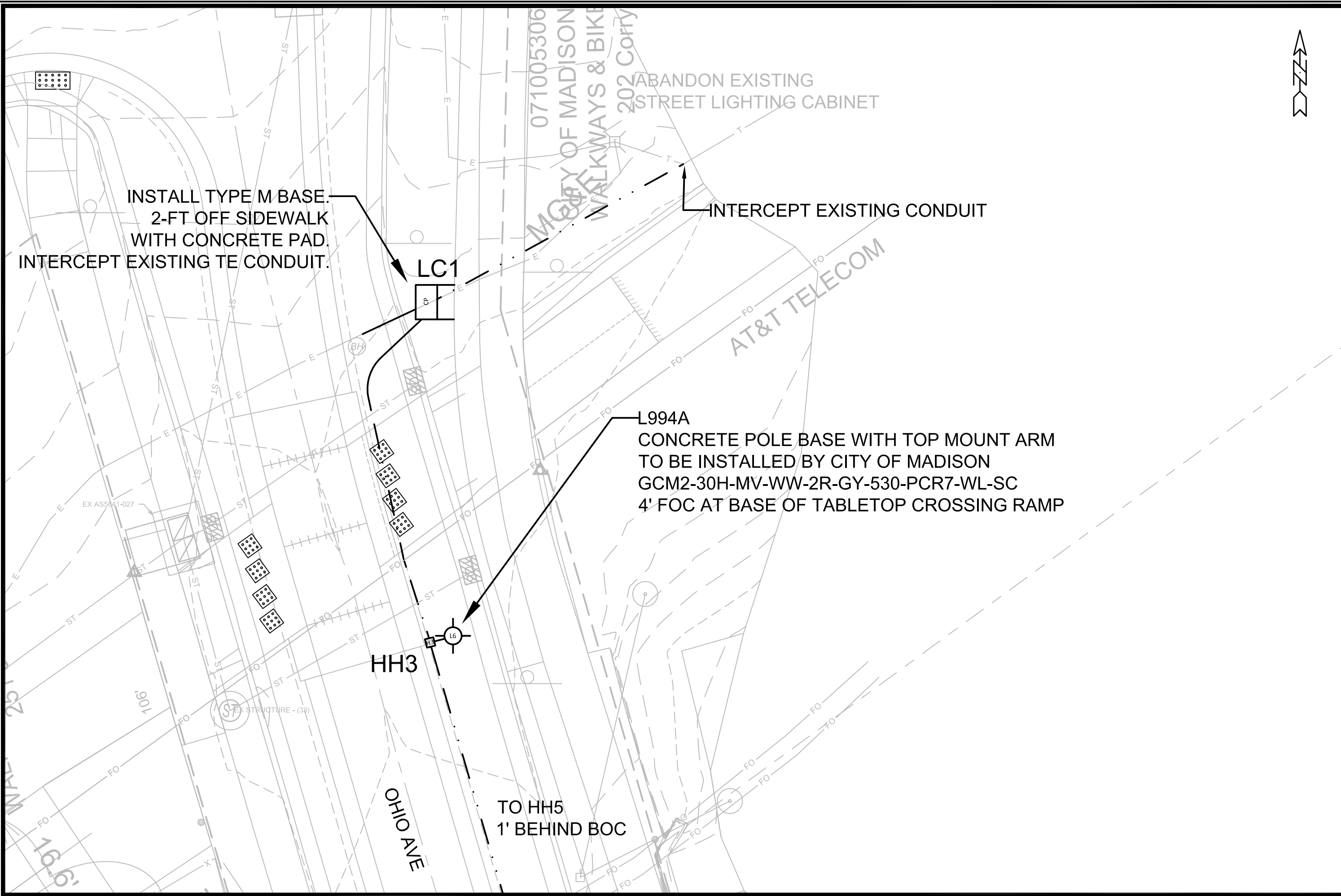


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JACKSON & CAPITAL CITY PATH  
ST. PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCTION, WI  
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12907  
8616  
CONTRACT NO:

12907  
E-2



INSTALL TYPE M BASE.  
2-FT OFF SIDEWALK  
WITH CONCRETE PAD.  
INTERCEPT EXISTING TE CONDUIT.

LC1

INTERCEPT EXISTING CONDUIT

L994A  
CONCRETE POLE BASE WITH TOP MOUNT ARM  
TO BE INSTALLED BY CITY OF MADISON  
GCM2-30H-MV-WW-2R-GY-530-PCR7-WL-SC  
4' FOC AT BASE OF TABLETOP CROSSING RAMP

HH3

TO HH5  
1' BEHIND BOC

OHIO AVE

ABANDON EXISTING  
STREET LIGHTING CABINET

071005306  
CITY OF MADISON  
WALKWAYS & BIKE

AT&T TELECOM



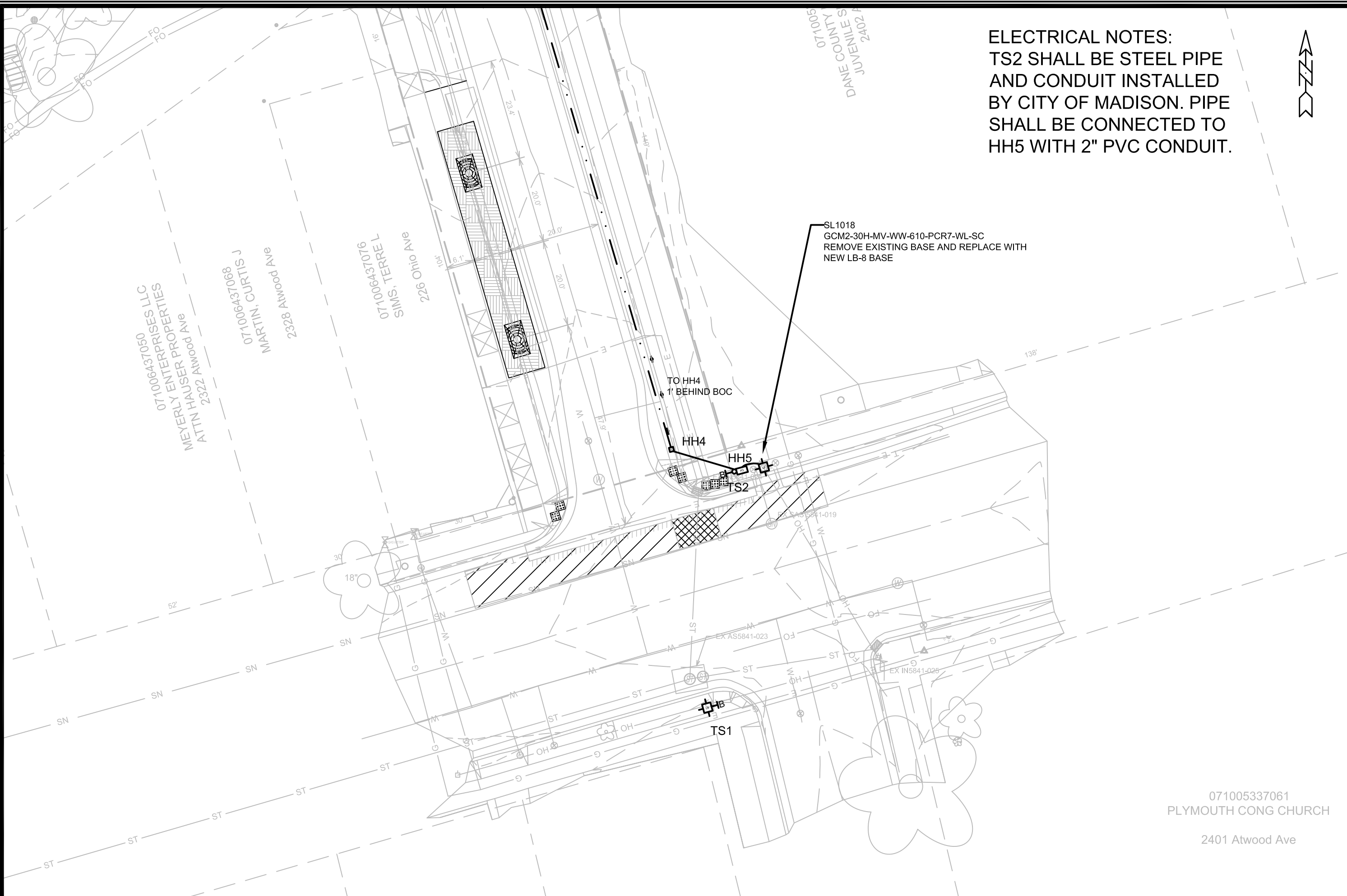
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Designed By: JLS Date: 2/17/2022 2:46 PM  
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Scale: 1" = 10'  
E-3

OHIO & CAPITAL CITY PATH  
ST. PAUL, OHIO, TALMADGE, JACKSON & LAFOLLETTE RECONSTRUCTION MADISON, WI  
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12907  
CONTRACT NO: 8616



12907  
E-3



ELECTRICAL NOTES:  
 TS2 SHALL BE STEEL PIPE  
 AND CONDUIT INSTALLED  
 BY CITY OF MADISON. PIPE  
 SHALL BE CONNECTED TO  
 HH5 WITH 2" PVC CONDUIT.



SL1018  
 GCM2-30H-MV-WW-610-PCR7-WL-SC  
 REMOVE EXISTING BASE AND REPLACE WITH  
 NEW LB-8 BASE

TO HH4  
 1' BEHIND BOC

HH4

HH5

TS2

TS1

071006437050  
 MEYERLY ENTERPRISES LLC  
 ATTN HAUSER PROPERTIES  
 2322 Atwood Ave

071006437068  
 MARTIN, CURTIS J  
 2328 Atwood Ave

071006437076  
 SINS, TERRE L  
 2226 Ohio Ave

D'ARNOVILLE S  
 JUVENILE S  
 2402 F  
 900170

071005337061  
 PLYMOUTH CONG CHURCH  
 2401 Atwood Ave

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12907			

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 Date: 2/7/2022 2:47 PM  
 Scale: 1" = 20'  
 E-4

12907	ATWOOD & OHIO
8616	ST. PAUL, OHIO, TALMADGE, JACKSON & LAFOLLETTE RECONSTRUCTION MADISON, WI
	CONTRACT NO:

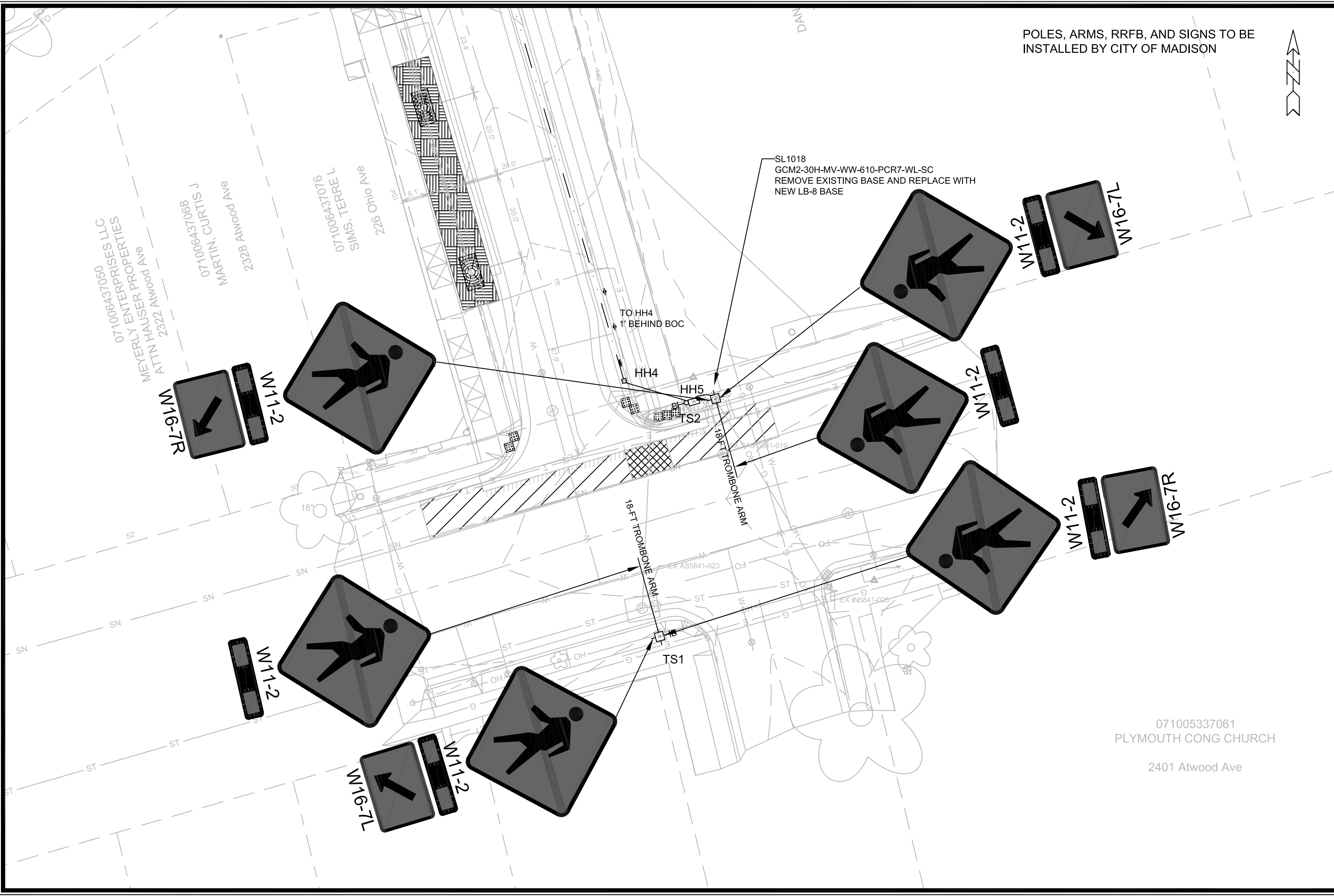


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 E-4

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POLES, ARMS, RRFB, AND SIGNS TO BE  
INSTALLED BY CITY OF MADISON



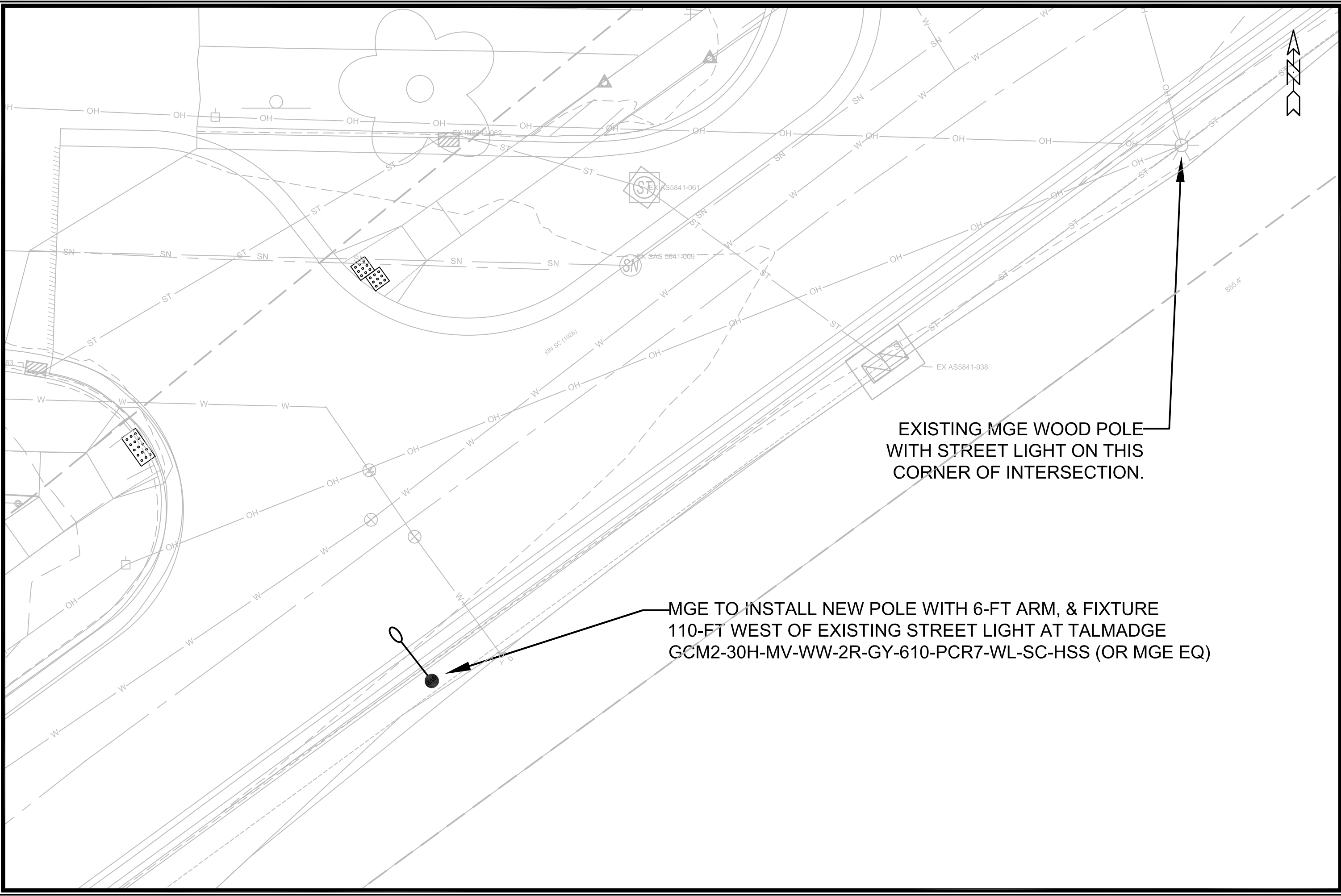
SL1018  
GCM2-30H-MV-WW-610-PCR7-WL-SC  
REMOVE EXISTING BASE AND REPLACE WITH  
NEW LB-8 BASE

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Scale: 1" = 20'  
12907  
E-5

12907  
ATWOOD & OHIO RRFB  
ST. PAUL, OHIO, TALMADGE, JACKSON & LAFOLLETTE RECONSTRUCTION MADISON, WI  
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CONTRACT NO: 8616

12907  
E-5



EXISTING MGE WOOD POLE WITH STREET LIGHT ON THIS CORNER OF INTERSECTION.

MGE TO INSTALL NEW POLE WITH 6-FT ARM, & FIXTURE 110-FT WEST OF EXISTING STREET LIGHT AT TALMADGE GCM2-30H-MV-WW-2R-GY-610-PCR7-WL-SC-HSS (OR MGE EQ)

NO.	DATE	BY
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12907  
 BASHFORD & ST. PAUL  
 ST. PAUL, OHIO, TALMADGE, JACKSON & LAFOLLETTE RECONSTRUCTION MADISON, WI  
 CONTRACT NO: 8616

DESIGNED BY: JLS  
 DATE: 2/17/2022 3:01 PM  
 SCALE: 1" = 10'  
 E-6




STRUCTURE	CONSTRUCT BASE			REMOVE	NOTES
	60413 TYPE "P" BASE	60407 LB-8 (EA)	60409 OFFSET BASE (EA)	60423 STREET LIGHT BASE (EA)	
L993	-	-	-	-	
L994	-	-	-	-	
SL1018	-	1	-	-	
TS1	-	1	-	-	
MISC	-	-	1	-	
LC1	1	-	-	-	
EXISTING SL SERVICE	-	-	-	1	Cabinet to be removed by City
<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	

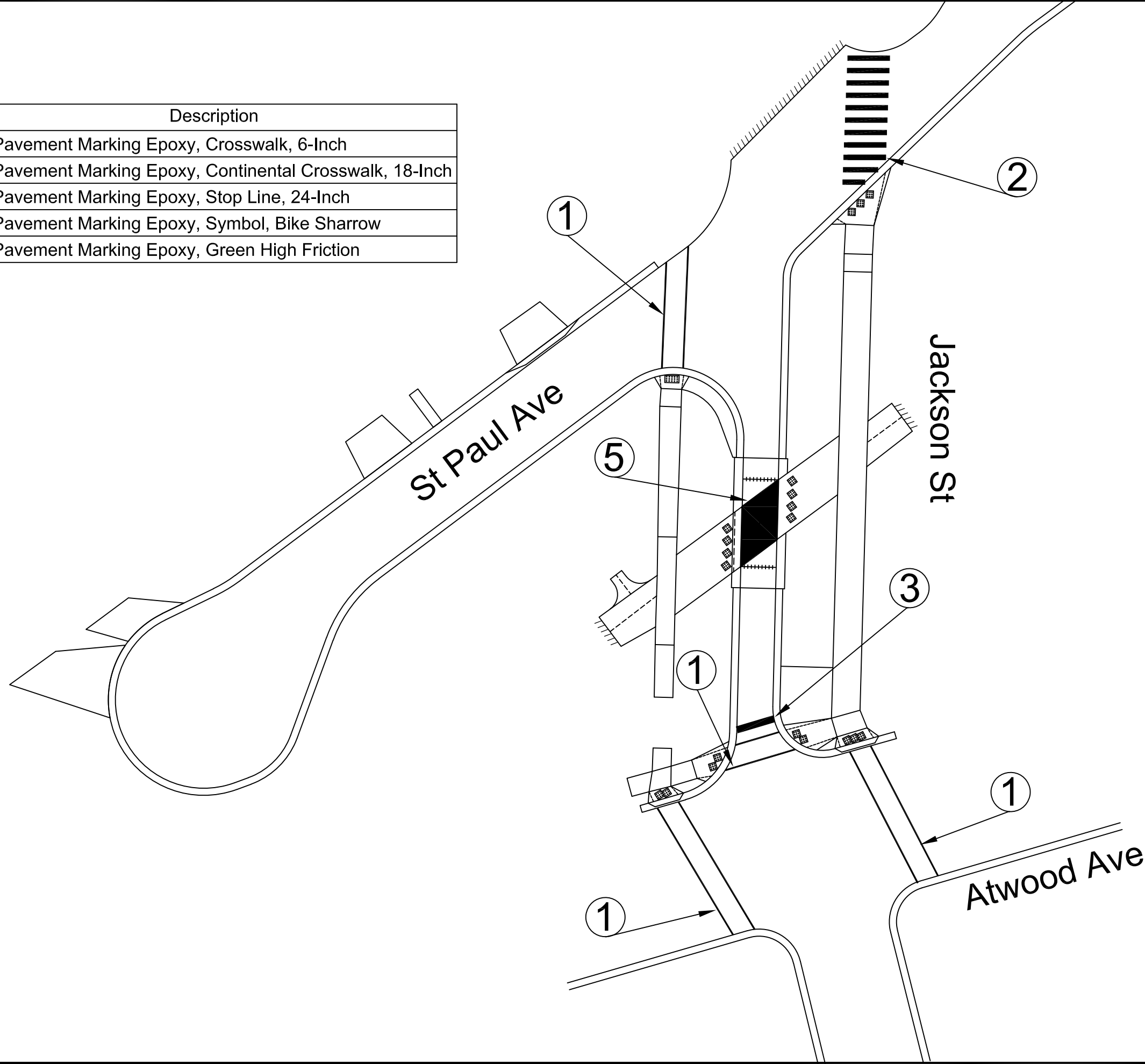
STRUCTURE	CONSTRUCT ELECTRICAL HANDHOLE		NOTES
	60702 TYPE I (EA)	60704 TYPE III (EA)	
HH1	-	1	
HH2	1	-	
HH3	-	1	
HH4	-	1	
HH5	1	-	
<b>TOTAL</b>	<b>2</b>	<b>3</b>	



FROM STRUCTURE	TO STRUCTURE	60230	60232	60261	NOTES
		2 INCH PVC (SCHEDULE 80) (LF)	2 INCH PVC (SCHEDULE 40) (LF)	ELECTRICAL TRENCH (LF)	
L993	HH1	-	-	-	INSTALLED BY CITY OF MADISON
HH1	HH2	25	123	148	
LC1	EXISTING	-	33	17	
LC1	HH3	-	43	43	
HH3	L994	-	-	-	
HH3	HH4	-	180	180	INSTALLED BY CITY OF MADISON
HH3	SL1018	-	17	17	
SL1018	HH5	-	6	6	
<b>TOTALS</b>		<b>25</b>	<b>402</b>	<b>411</b>	

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MISC. QUANTITIES					ST. PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCTIONMADISON, WI				
M:\DESIGN\Projects\12907\CAD\Traffic\12907TE-Electrical_recover.dwg									
CONTRACT NO:					8616				
									
12907									
E-7									

Callout	Description
1	Pavement Marking Epoxy, Crosswalk, 6-Inch
2	Pavement Marking Epoxy, Continental Crosswalk, 18-Inch
3	Pavement Marking Epoxy, Stop Line, 24-Inch
4	Pavement Marking Epoxy, Symbol, Bike Sharrow
5	Pavement Marking Epoxy, Green High Friction



PAVEMENT MARKING PLAN

12907

ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI

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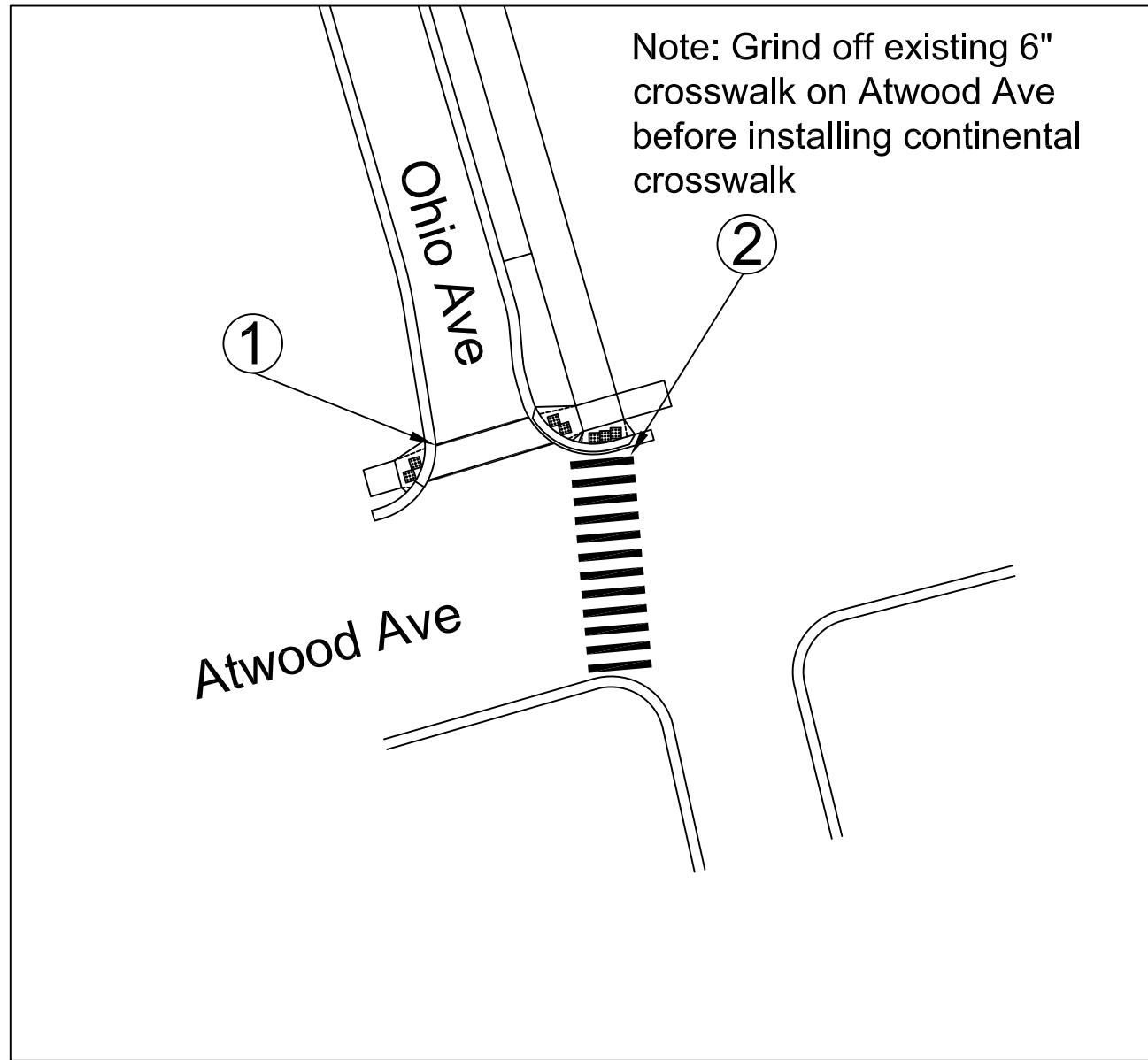
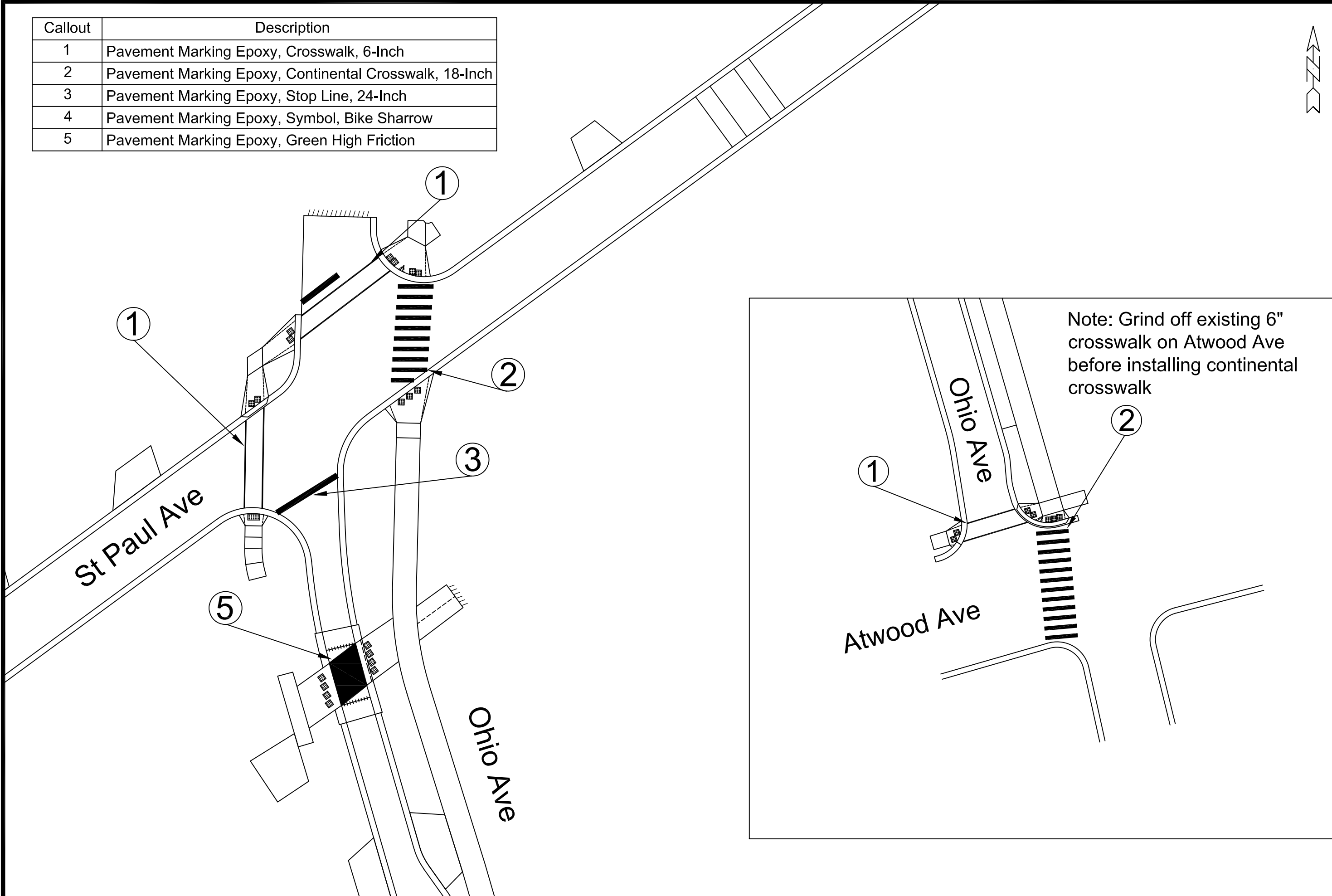


12907

PM-1

MARK	REVISION	DATE	BY
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Callout	Description
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2	Pavement Marking Epoxy, Continental Crosswalk, 18-Inch
3	Pavement Marking Epoxy, Stop Line, 24-Inch
4	Pavement Marking Epoxy, Symbol, Bike Sharrow
5	Pavement Marking Epoxy, Green High Friction



MARK	REVISION	DATE	BY
12907			PM-2

12907  
 PAVEMENT MARKING PLAN  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
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12907  
 PM-2

Callout	Description
1	Pavement Marking Epoxy, Crosswalk, 6-Inch
2	Pavement Marking Epoxy, Continental Crosswalk, 18-Inch
3	Pavement Marking Epoxy, Stop Line, 24-Inch
4	Pavement Marking Epoxy, Symbol, Bike Sharrow
5	Pavement Marking Epoxy, Green High Friction

Bashford Ave

St Paul Ave

Talmadge St

Corry St

St Paul Ave

MARK	REVISION	DATE	BY
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 Scale: #####  
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 Scale: #####

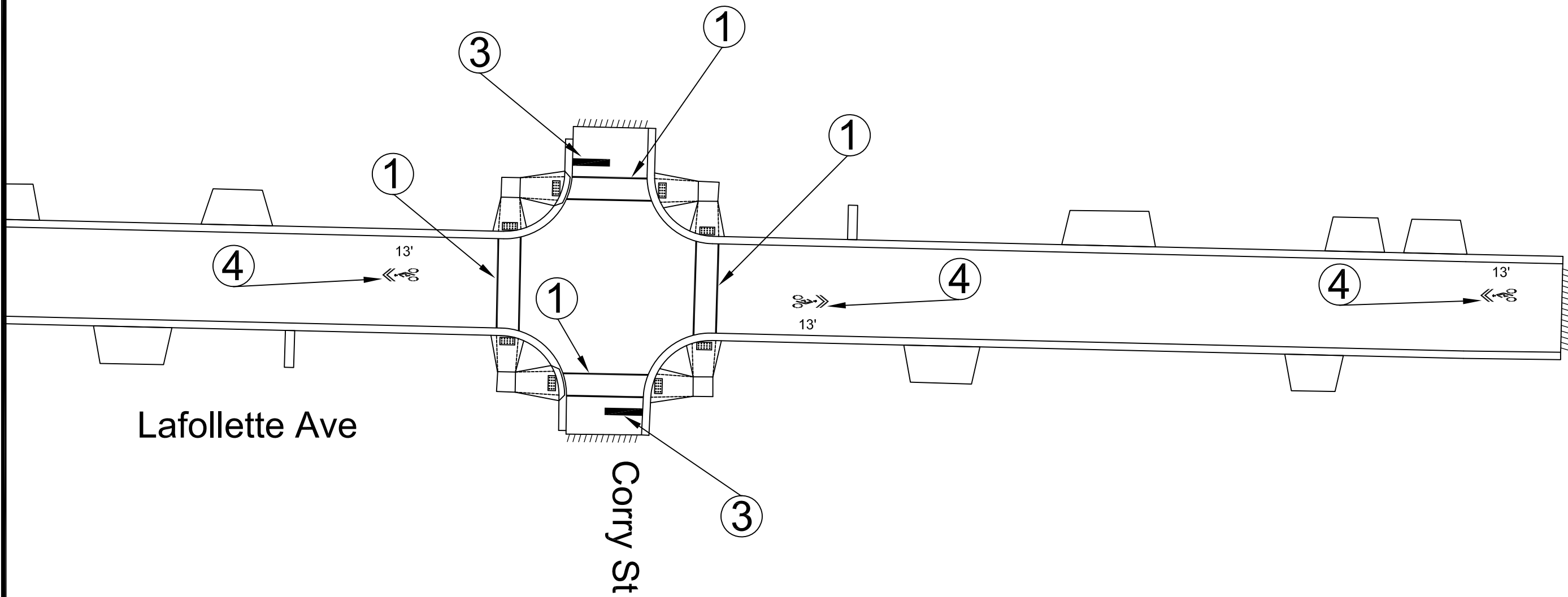
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 PAVEMENT MARKING PLAN  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
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12907  
 PM-3



Callout	Description
1	Pavement Marking Epoxy, Crosswalk, 6-Inch
2	Pavement Marking Epoxy, Continental Crosswalk, 18-Inch
3	Pavement Marking Epoxy, Stop Line, 24-Inch
4	Pavement Marking Epoxy, Symbol, Bike Sharrow
5	Pavement Marking Epoxy, Green High Friction



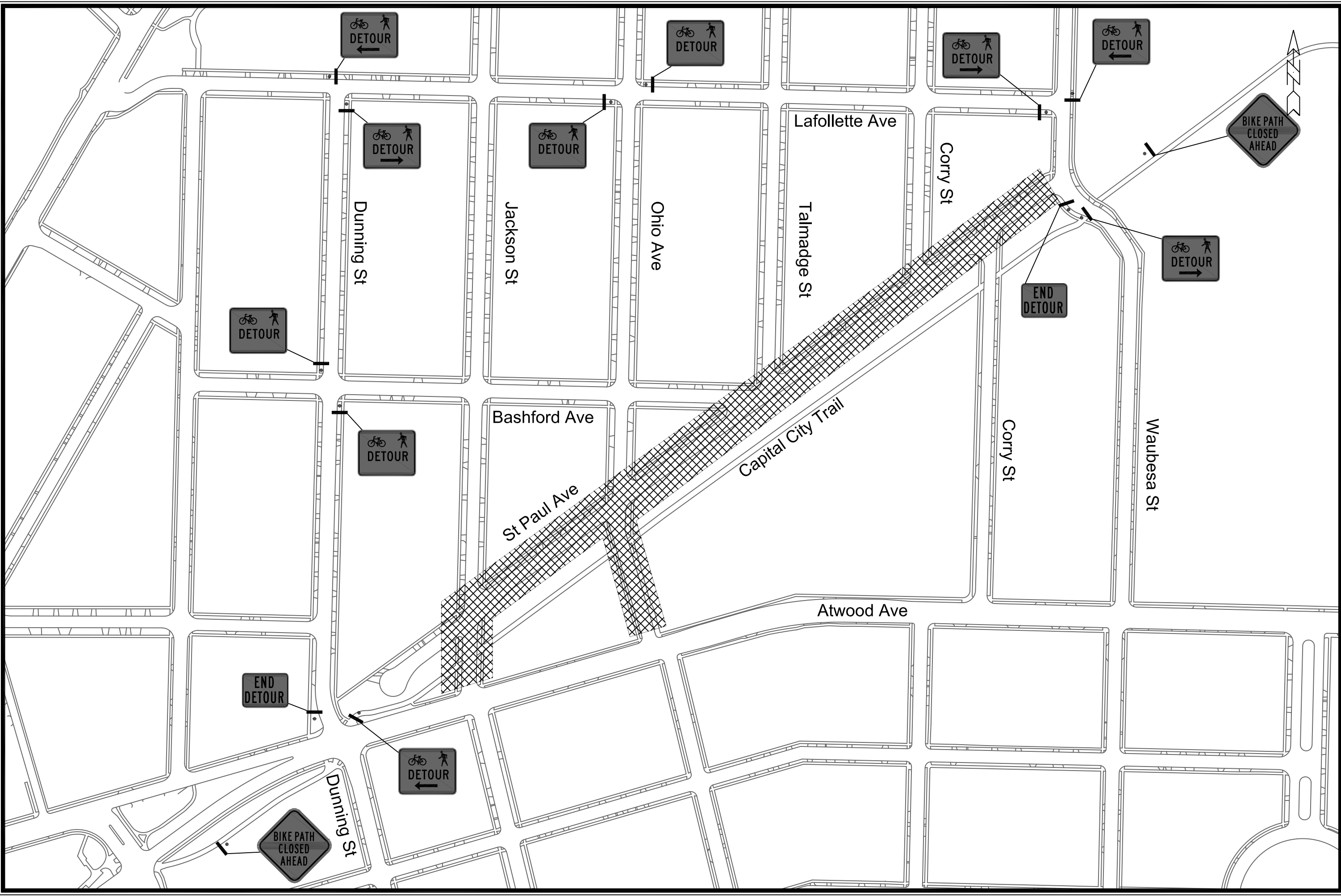
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 PAVEMENT MARKING PLAN  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
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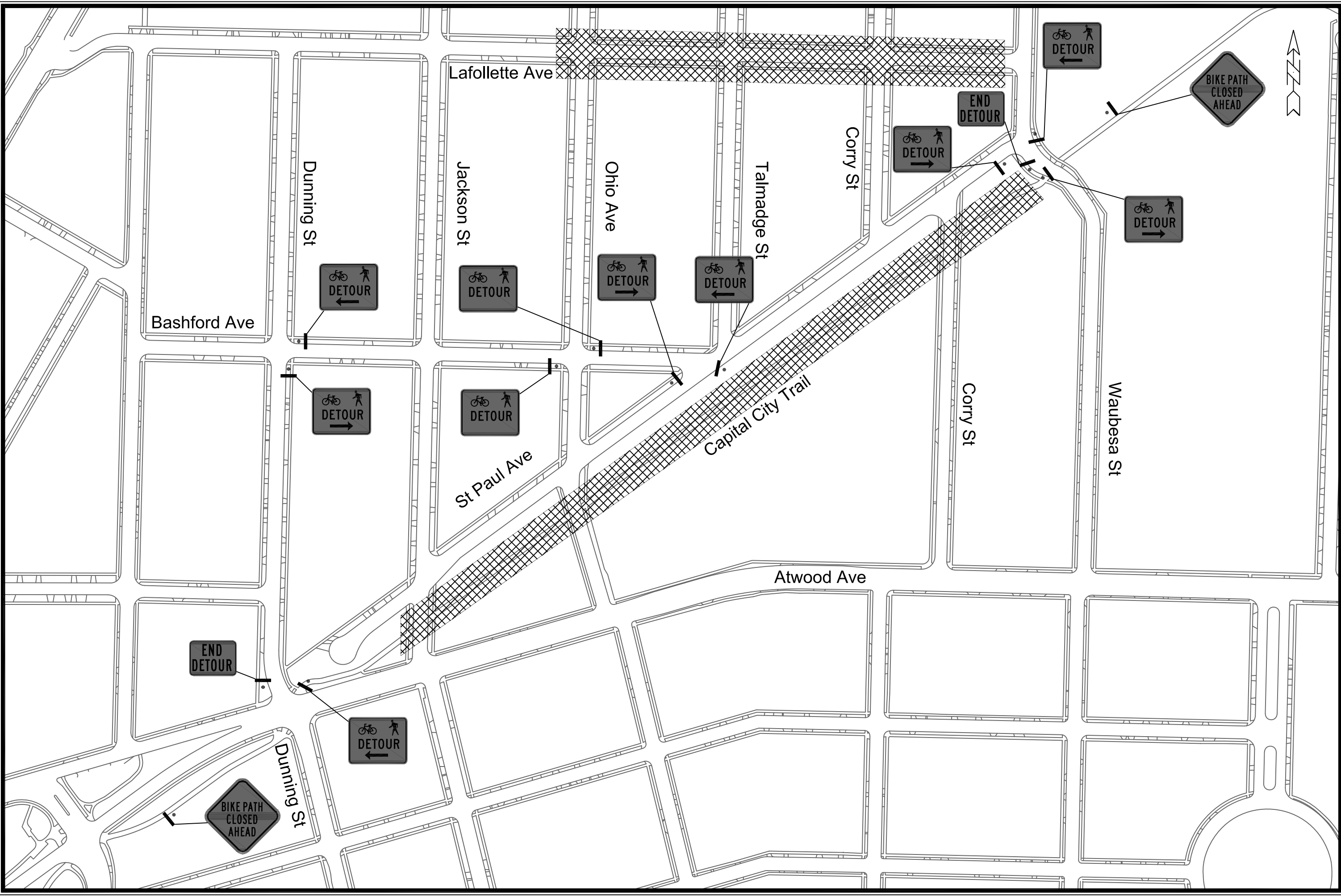


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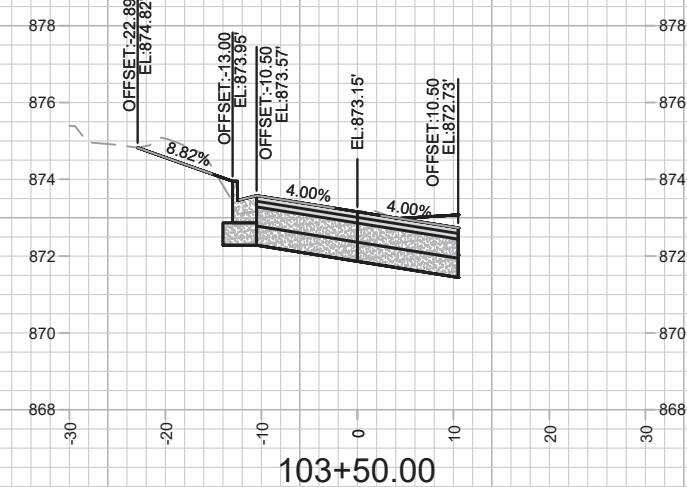
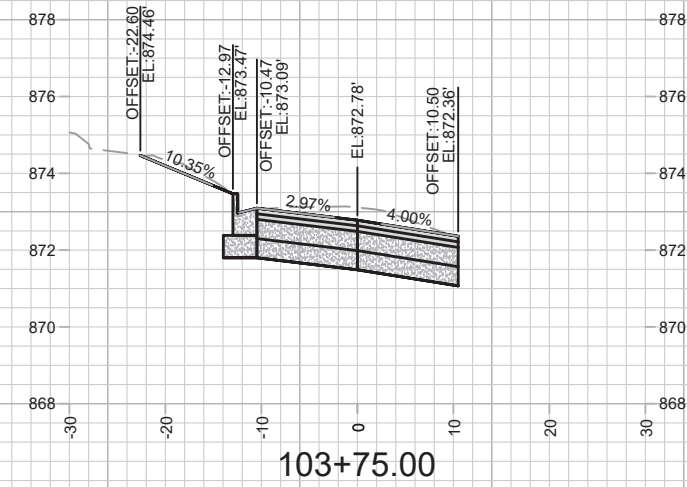
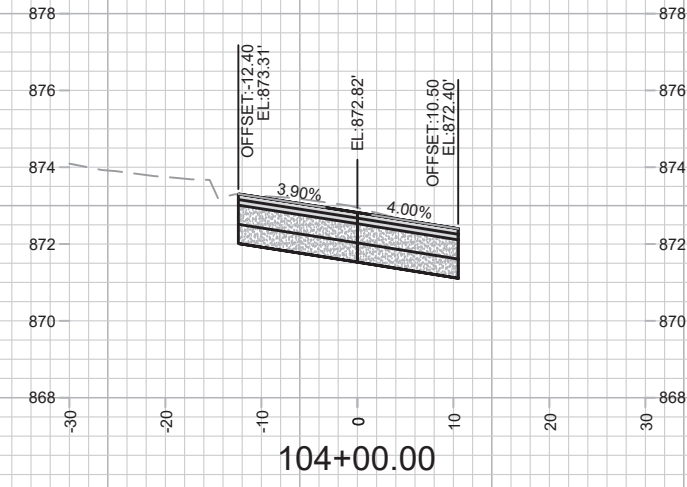
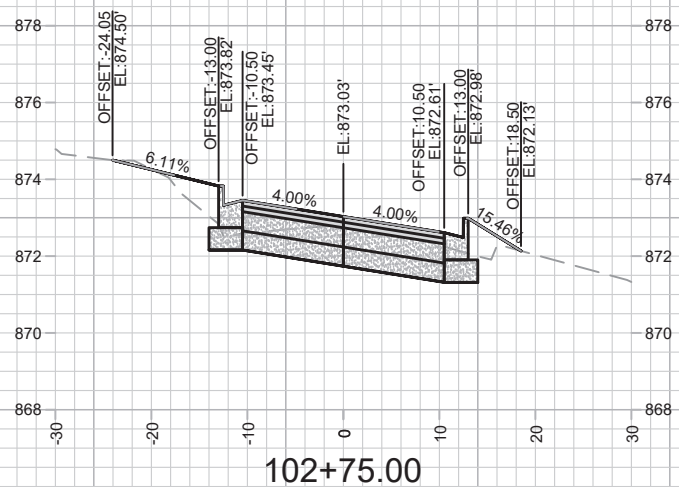
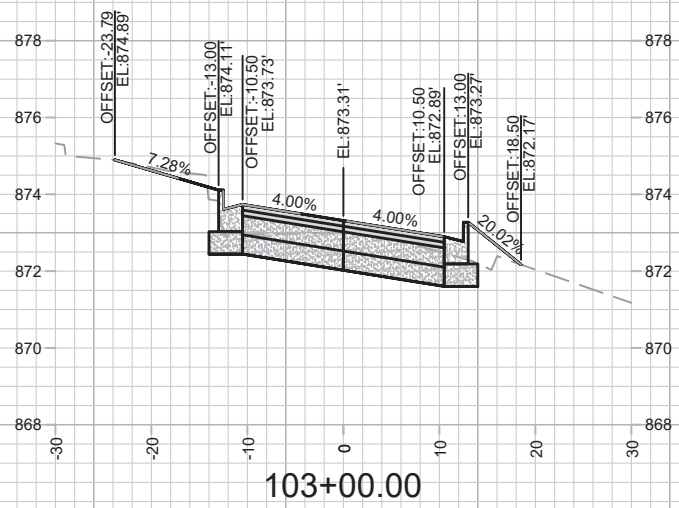
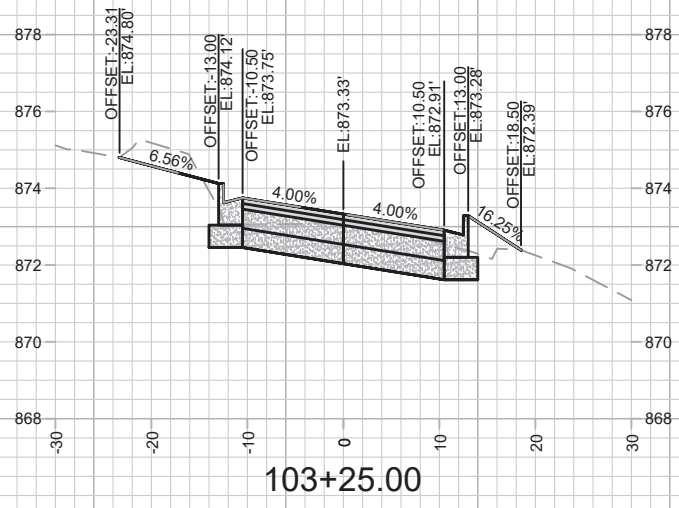
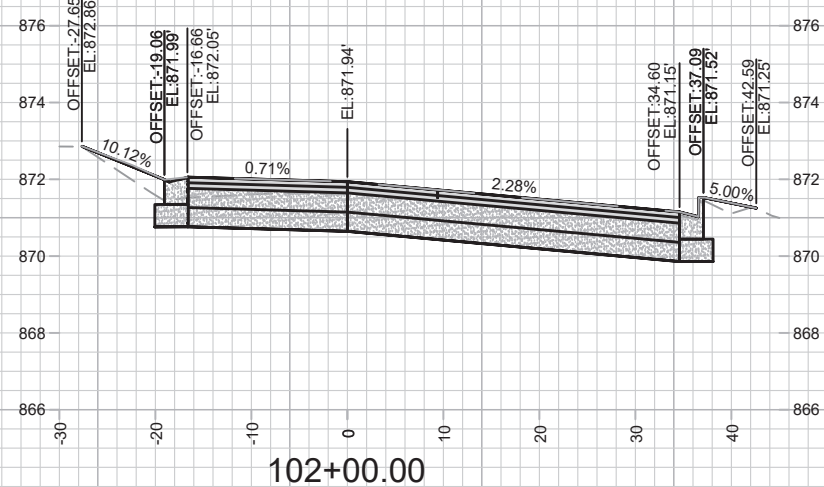
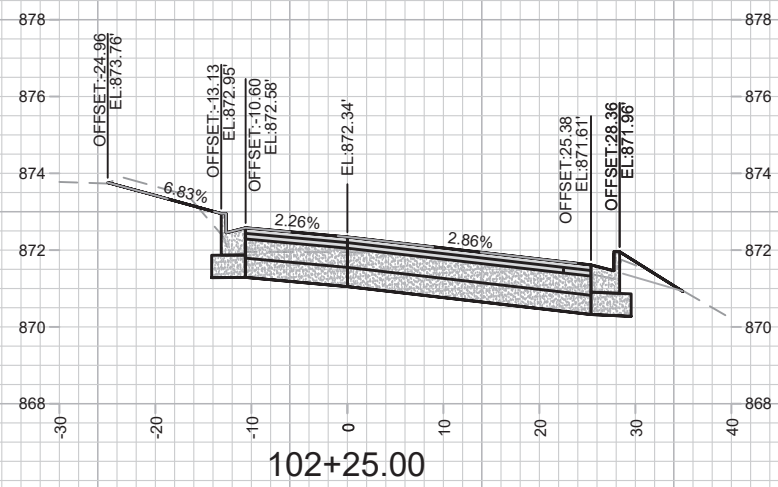
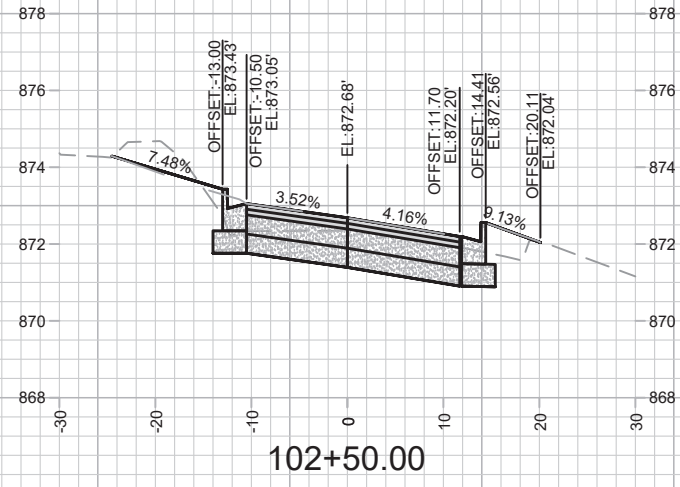




	
<p>12907 PD-1</p>	<p>12907 PD-1</p>
<p>CAPITAL CITY TRAIL DETOUR PLAN PHASE A</p>	
<p>ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI</p>	
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<p>REVISION</p>	<p>SCALE: #####</p>
<p>MARK</p>	<p>BY</p>
<p>CONTRACT NO: 8616</p>	<p>PD-1</p>



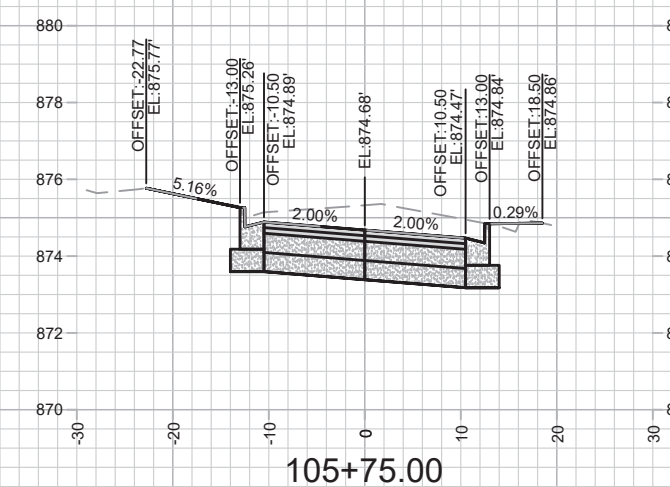
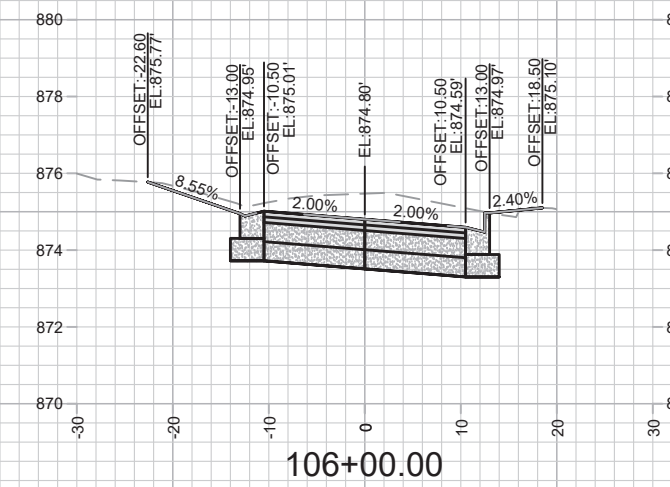
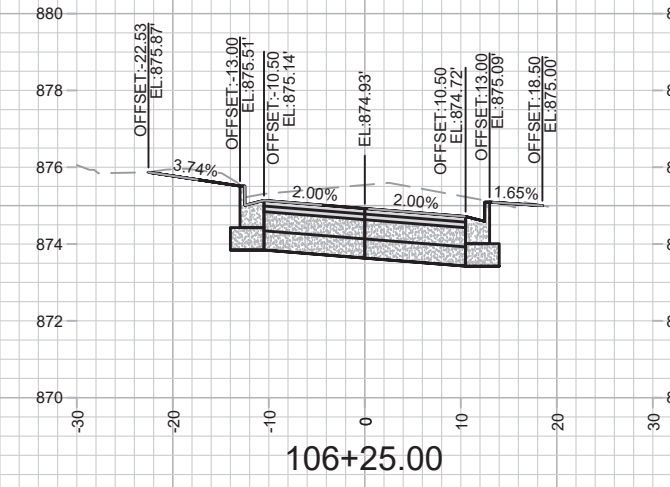
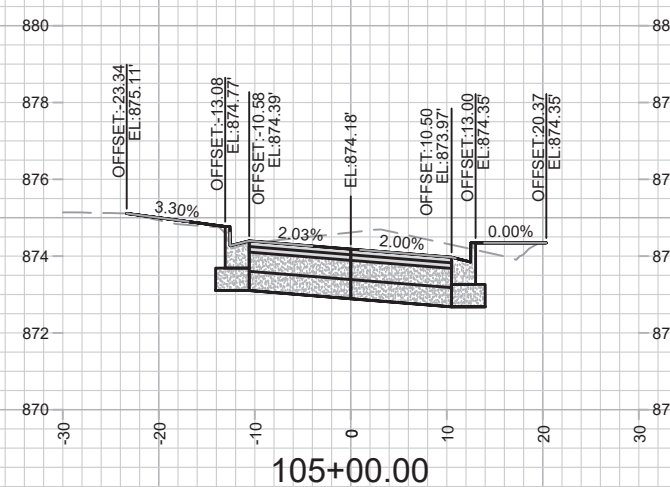
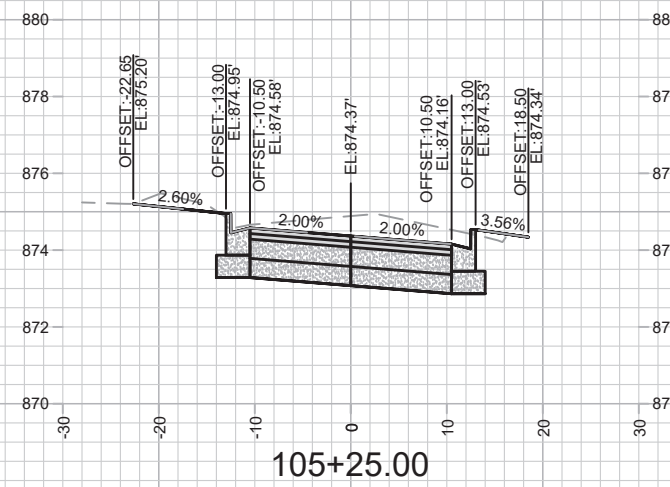
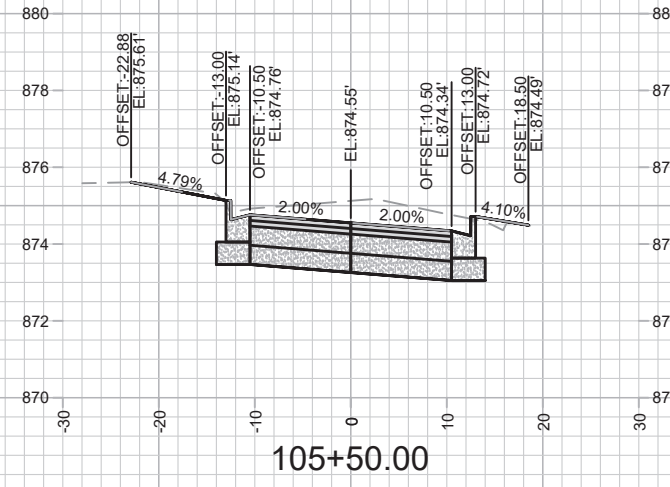
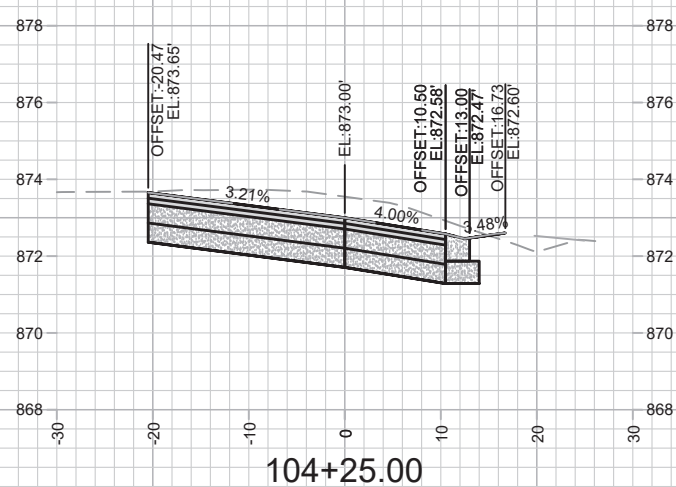
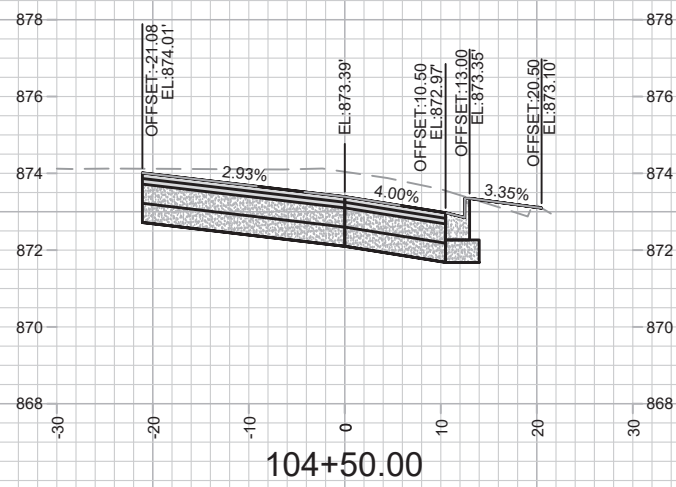
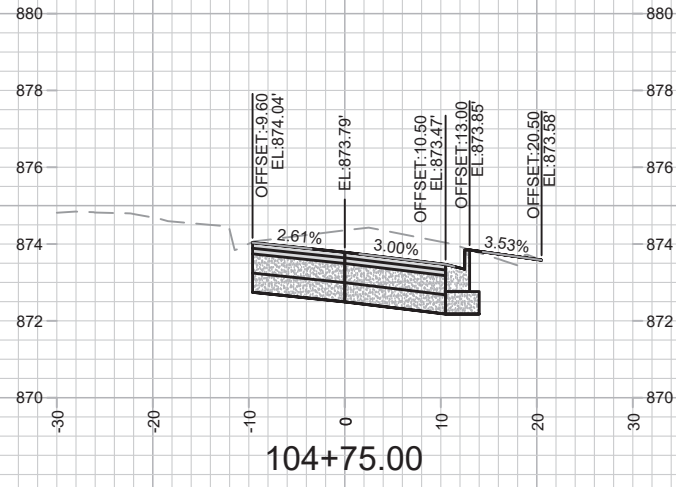
	
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<b>CAPITAL CITY TRAIL DETOUR PLAN PHASE B</b>	
<b>ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI</b>	
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12907  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
 MADISON, WI  
 CONTRACT NO: 8616



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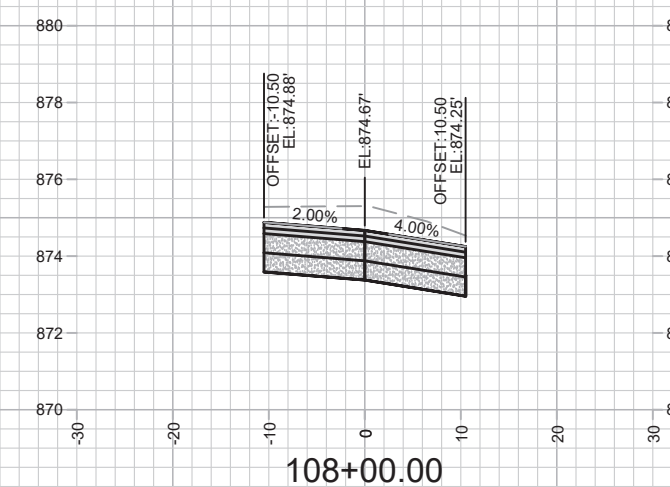
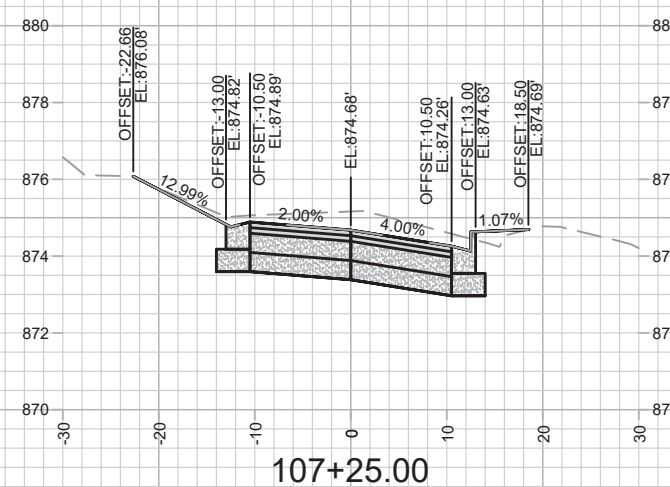
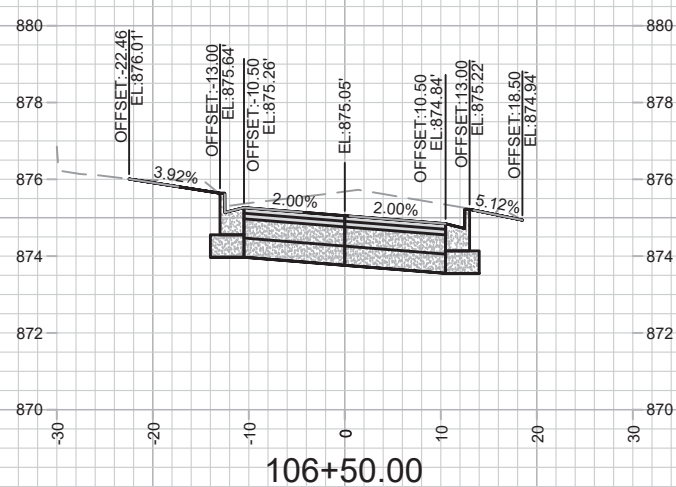
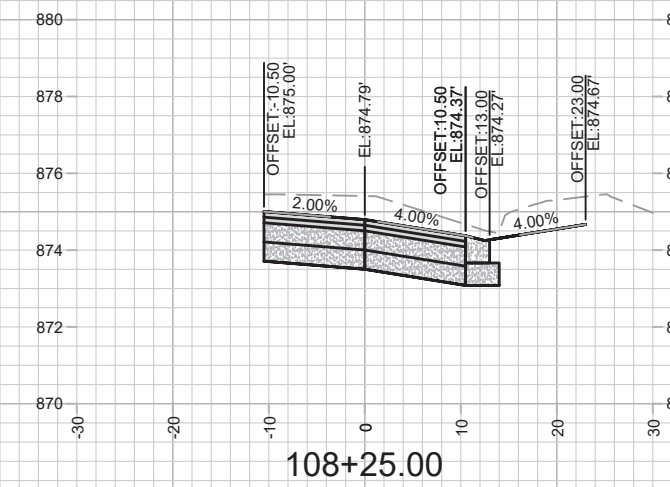
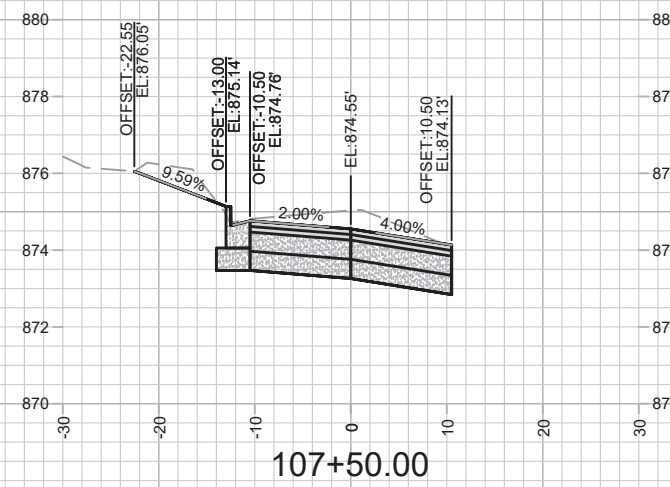
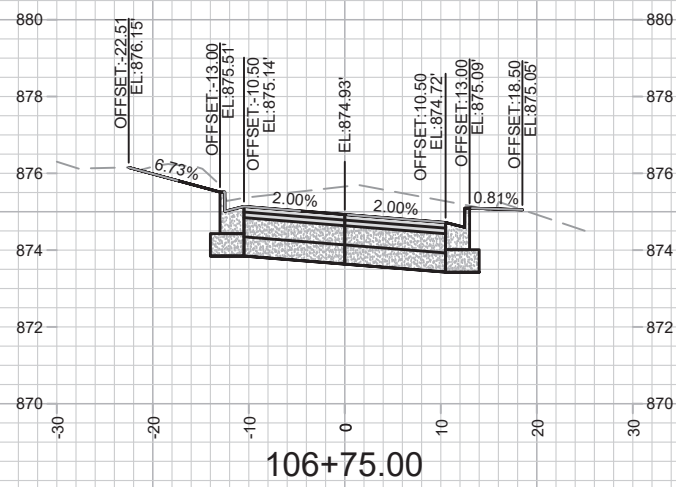
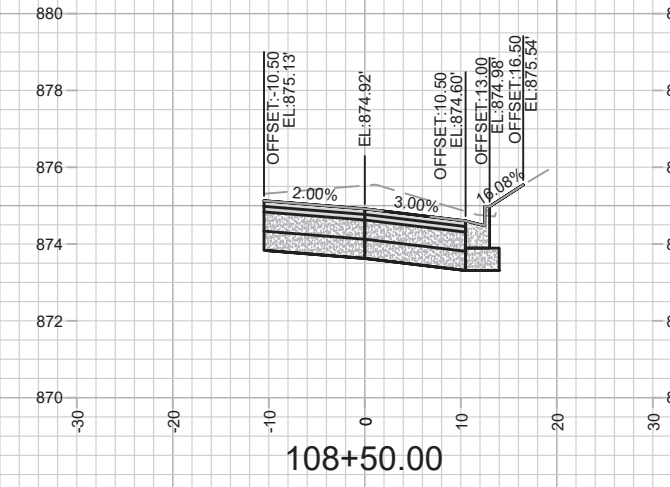
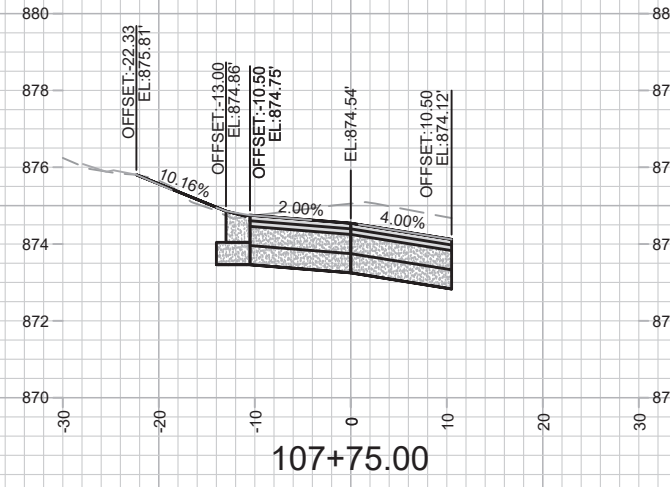
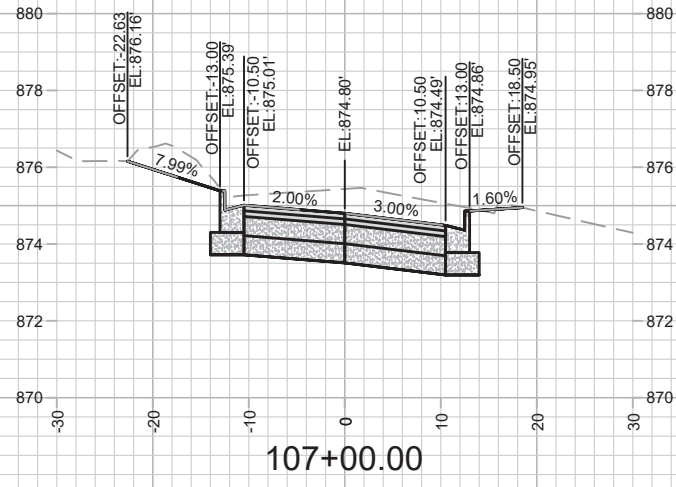
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12907  
 MADISON, WI  
 CONTRACT NO: 8616

ST PAUL AVE - CROSS SECTIONS  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT

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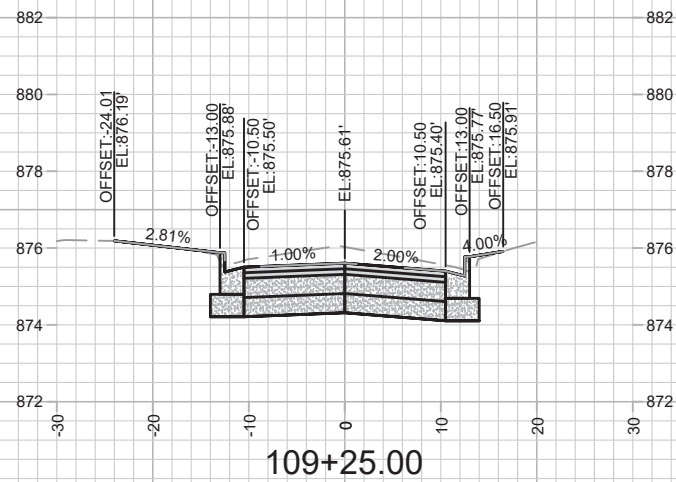
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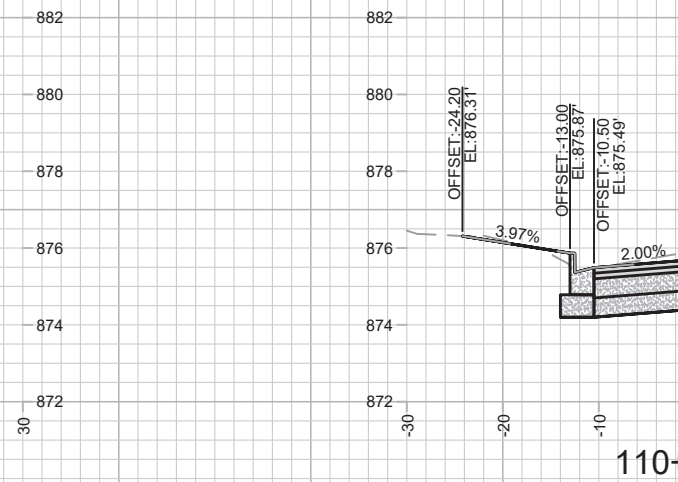
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 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
 MADISON, WI  
 CONTRACT NO: 8616

ST PAUL AVE - CROSS SECTIONS  
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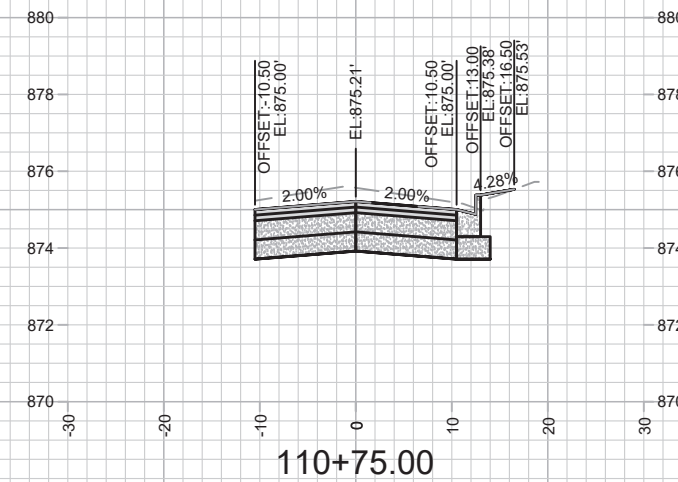
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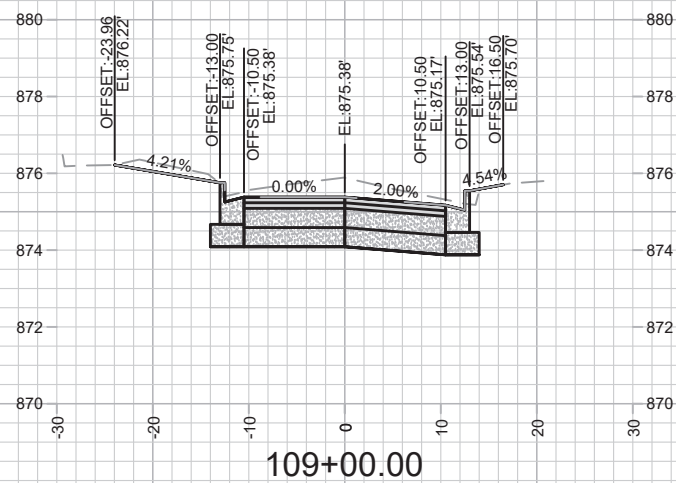
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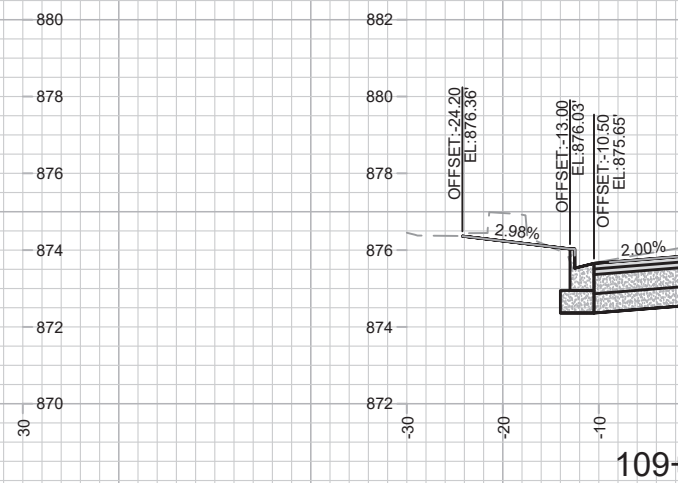
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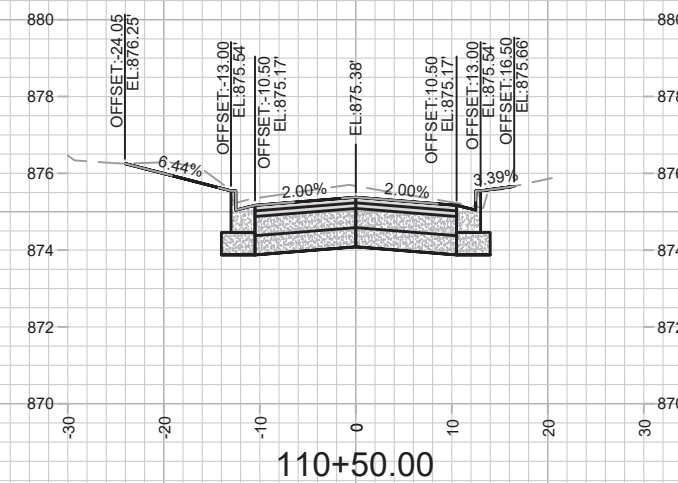
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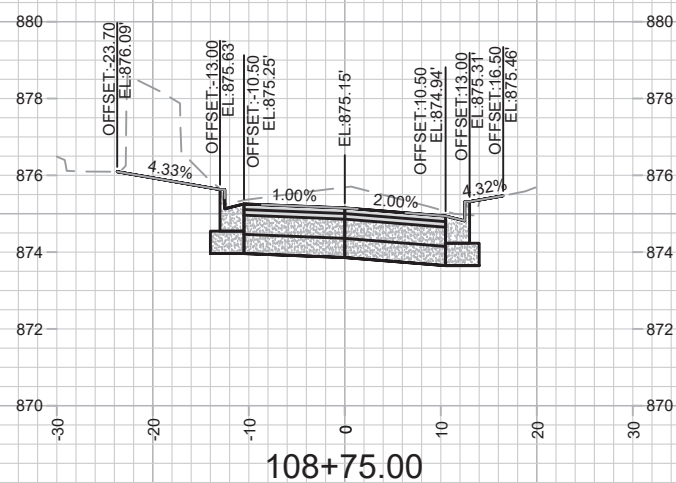
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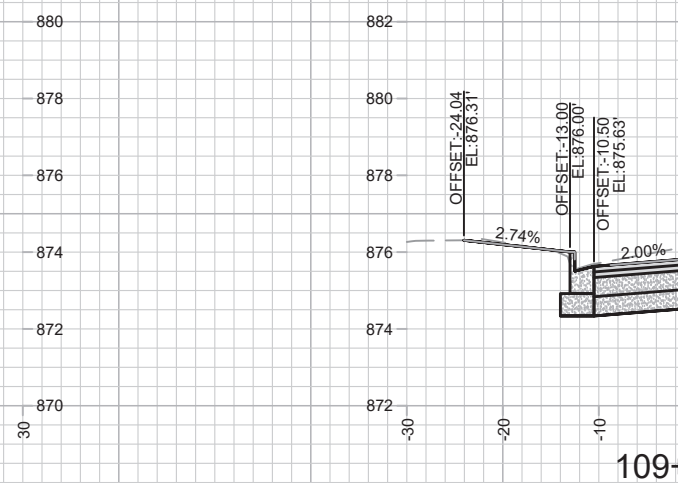
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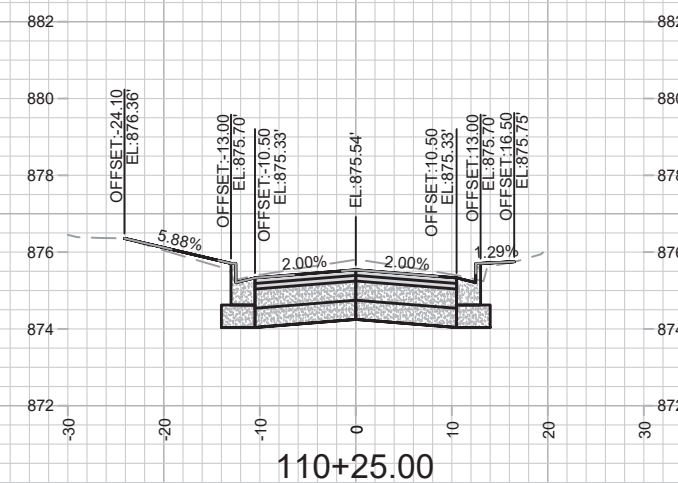
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109+50.00



110+25.00

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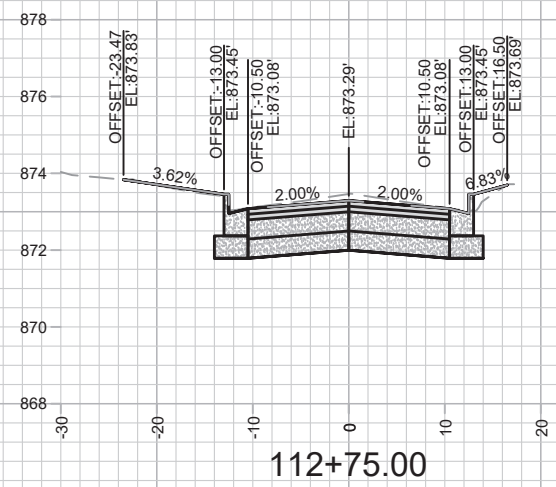
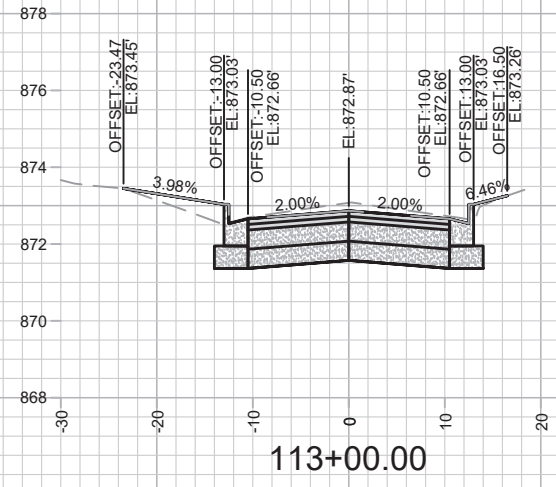
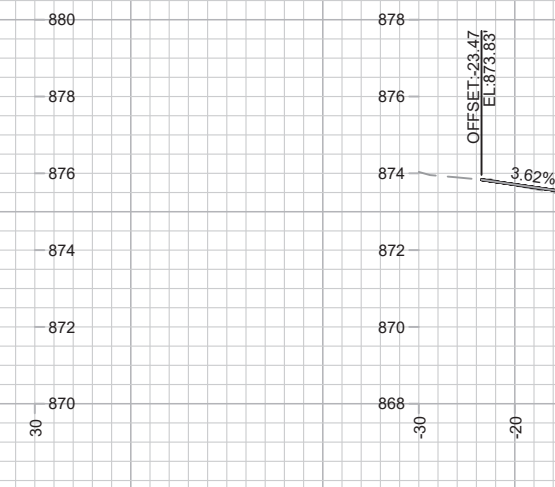
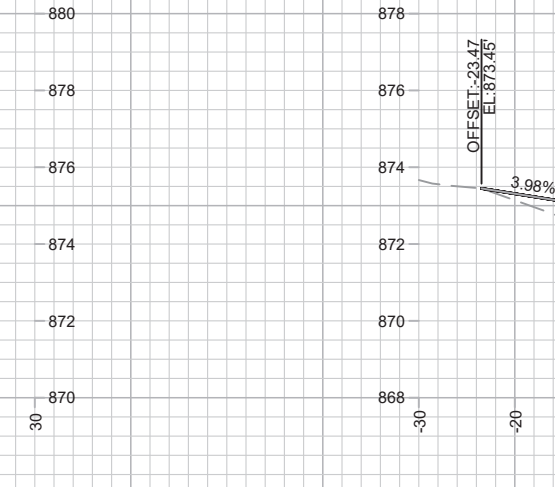
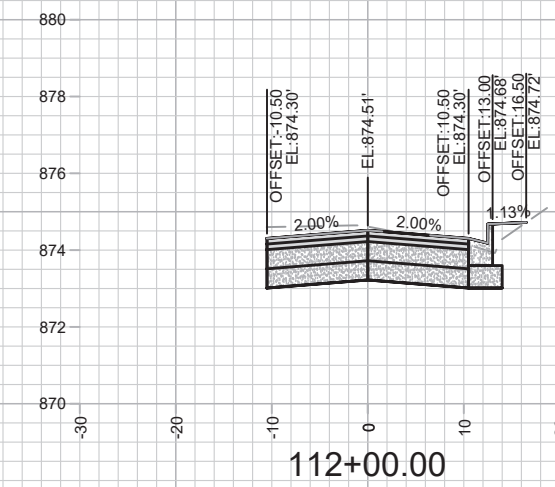
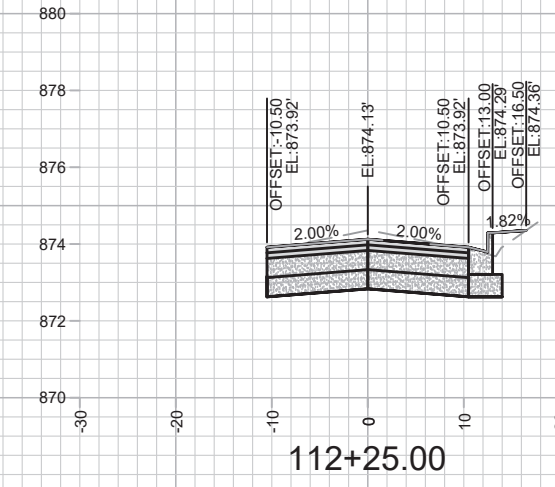
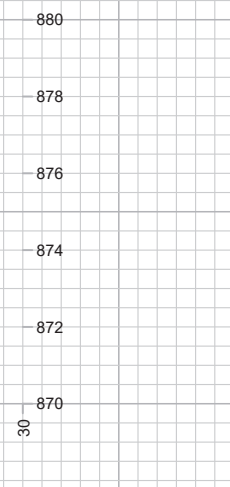
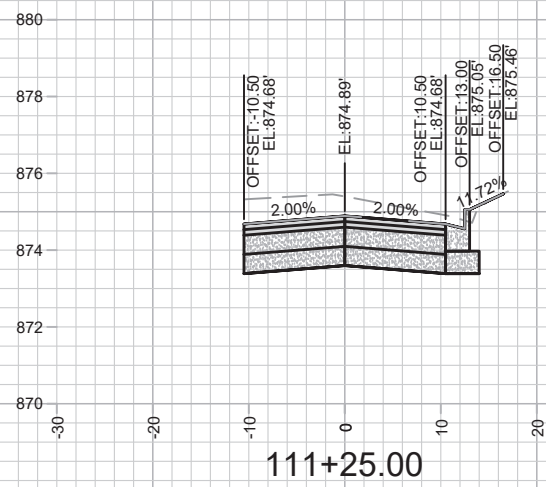
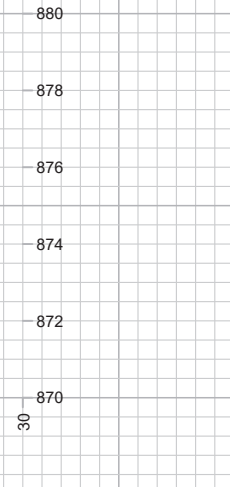
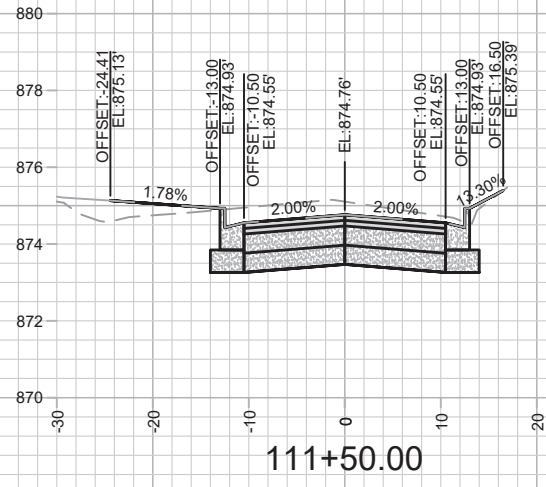
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MADISON, WI  
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ST PAUL AVE - CROSS SECTIONS  
ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT



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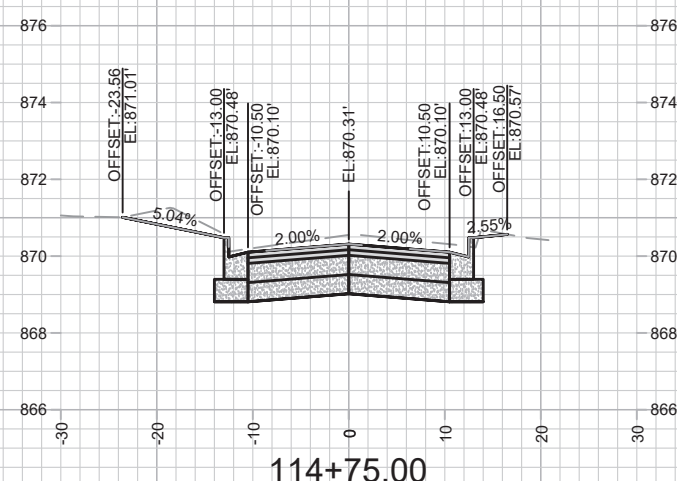
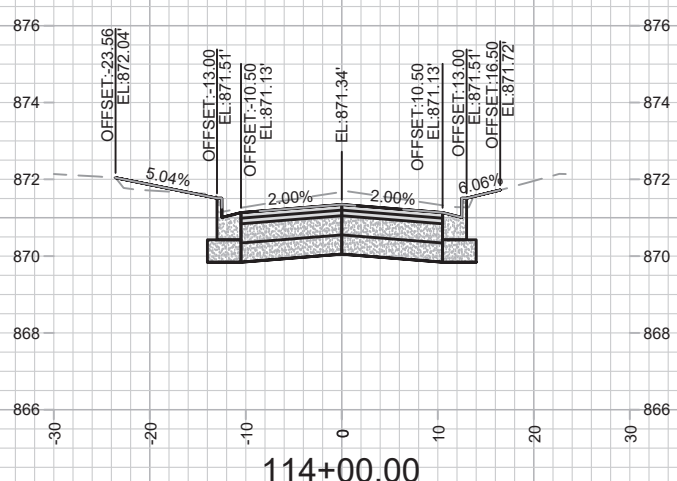
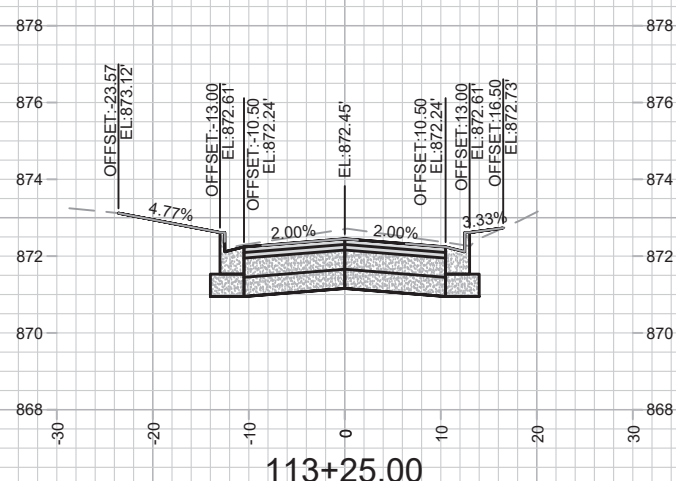
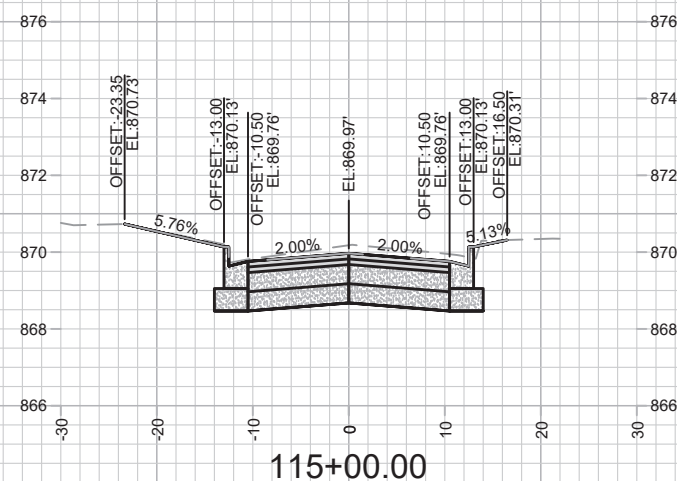
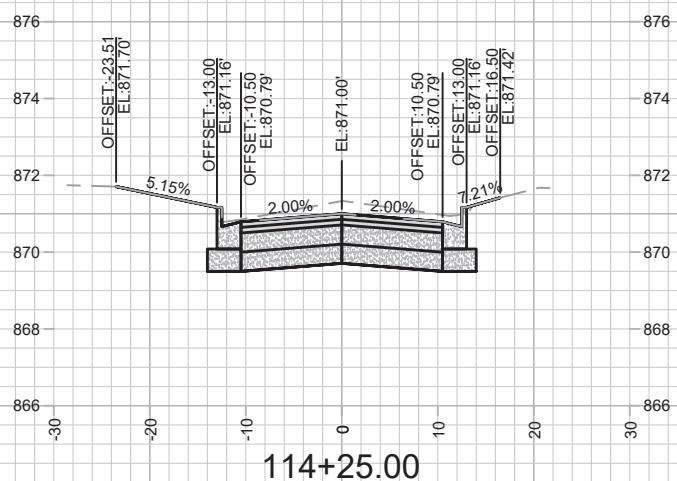
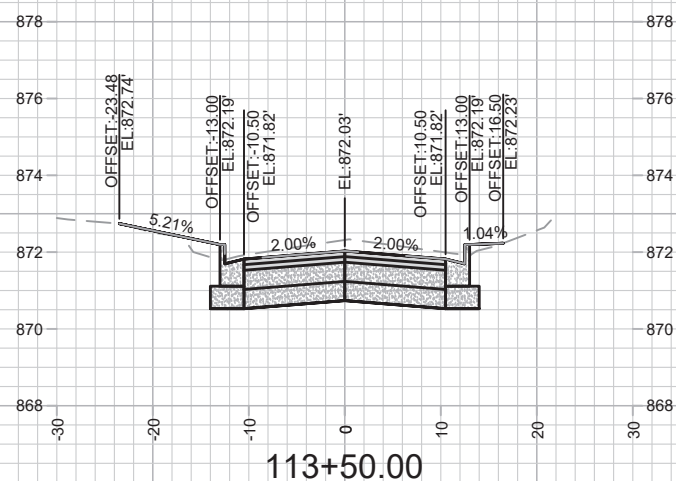
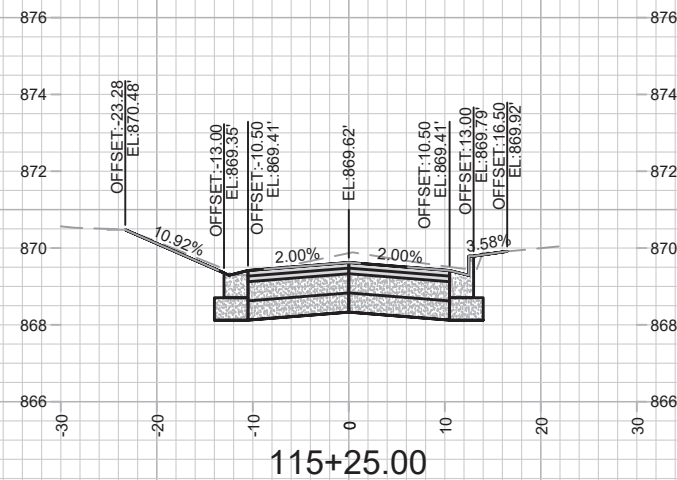
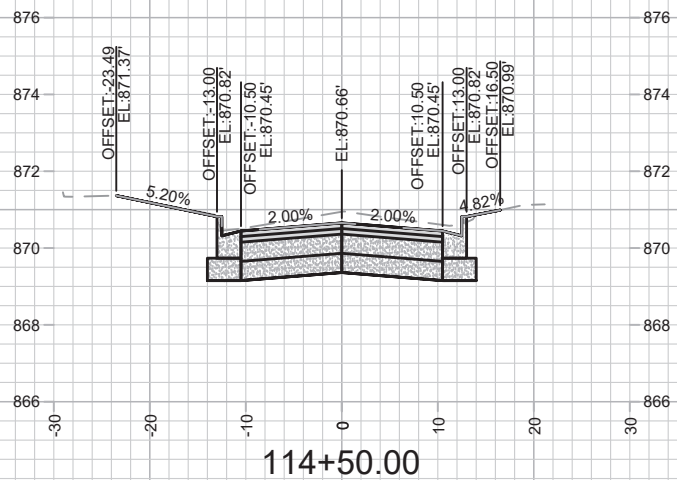
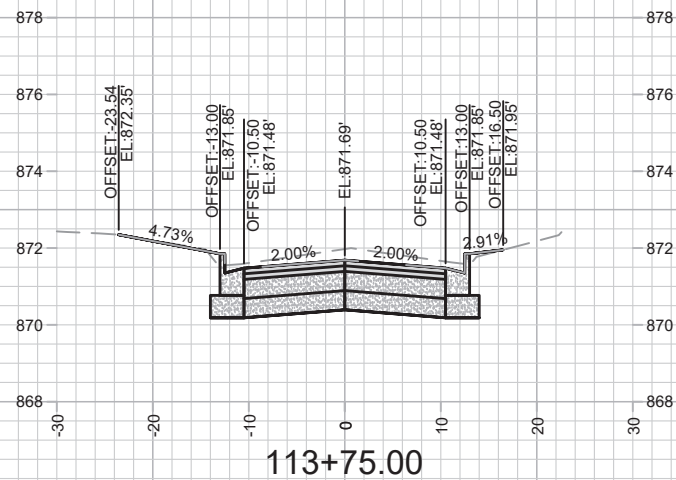


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12907			X-5

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 ST PAUL AVE - CROSS SECTIONS  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
 CONTRACT NO: 8616  
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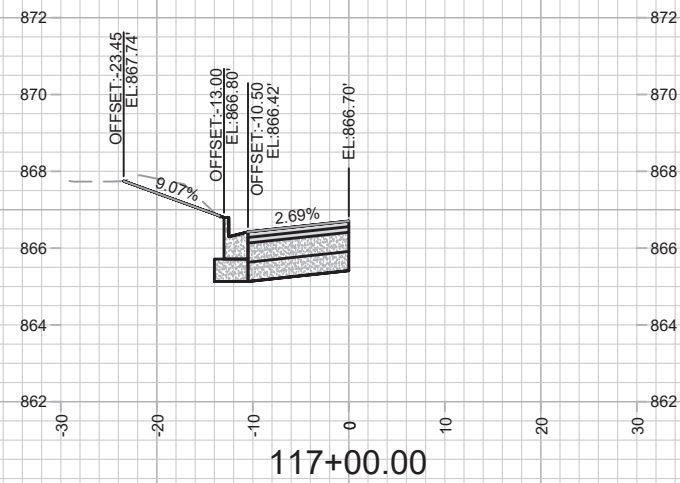
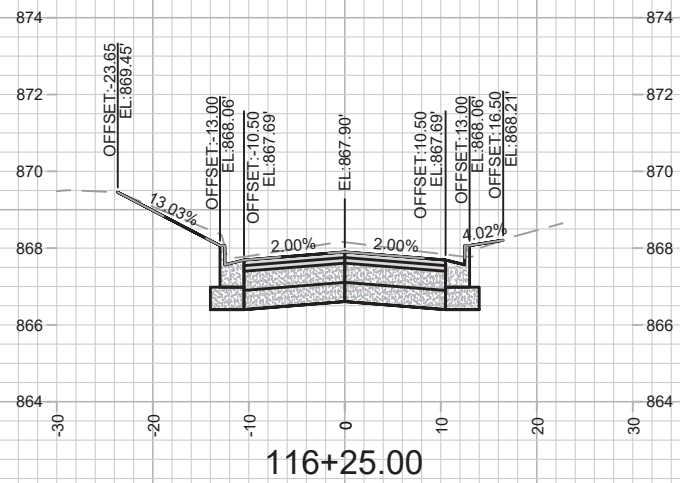
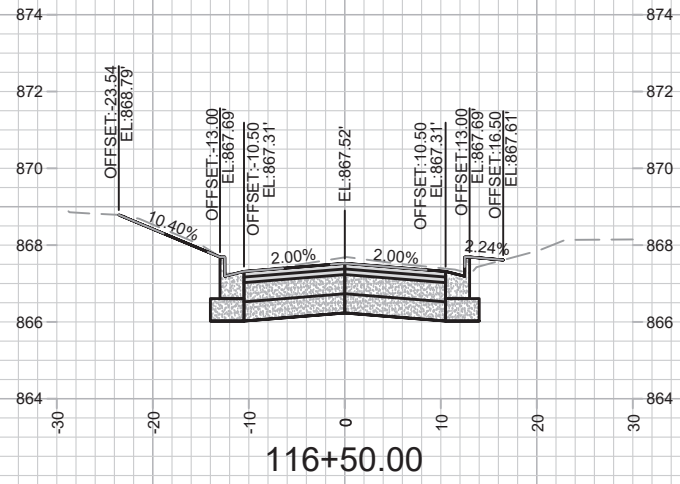
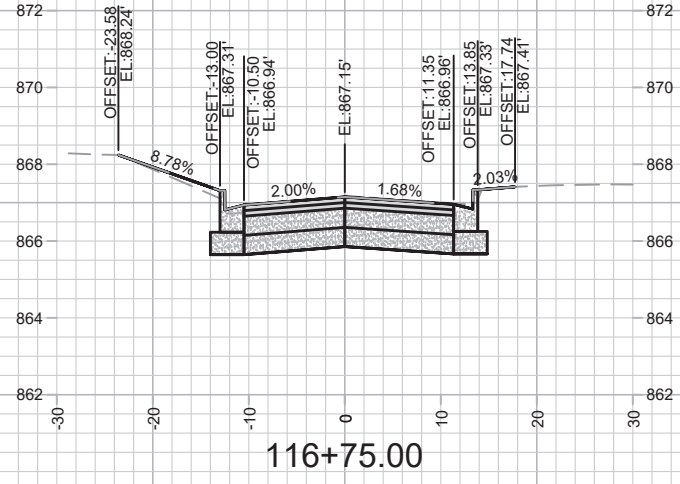
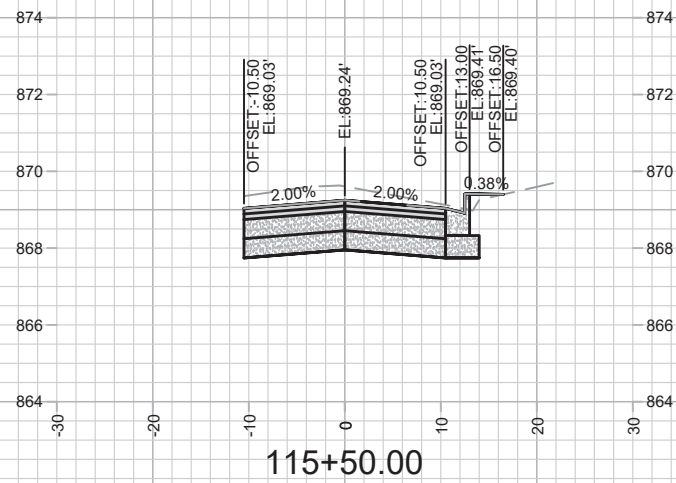
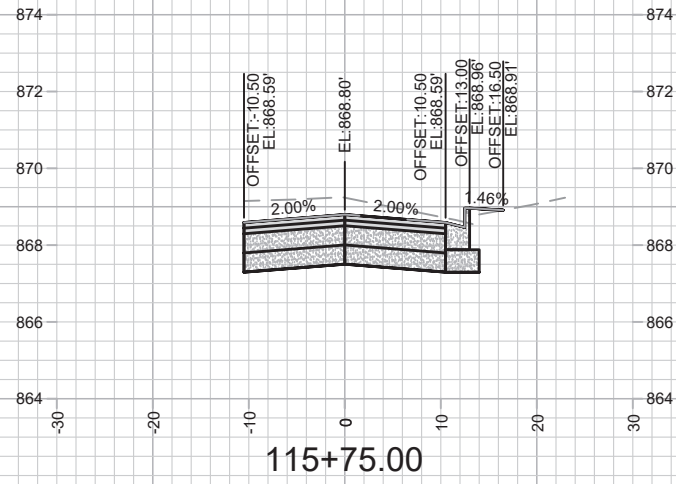
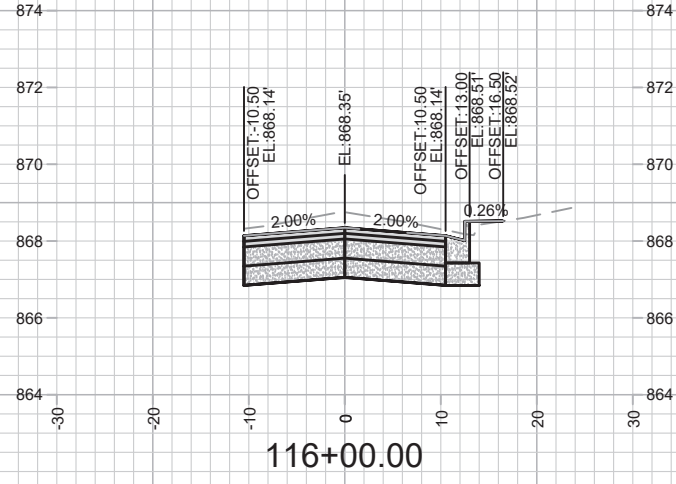


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 ST PAUL AVE - CROSS SECTIONS  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
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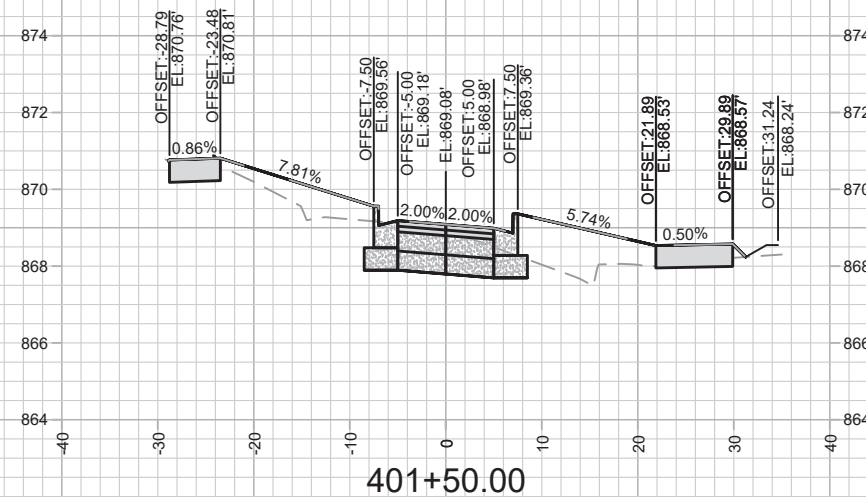
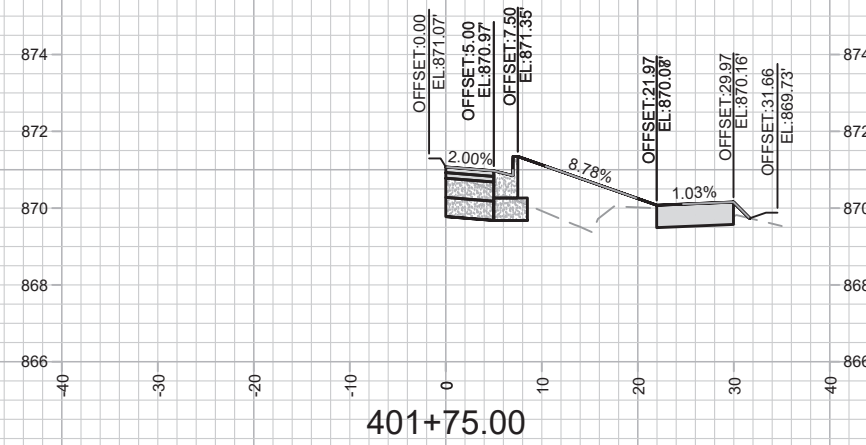
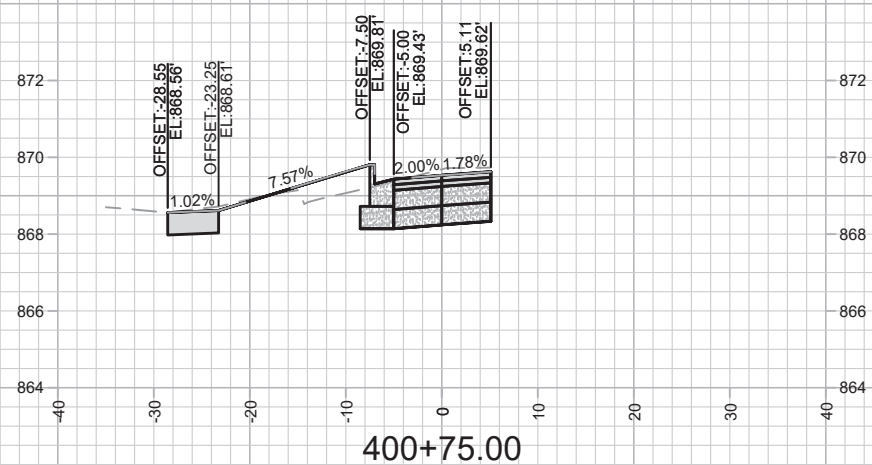
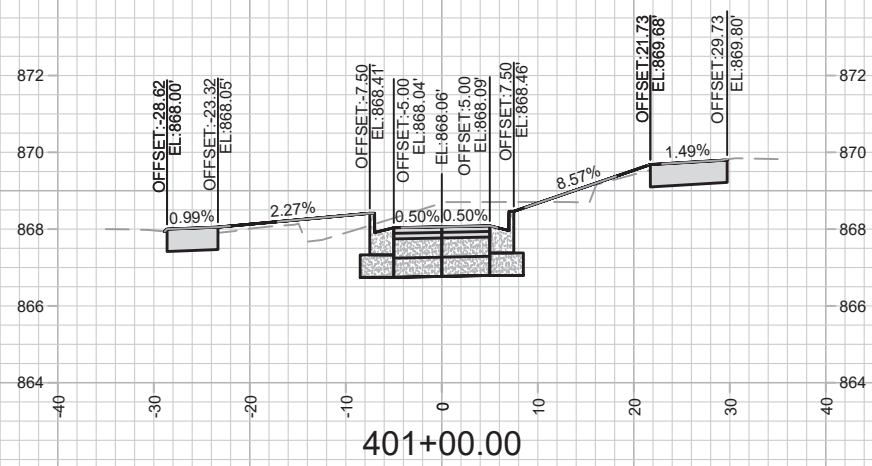
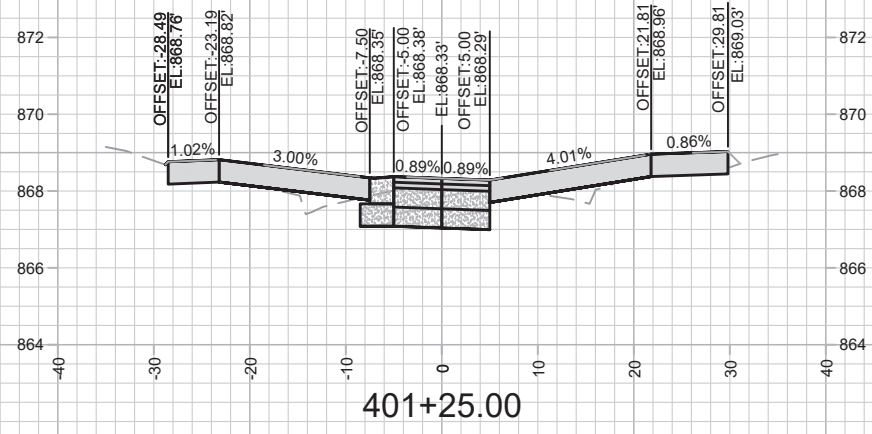


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MADISON, WI  
CONTRACT NO.: 8616

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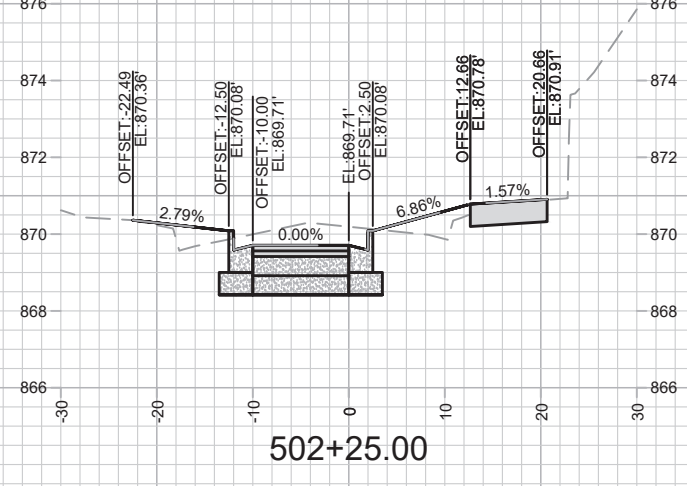
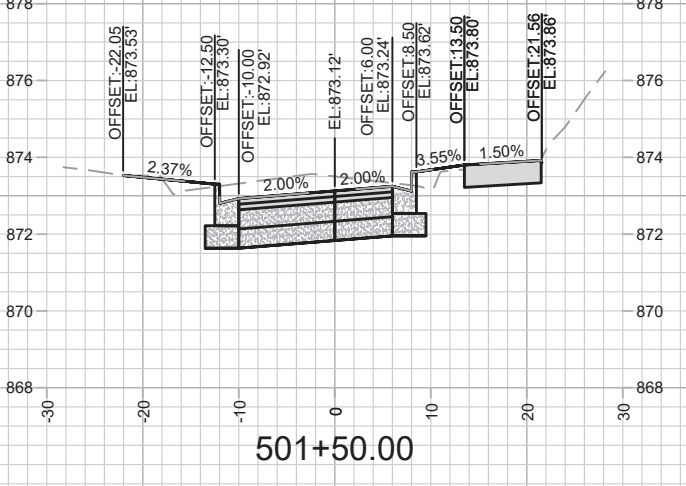
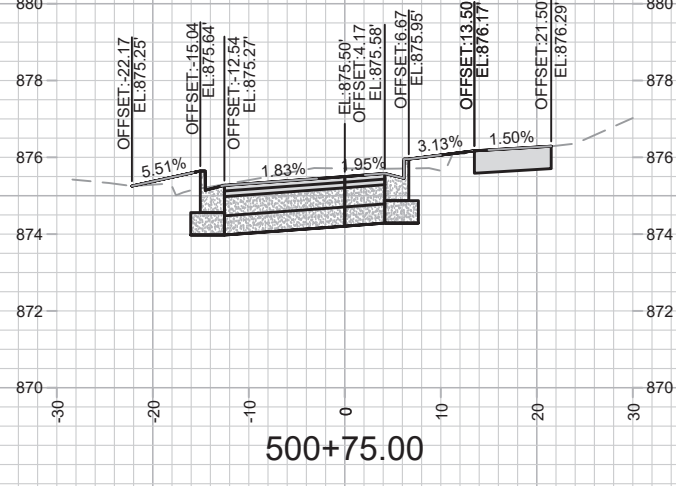
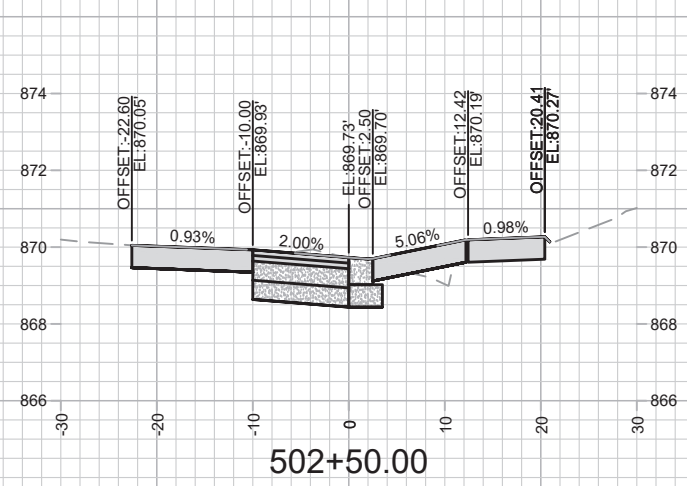
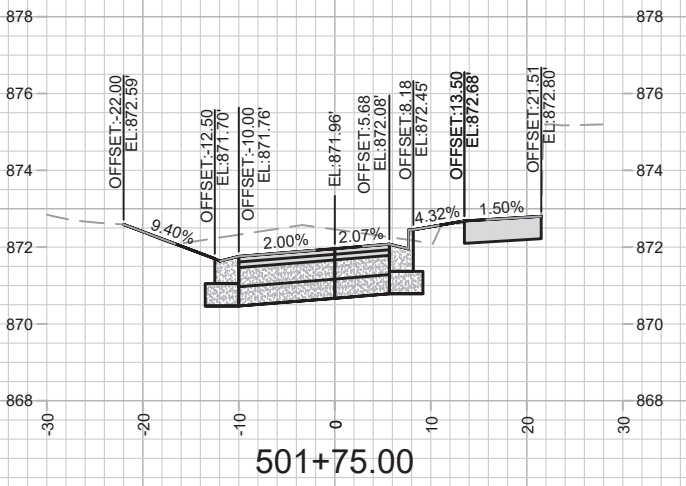
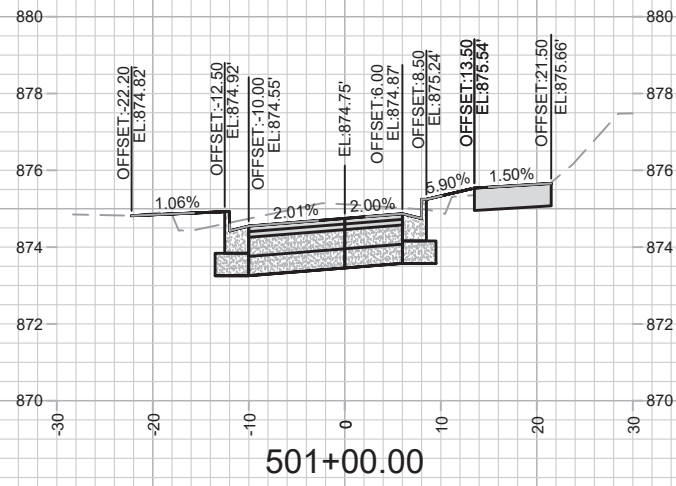
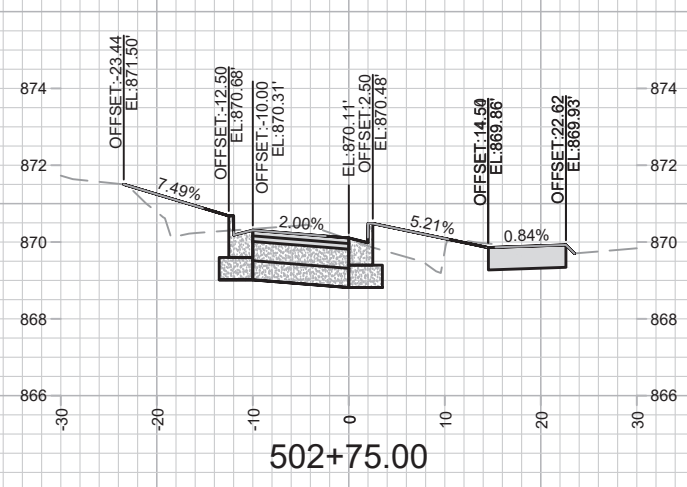
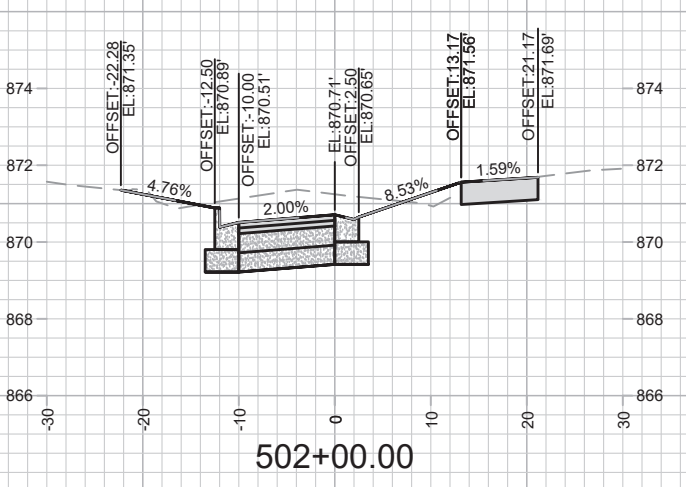
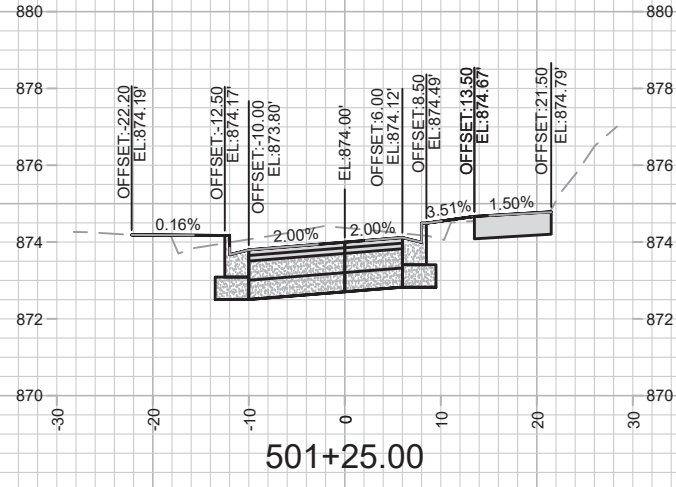




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JACKSON ST - CROSS SECTIONS  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
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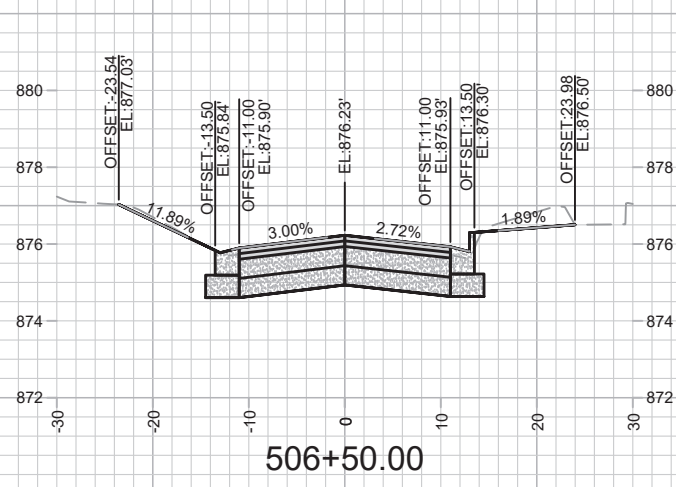
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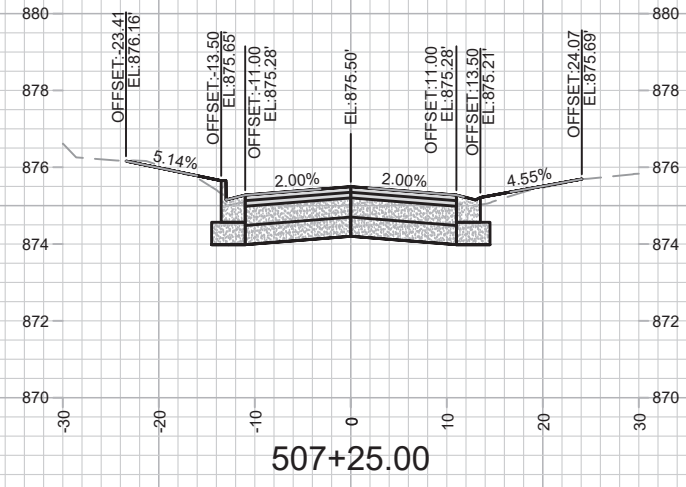
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OHIO AVE - CROSS SECTIONS  
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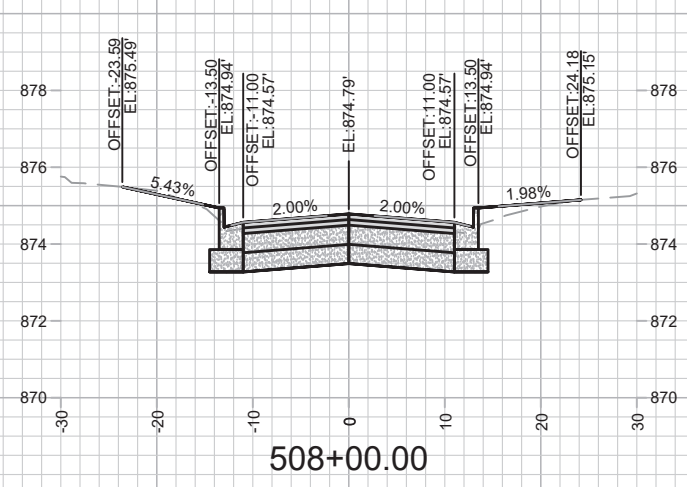
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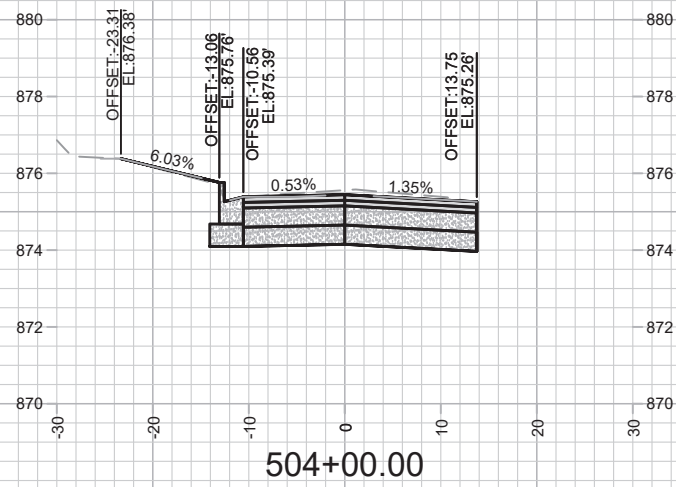
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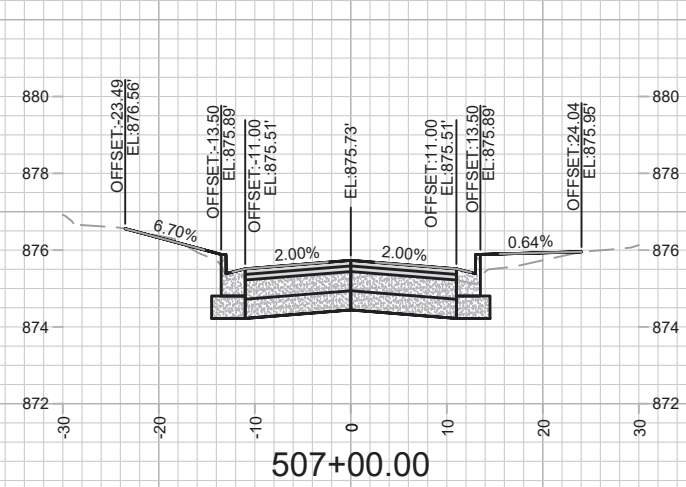
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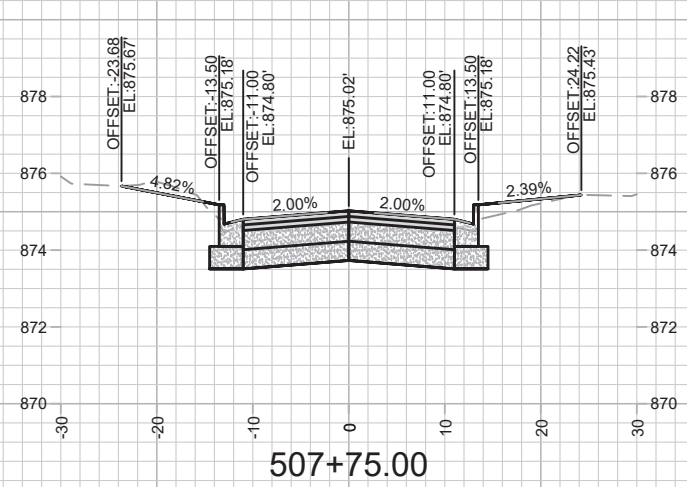
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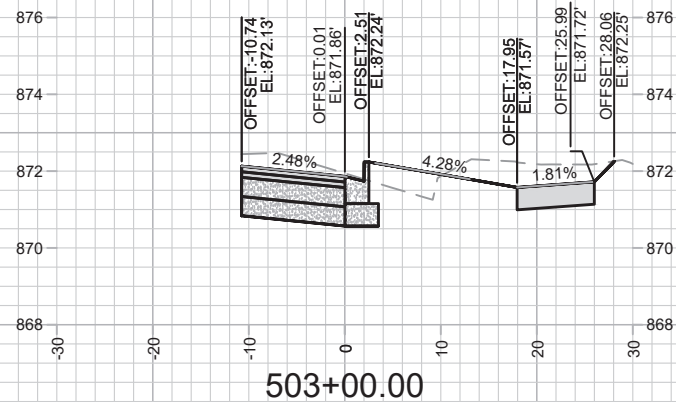
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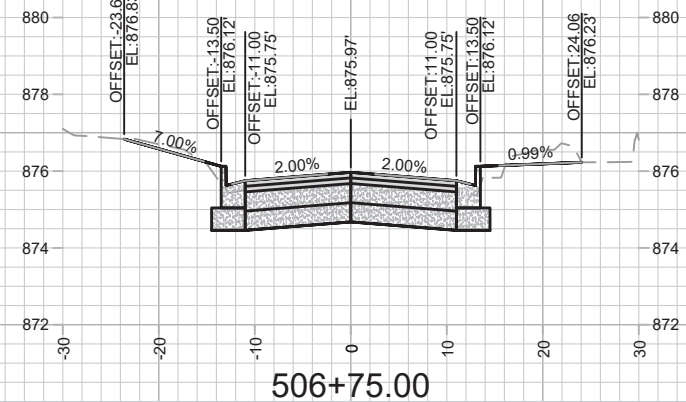
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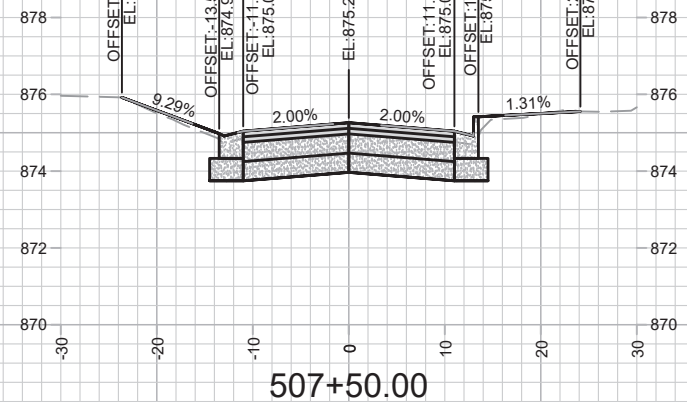
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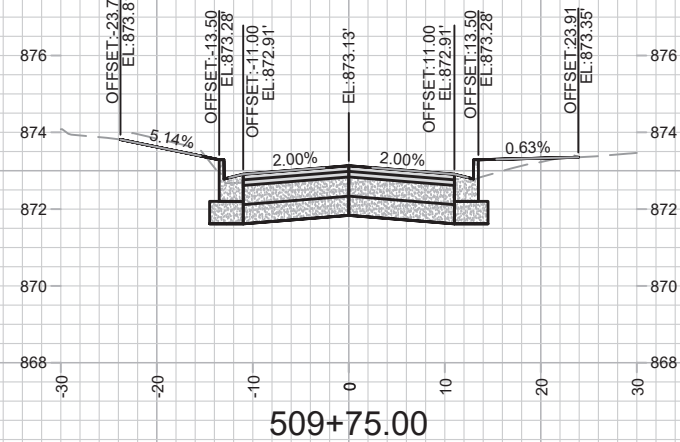
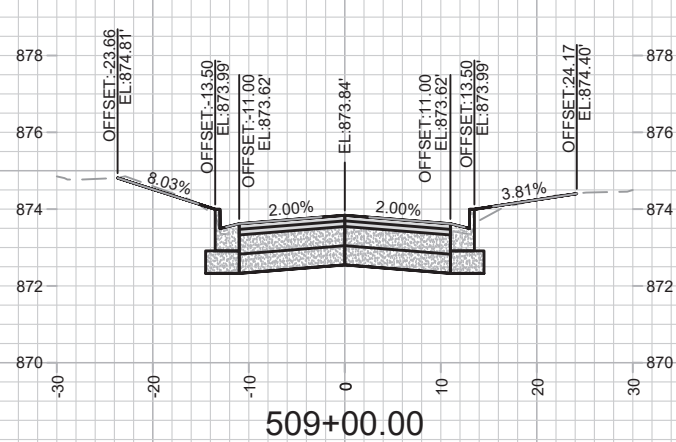
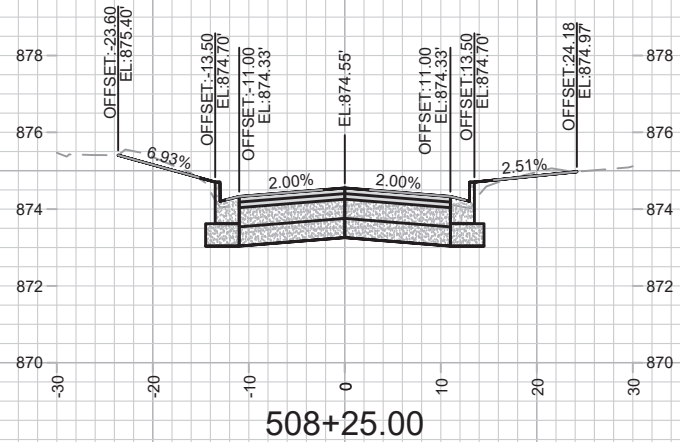
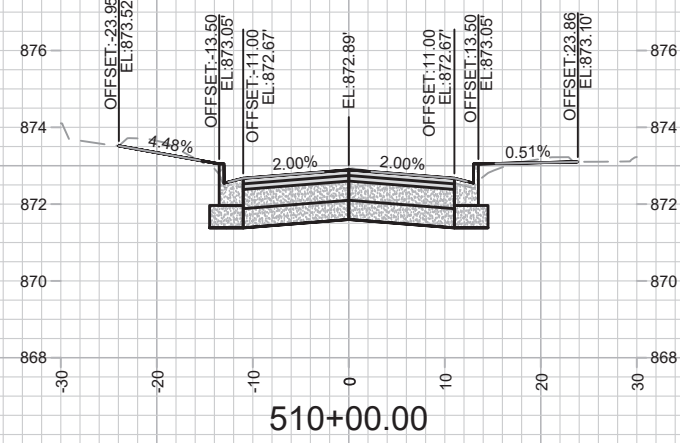
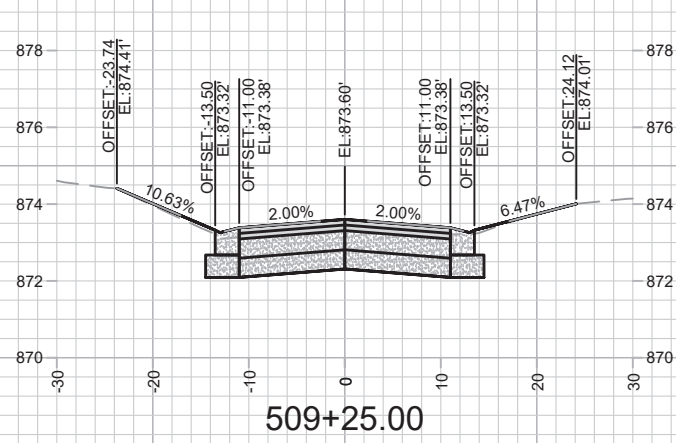
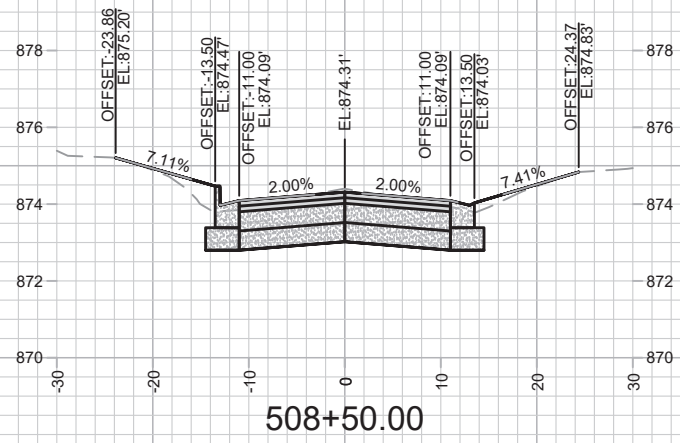
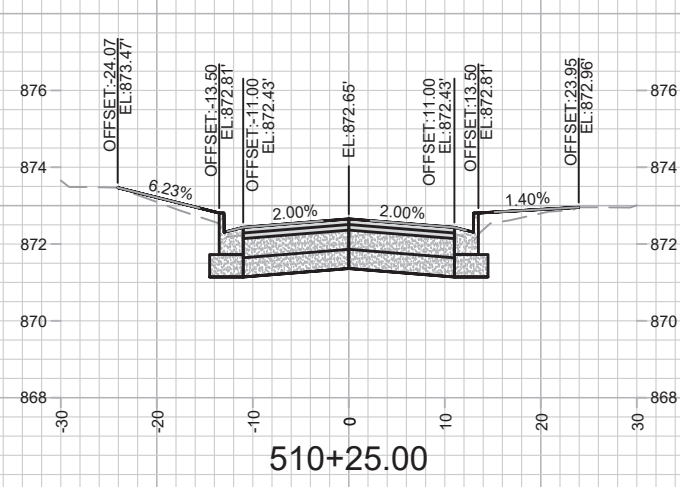
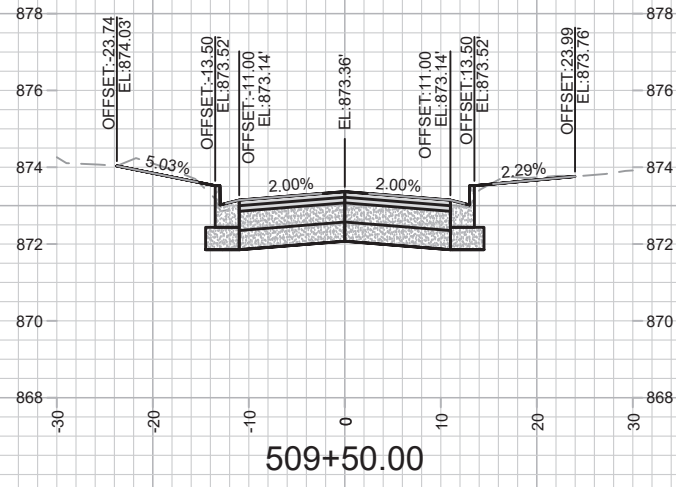
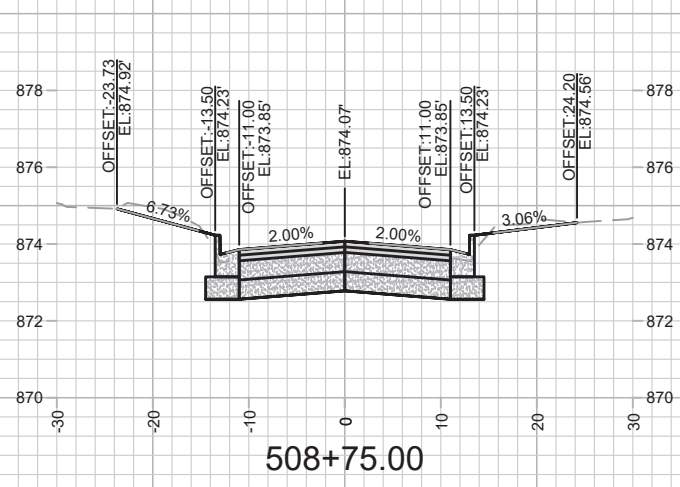
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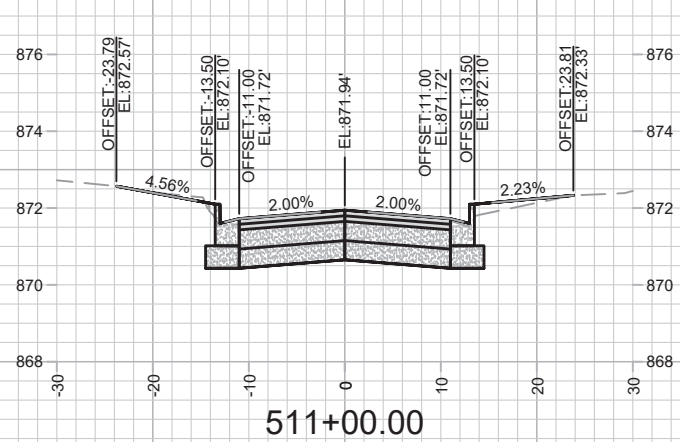


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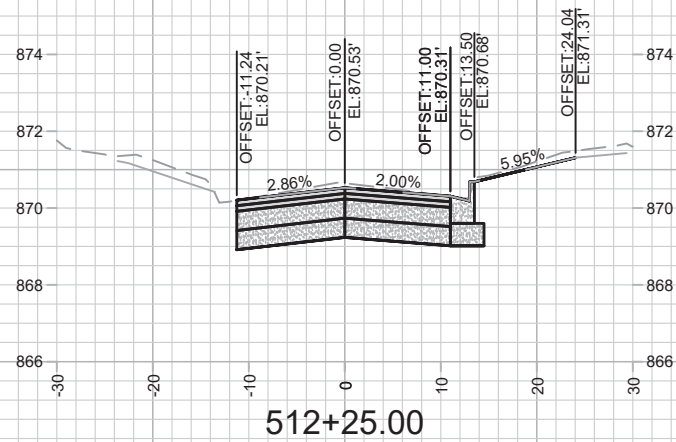
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OHIO AVE - CROSS SECTIONS  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
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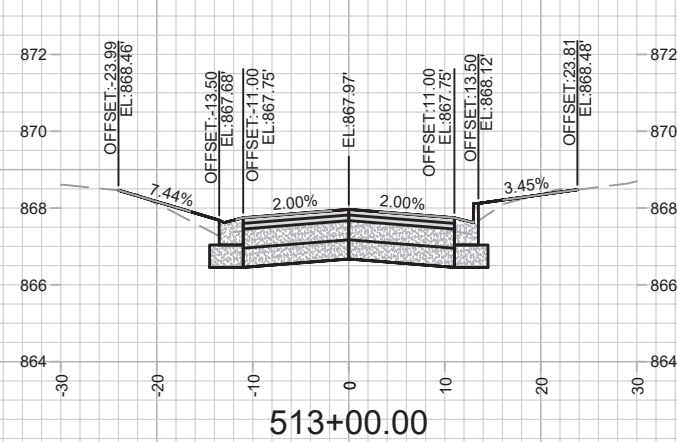
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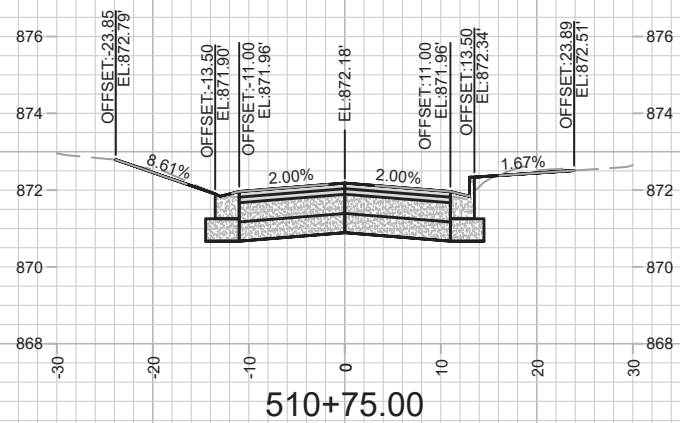
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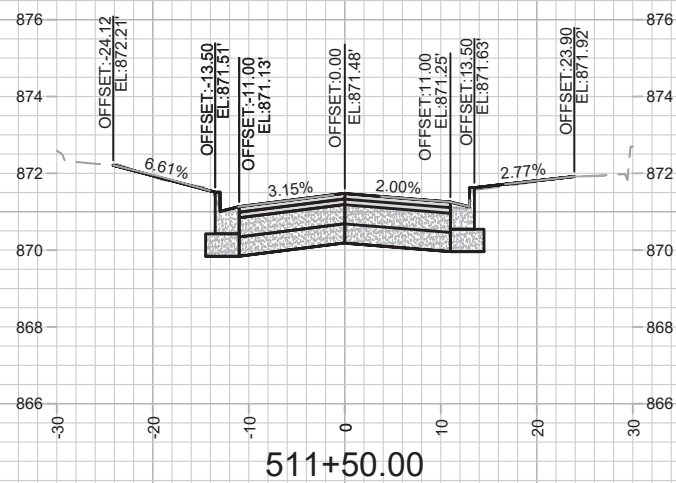
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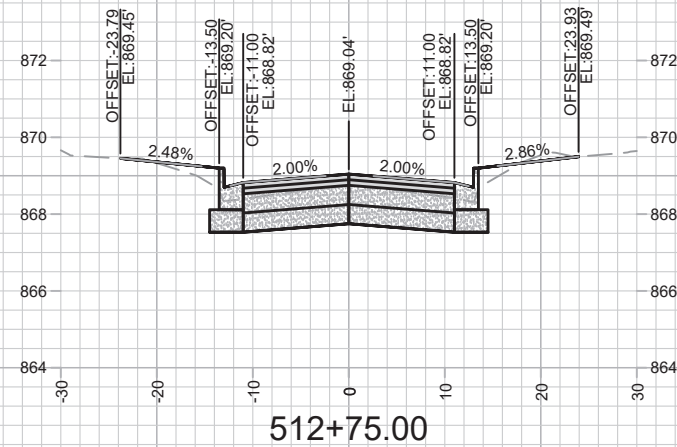
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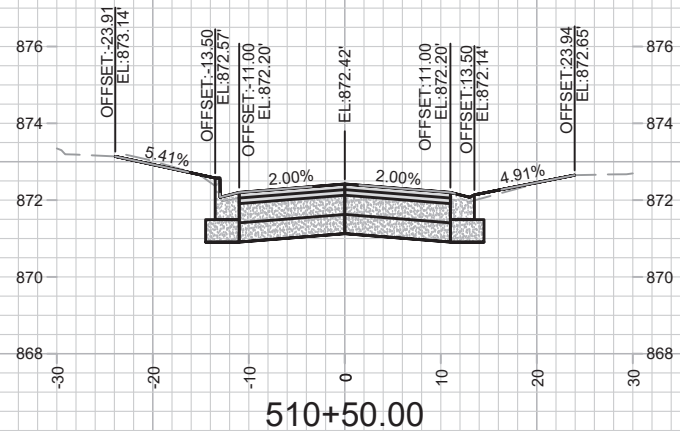
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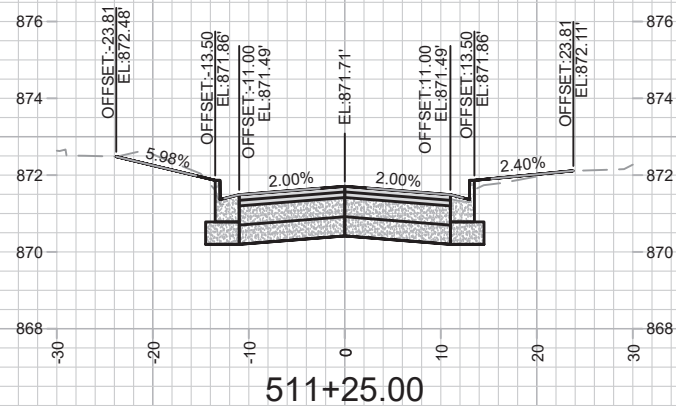
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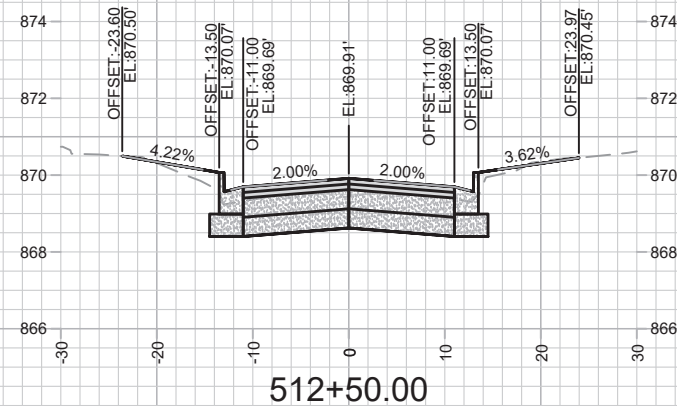
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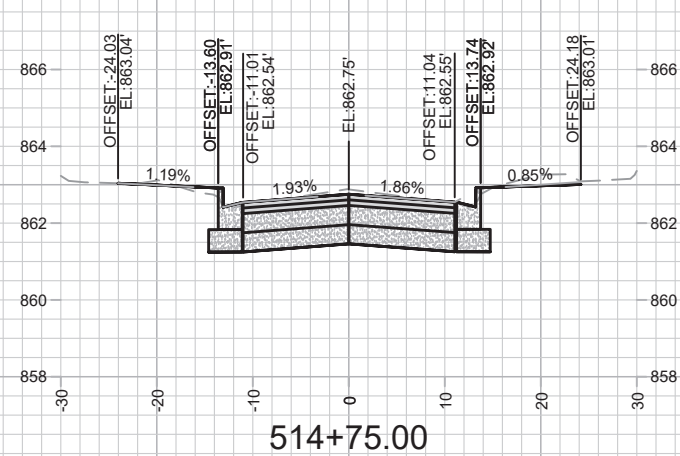
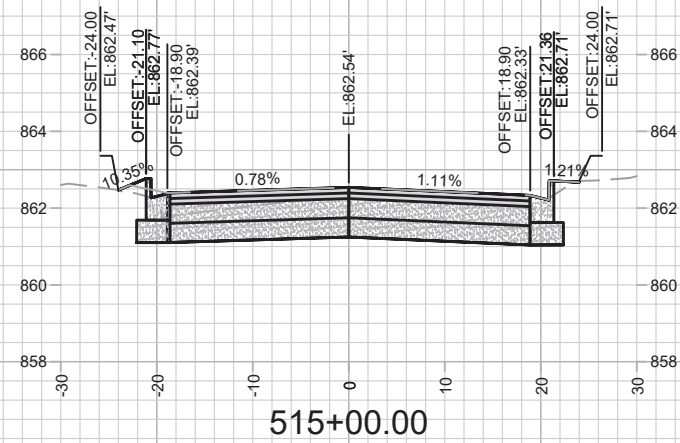
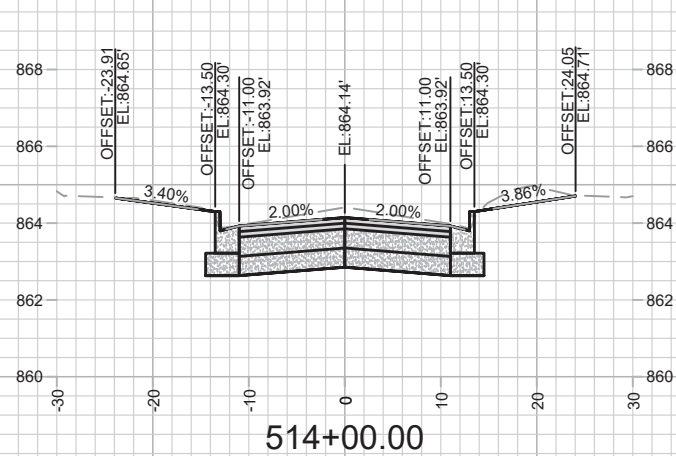
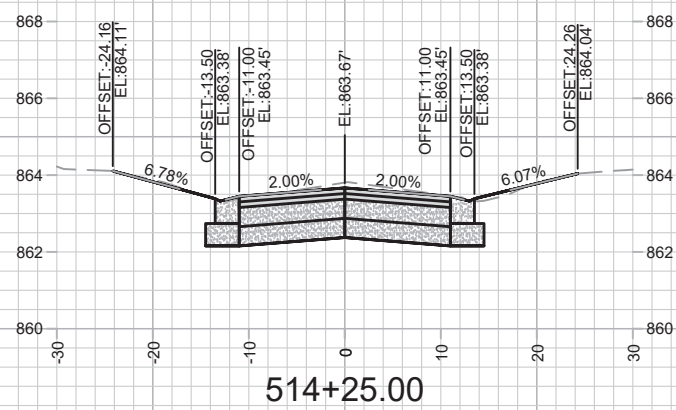
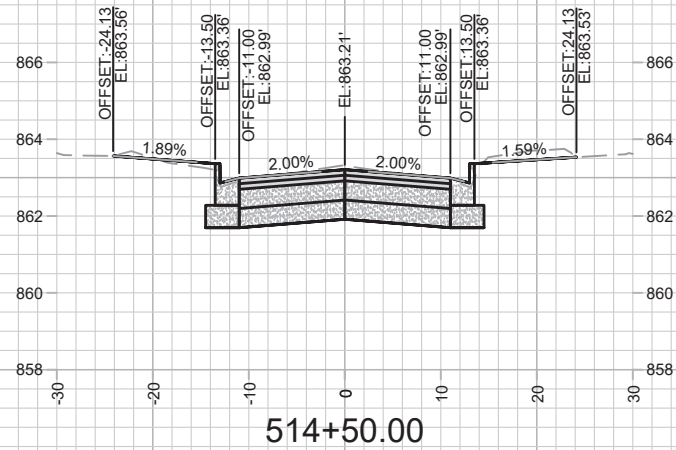
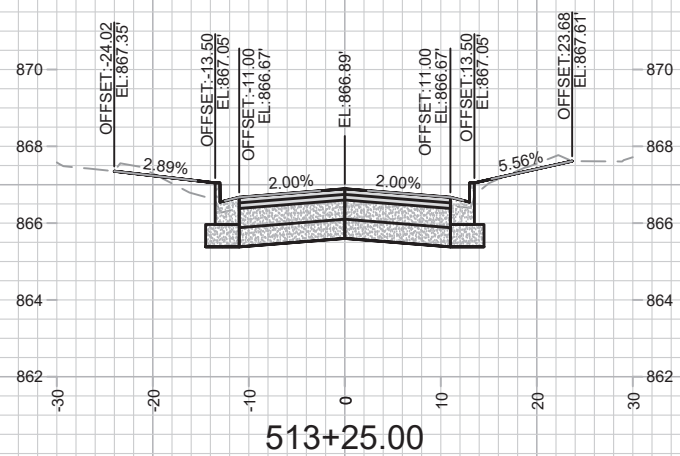
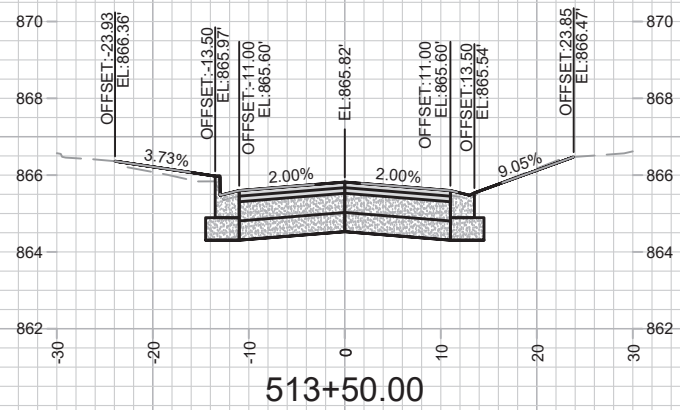
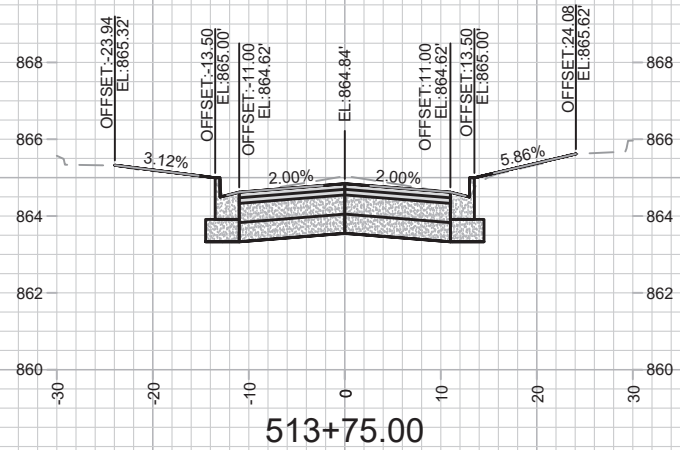
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 OHIO AVE - CROSS SECTIONS  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
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 X-12



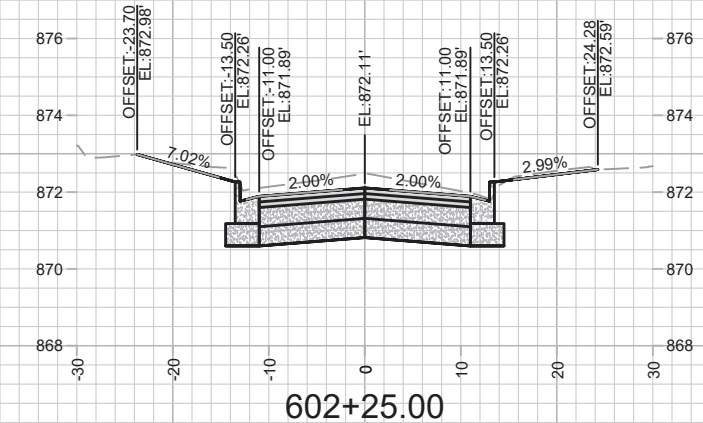
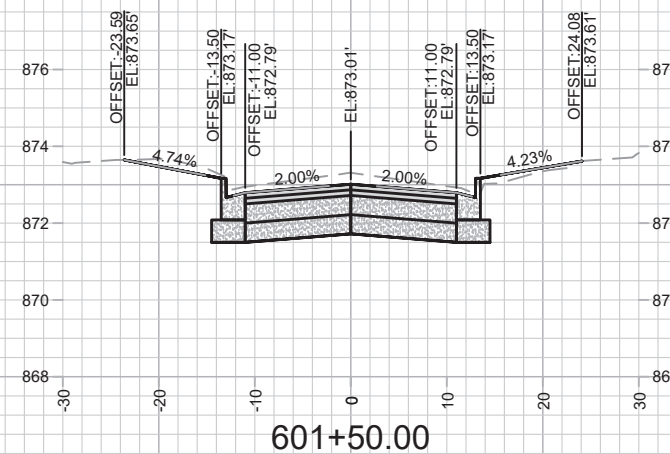
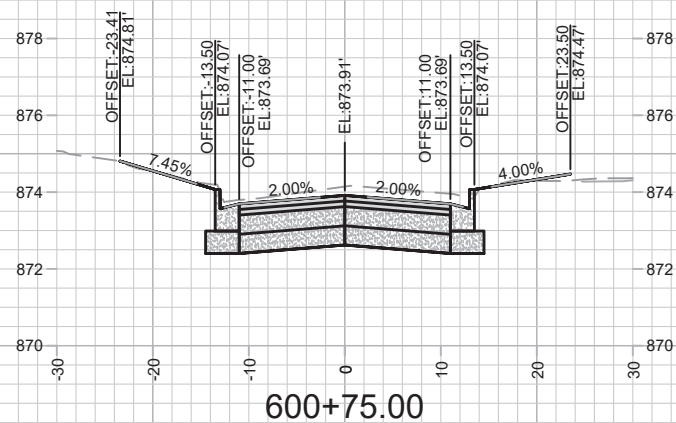
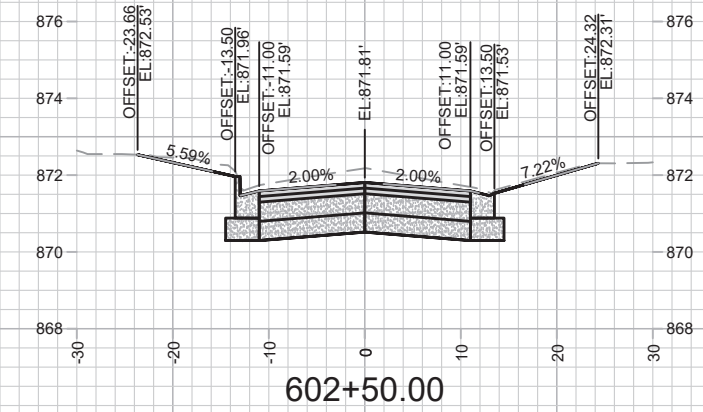
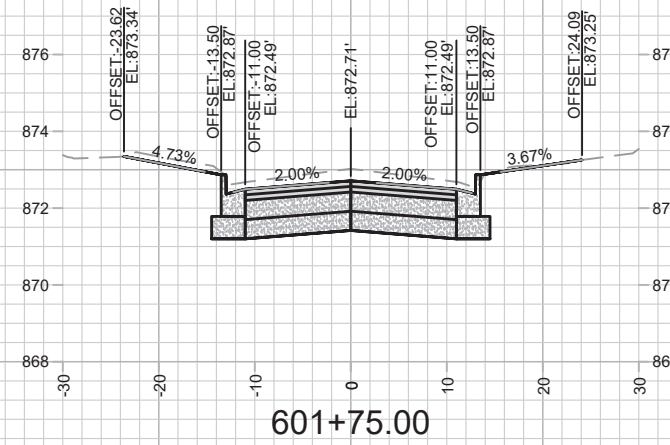
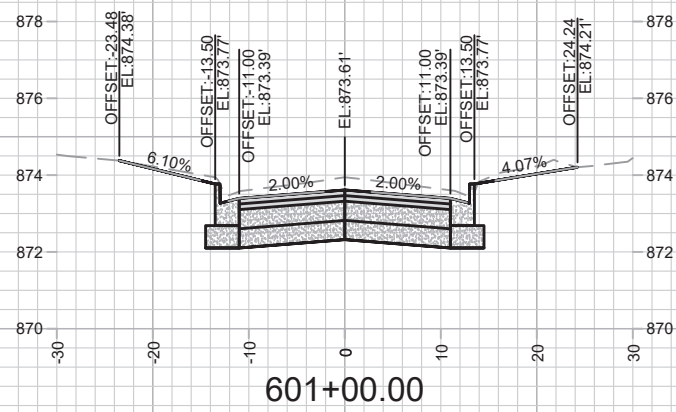
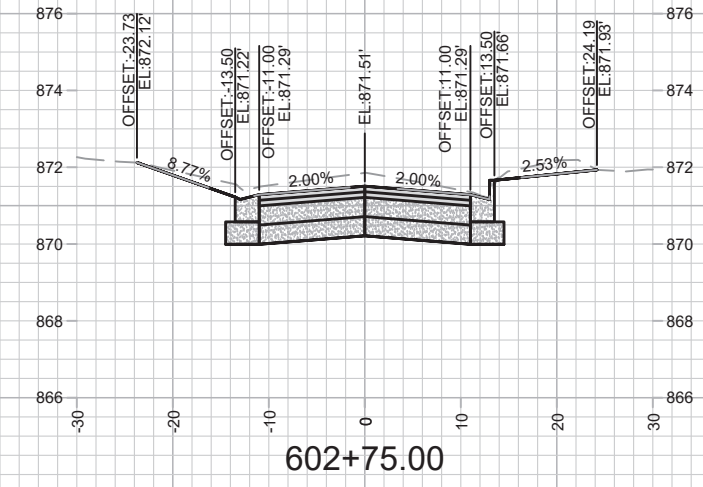
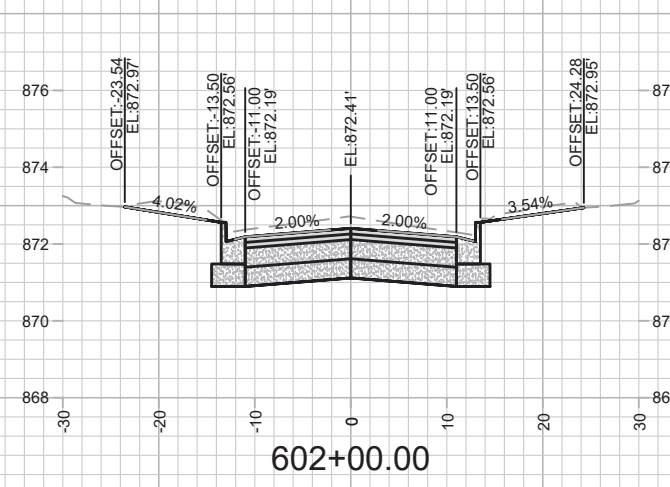
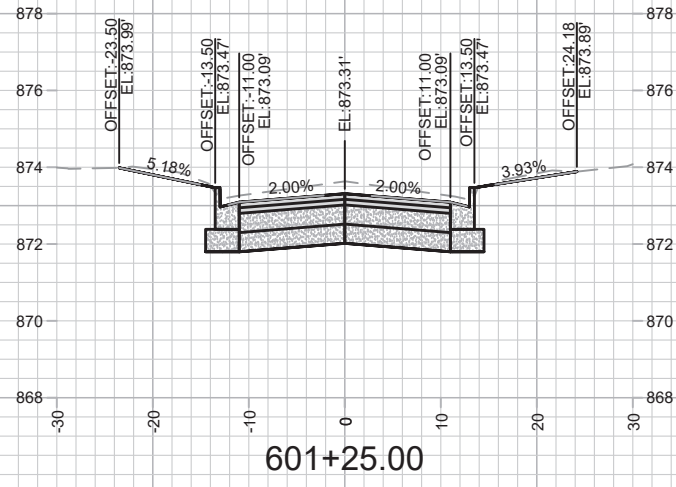
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12907  
 MADISON, WI  
 8616  
 CONTRACT NO:

OHIO AVE - CROSS SECTIONS  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT



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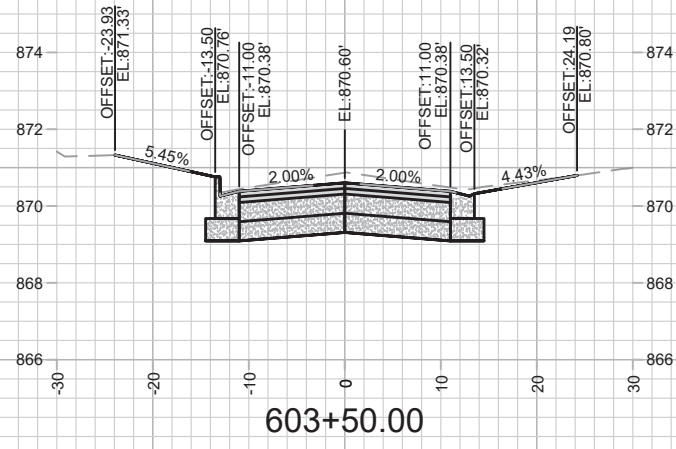
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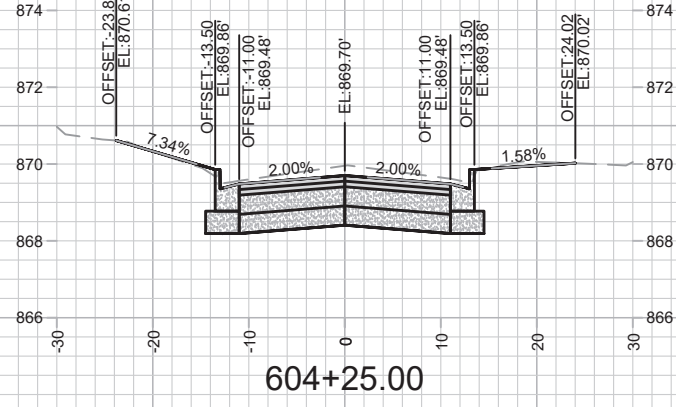
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12907  
X-14

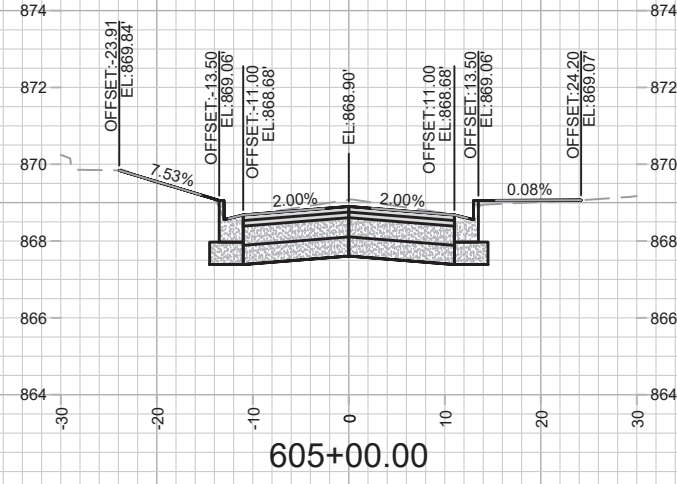




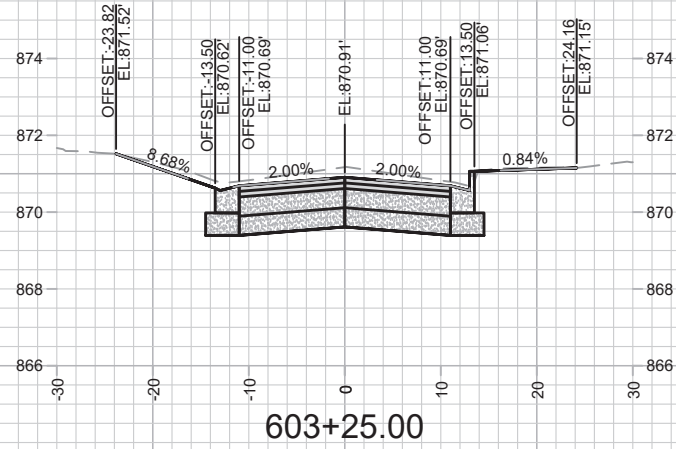
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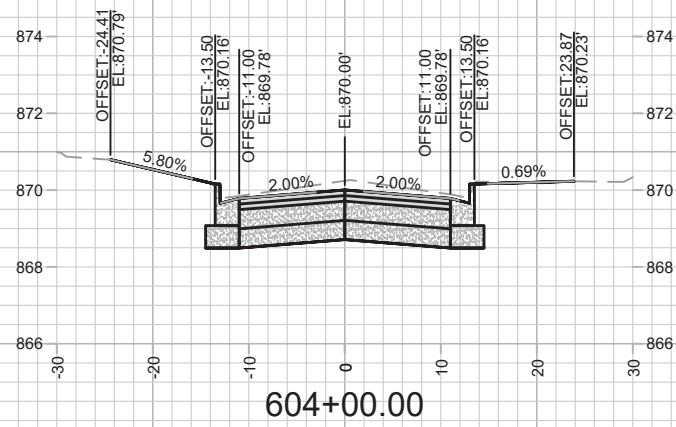
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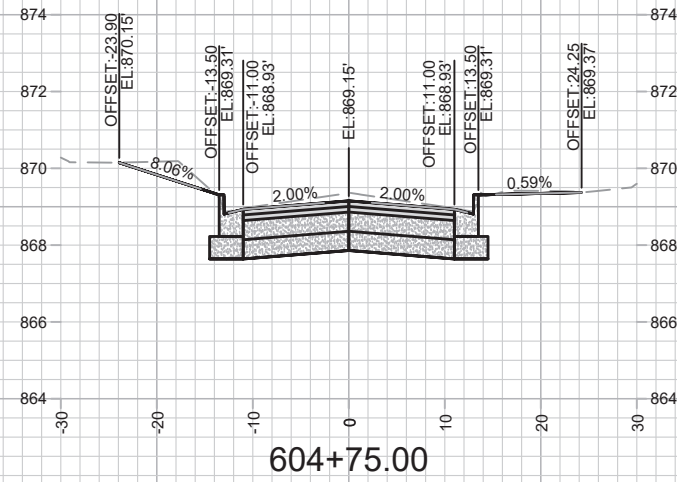
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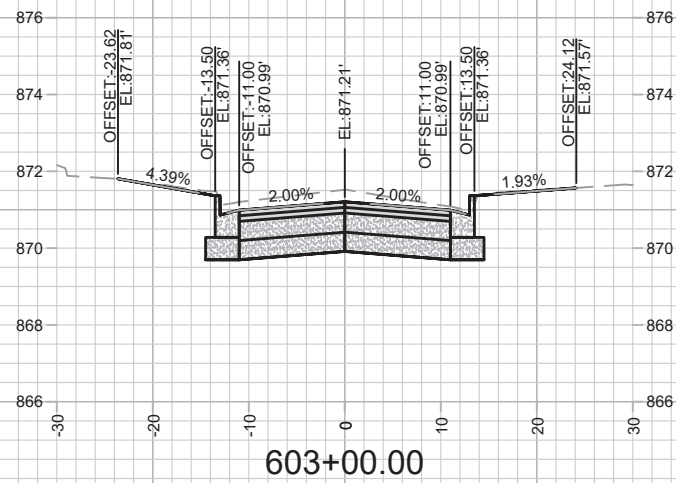
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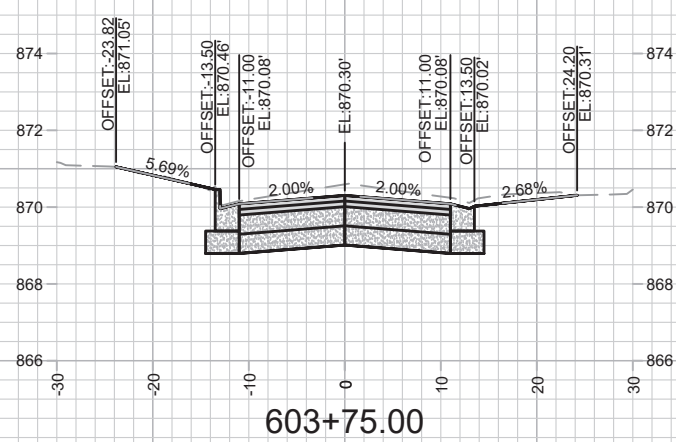
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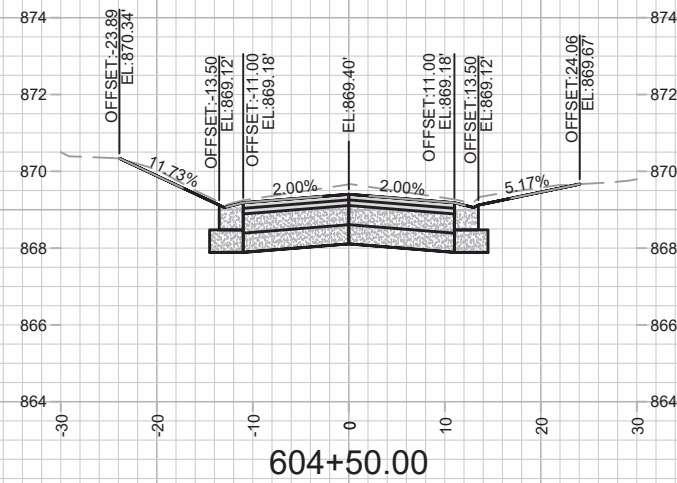
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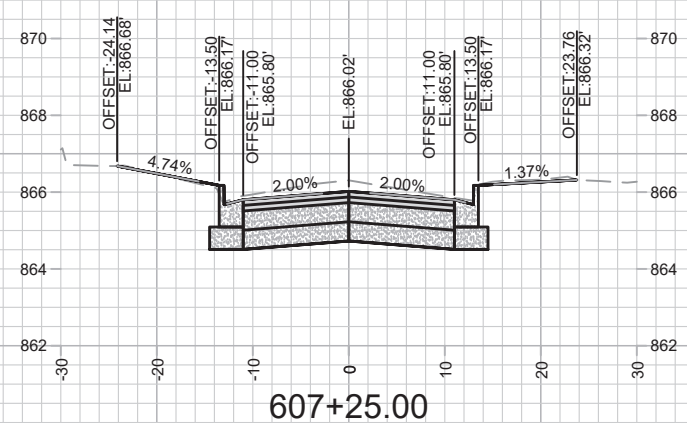
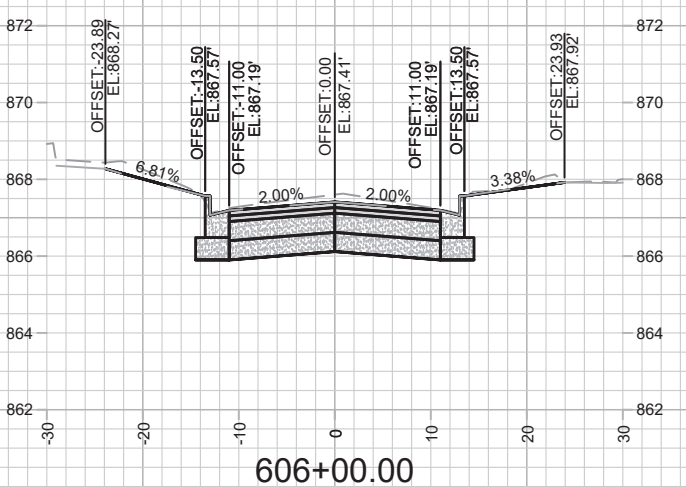
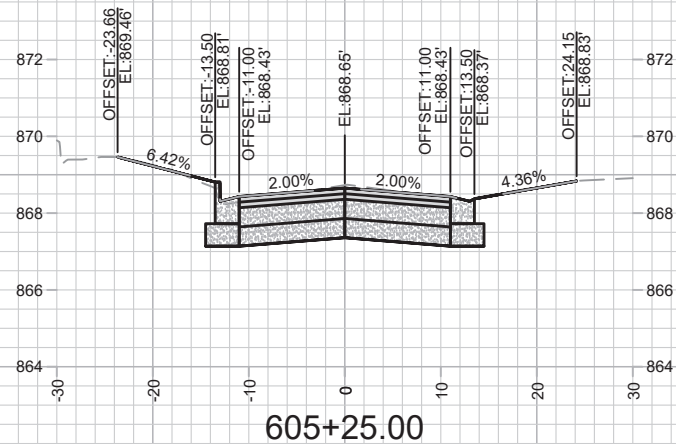
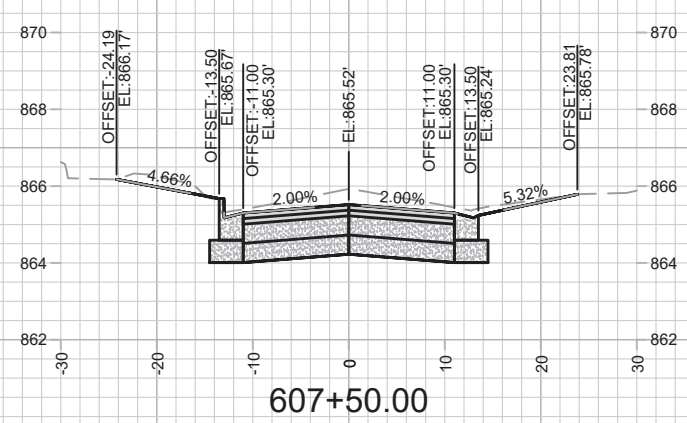
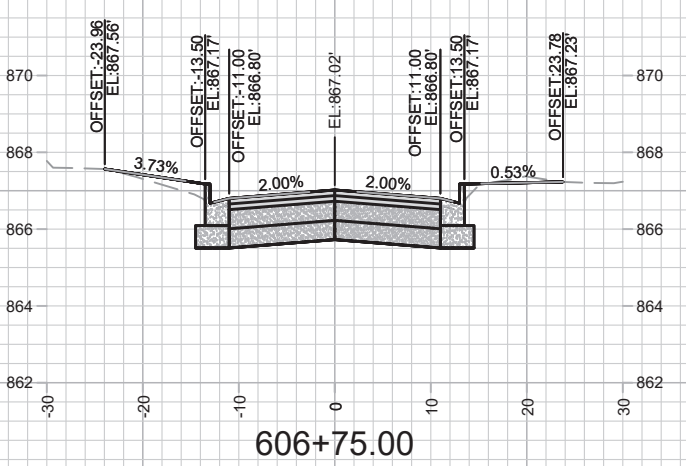
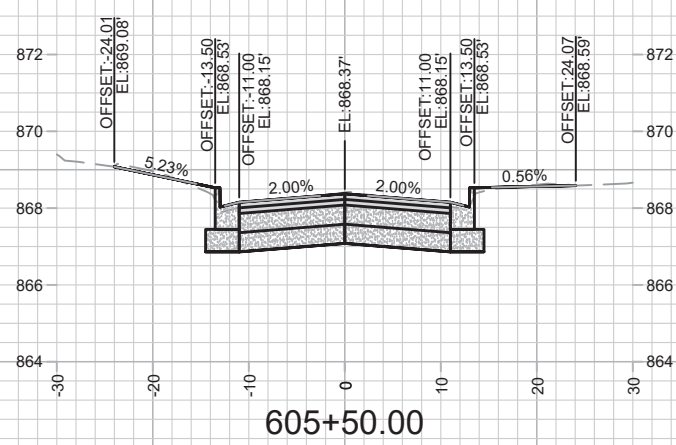
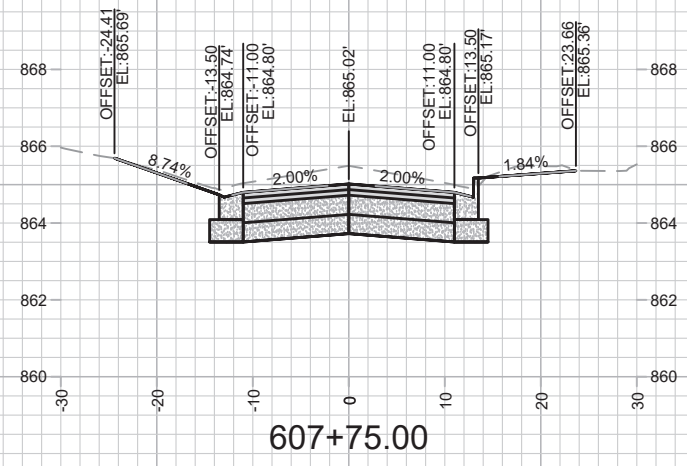
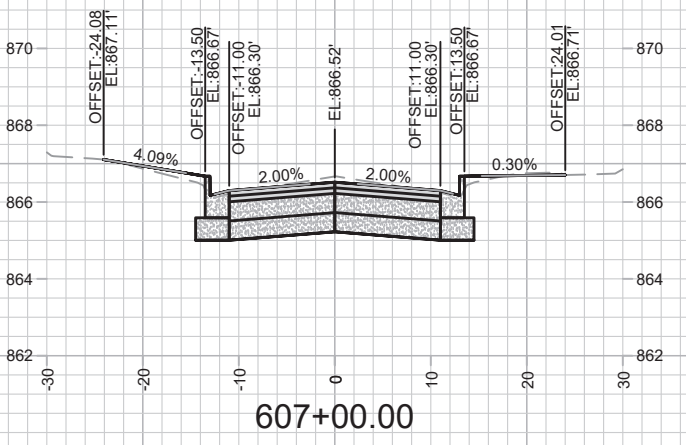
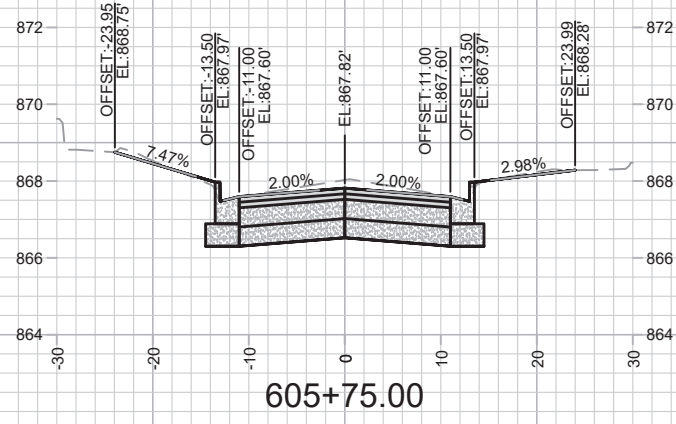
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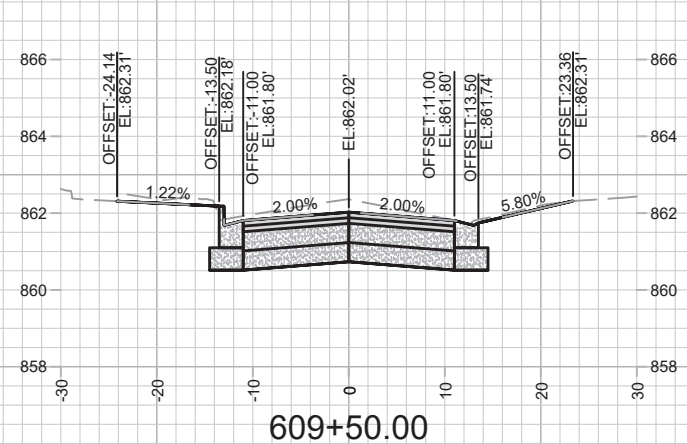
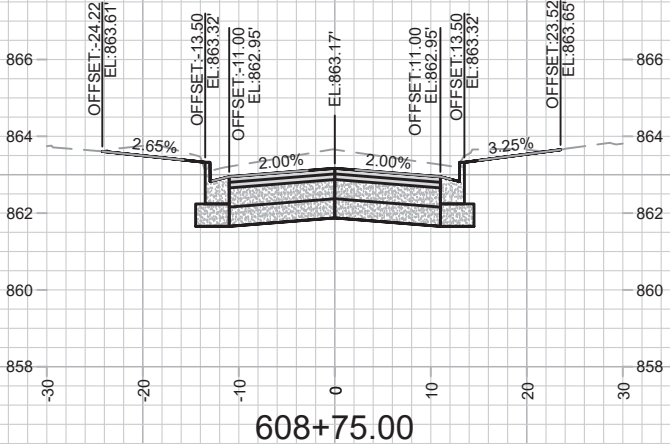
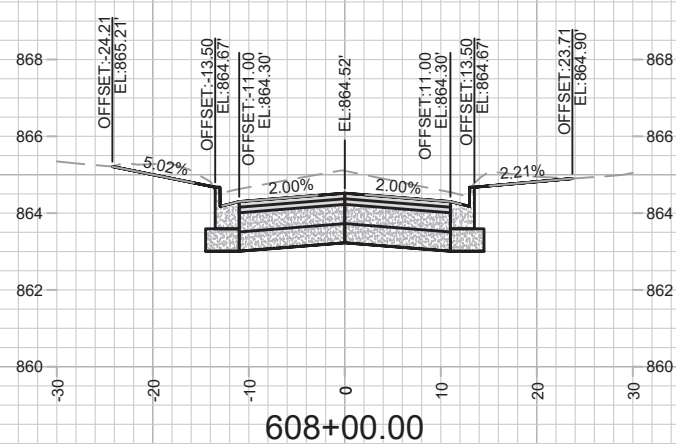
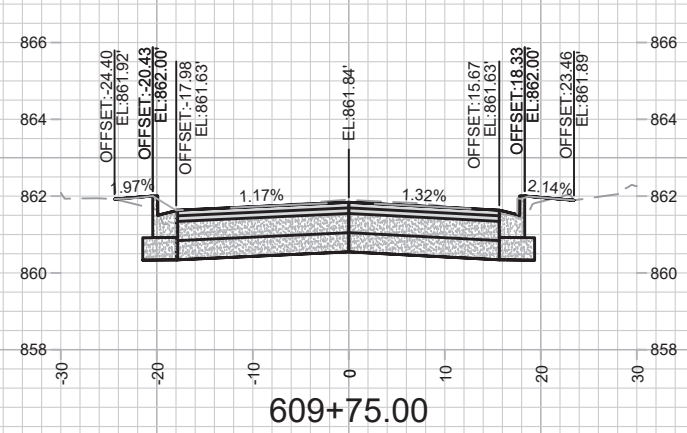
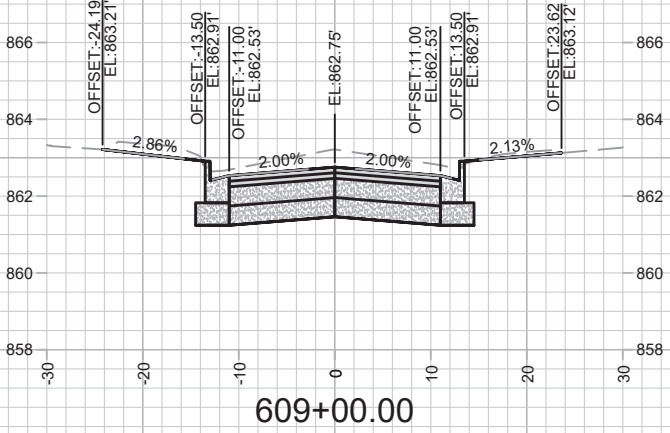
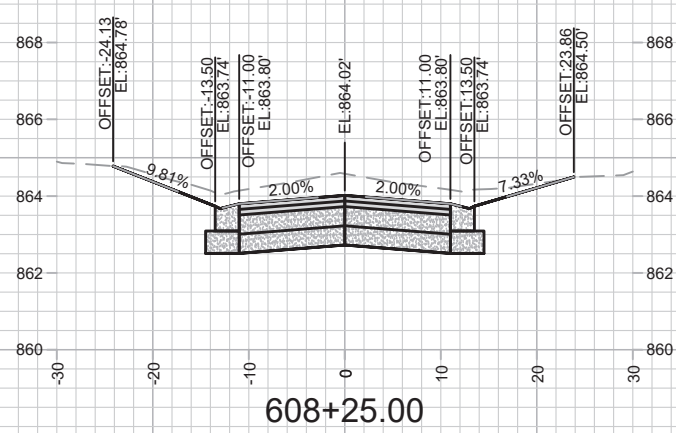
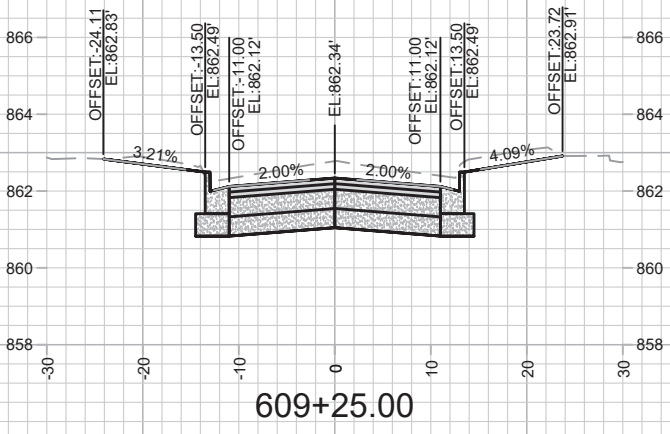
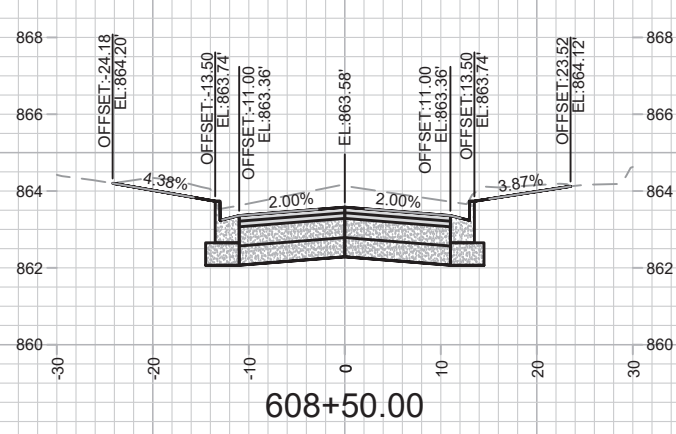


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12907  
 MADISON, WI  
 CONTRACT NO: 8616

TALMADGE ST - CROSS SECTIONS  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
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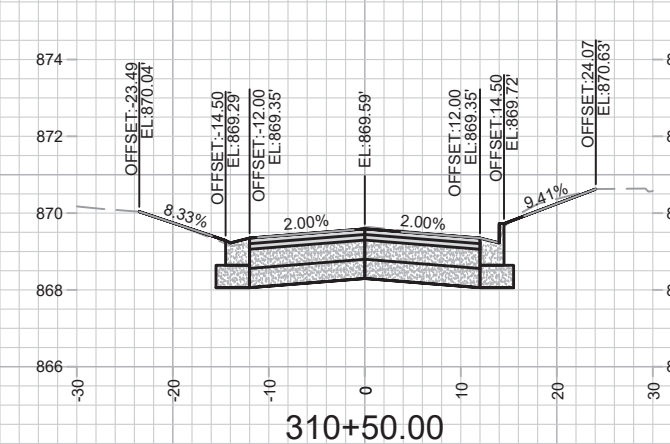
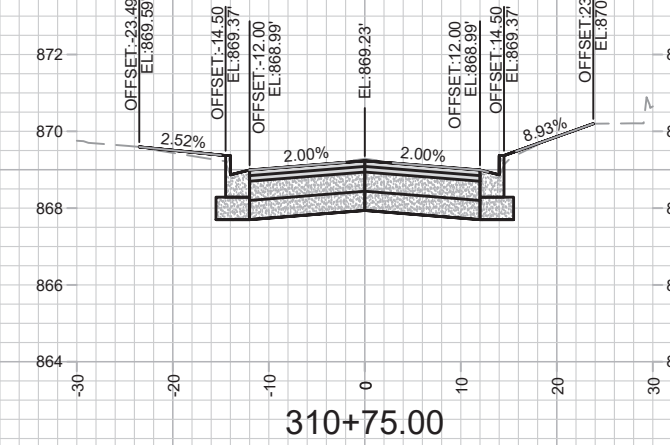
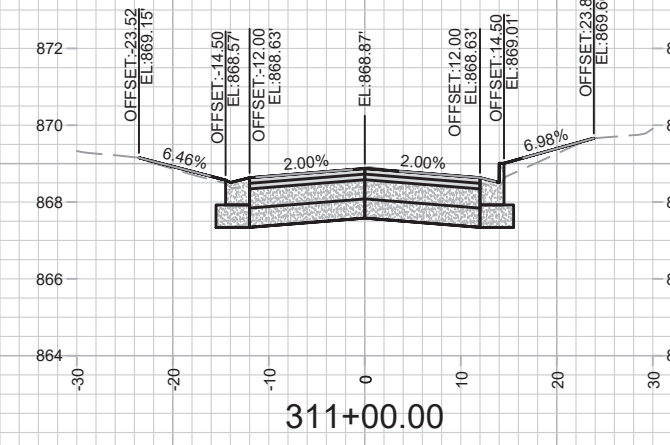
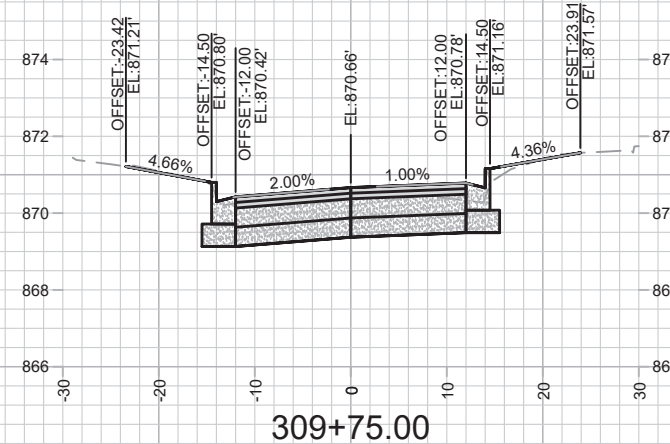
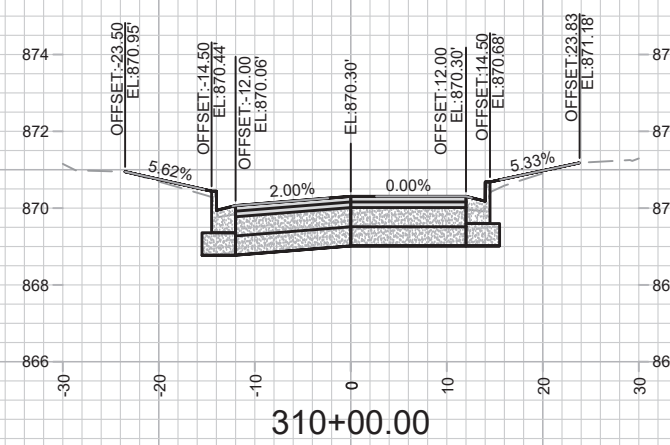
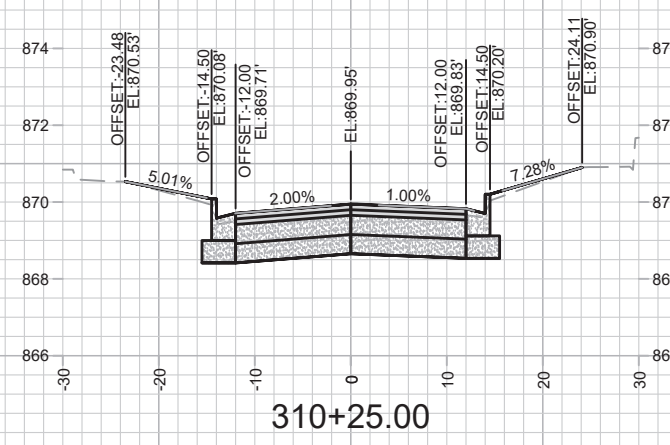
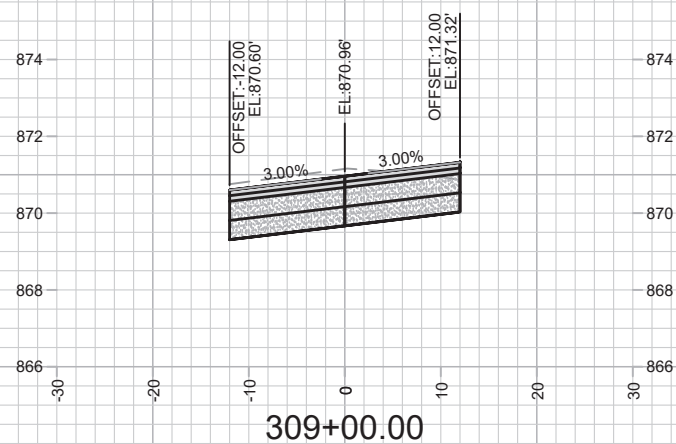
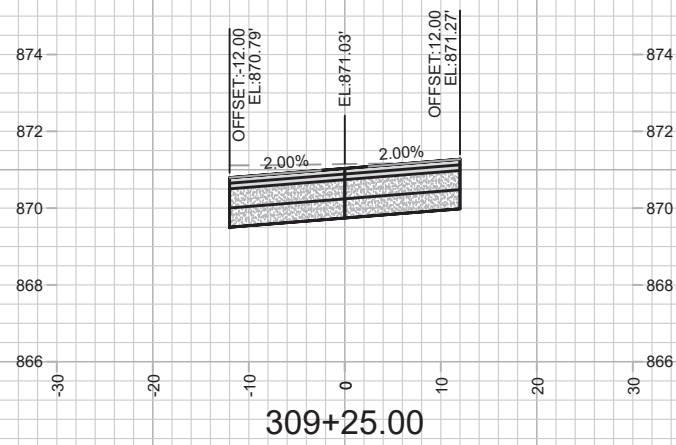
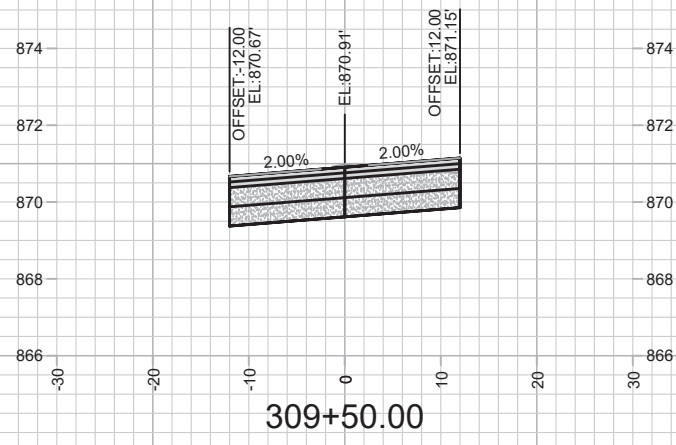


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 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
 CONTRACT NO: 8616  
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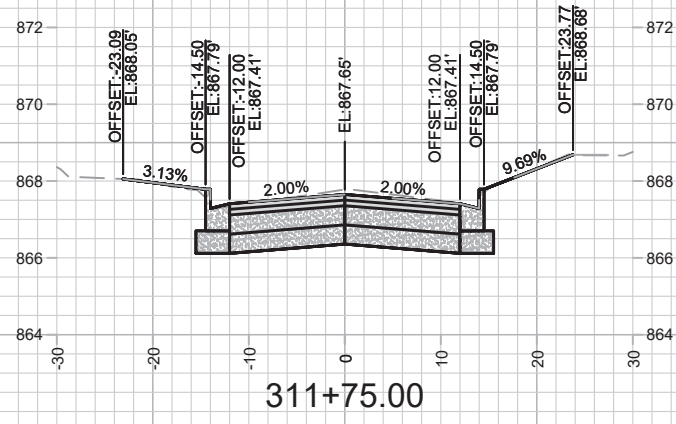
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 MADISON, WI  
 CONTRACT NO: 8616

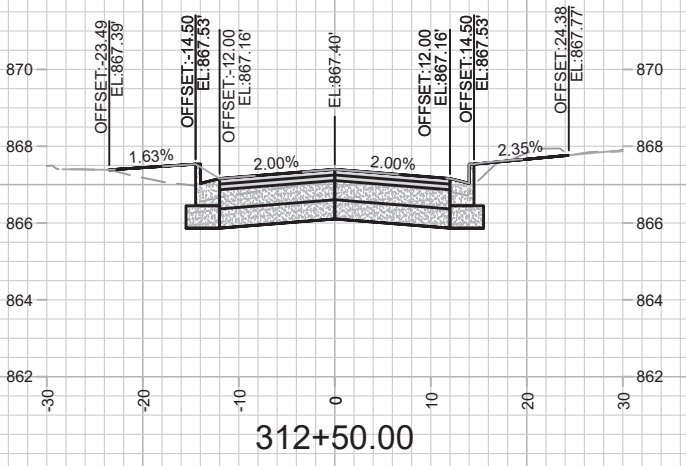
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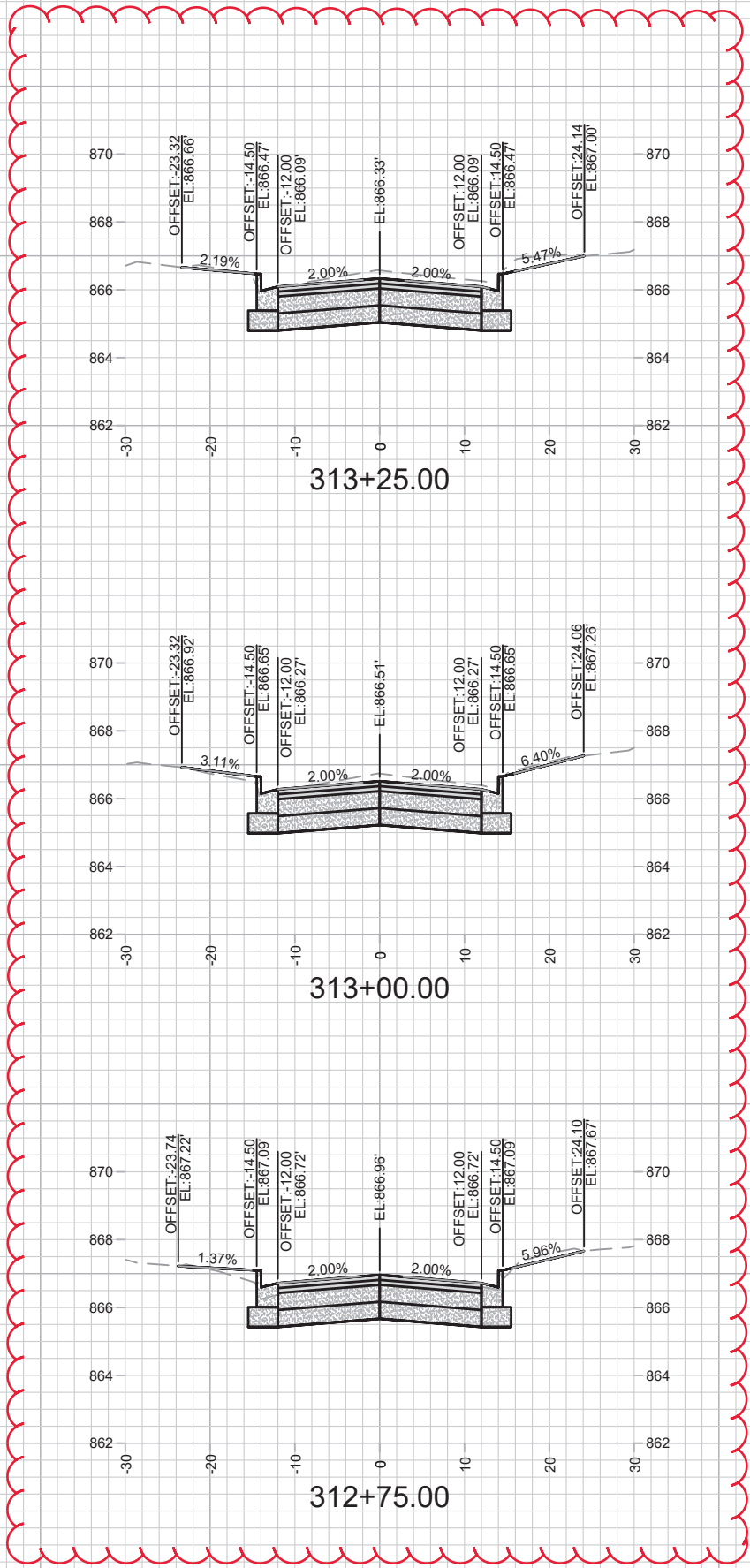
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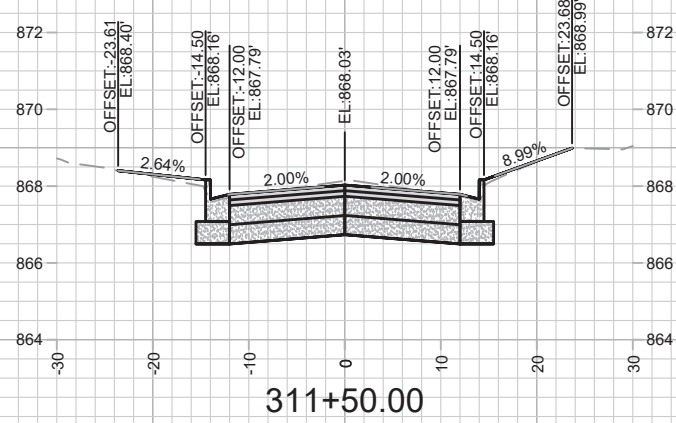
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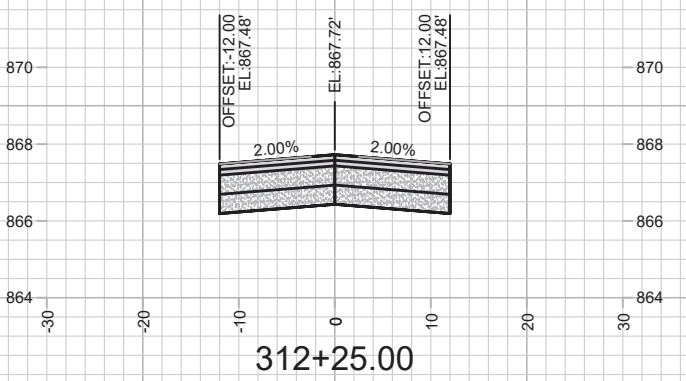
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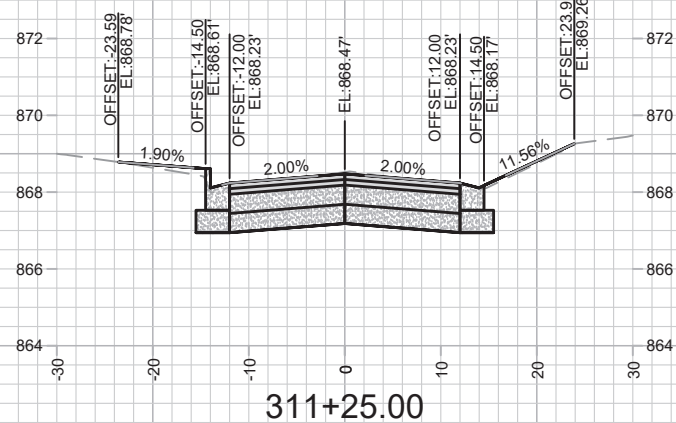
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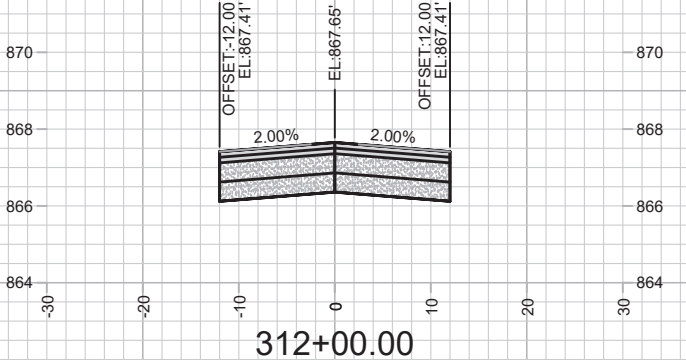
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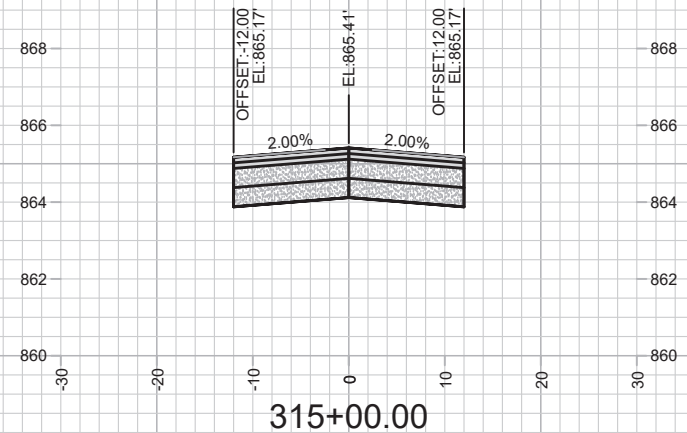
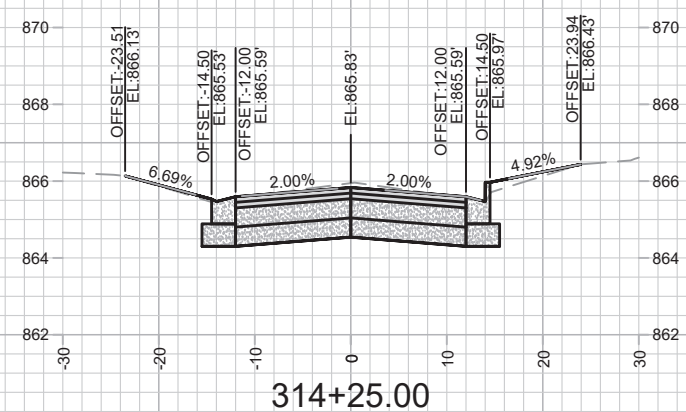
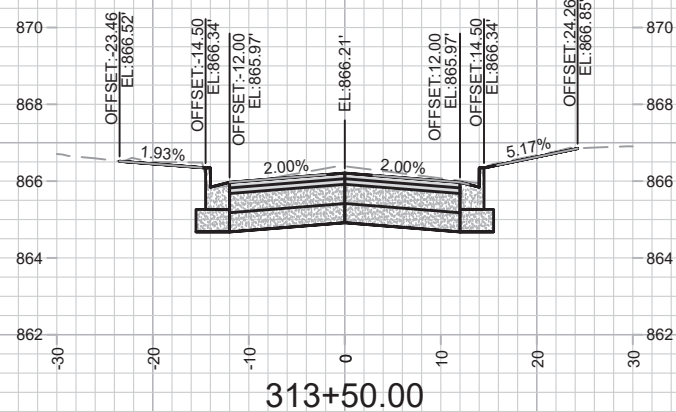
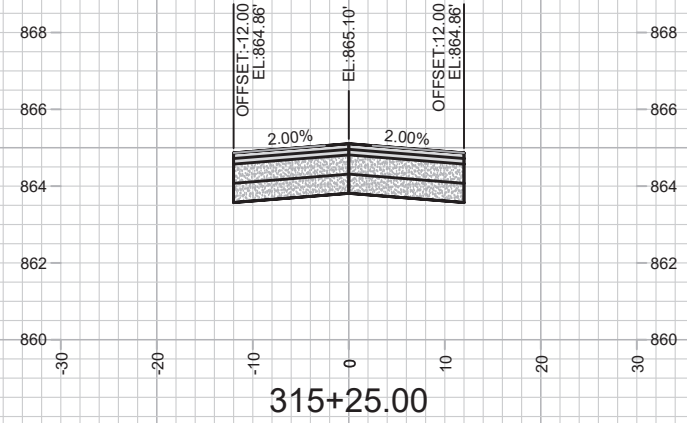
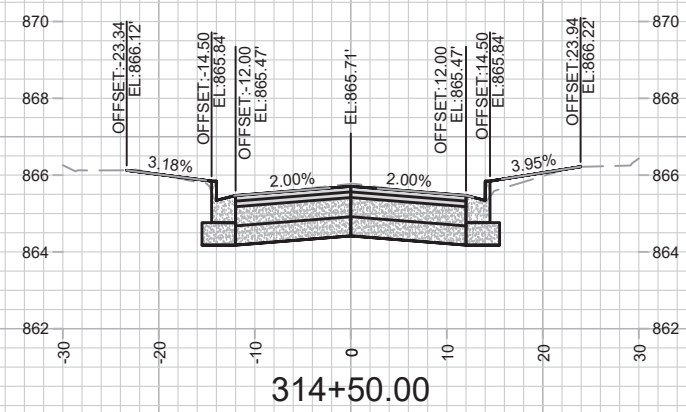
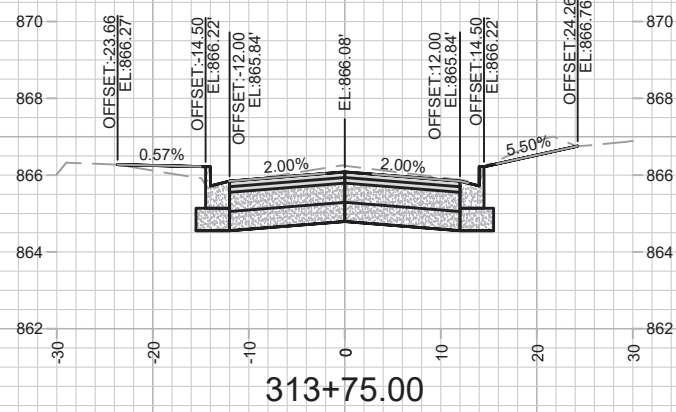
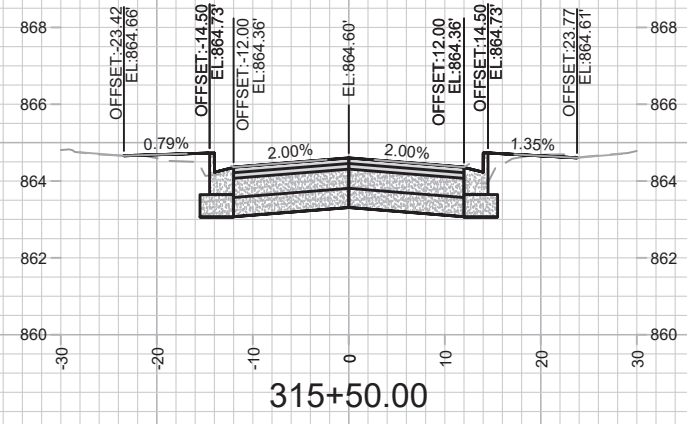
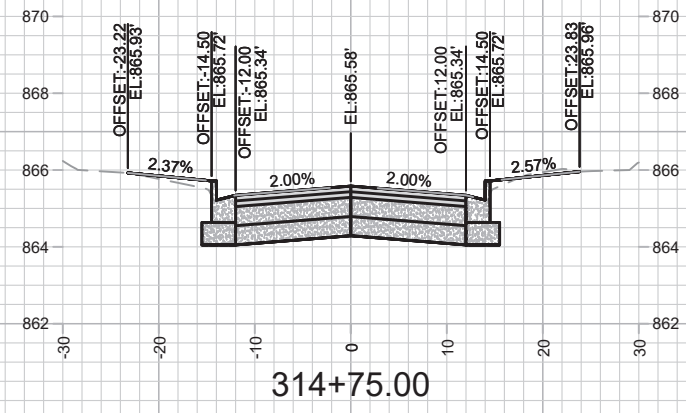
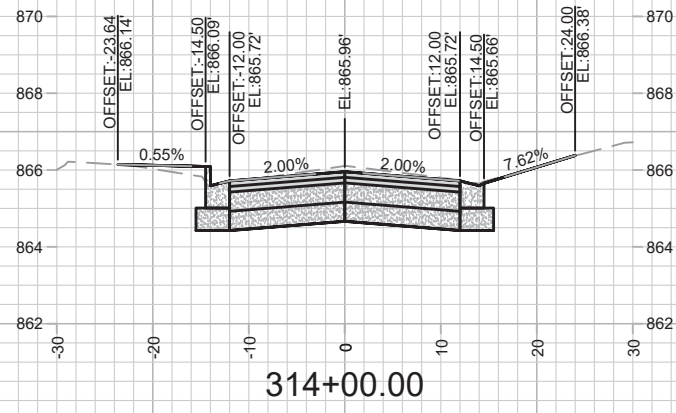
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 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT MADISON, WI  
 CONTRACT NO: 8616



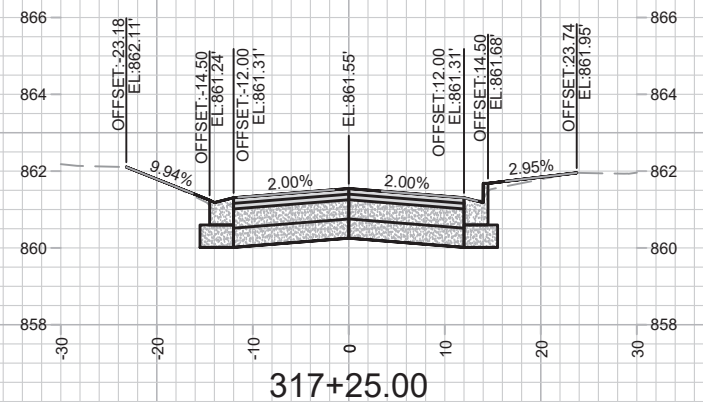
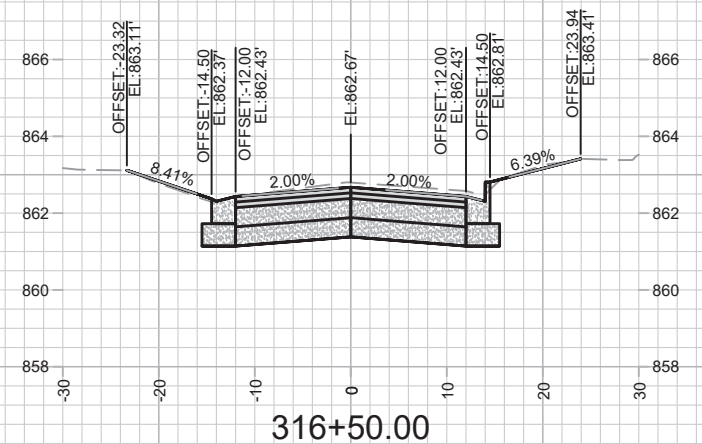
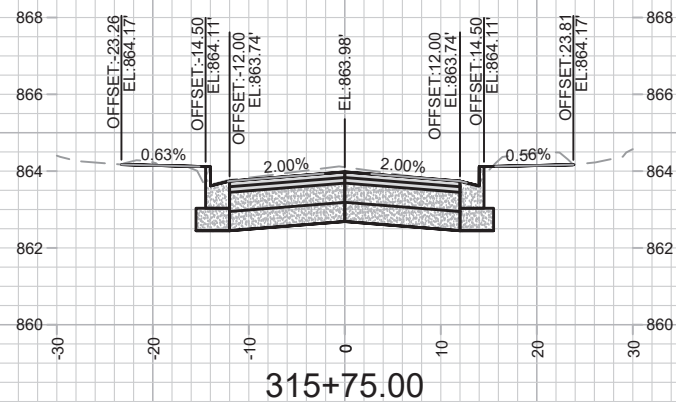
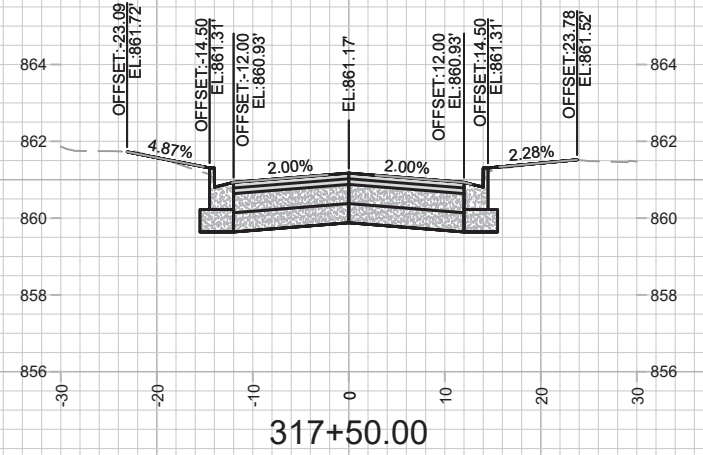
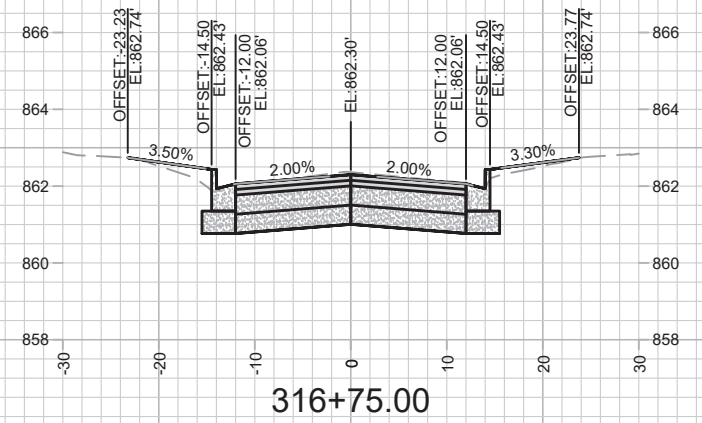
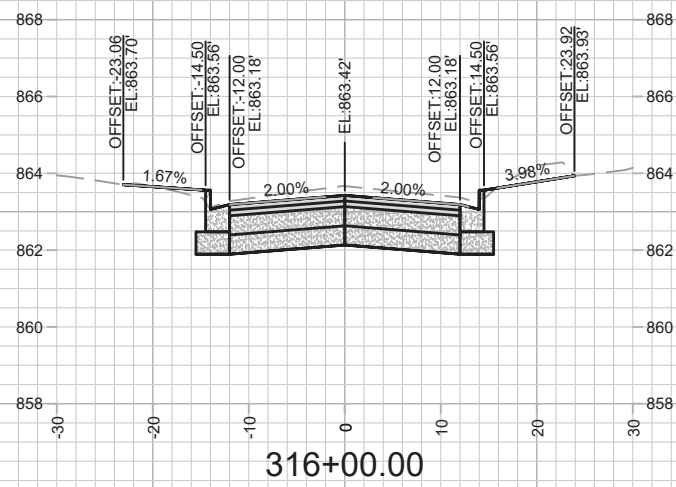
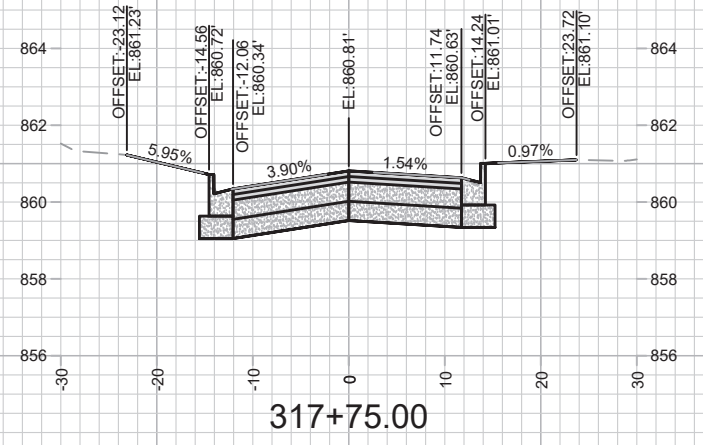
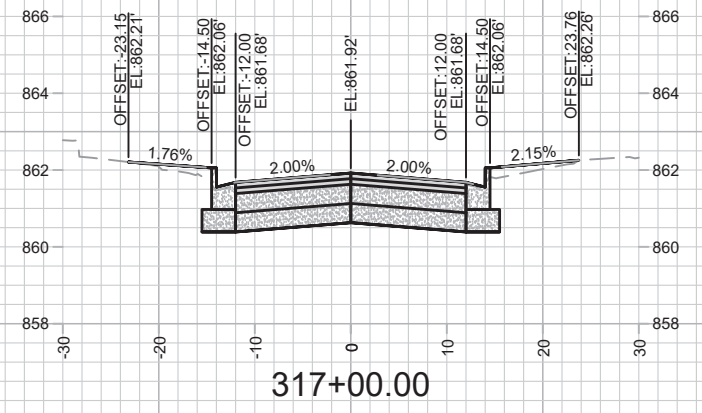
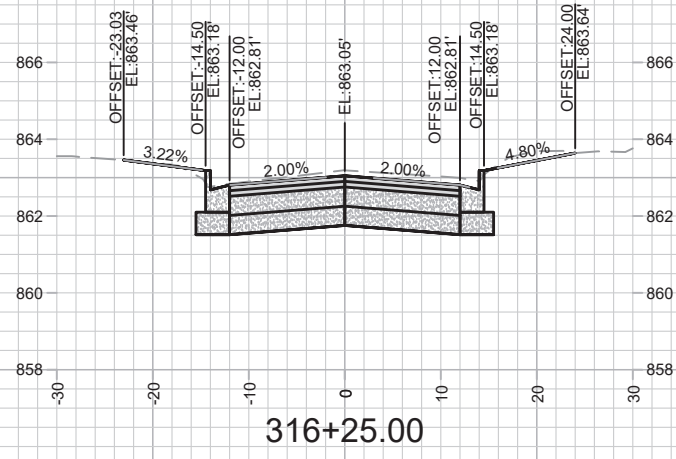
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LAFOLLETTE AVE - CROSS SECTIONS

ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT



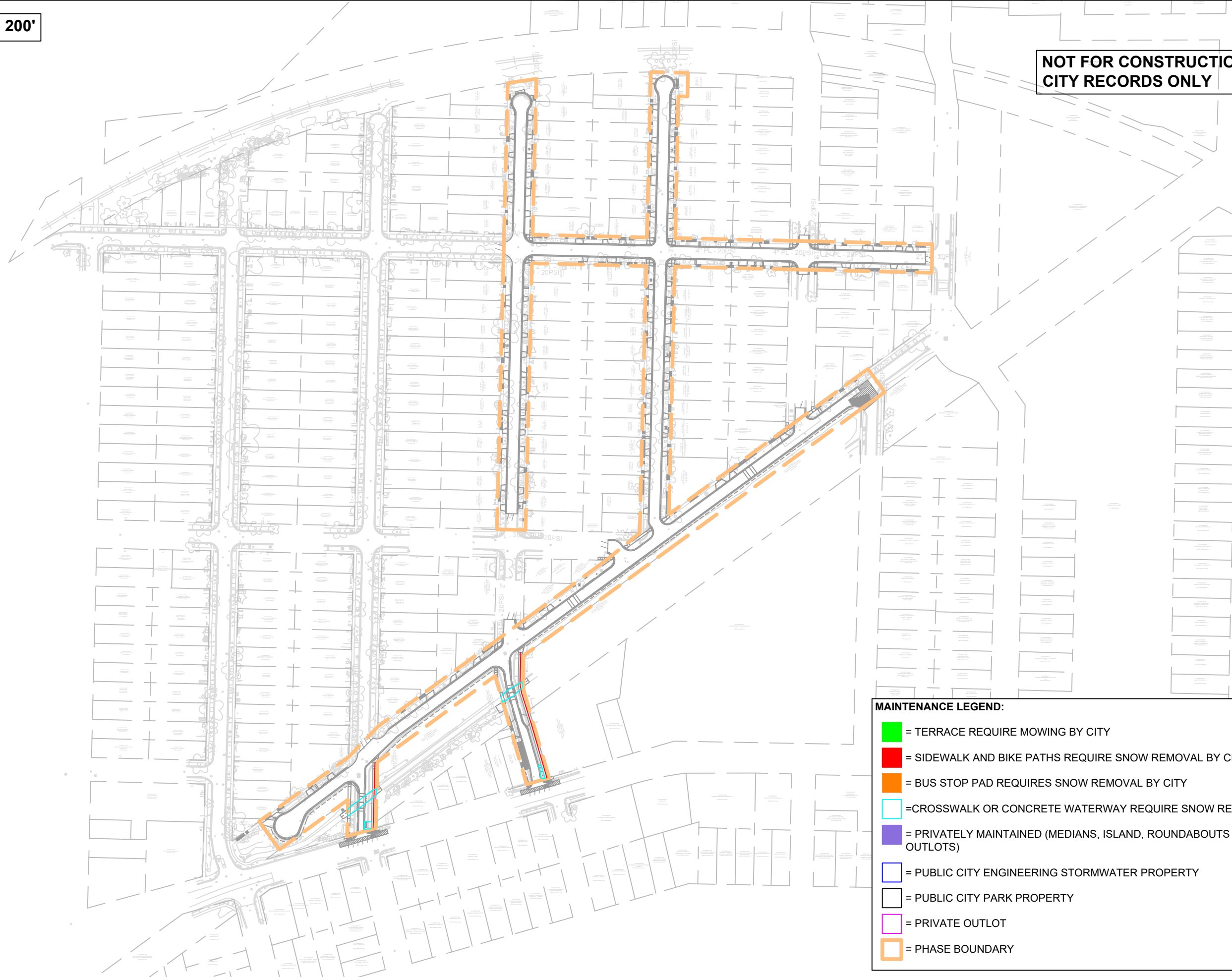
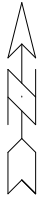
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 CONTRACT NO: 8616



SCALE 1" = 200'

NOT FOR CONSTRUCTION -  
CITY RECORDS ONLY



**MAINTENANCE LEGEND:**

- = TERRACE REQUIRE MOWING BY CITY
- = SIDEWALK AND BIKE PATHS REQUIRE SNOW REMOVAL BY CITY
- = BUS STOP PAD REQUIRES SNOW REMOVAL BY CITY
- = CROSSWALK OR CONCRETE WATERWAY REQUIRE SNOW REMOVAL BY CITY
- = PRIVATELY MAINTAINED (MEDIANS, ISLAND, ROUNDABOUTS & PRIVATE OUTLOTS)
- = PUBLIC CITY ENGINEERING STORMWATER PROPERTY
- = PUBLIC CITY PARK PROPERTY
- = PRIVATE OUTLOT
- = PHASE BOUNDARY

MARK	REVISION	DATE	BY

12907  
 MAINTENANCE MAP  
 ST PAUL, OHIO, TALMADGE, JACKSON AND LAFOLLETTE RECONSTRUCT  
 MADISON, WI  
 CONTRACT NO: 8616

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 MN-1







# 8616 Addendum 1

Final Audit Report

2022-02-14

Created:	2022-02-14
By:	ENG- Johanna Johnson (jjohnson@cityofmadison.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA7eHSgrTD4zZCye3QWph3Zw7Xhyfnrbs

## "8616 Addendum 1" History

-  Document created by ENG- Johanna Johnson (jjohnson@cityofmadison.com)  
2022-02-14 - 9:57:39 PM GMT- IP address: 204.147.0.15
-  Document emailed to ENG- Greg Fries (gfries@cityofmadison.com) for signature  
2022-02-14 - 9:59:02 PM GMT
-  Email viewed by ENG- Greg Fries (gfries@cityofmadison.com)  
2022-02-14 - 11:01:32 PM GMT- IP address: 204.147.0.15
-  Document e-signed by ENG- Greg Fries (gfries@cityofmadison.com)  
Signature Date: 2022-02-14 - 11:01:59 PM GMT - Time Source: server- IP address: 204.147.0.15
-  Agreement completed.  
2022-02-14 - 11:01:59 PM GMT

SECTION E: BIDDERS ACKNOWLEDGEMENT

ST. PAUL AVENUE, OHIO AVENUE, TALMADGE STREET, JACKSON STREET AND LAFOLLETTE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT - 2022 CONTRACT NO. 8616

Bidder must state a Unit Price and Total Bid for each item. The Total Bid for each item must be the product of quantity, by Unit Price. The Grand Total must be the sum of the Total Bids for the various items. In case of multiplication errors or addition errors, the Grand Total with corrected multiplication and/or addition shall determine the Grand Total bid for each contract. The Unit Price and Total Bid must be entered numerically in the spaces provided. All words and numbers shall be written in ink.

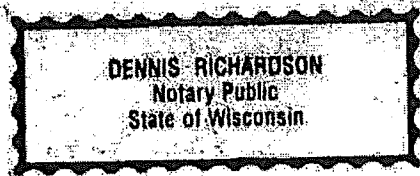
- 1. The undersigned having familiarized himself/herself with the Contract documents, including Advertisement for Bids, Instructions to Bidders, Form of Proposal, City of Madison Standard Specifications for Public Works Construction - 2022 Edition thereto, Form of Agreement, Form of Bond, and Addenda issued and attached to the plans and specifications on file in the office of the City Engineer, hereby proposes to provide and furnish all the labor, materials, tools, and expendable equipment necessary to perform and complete in a workmanlike manner the specified construction on this project for the City of Madison; all in accordance with the plans and specifications as prepared by the City Engineer, including Addenda Nos. 1 through 1 to the Contract, at the prices for said work as contained in this proposal. (Electronic bids submittals shall acknowledge addendum under Section E and shall not acknowledge here)
2. If awarded the Contract, we will initiate action within seven (7) days after notification or in accordance with the date specified in the contract to begin work and will proceed with diligence to bring the project to full completion within the number of work days allowed in the Contract or by the calendar date stated in the Contract.
3. The undersigned Bidder or Contractor certifies that he/she is not a party to any contract, combination in form of trust or otherwise, or conspiracy in restraint of trade or commerce or any other violation of the anti-trust laws of the State of Wisconsin or of the United States, with respect to this bid or contract or otherwise.
4. I hereby certify that I have met the Bid Bond Requirements as specified in Section 102.5. (IF BID BOND IS USED, IT SHALL BE SUBMITTED ON THE FORMS PROVIDED BY THE CITY. FAILURE TO DO SO MAY RESULT IN REJECTION OF THE BID).
5. I hereby certify that all statements herein are made on behalf of R.G. Huston Company, Inc. (name of corporation, partnership, or person submitting bid) a corporation organized and existing under the laws of the State of Wisconsin a partnership consisting of of the City of State of that I have examined and carefully prepared this Proposal, from the plans and specifications and have checked the same in detail before submitting this Proposal; that I have fully authority to make such statements and submit this Proposal in (its, their) behalf, and that the said statements are true and correct.

SIGNATURE Brad Huston
President
TITLE, IF ANY



Sworn and subscribed to before me this 17th day of February, 20 22

(Notary Public or other officer authorized to administer oaths)
My Commission Expires 1/10/2024
Bidders shall not add any conditions or qualifying statements to this Proposal.



Contract 8616 – R. G. Huston Co., Inc.

Section F: Best Value Contracting (BVC)

This section is a required document for the bid to be considered complete. There are two methods for completing the Best Value Contracting (BVC) form. Method one: The form can be filled out online and submitted to this site to be included with your electronic bid. Method two: The form can be downloaded from the site and submitted by hand to the City of Madison.

**Method of Submittal for BVC (click in box below to choose) \***

I will submit Bid Express fillable online form (BVC).

Best Value Contracting

1. The Contractor shall indicate the non-apprenticeable trades used on this contract.

2. Madison General Ordinance (M.G.O.), 33.07(7), does provide for some exemptions from the active apprentice requirement. Apprenticeable trades are those trades considered apprenticeable by the State of Wisconsin. Please check applicable box if you are seeking an exemption.

Contractor has a total skilled workforce of four or less individuals in all apprenticeable trades combined.

No available trade training program; The Contractor has been rejected by the only available trade training program, or there is no trade training program within 90 miles.

Contractor is not using an apprentice due to having a journey worker on layoff status, provided the journey worker was employed by the contractor in the past six months.

First time contractor on City of Madison Public Works contract requests a onetime exemption but intends to comply on all future contracts and is taking steps typical of a "good faith" effort.

Contractor has been in business less than one year.

Contractor doesn't have enough journeyman trade workers to qualify for a trade training program in that respective trade.

An exemption is granted in accordance with a time period of a "Documented Depression" as defined by the State of Wisconsin.

3. The Contractor shall indicate on the following section which apprenticeable trades are to be used on this contract. Compliance with active apprenticeship, to the extent required by M.G.O. 33.07(7), shall be satisfied by documentation from an applicable trade training body; an apprenticeship contract with the Wisconsin Department of

Workforce Development or a similar agency in another state; or the U.S Department of Labor. This documentation is required prior to the Contractor beginning work on the project site.

The Contractor has reviewed the list and shall not use any apprenticeable trades on this project.

LIST APPRENTICABLE TRADES (check all that apply to your work to be performed on this contract)

- BRICKLAYER
- CARPENTER
- CEMENT MASON / CONCRETE FINISHER
- CEMENT MASON (HEAVY HIGHWAY)
- CONSTRUCTION CRAFT LABORER
- DATA COMMUNICATION INSTALLER
- ELECTRICIAN
- ENVIRONMENTAL SYSTEMS TECHNICIAN / HVAC SERVICE TECH/HVAC  
INSTALL / SERVICE
- GLAZIER
- HEAVY EQUIPMENT OPERATOR / OPERATING ENGINEER
- INSULATION WORKER (HEAT and FROST)
- IRON WORKER
- IRON WORKER (ASSEMBLER, METAL BLDGS)
- PAINTER and DECORATOR
- PLASTERER
- PLUMBER
- RESIDENTIAL ELECTRICIAN
- ROOFER and WATER PROOFER
- SHEET METAL WORKER
- SPRINKLER FITTER
- STEAMFITTER
- STEAMFITTER (REFRIGERATION)
- STEAMFITTER (SERVICE)
- TAPER and FINISHER
- TELECOMMUNICATIONS (VOICE, DATA and VIDEO) INSTALLER-TECHNICIAN
- TILE SETTER

St. Paul Avenue, Ohio Avenue, Talmadge Street, Jackson  
Street and LaFollette Avenue Reconstruction Assessment  
District - 2022

CONTRACT NO. 8616

Small Business Enterprise Compliance Report

Cover Sheet

This information **MUST** be submitted in a separate sealed envelope marked  
"ENVELOPE NO. 2 - SBE COMPLIANCE REPORT".

Prime Bidder Information:

Company: R.G. Huston Company, Inc.

Address: 2561 Coffeytown Road  
Cottage Grove, WI 53527

Telephone Number: (608) 255-9223


Fax Number: (608) 839-5936

Contact Person/Title: Brad Huston, President

Prime Bidder Certification:

I, Brad Huston, President of R.G. Huston Company, Inc. certify that the information  
contained in this SBE Compliance Report is true and correct to the best of my  
knowledge and belief.

  
\_\_\_\_\_  
Witness' Signature

  
\_\_\_\_\_  
Bidder's Signature

2/17/2022  
Date



St. Paul Avenue, Ohio Avenue, Talmadge Street, Jackson Street and LaFollette Avenue Reconstruction Assessment District - 2022

CONTRACT NO. 8616

Small Business Enterprise Compliance Report  
Summary Sheet

This information MUST be submitted in a separate sealed envelope marked

"ENVELOPE NO. 2 - SBE COMPLIANCE REPORT".

SBE SUBCONTRACTORS WHO ARE NOT SUPPLIERS

<u>Name(S) of SBEs Utilized</u>	<u>Type of Work</u>	<u>% of Total Bid Amount</u>
Bullet Transit Co., Inc.	Trucking	4.4
Crowley Construction	Pavement Marking	0.7
Greener Valley Landscaping, Inc	Landscaping	1.9

Subtotal SBE who are not suppliers: 7 %

SBE SUBCONTRACTORS WHO ARE SUPPLIERS

<u>Name(S) of SBEs Utilized</u>	<u>Type of Work</u>	<u>% of Total Bid Amount</u>
---------------------------------	---------------------	------------------------------

Subtotal SBE who are suppliers: \_\_\_\_\_ % X 0.6 = \_\_\_\_\_ % (discounted to 60%)

Total Percentage of SBE Utilization: 7 %

**ST. PAUL AVENUE, OHIO AVENUE, TALMADGE STREET, JACKSON STREET AND LAFOLLETTE AVENUE  
RECONSTRUCTION ASSESSMENT DISTRICT - 2022**

CONTRACT NO. 8616

DATE: 2/17/22

**R. G. Huston Co., Inc.**

Item	Quantity	Price	Extension
<b>Section B: Proposal Page</b>			
10701.0 - TRAFFIC CONTROL - LUMP SUM	1.00	\$5,900.00	\$5,900.00
10720.0 - TRAFFIC CONTROL SIGN - PORTABLE ARROW BOARD - DAYS	14.00	\$35.00	\$490.00
10721.0 - TRAFFIC CONTROL SIGN - PORTABLE CHANGEABLE MESSAGE - DAYS	154.00	\$30.00	\$4,620.00
10770.0 - MAINTAIN RESIDENTIAL DRIVEWAY ACCESS - EACH	1.00	\$600.00	\$600.00
10801.0 - ROOT CUTTING - CURB & GUTTER (UNDISTRIBUTED) - L.F.	510.00	\$0.01	\$5.10
10802.0 - ROOT CUTTING - SIDEWALK (UNDISTRIBUTED) - L.F.	100.00	\$0.01	\$1.00
10912.0 - MOBILIZATION - LUMP SUM	1.00	\$266,800.20	\$266,800.20
20101.0 - EXCAVATION CUT - C.Y.	8640.00	\$19.00	\$164,160.00
20130.0 - UNDERDRAIN - L.F.	1780.00	\$16.30	\$29,014.00
20140.0 - GEOTEXTILE FABRIC TYPE SAS NON WOVEN (UNDISTRIBUTED) - S.Y.	3970.00	\$1.65	\$6,550.50
20219.0 - BREAKER RUN - TON	2860.00	\$14.80	\$42,328.00
20221.0 - TOPSOIL - S.Y.	7200.00	\$7.50	\$54,000.00
20303.0 - SAWCUT ASPHALT PAVEMENT - L.F.	470.00	\$2.25	\$1,057.50
20321.0 - REMOVE CONCRETE PAVEMENT - S.Y.	7510.00	\$5.80	\$43,558.00
20322.0 - REMOVE CONCRETE CURB & GUTTER - L.F.	8980.00	\$4.70	\$42,206.00
20323.0 - REMOVE CONCRETE SIDEWALK & DRIVE - S.F.	36770.00	\$2.00	\$73,540.00
20401.0 - CLEARING - I.D.	190.00	\$52.00	\$9,880.00
20406.0 - GRUBBING - I.D.	190.00	\$43.00	\$8,170.00
20504.0 - ADJUST VALVE CASTING - EACH	20.00	\$120.00	\$2,400.00
20701.0 - TERRACE SEEDING - S.Y.	6550.00	\$2.60	\$17,030.00
21063.0 - EROSION MATTING, CLASS I, TYPE A - ORGANIC - S.Y.	7200.00	\$2.10	\$15,120.00
21302.0 - CONSTRUCTION FENCE (PLASTIC) - L.F.	1500.00	\$4.00	\$6,000.00
30201.0 - TYPE 'A' CONCRETE CURB & GUTTER - L.F.	8020.00	\$17.02	\$136,500.40
30203.0 - TYPE 'X' CONCRETE CURB & GUTTER - L.F.	190.00	\$22.21	\$4,219.90
30208.0 - HAND FORMED CONCRETE CURB & GUTTER (TREE LOCATIONS) - L.F.	700.00	\$40.14	\$28,098.00
30301.0 - 5" CONCRETE SIDEWALK - S.F.	25160.00	\$6.45	\$162,282.00
30302.0 - 7" CONCRETE SIDEWALK AND DRIVE - S.F.	21670.00	\$7.05	\$152,773.50
30340.0 - CURB RAMP DETECTABLE WARNING FIELD - S.F.	430.00	\$35.57	\$15,295.10
30342.0 - TREE GRATE 4' X 8' (INCLUDING FRAME) - EACH	2.00	\$5,540.00	\$11,080.00
40101.0 - CRUSHED AGGREGATE BASE COURSE GRADATION NO. 1 - TON	4400.00	\$22.75	\$100,100.00
40102.0 - CRUSHED AGGREGATE BASE COURSE GRADATION NO. 2 - TON	6500.00	\$22.75	\$147,875.00
40202.0 - HMA PAVEMENT 4 LT 58-28 S - TON	2600.00	\$69.80	\$181,480.00
40218.0 - TACK COAT - GAL	880.00	\$3.03	\$2,666.40
40301.0 - FULL WIDTH GRINDING - S.Y.	390.00	\$13.94	\$5,436.60
40402.0 - 9 INCH CONCRETE PAVEMENT - S.Y.	80.00	\$78.36	\$6,268.80
40410.0 - CONCRETE SPEED HUMP - S.Y.	110.00	\$86.89	\$9,557.90
60812.0 - PAVEMENT MARKING EPOXY, CROSSWALK, 6-INCH - L.F.	1554.00	\$5.75	\$8,935.50
60816.0 - PAVEMENT MARKING EPOXY, CONTINENTAL CROSSWALK, 18-INCH - L.F.	360.00	\$17.15	\$6,174.00
60818.0 - PAVEMENT MARKING EPOXY, STOP LINE, 24-INCH - L.F.	156.00	\$22.85	\$3,564.60
60822.0 - PAVEMENT MARKING EPOXY, SYMBOL, BIKE SHARROW - EACH	6.00	\$185.00	\$1,110.00
60881.0 - PAVEMENT MARKING REMOVAL, 6-INCH - L.F.	70.00	\$1.30	\$91.00

**ST. PAUL AVENUE, OHIO AVENUE, TALMADGE STREET, JACKSON STREET AND LAFOLLETTE AVENUE  
RECONSTRUCTION ASSESSMENT DISTRICT - 2022**

CONTRACT NO. 8616

DATE: 2/17/22

**R. G. Huston Co., Inc.**

Item	Quantity	Price	Extension
90001.0 - PROVIDE AND INSTALL SINGLE-STALL BIKE RACK - EACH	3.00	\$750.00	\$2,250.00
90002.0 - PROVIDE AND INSTALL 5-STALL, SINGLE-SIDED BIKE RACK - EACH	1.00	\$1,590.00	\$1,590.00
90003.0 - TERRACE SUPPORT SYSTEM - C.F.	1260.00	\$20.00	\$25,200.00
90004.0 - PLANTING SOIL - C.F.	1260.00	\$3.50	\$4,410.00
90005.0 - PROVIDE AND PLANT TREE - EACH	2.00	\$750.00	\$1,500.00
90006.0 - PROVIDE AND INSTALL TREE GUARD - EACH	2.00	\$800.00	\$1,600.00
90007.0 - MODIFIED TYPE 'A' MOUNTABLE CONCRETE CURB & GUTTER - L.F.	30.00	\$63.01	\$1,890.30
90008.0 - MODIFIED TYPE 'A' BIKE/PED. RAMP CONCRETE CURB & GUTTER - L.F.	140.00	\$42.68	\$5,975.20
90009.0 - GEOSYNTHETIC REINFORCEMENT FABRIC (UNDISTRIBUTED) - S.Y.	250.00	\$6.85	\$1,712.50
90010.0 - HIGH FRICTION COLORED SURFACE - S.F.	350.00	\$15.95	\$5,582.50
20217.0 - CLEAR STONE - TON	1970.00	\$17.50	\$34,475.00
21002.0 - EROSION CONTROL INSPECTION - EACH	5.00	\$185.00	\$925.00
21011.0 - CONSTRUCTION ENTRANCE - EACH	10.00	\$535.00	\$5,350.00
21012.0 - STREET CONSTRUCTION ENTRANCE BERM - EACH	2.00	\$240.00	\$480.00
21013.0 - STREET SWEEPING - LUMP SUM	1.00	\$4,850.00	\$4,850.00
21015.0 - STREET CONSTRUCTION STONE BERM - EACH	28.00	\$240.00	\$6,720.00
21017.0 - SILT SOCK (8 INCH) - COMPLETE - L.F.	40.00	\$10.00	\$400.00
21032.0 - INLET PROTECTION TYPE C - PROVIDE & INSTALL - EACH	6.00	\$306.00	\$1,836.00
21033.0 - INLET PROTECTION TYPE C - MAINTAIN - EACH	10.00	\$20.00	\$200.00
21034.0 - INLET PROTECTION TYPE C - REMOVE - EACH	6.00	\$20.00	\$120.00
21049.0 - INLET PROTECTION RIGID FRAME - PROVIDE & INSTALL - EACH	93.00	\$300.00	\$27,900.00
21050.0 - INLET PROTECTION RIGID FRAME - MAINTAIN - EACH	140.00	\$30.00	\$4,200.00
21051.0 - INLET PROTECTION RIGID FRAME - REMOVE - EACH	93.00	\$20.00	\$1,860.00
50401.0 - 12 INCH TYPE I RCP STORM SEWER PIPE - L.F.	689.00	\$80.00	\$55,120.00
50741.0 - TYPE H INLET - EACH	50.00	\$2,100.00	\$105,000.00
20311.0 - REMOVE SEWER ACCESS STRUCTURE (STORM) - EACH	4.00	\$400.00	\$1,600.00
20312.0 - REMOVE CATCHBASIN - EACH	7.00	\$400.00	\$2,800.00
20313.0 - REMOVE INLET - EACH	25.00	\$400.00	\$10,000.00
20314.0 - REMOVE PIPE (STORM) - L.F.	675.00	\$31.00	\$20,925.00
20336 - PIPE PLUG (STORM) - EACH	18.00	\$480.00	\$8,640.00
20501 - ADJUST SEWER ACCESS STRUCTURE - EACH	1.00	\$315.00	\$315.00
50211.0 - SELECT BACKFILL FOR STORM SEWER - T.F.	4073.50	\$0.01	\$40.74
50225.0 - UTILITY TRENCH PATCH TYPE III - T.F.	40.00	\$86.00	\$3,440.00
50390.0 - SEWER ELECTRONIC MARKERS - EACH	4.00	\$38.00	\$152.00
50402.0 - 15 INCH TYPE I RCP STORM SEWER PIPE - L.F.	832.50	\$78.00	\$64,935.00
50403.0 - 18 INCH TYPE I RCP STORM SEWER PIPE - L.F.	882.50	\$82.00	\$72,365.00
50404.0 - 21 INCH TYPE I RCP STORM SEWER PIPE - L.F.	591.00	\$87.00	\$51,417.00
50405.0 - 24 INCH TYPE I RCP STORM SEWER PIPE - L.F.	243.00	\$92.00	\$22,356.00
50407.0 - 27 INCH TYPE I RCP STORM SEWER PIPE - L.F.	307.00	\$100.00	\$30,700.00
50407.0 - 30 INCH TYPE I RCP STORM SEWER PIPE - L.F.	284.50	\$122.00	\$34,709.00
50408.0 - 33 INCH TYPE I RCP STORM SEWER PIPE - L.F.	135.50	\$155.00	\$21,002.50
50409.0 - 36 INCH TYPE I RCP STORM SEWER PIPE - L.F.	108.50	\$157.00	\$17,034.50
50455.0 - STORM BEND - EACH	2.00	\$1,015.00	\$2,030.00
50499.0 - CONCRETE COLLAR - EACH	2.00	\$470.00	\$940.00



**ST. PAUL AVENUE, OHIO AVENUE, TALMADGE STREET, JACKSON STREET AND LAFOLLETTE AVENUE  
RECONSTRUCTION ASSESSMENT DISTRICT - 2022**

CONTRACT NO. 8616

DATE: 2/17/22

**R. G. Huston Co., Inc.**

Item	Quantity	Price	Extension
50723.0 - 3'X3' STORM SAS - EACH	21.00	\$2,600.00	\$54,600.00
50724.0 - 4'X4' STORM SAS - EACH	10.00	\$3,425.00	\$34,250.00
50767.0 - TERRACE INLET TYPE 2 - EACH	2.00	\$6,770.00	\$13,540.00
50792.0 - STORM SEWER TAP - EACH	8.00	\$800.00	\$6,400.00
50794.0 - PRIVATE STORM SEWER RECONNECT, TYPE 2 - EACH	1.00	\$1,350.00	\$1,350.00
50801.0 - UTILITY LINE OPENING (STORM) - EACH	47.00	\$460.00	\$21,620.00
70101.0 - FURNISH AND INSTALL STYROFOAM - L.F.	400.00	\$115.00	\$46,000.00
90030.0 - 3'X6' STORM SAS - EACH	5.00	\$5,900.00	\$29,500.00
90031.0 - RECONSTRUCT CATCH BASIN TO SAS CASTING - EACH	1.00	\$1,830.00	\$1,830.00
90032.0 - RELOCATE WATER LATERAL SERVICE (UNDISTRIBUTED) - EACH	15.00	\$1,100.00	\$16,500.00
90033.0 - RELOCATE WATER MAIN (UNDISTRIBUTED) - EACH	4.00	\$4,800.00	\$19,200.00
21110.0 - TERRACE RAIN GARDEN - S.F.	130.00	\$35.00	\$4,550.00
10790.0 - RAILROAD INSURANCE - LUMP SUM	1.00	\$7,600.00	\$7,600.00
20311.0 - REMOVE SEWER ACCESS STRUCTURE (SANITARY) - EACH	12.00	\$715.00	\$8,580.00
20314.0 - REMOVE PIPE (SANITARY) - LF	810.00	\$17.00	\$13,770.00
20331.0 - ABANDON SEWER ACCESS STRUCTURE - EACH	1.00	\$1,000.00	\$1,000.00
20335.0 - ABANDON SEWER PIPE WITH SLURRY - C.Y.	10.00	\$750.00	\$7,500.00
20501.0 - ADJUST SEWER ACCESS STRUCTURE - EACH	3.00	\$315.00	\$945.00
50103.0 - RECONSTRUCT BENCH AND FLOWLINE(S) - EACH	5.00	\$470.00	\$2,350.00
50201.0 - ROCK EXCAVATION (UNDISTRIBUTED) - C.Y.	175.00	\$50.00	\$8,750.00
50212.0 - SELECT BACKFILL SANITARY SEWER - T.F.	6226.00	\$0.01	\$62.26
50301.0 - 8" PVC SANITARY SEWER PIPE (SDR 35, SDR 26) - L.F.	3207.00	\$119.00	\$381,633.00
50321.0 - 8" PVC PRESSURE SANITARY SEWER PIPE - L.F.	459.00	\$160.00	\$73,440.00
50353.0 - SANITARY SEWER LATERAL (SDR 35, SDR 26) - L.F.	2295.00	\$41.00	\$94,095.00
50355.0 - SANITARY SEWER LATERAL - PRESSURE PIPE - L.F.	265.00	\$51.00	\$13,515.00
50356.0 - RECONNECT - EACH	89.00	\$2,340.00	\$208,260.00
50357.0 - RECONNECT - PRESSURE PIPE - EACH	10.00	\$2,740.00	\$27,400.00
50361.0 - WASTEWATER CONTROL - LUMP SUM	1.00	\$5,600.00	\$5,600.00
50390.0 - SEWER ELECTRONIC MARKERS - EACH	218.00	\$38.00	\$8,284.00
50701.0 - 4' DIA SANITARY SAS - EACH	20.00	\$3,150.00	\$63,000.00
50771.0 - INTERNAL CHIMNEY SEAL - EACH	8.00	\$490.00	\$3,920.00
50791.0 - SANITARY SEWER TAP - EACH	9.00	\$1,330.00	\$11,970.00
60230.0 - FURNISH & INSTALL 2 INCH PVC (SCHEDULE 80) CONDUIT - L.F.	25.00	\$9.50	\$237.50
60232.0 - FURNISH & INSTALL 2 INCH PVC (SCHEDULE 40) CONDUIT - L.F.	402.00	\$6.75	\$2,713.50
60407.0 - CONSTRUCT LB-8 BASE - EACH	1.00	\$1,265.00	\$1,265.00
60409.0 - CONSTRUCTION OFFSET BASE - EACH	1.00	\$2,100.00	\$2,100.00
60413.0 - CONSTRUCT TYPE "P" BASE - EACH	1.00	\$1,820.00	\$1,820.00
60421.0 - REMOVE STREET LIGHT BASE - EACH	1.00	\$365.00	\$365.00
60261.0 - ELECTRICAL TRENCH - L.F.	411.00	\$7.50	\$3,082.50
60702.0 - CONSTRUCT ELECTRICAL HANDHOLE TYPE I - EACH	2.00	\$995.00	\$1,990.00
60704.0 - CONSTRUCT ELECTRICAL HANDHOLE TYPE III - EACH	3.00	\$550.00	\$1,650.00
60407.0 - CONSTRUCT LB-8 BASE - EACH	1.00	\$1,500.00	\$1,500.00
<b>127 Items</b>	<b>Totals</b>		<b>\$3,651,225.00</b>



Department of Public Works  
**Engineering Division**  
Robert F. Phillips, P.E., City Engineer

City-County Building, Room 115  
210 Martin Luther King, Jr. Boulevard  
Madison, Wisconsin 53703  
Phone: (608) 266-4751  
Fax: (608) 264-9275  
engineering@cityofmadison.com  
www.cityofmadison.com/engineering

**Deputy City Engineer**  
Gregory T. Fries, P.E.

**Deputy Division Manager**  
Kathleen M. Cryan

**Principal Engineer 2**  
John S. Fahmeyer, P.E.  
Christopher J. Patykowski, P.E.  
Janet Schmidt, P.E.

**Principal Engineer 1**  
Christina M. Bachmann, P.E.  
Mark D. Moder, P.E.  
James M. Wolfe, P.E.

**Facilities & Sustainability**  
Bryan Cooper, Principal Architect

**Land Information &  
Official Map Manager**  
Eric T. Pederson, P.S.

**Financial Manager**  
Steven B. Danner-Rivers

**BIENNIAL BID BOND**

R. G. Huston Co., Inc.

(a corporation of the State of Wisconsin)  
(~~individual partnership~~), (hereinafter referred to as the "Principal") and  
Travelers Casualty and Surety Company of America

\_\_\_\_\_ a corporation of the State of Connecticut (hereinafter referred to as the "Surety") and licensed to do business in the State of Wisconsin, are held and firmly bound unto the City of Madison, Wisconsin (hereinafter referred to as the "City"), in the sum equal to the individual proposal guaranty amounts of the total bid or bids of the Principal herein accepted by the City, for the payment of which the Principal and the Surety hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

The condition of this obligation is that the Principal has submitted to the City certain bids for projects from the time period of February 1, 2022 through January 31, 2024.

If the Principal is awarded the contract(s) by the City and, within the time and manner required by law after the prescribed forms are presented for its signature, the Principal enters into (a) written contract(s) in accordance with the bid(s), and files with the City its bond(s) guaranteeing faithful performance and payment for all labor and materials, as required by law, or if the City rejects all bids for the work described, then this obligation shall be null and void; otherwise, it shall remain in full force and effect.

In the event the Principal shall fail to execute and deliver the contract(s) or the performance and payment bond(s), all within the time specified or any extension thereof, the Principal and Surety agree jointly and severally to pay to the City within ten (10) calendar days of written demand a total equal to the sum of the individual proposal guaranty amounts of the total bid(s) as liquidated damages.

The Surety, for value received, hereby agrees that the obligations of it and its bond shall be in no way impaired or affected by any extension of time within which the City may accept a bid, and the Surety does hereby waive notice of any such extension.

This bond may be terminated by the Surety upon giving thirty (30) days written notice to the City of its intent to terminate this bond and to be released and discharged therefrom, but such termination shall not operate to relieve or discharge the Surety from any liability already accrued or which shall accrue before the expiration of such thirty (30) day period.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, on the day and year set forth below.

**PRINCIPAL**

R. G. Huston Co., Inc.  
COMPANY NAME AFFIX SEAL

December 23, 2021  
DATE

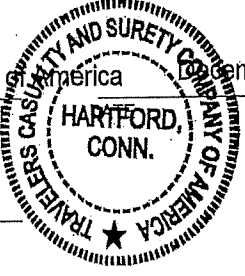


By: [Signature] - Secy/Treas.  
SIGNATURE AND TITLE

**SURETY**

Travelers Casualty and Surety Company of America  
COMPANY NAME AFFIX SEAL

December 21, 2021



By: [Signature]  
SIGNATURE AND TITLE  
Jonathan Lucas, Attorney-In-Fact

This certifies that I have been duly licensed as an agent for the Surety in Wisconsin under National Provider No. 20049489 for the year 2021 and appointed as attorney in fact with authority to execute this bid bond, which power of attorney has not been revoked.

December 21, 2021  
DATE

[Signature]  
AGENT SIGNATURE

20975 Swenson Drive - Suite 175  
ADDRESS

Waukesha, Wisconsin 53186  
CITY, STATE AND ZIP CODE

262-317-8045  
TELEPHONE NUMBER

Note to Surety and Principal: Any bid submitted which this bond guarantees may be rejected if the Power of Attorney form showing that the Agent of Surety is currently authorized to execute bonds on behalf of Surety is not attached to this bond.



**Travelers Casualty and Surety Company of America**  
**Travelers Casualty and Surety Company**  
**St. Paul Fire and Marine Insurance Company**


**POWER OF ATTORNEY**

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **JONATHAN LUCAS** of **MILWAUKEE**, Wisconsin, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this 21st day of April, 2021.



State of Connecticut

By:   
 Robert L. Raney, Senior Vice President

City of Hartford ss.

On this the 21st day of April, 2021, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the 30th day of June, 2026



  
 Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

**RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointees such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

**FURTHER RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

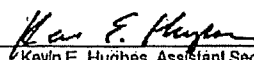
**FURTHER RESOLVED**, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

**FURTHER RESOLVED**, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 21st day of December, 2021.



  
 Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.  
 Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

## SECTION H: AGREEMENT

THIS AGREEMENT made this 30th day of March in the year Two Thousand and Twenty-Two between R. G. HUSTON CO., INC., hereinafter called the Contractor, and the City of Madison, Wisconsin, hereinafter called the City.

WHEREAS, the Common Council of the said City of Madison under the provisions of a resolution adopted MARCH 29, 2022, and by virtue of authority vested in the said Council, has awarded to the Contractor the work of performing certain construction.

NOW, THEREFORE, the Contractor and the City, for the consideration hereinafter named, agree as follows:

1. **Scope of Work.** The Contractor shall, perform the construction, execution and completion of the following listed complete work or improvement in full compliance with the Plans, Specifications, Standard Specifications, Supplemental Specifications, Special Provisions and contract; perform all items of work covered or stipulated in the proposal; perform all altered or extra work; and shall furnish, unless otherwise provided in the contract, all materials, implements, machinery, equipment, tools, supplies, transportation, and labor necessary to the prosecution and completion of the work or improvements:

### **ST. PAUL AVENUE, OHIO AVENUE, TALMADGE STREET, JACKSON STREET AND LAFOLLETTE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT - 2022 CONTRACT NO. 8616**

2. **Completion Date/Contract Time.** Construction work must begin within seven (7) calendar days after the date appearing on mailed written notice to do so shall have been sent to the Contractor and shall be carried on at a rate so as to secure full completion SEE SPECIAL PROVISIONS, the rate of progress and the time of completion being essential conditions of this Agreement.
3. **Contract Price.** The City shall pay to the Contractor at the times, in the manner and on the conditions set forth in said specifications, the sum of THREE MILLION SIX HUNDRED FIFTY-ONE THOUSAND TWO HUNDRED TWENTY-FIVE AND NO/100 (\$3,651,225.00) Dollars being the amount bid by such Contractor and which was awarded to him/her as provided by law.
4. **Affirmative Action.** In the performance of the services under this Agreement the Contractor agrees not to discriminate against any employee or applicant because of race, religion, marital status, age, color, sex, disability, national origin or ancestry, income level or source of income, arrest record or conviction record, less than honorable discharge, physical appearance, sexual orientation, gender identity, political beliefs, or student status. The Contractor further agrees not to discriminate against any subcontractor or person who offers to subcontract on this contract because of race, religion, color, age, disability, sex, sexual orientation, gender identity or national origin.

The Contractor agrees that within thirty (30) days after the effective date of this agreement, the Contractor will provide to the City Affirmative Action Division certain workforce utilization statistics, using a form to be furnished by the City.

If the contract is still in effect, or if the City enters into a new agreement with the Contractor, within one year after the date on which the form was required to be provided, the Contractor will provide updated workforce information using a second form, also to be furnished by the City. The second form will be submitted to the City Affirmative Action Division no later than one year after the date on which the first form was required to be provided.

The Contractor further agrees that, for at least twelve (12) months after the effective date of this contract, it will notify the City Affirmative Action Division of each of its job openings at facilities in Dane County for which applicants not already employees of the Contractor are to be considered.

The notice will include a job description, classification, qualifications and application procedures and deadlines. The Contractor agrees to interview and consider candidates referred by the Affirmative Action Division if the candidate meets the minimum qualification standards established by the Contractor, and if the referral is timely. A referral is timely if it is received by the Contractor on or before the date started in the notice.

Articles of Agreement  
Article I

The Contractor shall take affirmative action in accordance with the provisions of this contract to insure that applicants are employed, and that employees are treated during employment without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national origin and that the employer shall provide harassment free work environment for the realization of the potential of each employee. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation and selection for training including apprenticeship insofar as it is within the control of the Contractor. The Contractor agrees to post in conspicuous places available to employees and applicants notices to be provided by the City setting out the provisions of the nondiscrimination clauses in this contract.

Article II

The Contractor shall in all solicitations or advertisements for employees placed by or on behalf of the Contractors state that all qualified or qualifiable applicants will be employed without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national origin.

Article III

The Contractor shall send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding a notice to be provided by the City advising the labor union or worker's representative of the Contractor's equal employment opportunity and affirmative action commitments. Such notices shall be posted in conspicuous places available to employees and applicants for employment.

Article V

The Contractor agrees that it will comply with all provisions of the Affirmative Action Ordinance of the City of Madison, including the contract compliance requirements. The Contractor agrees to submit the model affirmative action plan for public works contractors in a form approved by the Affirmative Action Division Manager.

Article VI

The Contractor will maintain records as required by Section 39.02(9)(f) of the Madison General Ordinances and will provide the City Affirmative Action Division with access to such records and to persons who have relevant and necessary information, as provided in Section 39.02(9)(f). The City agrees to keep all such records confidential, except to the extent that public inspection is required by law.

Article VII

In the event of the Contractor's or subcontractor's failure to comply with the Equal Employment Opportunity and Affirmative Action Provisions of this contract or Section 39.03 and 39.02 of the Madison General Ordinances, it is agreed that the City at its option may do any or all of the following:

1. Cancel, terminate or suspend this Contract in whole or in part.
2. Declare the Contractor ineligible for further City contracts until the Affirmative Action requirements are met.
3. Recover on behalf of the City from the prime Contractor 0.5 percent of the contract award price for each week that such party fails or refuses to comply, in the nature of liquidated damages, but not to exceed a total of five percent (5%) of the contract price, or ten thousand dollars (\$10,000), whichever is less. Under public works contracts, if a subcontractor is in noncompliance, the City may recover liquidated damages from the prime Contractor in the manner described above. The preceding sentence shall not be construed to prohibit a prime Contractor from recovering the amount of such damage from the non-complying subcontractor.

#### Article VIII

The Contractor shall include the above provisions of this contract in every subcontract so that such provisions will be binding upon each subcontractor. The Contractor shall take such action with respect to any subcontractor as necessary to enforce such provisions, including sanctions provided for noncompliance.

#### Article IX

The Contractor shall allow the maximum feasible opportunity to small business enterprises to compete for any subcontracts entered into pursuant to this contract. (In federally funded contracts the terms "DBE, MBE and WBE" shall be substituted for the term "small business" in this Article.)

5. Substance Abuse Prevention Program Required. Prior to commencing work on the Contract, the Contractor, and any Subcontractor, shall have in place a written program for the prevention of substance abuse among its employees as required under Wis. Stat. Sec. 103.503.
6. **Contractor Hiring Practices.**

#### **Ban the Box - Arrest and Criminal Background Checks. (Sec. 39.08, MGO)**

This provision applies to all prime contractors on contracts entered into on or after January 1, 2016, and all subcontractors who are required to meet prequalification requirements under MGO 33.07(7)(l), MGO as of the first time they seek or renew pre-qualification status on or after January 1, 2016. The City will monitor compliance of subcontractors through the pre-qualification process.

- a. **Definitions.** For purposes of this section, "Arrest and Conviction Record" includes, but is not limited to, information indicating that a person has been questioned, apprehended, taken into custody or detention, held for investigation, arrested, charged with, indicted or tried for any felony, misdemeanor or other offense pursuant to any law enforcement or military authority.

"Conviction record" includes, but is not limited to, information indicating that a person has been convicted of a felony, misdemeanor or other offense, placed on probation, fined, imprisoned or paroled pursuant to any law enforcement or military authority.

"Background Check" means the process of checking an applicant's arrest and conviction record, through any means.

- b. **Requirements.** For the duration of this Contract, the Contractor shall:

1. Remove from all job application forms any questions, check boxes, or other inquiries regarding an applicant's arrest and conviction record, as defined herein.
2. Refrain from asking an applicant in any manner about their arrest or conviction record until after conditional offer of employment is made to the applicant in question.
3. Refrain from conducting a formal or informal background check or making any other inquiry using any privately or publicly available means of obtaining the arrest or conviction record of an applicant until after a conditional offer of employment is made to the applicant in question.
4. Make information about this ordinance available to applicants and existing employees, and post notices in prominent locations at the workplace with information about the ordinance and complaint procedure using language provided by the City.
5. Comply with all other provisions of Sec. 39.08, MGO.

**c. Exemptions:** This section shall not apply when:

1. Hiring for a position where certain convictions or violations are a bar to employment in that position under applicable law, or
2. Hiring a position for which information about criminal or arrest record, or a background check is required by law to be performed at a time or in a manner that would otherwise be prohibited by this ordinance, including a licensed trade or profession where the licensing authority explicitly authorizes or requires the inquiry in question.

To be exempt, Contractor has the burden of demonstrating that there is an applicable law or regulation that requires the hiring practice in question, if so, the contractor is exempt from all of the requirements of this ordinance for the position(s) in question.



**ST. PAUL AVENUE, OHIO AVENUE, TALMADGE STREET, JACKSON STREET  
AND LAFOLLETTE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT - 2022  
CONTRACT NO. 8616**

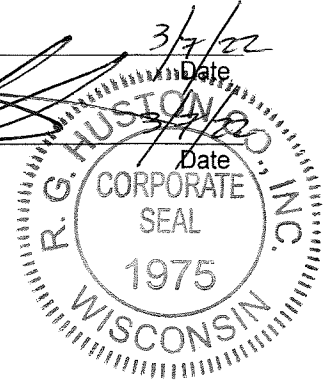
IN WITNESS WHEREOF, the Contractor has hereunto set his/her hand and seal and the City has caused this contract to be sealed with its corporate seal and to be executed by its Mayor and City Clerk on the dates written below.

Countersigned:

Kelly J. [Signature] 3/7/22  
Witness Date  
[Signature] 3/7/22  
Witness Date

**R. G. HUSTON CO., INC.**

[Signature]  
Company Name  
[Signature] 3/7/22  
President Date  
[Signature] 3/7/22  
Secretary Date



CITY OF MADISON, WISCONSIN

Provisions have been made to pay the liability that will accrue under this contract.

Approved as to form:

[Signature] 4/7/22  
Finance Director Date  
[Signature] 4/8/22  
Witness Date  
[Signature] 4/11/22  
Witness Date

[Signature] 4/8/22  
City Attorney Date  
[Signature] 4/2/22  
Mayor Date  
[Signature] 4/1/22  
City Clerk Date

**SECTION I: PAYMENT AND PERFORMANCE BOND**

LET ALL KNOW BY THESE DOCUMENTS PRESENTED, that we R. G. HUSTON CO., INC.  
as principal, and Travelers Casualty and Surety Company of America  
Company of Hartford, Connecticut as surety, are held and firmly bound unto the City of  
Madison, Wisconsin, in the sum of THREE MILLION SIX HUNDRED FIFTY-ONE THOUSAND TWO  
HUNDRED TWENTY-FIVE AND NO/100 (\$3,651,225.00) Dollars, lawful money of the United States, for  
the payment of which sum to the City of Madison, we hereby bind ourselves and our respective executors  
and administrators firmly by these presents.

The condition of this Bond is such that if the above bounden shall on his/her part fully and faithfully  
perform all of the terms of the Contract entered into between him/herself and the City of Madison for the  
construction of:

**ST. PAUL AVENUE, OHIO AVENUE, TALMADGE STREET, JACKSON STREET  
AND LAFOLLETTE AVENUE RECONSTRUCTION ASSESSMENT DISTRICT - 2022  
CONTRACT NO. 8616**

in Madison, Wisconsin, and shall pay all claims for labor performed and material furnished in the  
prosecution of said work, and save the City harmless from all claims for damages because of negligence  
in the prosecution of said work, and shall save harmless the said City from all claims for compensation  
(under Chapter 102, Wisconsin Statutes) of employees and employees of subcontractor, then this Bond is  
to be void, otherwise of full force, virtue and effect.

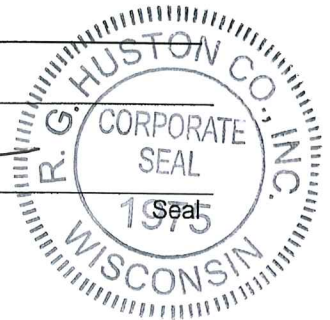
Signed and sealed this 30th day of March, 2022

Countersigned:

[Signature]  
Witness

[Signature]  
Secretary

R. G. HUSTON CO., INC.  
Company Name (Principal)  
[Signature]  
President



Approved as to form:

[Signature]  
City Attorney

Travelers Casualty and Surety Company of America  
Surety Seal  
 Salary Employee  Commission  
By [Signature]  
Attorney-In-Fact Jonathan Lucas

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under  
National Producer Number 20049489 for the year 2022, and appointed as attorney-in-fact  
with authority to execute this payment and performance bond which power of attorney has not been  
revoked.

March 30, 2022  
Date

[Signature]  
Agent Signature Jonathan Lucas



**Travelers Casualty and Surety Company of America  
Travelers Casualty and Surety Company  
St. Paul Fire and Marine Insurance Company**

**POWER OF ATTORNEY**

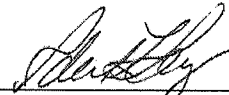
**KNOW ALL MEN BY THESE PRESENTS:** That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **JONATHAN LUCAS** of **MILWAUKEE Wisconsin**, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

**IN WITNESS WHEREOF**, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **21st** day of **April**, 2021.



State of Connecticut

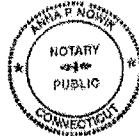
City of Hartford ss.

By:   
Robert L. Raney, Senior Vice President

On this the **21st** day of **April**, 2021, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

**IN WITNESS WHEREOF**, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, 2026



  
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

**RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

**FURTHER RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

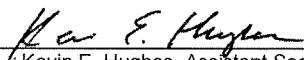
**FURTHER RESOLVED**, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

**FURTHER RESOLVED**, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **30th** day of **March**, 2022



  
Kevin E. Hughes, Assistant Secretary

**To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.  
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.**