CONTRACT FOR CONSTRUCTION OF THE WILLIAM BURGESS BOULEVARD EXTENSION

THIS CONTRACT FOR CONSTRUCTION OF THE WILLIAM BURGESS BOULEVARD EXTENSION (hereinafter "Contract") is made by and between the **Nassau County Board of County Commissioners** (hereinafter "Owner" or "County") and **PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC.** (hereinafter "Contractor") (hereinafter collectively "Parties") and in consideration of the mutual covenants hereinafter set forth, the Parties hereby agree as follows:

ARTICLE 1 - CONTRACT DOCUMENTS.

1.01 The Contract Documents which comprise the entire agreement between the Owner and the Contractor concerning the Project as described below shall consist of the following:

A. This Contract and any exhibits to this Contract;

B. The Invitation to Bid including, Addenda, and the As-Built Requirement Checklist and Road Closure Policy are attached hereto as Exhibit "A"

C. The Contractor's Bid Response to NC24-010-ITB is attached hereto as Exhibit "B"

D. The Drawdown Easement Agreement with JEA is attached hereto as Exhibit "C"

E. The following documents which may be delivered or issued on or after the Effective Date of the Contract and are not attached hereto:

1. Payment Bond
2. Performance Bond
3. Notice to Proceed
4. Work Change Directives
5. Change Orders
6. Certificate of Substantial Completion
7. Certificate of Final Inspection
8. Certificate of Engineer
9. Certificate of Final Completion
10. Contractor's release of Performance Bond
11. Construction Drawings and plans/As-Built Drawings
12. Contractor's Waiver of Lien (Partial)
13. Contractor's Waiver of Lien (Final and Complete)
14. Subcontractor/Contractor's Waiver of Lien (Final and Complete)
15. Consent of Surety to Final Payment
16. Contractor's Insurance Requirements, as set forth in the Bid Documents

1.02 The Contract Documents listed above are incorporated herein by this reference and made a part hereof.

1.03 There are no Contract Documents other than those listed in this Article 1.

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1.04 The Contract Documents may only be amended, modified or supplemented in writing as provided in Article 3 of the Standard General Conditions as set forth in the Invitation to Bid.

1.05 All the above-referenced Contract Documents are intended to be consistent with each other. Any ambiguity, conflict or inconsistency between the documents comprising the Contract Document shall be resolved according to the following order of precedence:

1. This Contract.
2. The Invitation to Bid.
3. Any additional Contract Documents not already referenced.

ARTICLE 2 - THE PROJECT.

2.01 The Project for which the Work under the Contract Documents is generally described as follows:

This project will include the extension of William Burgess Boulevard (WBB) from US17 to Miner Road. The roadway extension is an urban typical section that primarily includes two traffic lanes, curb and gutter, sidewalks, a shared use path (SUP), and a landscaped median. There is roadway widening and resurfacing required to tie-in US17, the west approach to WBB and the east connect to Miner Road. The intersection improvements include US17, a roundabout at Theresa Court and a roundabout at Miner Road. Infrastructure improvements include drainage conveyance, stormwater pond facilities, new JEA utilities (16" watermain and 16" dry sanitary forcemain), street lighting, signalization, irrigation, and utility relocations/protections. Most of the project is a new roadway alignment extension requiring tree clearing and grubbing, and earthwork embankment within new County ROW limits that also extend adjacent to the Yulee High and Middle School property. The work requires adherence to all applicable sections of Nassau County Standard Specifications, FDOT 2023/24 Standards/Specifications and JEA 2022 Water and Wastewater Standards/Specifications in addition to Contract plan and specification documents.

- Clearing & Grubbing
- Earthwork
- Pond construction
- Pavement Construction
- Constructing storm sewer pipes
- Curb and gutter construction
- Placing performance turf and Sod
- Traffic maintenance and protection
- Installing Pavement Markings and signage
- Installing mast arms and signals

In accordance with the provisions of Section 7.09 of the Standard General Conditions of the Construction Contract as contained in Exhibit A, the County has provided the following assistance to the Contractor and has obtained the "Drawdown Easement Agreement" attached hereto as Exhibit C, as part of the permitting documents/requirements required by the St. Johns River Water Management District for the Project. The Contractor shall comply with all requirements of the "Drawdown Easement Agreement".

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ARTICLE 3 - WORK.

3.01 Contractor shall complete all Work as specified in the Contract Documents for the Project in accordance with the construction drawings, specifications as contained in the Contract Documents.

ARTICLE 4 –ENGINEER OF RECORD.

4.01 The Project has been designed by GAI Consultants, Inc., who is to assume all duties and responsibilities and have the rights and authority assigned to Engineer of Record in the Contract Documents in connection with completion of the Work in accordance with the Contract Documents.

ARTICLE 5 - CONTRACT TIMES.

5.01 Time of the Essence.

A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

B. The Contractor hereby agrees to commence work under this Contract on a date to be specified in the written Notice to Proceed issued by the Owner and to fully complete the Project as specified in Section 5.02 of this Contract.

C. Under no condition shall a written Notice to Proceed be issued until Contractor has provided the Payment and Performance Bonds required in Article 1 of this Contract.

5.02 Days to Achieve Substantial Completion and Final Payment.

The Work will be substantially completed within **505 calendar days** from the Commencement Date. The Work shall be fully completed and deemed ready by the County for final completion within **45 calendar days** from the Substantial Completion Date. The Total Contract Time shall be the time period from the Commencement Date to the date of the Final Completion totaling **550 calendar days** (herein "Contract Time").

5.03 Liquidated Damages.

Contractor and the County recognize that time is of the essence of this Contract and that the County shall suffer financial loss if the Work is not completed within the times specified in Section 5.02 above, plus any extensions thereof allowed in accordance with Article 11 of the Standard General Conditions as set forth in the Invitation to Bid. The Parties also recognize the delays, expense, and difficulties involved in proving in legal or arbitration proceeding the actual loss suffered by the County if the Work is not completed on time. Accordingly, instead of

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requiring any such proof, the County and Contractor agree that as liquidated damages for delay (but not as a penalty) Contractor shall pay the County **$7,625.00** for each day that expires after the time specified in Section 5.02 above for Substantial Completion and until the Work is substantially complete. After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Time or any proper extension thereof granted by the County, Contractor shall pay the County **$7,625.00** for each day that expires after the time specified in Section 5.02 above for completion and readiness for final payment until the Work is completed and ready for final payment.

ARTICLE 6 - CONTRACT PRICE.

6.01 The Contractor's Total Base Bid amount as contained in Exhibit B is Nineteen Million, Six Hundred and Seventy-Nine Thousand, Fifteen Dollars and Seventy-Seven Cents ($19, 679, 015.77). The Contractor understands and agrees that pursuant to Section 19. of Section 00 41 15 of the "Technical Special Provisions for the JEA Utility Work" as contained in Exhibit A, the Contractor will be required to enter into a separate contract with JEA for a portion of the work for the Project in the amount of Three Million, Two Hundred Twenty-Seven Thousand, Two Hundred and Six Dollars and Sixty-Seven Cents ($3, 227, 206.67) and that the County will only be responsible for a total amount of Sixteen Million, Four Hundred and Fifty-One Thousand, Eight Hundred and Nine Dollars and Ten Cents ($16, 451, 809.10) for the Project. The County shall pay Contractor for completion of the Work in accordance with the Contract Documents an amount in current funds equal to the sum of the amounts determined pursuant to Article 15 of the Standard General Conditions as set forth in the Invitation to Bid and the following:

A. For all Work, at the prices stated in the Contractor's Bid Response, attached hereto as an exhibit.

B. For all Unit Price Work, an amount equal to the sum of the established unit price for each separately identified item of Unit Price Work times the estimated quantity of that item as indicated in Contractor's Bid Response (attached hereto as an exhibit) for a Total of All Unit Prices of:

Sixteen Million, Four Hundred and Fifty-One Thousand Eight Hundred and Nine Dollars and Ten Cents ($16, 451, 809.10)

C. Estimated quantities are not guaranteed, and determinations of actual quantities and classification are to be made by Engineer of Record as provided in Article 13.03 of the Standard General Conditions as set forth in the Invitation to Bid. The final payment for all Unit Price Work shall be an amount equal to the sum of the established unit price for each separately identified item of Unit Price Work times the actual completed and accepted quantity of each item. Unit prices have been computed as provided in the Standard General Conditions as set forth in the Invitation to Bid.

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ARTICLE 7 - PAYMENT PROCEDURES.

7.01 Submittal and Processing of Payments.

A. Contractor shall submit Applications for Payment in accordance with Article 15 of the Standard General Conditions as set forth in the Invitation to Bid. Applications for Payment shall be processed by the County as provided in the Standard General Conditions as set forth in the Invitation to Bid and pursuant to provisions of Chapter 218, Florida Statutes, Florida Prompt Payment Act and Fla. Stat. Sect. 255.078.

7.02 Progress Payments; Retainage.

7.02.1 The County shall make progress payments on account of the Contract Price on the basis of Contractor's Applications for Payment once each month during performance of the Work as provided in Sections 7.02.2 and 7.02.3 below. All such payments shall be measured by the schedule of values established as provided in Article 15 of the Standard General Conditions as set forth in the Invitation to Bid (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no schedule of values, as provided in the Standard General Conditions as set forth in the Invitation to Bid.

7.02.2 Prior to Substantial Completion progress payments shall be made in an amount equal to the percentage indicated below, but, in each case, less the aggregate of payments previously made and less such amounts as Engineer of Record may determine or the County may withhold, including but not limited to liquidated damages, in accordance with Article 15 of the Standard General Conditions as set forth in the Invitation to Bid.

95% percent of the Work completed (with the balance being retainage)

95% percent of cost of materials and equipment not incorporated in the Work (with the balance being retainage).

7.02.3 Upon Substantial Completion the County shall pay an amount sufficient to increase total payments to Contractor to 95% percent of the Contract Price (with the balance being retainage), less such amounts as Engineer of Record shall determine or the County may withhold, for incomplete work and for other items in accordance with Article 15.01 of the Standard General Conditions as set forth in the Invitation to Bid.

7.03 Final Payment.

7.03.1 Upon final completion and acceptance of the Work in accordance with Article 15 of the Standard General Conditions as set forth in the Invitation to Bid, the County shall pay the remainder of the Contract Price as recommended by Engineer of Record as provided in said Article 15.06 of the Standard General Conditions as set forth in the Invitation to Bid.

7.03.2 Final Release of Retainage and acceptance of the project must be approved by the

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Board of County Commissioners.

ARTICLE 8 – INTEREST.

8.01 All moneys not paid when due as provided in Article 15 of the Standard General Conditions as set forth in the Invitation to Bid shall bear interest at the rate of 0 percent per annum.

ARTICLE 9 - CONTRACTOR'S REPRESENTATIONS.

9.01 In order to induce the County to enter into this Contract, Contractor makes the following representations:

A. Contractor has examined and carefully studied the Contract Documents and the other related data identified in the Contract Documents.

B. Contractor has visited the Site and has become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Contractor is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Contractor has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in Article 5.03 of the Standard General Conditions as set forth in the Invitation to Bid and (2) reports and drawings of a Hazardous Environmental Condition, if any, at the Site which has been identified in the Supplementary Conditions as provided in Article 5.06 of the Standard General Conditions as set forth in the Invitation to Bid.

E. Contractor has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, including applying the specific means, methods, techniques, sequences, and procedures of construction, if any, expressly required by the Bidding Documents, and safety precautions and programs incident thereto.

F. Contractor does not consider that any additional examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.

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G. Contractor is aware of the general nature of work to be performed by the County and others at the Site that relates to the Work as indicated in the Contract Documents.

H. Contractor has correlated the information known to Contractor, information and observations obtained from visits to the Site, reports and drawings identified in the Contract Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.

I. Contractor has given Engineer and Engineer of Record written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Engineer of Record is acceptable to Contractor.

J. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance of the Work for the Project.

K. Pursuant to Section 255.099, Florida Statutes, Contractor agrees to give preference to the employment of Florida State residents in the performance of the Work on this Project if the Florida State residents have substantially equal qualifications to those of nonresidents. As used in this section, the term "substantially equal qualifications" means the qualifications of two or more persons among whom the employer cannot make a reasonable determination that the qualifications held by one person are better suited for the position that the qualifications held by the other person or persons. A Contractor required to employ Florida State residents must contact the Agency for Workforce Innovation to post the Contractor's employment needs in the Florida State job bank system.

ARTICLE 10 – MISCELLANEOUS.

10.01 Terms. The terms in this Contract shall have the meanings indicated in the Standard General Conditions and the Supplementary Conditions as set forth in the Invitation to Bid.

10.02 Assignment of Contract. No assignment by a party hereto of any rights under or interests in the Contract shall be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment shall release or discharge the assignor from any duty or responsibility under the Contract Documents.

10.03 Successors and Assigns. The County and Contractor each binds itself, its partners, successors, assigns, and legal representatives to the other party hereto, in respect to all covenants, agreements and obligations in the Contract Documents.

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10.04 Severability. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon the County and Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

10.05 Effective Date. This Contract shall be effective on the date on which the Contract is signed and delivered by the last of the two parties to sign and deliver (which is the Effective Date of the Contract).

10.06 Governing Law and Venue. This Contract shall be interpreted and construed in accordance with the laws of the Statue of Florida with Venue for any action brought in Nassau County, Florida.

10.07 Public Records. The Owner is a public agency subject to Chapter 119, Florida Statutes. **IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT (904) 530-6090, RECORDS@NASSAUCOUNTYFL.COM, 96135 NASSAU PLACE, SUITE 6, YULEE, FLORIDA 32097.** Under this Contract, to the extent that the Contractor is providing services to the Owner, and pursuant to Section 119.0701, Florida Statutes, the Contractor shall:

A. Keep and maintain public records required by the Owner to perform the service.

B. Upon request from the Owner's custodian of public records, provide the Owner with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.

C. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the Contract term and following completion of the Contract if the Contractor does not transfer the records to the Owner.

D. Upon completion of the Contract, transfer, at no cost, to the Owner all public records in possession of the Contractor or keep and maintain public records required by the Owner to perform the service. If the Contractor transfers all public records to the Owner upon completion of the Contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the Contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the Owner, upon request from the Owner's custodian of public records, in a format that is compatible with the information technology systems of the Owner.

E. A request to inspect or copy public records relating to the Owner's Contract shall be made directly to the Owner's Custodian of Public Records. If the Owner does not possess the

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requested records, the Owner shall immediately notify the Contractor of the request for records and the Contractor shall provide the records to the Owner or allow the records to be inspected or copied within a reasonable time. If the Contractor does not comply with the Owner's request for records, the Owner shall enforce the Contract provisions in accordance with the Contract. If the Contractor which fails to provide public records to the Owner County within a reasonable time may also be subject to penalties as provided under Section 119.10, Florida Statutes.

F. If a civil action is filed against the Contractor to compel production of public records relating to the Contract, the Court shall assess and award against the Contractor the reasonable costs of enforcement, including reasonable attorney fees if:

(1) The Court determines that the Contractor unlawfully refused to comply with the public records request within a reasonable time; and

(2) At least eight (8) business days before filing the action, the plaintiff provided written notice of the public records request, including a statement that the Contractor has not complied with the request, to the Owner and to the Contractor.

(3) A notice complies with this Section if it is sent to the Owner's custodian of public records and to the Contractor at the Contractor's address listed on its Contract with the Owner or to the Contractor's registered agent.

(4) If the Contractor complies with a public records request within eight (8) business days after the notice is sent, the Contractor is not liable for the reasonable costs of enforcement.

G. In reference to any public records requested under this Contract, the Contractor shall identify and mark specifically any information which the Contractor considers confidential and/or proprietary, inclusive of trade secrets as defined in Section 812.081, Florida Statutes, and which the Contractor believes to be exempt from disclosure, citing specifically the applicable exempting law and including a brief written explanation as to why the cited Statute is applicable to the information claimed as confidential and/or proprietary information. All materials shall be segregated and clearly identified as "EXEMPT FROM PUBLIC DISCLOSURE."

H. In conjunction with the confidential and/or proprietary information designation, the Contractor acknowledges and agrees that after notice from County, the Contractor shall respond to a notice from the County immediately, but no later than 10 calendar days from the date of notification or the Contractor shall be deemed to have waived and consented to the release of the confidential and/or proprietary designated materials.

I. The Contractor further agrees that by designation of the confidential/proprietary material, the Contractor shall defend the County (and its employees, agents and elected and appointed officials) against all claims and actions (whether or not a lawsuit is commenced) related to the Contractor's designation of the material as exempt from public disclosure and to hold harmless the County (and its employees, agents and elected and appointed officials) from any award to a plaintiff for damages, costs and attorneys' fees, incurred by the County by reason of any claim or action related to the Contractor's designation of material as exempt from public disclosure.

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ARTICLE 11 – INDEMNIFICATION.

11.01 To the extent allowed by Section 725.06, Florida Statutes, the Contractor shall indemnify and hold harmless the County and its officers and employees from liabilities, damages, losses, and costs, including but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the Contractor and other persons employed or utilized by the Contractor, in the performance of the Contract. It is the specific intent of the Parties hereto that the foregoing indemnification complies with Section 725.06, Florida Statutes, as amended. Contractor expressly agrees that it will not claim, and waives any claim, that this indemnification violates Section 725.06, Florida Statutes, as amended. Nothing contained in the foregoing indemnification shall be construed as a waiver of any immunity or limitation of liability the County may have under the doctrine of sovereign immunity or Section 768.28, Florida Statutes. Nothing herein shall be construed as consent by County to be sued by third parties in any matter arising out of any contract. The obligations contained in this provision shall survive termination of this Contract and shall not be limited by the amount of any insurance required to be obtained or maintained under this Contract.

ARTICLE 12- EMPLOYMENT ELIGIBILITY.

12.01 Contractor must comply with Section 448.095, Florida Statutes, and use the United States Department of Homeland Security's E-Verify system ("E-Verify") to verify the employment eligibility of all persons hired by Contractor during the term of this Agreement to work in Florida. Additionally, if Contractor uses subcontractors to perform any portion of the Work (under this Agreement), Contractor must include a requirement in the subcontractor's contract that the subcontractor use E-Verify to verify the employment eligibility of all persons hired by subcontractor to perform any such portion of the Work. Contractor must include a requirement in the subcontractor's contract that the subcontractor use E-Verify to verify the employment eligibility of all persons hired by subcontractor to perform any such portion of the work. Answers to questions regarding E-Verify as well as instructions on enrollment may be found at the E-Verify website: www.uscis.gov/e-verify.

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IN WITNESS WHEREOF, the County and Contractor have signed this Contract in triplicate. One counterpart each has been delivered to the County, Contractor, and Engineer of Record. All portions of the Contract Documents have been signed or identified by the County and Contractor or identified by Engineer of Record on their behalf.

BOARD OF COUNTY COMMISSIONERS
NASSAU COUNTY, FLORIDA

By: John F. Martin
Its: Chairman
Date: 8-12-24

PETTICOAT-SCHMITT
CIVIL CONTRACTORS, INC.

Jeff Rumer
By: Jeff Rumer
Its: Executive Vice President
Date: 7/16/2024
Address: 6380 Philips Highway
Jacksonville, FL 32216

ATTEST TO CHAIR'S SIGNATURE

John A. Crawford, Ex-Officio Clerk

Date: 8-12-24

Approved as to form by County Attorney

Denise C. May, Esq., BCS
Denise C. May, County Attorney

Date: 7/18/2024

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EXHIBIT "A"

WILLIAM BURGESS BLVD. EXTENSION

INVITATION TO BID (ITB)

Bid No. NC24-010-ITB

Nassau County
Board of County Commissioners
Nassau County, Florida

PROJECT MANUAL

CONTAINING

BIDDING REQUIREMENTS

CONTRACTOR'S PROPOSAL AGREEMENT

GENERAL CONDITIONS

SUPPLEMENTARY CONDITIONS AND SPECIFICATIONS

March 2024

Prepared by: Nassau County Contract Procurement
&
Prepared By: GAI Consultants, Inc.
Jacksonville, Florida 32258 (904) 363-1110

RONALD F. HOOGLAND LICENSE No 45247 STATE OF FLORIDA PROFESSIONAL ENGINEER

ROADWAY PLANS

ENGINEER OF RECORD: RONALD F. HOOGLAND
P.E. No. 45247

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED N THE ELECTRONIC DOCUMENTS.

GAI CONSULTANTS
12574 FLAGLER CENTER BLVD. SUITE 202
JACKSONVILLE, FL 32258
RONALD F. HOOGLAND, P.E. NO. 45247

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

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CONTRACT DOCUMENTS
FOR
WILLIAM BURGESS BLVD. EXTENSION
PROJECT # NC24-010-ITB

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EXHIBIT 1
ENERA INFORMATION AND MINIM M INS RANCE RE IREMENTS

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SECTION 00 11 10

ADVERTISEMENT FOR BIDS

PROJECT: William Burgess Blvd Extension
Bid Number NC24-010
Nassau County, Florida

OWNER: Board of County Commissioners
Nassau County, Florida
96135 Nassau Place
Suite 1
Yulee, Florida 32097

ENGINEER: GAI Consultants, Inc.
12574 Flagler Center Blvd.
Suite 202
Jacksonville, Florida 32258

NON-MANDATORY PRE-BID CONFERENCE:
March 27, 20244 at 2:00 PM EST
LOCATION OF PRE-BID CONFERENCE:
James S. Page Governmental Complex
Commissioners Chambers
96135 Nassau Place
Yulee, Florida 32097

BID DEADLINE & OPENING: April 1 , 2024 at 10:00 AM EST
Judicial Annex
Office of Ex-Officio Clerk
76347 Veterans Way, Suite 456
Yulee, Florida 32097

1.0 WORK DESCRIPTION

This project will include the extension of William Burgess Boulevard (WBB) from US17 to Miner Road. The roadway extension is an urban typical section that primarily includes two traffic lanes, curb and gutter, sidewalks, a shared use path (SUP), and a landscaped median. There is roadway widening and resurfacing required to tie-in US17, the west approach to WBB and the east connect to Miner Road. The intersection improvements include US 17, a roundabout at Theresa Court and a roundabout at Miner Road. Infrastructure improvements include drainage conveyance, stormwater pond facilities, new JEA utilities (16" watermain and 16" dry sanitary forcemain), street lighting, signalization, irrigation, and utility relocations/protections. Most of the project is a new roadway alignment extension requiring tree clearing and grubbing, and earthwork embankment within new County ROW limits that also extend adjacent to the Yulee High and Middle School property. The work requires adherence to all applicable sections of Nassau County Standard Specifications, FDOT 2023/24 Standards/Specifications and JEA 2022 Water and Wastewater Standards/Specifications.

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2.0 RECEIPT OF BIDS

ALL BIDDERS must be qualified for the type of work for which the BID is submitted. **Bidders should note that all bids must be submitted via PlanetBids (https://pbsystem.planetbids.com/portal/49083/portal-home).**

The documents are available free-of-charge on PlanetBids (https://pbsystem.planetbids.com/portal/49083/portal-home).

3.0 CONTRACT DOCUMENTS

The CONTRACT DOCUMENTS, consisting of ADVERTISEMENT FOR BIDS, INFORMATION FOR BIDDERS, BID, BID BOND, AGREEMENT, GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS (IF APPLICABLE), PAYMENT BOND, PERFORMANCE BOND, NOTICE OF AWARD, NOTICE TO PROCEED, CHANGE ORDER, DRAWINGS, SPECIFICATIONS, SPECIAL CONDITIONS and ADDENDA, may be examined by submitting a request via email to the Nassau County Procurement and Contracts Management Department at procurement@nassaucountyfl.com.

The bid documents are available free-of-charge on PlanetBids at https://pbsystem.planetbids.com/portal/49083/portal-home.

4.0 BONDS (BID, PERFORMANCE AND PAYMENT)

BIDS must be accompanied by a Certified Check or BID BOND of a reputable bonding company authorized to do business in the State of Florida in the amount of five percent (5%) of the total amount of the BID to guarantee that the Contractor will enter into a Contract in the form prescribed and will provide the required bonds. **A copy of the Bid bond must be included with the submission and the original must be sent to the Clerk's Office at the address below with attention to this Bid Number by the Bid Opening.**

Attn: NC24-010-ITB
Office of Ex-Officio
Clerk 76347 Veterans
Way Suite 456
Yulee, Florida 32097

The successful BIDDER(s) must provide an acceptable contract PERFORMANCE BOND in the amount of one hundred percent (100%) of the Contract Price, and a PAYMENT BOND in the amount of one hundred percent (100%) of the Contract Price.

5.0 BID WITHDRAWAL

No BIDS may be withdrawn for a period of one-hundred twenty (120) days after closing time scheduled for receipt of BIDS.

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6.0 RIGHT TO REJECT

The OWNER reserves the right to reject any and all BIDS and waive all informalities in whole or in part, with or without cause, and/or to accept the bid that, in its best judgment, will be for the best interest of Nassau County, Florida.

7.0 PUBLIC ENTITY CRIME

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a proposal/bid on a contract to provide any goods or services to a public entity, may not submit a proposal/bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit a proposal/bid on leases or real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor or consultant under contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017. Florida Statutes, for Category Two for a period of thirty-six (36) months from the date of being placed on the convicted vendor list.

8.0 INFORMATION CONTACT

For further information or clarification, prospective bidders should submit questions via PlanetBids (https://pbsystem.planetbids.com/portal/49083/portal-home) to be addressed via addendum.

9.0 DISABILITIES REQUIRING ACCOMMODATION

Persons with disabilities requiring accommodation in order to participate in this program or activity should contact the Office of the Ex-Officio Clerk to the Board of County Commissioners at (904) 548-4660 or Florida Relay Service at 1-800-955-8770 (v) or 1-800-955-8771 (TDD) at least seventy-two hours in advance to request such accommodation.

10.0 PROHIBITION AGAINST CONSIDERING SOCIAL, POLITICAL, OR IDEOLOGICAL INTERESTS IN GOVERNMENT CONTRACTING

Vendor is hereby notified that pursuant to Section 287.05701, Florida Statutes, the County may not request documentation of or consider a vendor's social, political, or ideological interests when determining if the vendor is a responsible vendor and may not give preference to a vendor based on the vendor's social, political, or ideological interests.

11.0 PUBLIC MEETINGS AND PUBLIC RECORDS LAWS FOR GOVERNMENT CONTRACTING

Effective July 1, 2012

Pursuant to recent changes in Florida Statutes Chapter 119.071 (General Exemptions from inspection or copying of public records) the bid opening process is temporarily exempt from Public Records requirements, except bids received pursuant to a competitive solicitation for construction or repairs on a public building or public work. Information may be released to the public once the Board provides a notice of intended decision or 30 days after the bid opening, whichever is earlier.

Pursuant to recent changes in Florida Statutes Chapter 286.0113 (General exemptions from public meeting requirements) any portion of a meeting in which negotiations with a vendor is conducted as part of the "competitive negotiation" process at which a vendor makes an oral presentation or

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answers questions as part of the "competitive solicitation" process are exempt from public meeting requirements until the Board provides notice of an intended decision or until 30 days after bid opening, whichever is earlier. Any portion of a committee meeting at which negotiation strategies are discussed is exempt.

A complete record shall be made of any portion of an exempt meeting; no portion may be held off the record. The recording of and any records presented at the exempt meeting are exempt from FS119.071 until such time as the board provides notice of an intended decision or 30 days after opening the bids, proposals, or final replies.

Please refer to Florida Statutes Chapter 119.071, Chapter 255.0518, and Chapter 286.0113 for further details.

NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS
John F. Martin, Chair

ATTEST:

John A. Crawford
Its: Ex-Officio Clerk

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SECTION 00 21 15

INSTRUCTIONS TO BIDDERS

ARTICLE 1 DEFINED TERMS

1 .01 Terms used in these Instructions to Bidders will have the meanings indicated in the General Conditions and Supplementary Conditions. Additional terms used in these Instructions to Bidders have the meanings indicated below which are applicable to both the singular and plural thereof:

A. Bidder - The individual or entity who submits a Bid directly to the County.

B. Issuing Office - The office from which the Bidding Documents are to be issued and where the bidding procedures are to be administered.

C. Successful Bidder - The lowest responsible Bidder submitting a responsive Bid to whom County (on basis of County's evaluation as herein provided) makes an award.

ARTICLE 2 COPIES OF BIDDING DOCUMENTS

2.01 Complete sets of Bidding Documents in the number and for the payment sum, if any, stated in the Advertisement or Invitation to Bid may be obtained from the Issuing Office via PlanetBids (https://pbsystem.planetbids.com/portal/49083/portal-home).

2.02 Complete sets of Bidding Documents must be used in preparing Bids; neither the County nor Engineer of Record assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

2.03 The County and Engineer of Record in making copies of Bidding Documents available on the above terms do so only for the purpose of obtaining Bids for the Work and do not confer a license or grant for any other use.

ARTICLE 3 QUALIFICATIONS OF BIDDERS

3.01 The County may make such investigations as necessary to determine the ability of the Bidder to perform the Work, and the Bidder shall furnish to the County all such information and data for this purpose as the County may request. The County reserves the right to reject any bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the County that such Bidder is properly qualified to carry out the obligations of the contract and to complete the work contemplated therein. Conditional bids will not be accepted.

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3.02 To demonstrate Bidder's qualifications to perform the Work, Bidder shall submit written evidence such as financial data, previous experience, present commitments, and such other data as may be called for in Bidder's Qualification Statement.

A. The Bidder's Qualification Statement shall include, but not limited, the following information:

1. List a minimum of five contracts of similar work description, for the past 5 years with Company or Entity name, address, contact name, contact title, and telephone number.
2. List original contracted dollar amount and actual completed project dollar amount.
3. List as required by contract completion date and actual completion date. Detail any incentive payments your firm has received for early completion or penalties your firm has had to pay for late fees.

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

4.01 Subsurface and Physical Conditions

A. The Supplementary Conditions identify:

1. Those reports or explorations and tests of subsurface conditions at or contiguous to the Site that Engineer of Record has used in preparing the Bidding Documents.

2. Those drawings of physical conditions in or relating to existing surface and subsurface structures at or contiguous to the Site (except Underground Facilities) that Engineer of Record has used in preparing the Bidding Documents.

B. Copies of the reports and drawings referenced in paragraph 4.01.A will be made available by the County to any Bidder on request. Those reports and drawings are not part of the Contract Documents, but the "technical data" contained therein upon which Bidder is entitled to rely as provided in paragraph 4.02 of the General Conditions has been identified and established in paragraph 4.02 of the Supplementary Conditions. Bidder is responsible for any interpretation or conclusion Bidder draws from any "technical data" or any other data, interpretations, opinions, or information contained in such reports or shown or indicated in such drawings.

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4.02 Underground Facilities

Information and data shown or indicated in the Bidding Documents with respect to existing Underground Facilities at or contiguous to the Site is based upon information and data furnished to the County and Engineer of Record by the Utility Owner of such Underground Facilities, including the County, or others.

4.03 Hazardous Environmental Conditions

A. The Supplementary Conditions identify those reports and drawings relating to a Hazardous Environmental Condition identified at the Site, if any, that Engineer of Record has used in preparing the Bidding Documents.

B. Copies of reports and drawings referenced in paragraph 4.03.A will be made available by the County to any Bidder on request. Those reports and drawings are not part of the Contract Documents, but the "technical data" contained therein upon which Bidder is entitled to rely as provided in paragraph 4.06 of the General Conditions has been identified and established in paragraph 4.06 of the Supplementary Conditions. Bidder is responsible for any interpretation or conclusion Bidder draws from any "technical data" or any other data, interpretations, opinions, or information contained in such reports or shown or indicated in such drawings.

4.04 Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with respect to subsurface conditions other physical conditions and Underground Facilities, and possible changes to Bidding Documents due to offering or unanticipated conditions appear in paragraphs 4.02, 4.03, and 4.04 of the General Conditions. Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with respect to a Hazardous Environmental Condition at the Site, if any, and possible changes in the Contract Documents due to any Hazardous Environmental Condition uncovered or revealed at the Site which was not shown or indicated in the Drawings and Specifications or identified in the Contract Documents to be within the scope of Work appear in paragraph 4.06 of the General Conditions.

4.05 On request, the County will provide Bidder access to the Site to conduct such examinations, investigations, explorations, tests, and studies Bidder deems necessary for submission of a Bid. Bidder shall fill all holes and clean up and restore the Site to its former condition upon completion of such explorations, investigations, tests, and studies.

4.06 Reference is made to Article 7 of the General Conditions for the identification of the general nature of other work that is to be performed at the Site by the County or others (such as utilities and other prime contractors) that relates to the Work for which a Bid is to be submitted. On request, the County will provide to each Bidder for examination access to or copies of Contract Documents (other than portions thereof related to price) for such other work.

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

A. Examine and carefully study the Bidding Documents, including any Addenda and other related data identified in the Bidding Documents;

B. Visit the site to become familiar with and satisfy Bidder as to the general, local and Site conditions that may affect cost, progress, and performance of the Work;

C. Become familiar with and satisfy Bidder as to all federal, state, and local Laws and Regulations that may affect cost, progress, or performance of the Work;

D. Carefully study all reports of explorations and tests or subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in paragraph 4.02 of the General Conditions, and carefully study all reports and drawings or a Hazardous Environmental Condition, if any, at the Site which have been identified in the Supplementary Conditions as provided in paragraph 4.06 of the General Conditions;

E. Obtain and carefully study (or assume responsibility for doing so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including any specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents, and safety precautions and programs incident thereto;

F. Agree at the time of submitting its Bid that no further examinations, investigations. explorations, tests, studies, or data are necessary for the determination of its Bid for performance of the Work at the price bid and within the times and in accordance with the other terms and conditions of the Bidding Documents;

G. Become aware of the general nature of the work to be performed by the County and others at the Site that relates to the Work as indicated in the Bidding Documents;

H. Correlate the information known to Bidder, information and observations obtained from visit to Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents;

I. Promptly give Engineer of Record written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder discovers in the Bidding Documents and confirm that the written resolution thereof by Engineer of Record is acceptable to Bidder and;

J. Determine that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of Work.

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4.08 Each bidder must inform himself fully of the conditions relating to the construction of the project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of his obligation to furnish all material and labor necessary to carry out the provisions of this contract. Insofar as possible the contractor, in carrying out the work, must employ such methods or means as will not cause any interruption of or interference with the work of any other contractor.

4.09 The submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article 4, that without exception the Bid is premised upon performing and furnishing the Work required by the Bidding Documents and applying any specific means, methods, techniques, sequences and procedures of construction that may be shown or indicated or expressly required by the Bidding Documents, that Bidder had given Engineer of Record written notice of all conflicts, errors, ambiguities and discrepancies that Bidder has discovered in the Bidding Documents and written resolutions thereof by Engineer of Record are acceptable to Bidder, and that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work.

ARTICLE 5 PRE-BID CONFERENCE

5.01 A **NON-MANDATORY** pre-bid conference will be held for this project on March 27, 2024 at 2:00 PM EST at the following location:

James S. Page Governmental Complex
Commissioners Chambers
96135 Nassau Place
Yulee, Florida 32097

ARTICLE 6 SITE AND OTHER AREAS

6.01 The Site is identified in the Bidding Documents. All additional lands and access thereto required for temporary construction facilities, construction equipment, or storage of materials and equipment to be incorporated in the Work are to be obtained and paid for by Contractor. Easements for permanent structures or permanent changes in existing facilities are to be obtained and paid for by the County unless otherwise provided in the Bidding Documents.

ARTICLE 7 INTERPRETATIONS AND ADDENDA

7.01 No interpretation of the meaning of the plans, specification or other pre-bid documents will be made to any bidder orally. Bidders are required to refrain from contacting any County Departments or Divisions about this solicitation during the solicitation process. **ANY QUESTIONS FROM BIDDERS MUST BE RECEIVED VIA THE COUNTY'S ELECTRONIC BIDDING PLATFORM - https://pbsystem.planetbids.com/portal/49083/portal-home.** Failure to comply with this requirement may result in disqualification of your response and egregious and/or repeated violations may result in debarment from future solicitations, contracts, or other

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business with the County. All questions must be submitted on PlanetBids by **April 1, 2024 @ 4:00 PM.**

7.02 Any and all such interpretations and any supplemental instructions will be in the form of written addenda not later than seventy-two (72) hours prior to the date fixed for the opening of bids.

7.03 Addenda may be issued to clarify, correct, or change the Bidding Documents as deemed advisable by the County or Engineer of Record.

7.04 It is the Bidder's responsibility to ensure that all addenda were received. The bidder should verify with the designated contact person prior to submitting a bid that all addenda have been received. Bidders are required to acknowledge the number of addenda received on the Bid Form, section 3.01. A. Failure of any bidder to receive any such addendum or interpretation shall not relieve such bidder from any obligation under the bid as submitted. All addenda so issued shall become part of the contract documents.

ARTICLE 8 BID SECURITY

8.01 A Bid must be accompanied by cash, certified check of the Bidder, or a bid bond prepared on the form of bid bond attached hereto, duly executed by the Bidder as principal and having as surety thereon a surety company approved by the County, in the amount of 5% of the Bid. Cash, checks and bid bonds will be returned to all except the three lowest bidders. After award by the Board, the remaining cash checks or bid bonds will be returned promptly after the County and the accepted bidder have executed the contract, or, if no award has been made within 30 days after the date of the opening of Bids, upon demand of the Bidder at any time thereafter, so long as notification of the acceptance of the Bid has not taken place.

8.02 Bid security of other Bidders whom the County believes do not have a reasonable chance of receiving the award will be returned within seven days after the Bid opening.

ARTICLE 9 CONTRACT TIMES

9.01 The number of days within which, or the dates by which, the Work is to be (a) Substantially Completed and (b) also completed and ready for final payment are set forth in the Bid Form.

ARTICLE 10 LIQUIDATED DAMAGES

10.01 The successful bidder, upon failure or refusal to execute and deliver the contract and bonds required within 10 days after receipt of notice of the acceptance of the bid, shall forfeit to the County, as liquidated damages for such failure or refusal, the security deposited with the bid.

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ARTICLE 11 SUBSTITUTE AND "OR-EQUAL" ITEMS

11.01 The Contract, if awarded, will be on the basis of materials and equipment specified or described in the Bidding Documents without consideration of possible substitute "or-equal" items. Whenever it is specified or described in the Bidding Documents that a substitute or "or-equal" item of material or equipment may be furnished or used by if acceptable to Engineer of Record, application for such acceptance will not be considered by Engineer of Record until after the Effective Date of the Agreement. The procedure for submission of any such application by and consideration by Engineer of Record is set forth in the General Conditions and may be supplemented in the General Requirements.

ARTICLE 12 SUBCONTRACTORS, SUPPLIERS AND OTHERS

12.01 If the Supplementary Conditions require the identity of certain Subcontractors, Suppliers, individuals, or entities to be submitted to the County in advance of a specified date prior to the Effective Date of the Agreement, the apparent Successful Bidder, and any other Bidder so requested, shall within five days after Bid opening, submit to the County a list of all such Subcontractors, Suppliers, individuals, or entities proposed for those portions of the Work for which such identification is required. Such list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each Subcontractor, Suppliers, individuals, or entity if requested by the County. If the County or Engineer of Record, after due investigation, has reasonable objection to any proposed Subcontractor, Supplier, individual or entity, the County may, before the Notice of Award is given request apparent Successful Bidder to submit a substitute, without an increase in the Bid.

12.02 If apparent Successful Bidder declines to make any such substitution, the County may award the Contract to the next lowest Bidder that proposes to use acceptable Subcontractors, Suppliers, individuals, or entities. Declining to make requested substitutions will not constitute grounds for forfeiture of the Bid security of any Bidder. Any Subcontractor, Supplier, individual, or entity so listed and against which the County or Engineer of Record makes no written objection prior to giving of the Notice of Award will be deemed acceptable to the County and Engineer of Record subject to revocation of such acceptance after Effective Date of the Agreement as provided in paragraph 6.06 of the General Conditions.

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

12.04 Subcontractors may not further subcontract or otherwise assign any portion of their contract to another entity without prior written approval from the County.

ARTICLE 13 PREPARATION OF BID

13.01 The Bid Form is included in the Bidding Documents.

13.02 Each bid must be submitted in a sealed envelope bearing on the outside the name of the bidder, his/her address, and the name of the project for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another

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envelope addressed as specified in the bid form.

13.03 A Bid by a corporation shall be executed in the corporate name by the president or a vice-president or other corporate officer accompanied by evidence of authority to sign. The corporate seal shall be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation shall be shown on the form.

13.04 A Bid by a partnership shall be executed in the partnership name and signed by a partner (whose title must appear under the signature), accompanied by evidence of authority to sign. The official address of the partnership shall be shown below the signature.

13.05 A Bid by a limited liability company shall be executed in the name of the firm by a member and accompanied by evidence of authority to sign. The state of formation of the firm and the official address of the firm must be shown below the signature.

13.06 A Bid by an individual shall show the Bidder's name and official address.

13.07 A Bid by a joint venture shall be executed by each joint venture in the manner indicated on the Bid Form. The official address of the joint venture must be shown below the signature.

13.08 All names shall be typed or printed in ink below the signatures.

13.09 The Bid shall contain an acknowledgement of receipt of all Addenda, the numbers of which shall be filled in on the Bid Form.

13.10 The address and telephone number for communications regarding the Bid shall be shown

13.11 The Bid shall contain evidence of Bidder's authority and qualification to do business in the State of Florida. The Bidder shall also be a state-certified Contractor in good standing and hold current registration with the Florida Construction Industry Licensing Board of the State Department of Professional Regulation. The type of license must be in a class that is related to the general nature of the construction to be performed on this project. The Bidder's State Contractor's license number for the State of the project shall be shown on the Bid Form.

ARTICLE 14 BASIS OF BID; EVALUATION OF BIDS

14.01 Total Base Bid Price – Unit Price Based

A. Bidders shall submit a Bid on a unit price basis to include a Total Base Bid price, and are to include all labor, materials, equipment, and incidentals necessary to perform the work as indicated in the contract documents.

B. The County reserves the right to evaluate the bids on any base bid-alternate/add on combination that is in the best interest of the County.

14.02 The Total Base Bid price shall include such amounts as the Bidder deems proper for overhead and profit on account of cash allowances, if any, named in the Contract Documents as provided in paragraph 11.03 of the General Conditions.

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ARTICLE 15 SUBMITTAL OF BID

15.01 Each prospective Bidder is furnished one copy of the Bidding Documents.

15.02 A bid shall be submitted via PlanetBids (https://pbsystem.planetbids.com/portal/49083/portal-home) no later than the date and time prescribed and at the place indicated in the Advertisement or Invitation to Bid and shall be accompanied by the Bid security and other required documents.

ARTICLE 16 MODIFICATION AND WITHDRAWAL OF BID

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

16.02 Any Bid may be withdrawn prior to the scheduled time for the opening of bids or authorized postponement thereof. Any Bid received after the time and date specified shall not be considered. No Bidder may withdraw a bid for ninety (90) days after the actual date of the opening thereof.

ARTICLE 17 OPENING OF BIDS

17.01 Bids will be opened at the time and place indicated in the Advertisement or Invitation to Bid. An abstract of the amounts of the base Bids and major alternatives, if any, will be made available to Bidders pursuant to s. 119.071 and s. 255.0518 (effective July 1, 2012), Florida Statutes.

17.02 The County may consider informal any Bid not prepared and submitted in accordance with the provisions thereof and may waive any informalities or reject any and all Bids.

ARTICLE 18 BIDS TO REMAIN SUBJECT TO ACCEPTANCE

18.01 All Bids will remain subject to acceptance for the period of time stated in the Bid Form, but the County may, in its sole discretion, release any Bid and return the Bid security prior to the end of this period.

ARTICLE 19 AWARD OF CONTRACT

19.01 The County reserves the right to reject any and/or all Bids, including without limitation, nonconforming, nonresponsive, unbalanced, or conditional Bids. The County further reserves the right to reject the Bid of any Bidder whom it finds, after reasonable inquiry and evaluation, to be non-responsible. The County may also reject the Bid of any Bidder if the County believes that it would not be in the best interest of the Project to make an award to that Bidder. The County also reserves the right to waive all informalities not involving

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price, time, or changes in the Work and to negotiate contract terms with the Successful Bidder.

19.02 More than one Bid for the same Work from an individual or entity under the same or different names will not be considered. Reasonable grounds for believing that any Bidder has an interest in more than one Bid for the Work may be cause for disqualification of that Bidder and the rejection of all Bids in which that Bidder has an interest.

19.03 In evaluating Bids, the County will consider whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices and other data, as may be requested in the Bid Form or prior to the Notice of Award.

19.04 In evaluating Bidders, the County will consider the qualifications of Bidders and may consider the qualifications and experience of Subcontractors, Suppliers, and other individuals or entities proposed for those portions of the Work for which the identity of Subcontractors, Suppliers: and other individuals or entities must be submitted as provided in the Supplementary Conditions.

19.05 The County may conduct such investigations as it deems necessary to establish the responsibility, qualifications, and financial ability of Bidders, proposed Subcontractors, Suppliers, individuals, or entities to perform the Work in accordance with the Contract Documents.

19.06 If the contract is awarded, the County will award the Contract to Bidder whose Bid is in the best interests of the Project.

19.07 If the contract is awarded, the County will award the Contract to Bidder whose Bid is in the best interest of the Project.

ARTICLE 20 CONTRACT SECURITY AND INSURANCE

20.01 Article 5 of the General Conditions, as may be modified by the Supplementary Conditions, sets forth the County's requirements as to performance and payment Bonds and insurance. When the Successful Bidder delivers the executed Agreement to the County, such Bonds must accompany it.

20.02 Provisions for indemnification by Contractor are set forth in the Agreement, at Paragraph 6.20 of the General Conditions, as amended by the Supplementary Conditions, and are incorporated here by reference.

20.03 Simultaneously, with delivery of the executed contract, the Contractor shall furnish a surety bond or bonds as security for faithful performance of this contract and for the payment of all persons performing labor on the project under this contract and furnishing materials in connection with this contract, as specified in the General Conditions included herein. The surety on such bond and bonds shall be a duly authorized surety company satisfactory to the County.

20.04 Attorneys-in-fact who sign bid bonds or contract bonds must file with each bond a certified

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and effectively dated copy of their power of attorney.

ARTICLE 21 SIGNING OF AGREEMENT

21.01 When the County gives Notice of Intent to Award to the Successful Bidder, it shall be accompanied by the Agreement. Successful Bidder shall sign and deliver the required number of counterparts of the Agreement and attached documents to the County prior to the date set for Board approval and execution. The County shall deliver one fully signed counterpart to Successful Bidder.

21.02 The Board of County Commissioners has the right to approve or reject the recommendation of award. The Agreement is not valid unless fully executed by the Contractor and the Nassau County Board of County Commissioners.

END OF SECTION

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SECTION 00 41 15

BID FORM

PROJECT IDENTIFICATION: William Burgess Blvd. Extension
Bid Number NC24-010
Nassau County, Florida

BID DEADLINE: April 1 , 2024 at 10:00 AM EST
THIS BID IS SUBMITTED TO: Board of County Commissioners, Nassau County
Judicial Annex
Office of the Ex-Officio Clerk
76347 Veterans Way, Suite 456
Yulee, Florida 32097

1.01 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with the County in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

Company Name (typed or printed):_____
Business address: _____
Phone No.:_____Fax No.: _____
Contact Name: _____
Contact Title: _____
Contact email address: _____

2.01 Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. The Bid will remain subject to acceptance for 120 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of the County.

3.01 In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

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

Addendum No.	Addendum Date
_____	_____
_____	_____
_____	_____

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B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in paragraph 4.02 of the General Conditions, and (2) reports and drawings of a Hazardous Environmental Condition, if any, which has been identified in the Supplementary Conditions as provided in paragraph 4.06 of the General Conditions.

E. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies. and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect costs, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.

G. Bidder is aware of the general nature of the work to be performed by the County and others at the Site that relates to the Work as indicated in the Bidding Documents.

H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.

I. Bidder has given Engineer of Record written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer of Record is acceptable to Bidder.

J. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

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4.01 Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over the County.

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

	A	ROADWAY				
Item No.	Spec No.	Item	Estimated Qty.	Unit	Unit Cost	Total
1	101 1	MOBILIZATION	1	LS		
2	102 1	MAINTENANCE OF TRAFFIC (MOT)	1	LS		
3	102-3	COMMERICAL MATERIAL	100	SY		
4	102 71 13	TEMPORARY BARRIER, F&I LOW PROFILE	2120	LF		
5	102 71 16	TEMPORARY BARRIER, F&I FREESTANDING	1630	LF		
6	102 71 23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE	1740	LF		
7	102 71 26	TEMPORARY BARRIER, RELOCATE, FREESTANDING	1370	LF		
8	102 89 1	TEMPORARY CRASH CUSHION, REDIRECTIVE OPTION	8	EA		
9	102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	600	ED		
10	104 1	EROSION CONTROLS	1	LS		
11	107-2	MOWING	170	AC		
12	110 1 1	CLEARING & GRUBBING (INCLUDES TREE CLEARING)	1	LS		
13	110 4 10	REMOVAL OF EXISTING CONCRETE	827	SY		
14	120 1	REGULAR EXCAVATION	43,425	CY		
15	120 4	SUBSOIL EXCAVATION	7,767	CY		
16	120 4A	OVER EXCAVATION (CONTINGENCY)	1	LS	$50,000	$50,000
17	120 6	EMBANKMENT	70,648	CY		
18	120 6A	A-3 SAND BACKFILL (CONTINGENCY)	1	LS	$50,000	$50,000
19	160 4	TYPE B STABILIZATION (12")	60,476	SY		
20	285 7 01	OPTIONAL BASE, BASE GROUP 01, (4") Type B 12.5	685	SY		
21	285 7 04	OPTIONAL BASE, BASE GROUP 04	11,762	SY		
22	285 7 09	OPTIONAL BASE, BASE GROUP 9, 10" LIMEROCK	36,726	SY		
23	0327 70 4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	5310	SY		
24	0327 70 6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	4811	SY		
25	0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C (SHARED USE PATH)	971	TN		
26	0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C , PG 76-22 (ROADWAY)	3,710	TN		
27	0337 7 83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22	3.970	TN		

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28	0339 1	MISCELLANEOUS ASPHALT PAVEMENT	2	TN		
29	400 11	CONCRETE CLASS NS, GRAVITY WALL	39	CY		
30	0520 1 7	CONCRETE CURB & GUTTER, TYPE E	367	LF		
31	520 1 10	CONCRETE CURB & GUTTER, TYPE F	18,419	LF		
32	520 1 10 A	CONCRETE CURB & GUTTER, TYPE “1.5’ WIDE CITY”	9730	LF		
33	520 2 4	CONCRETE CURB & GUTTER, TYPE D	1192	LF		
34	520 2 8	CONCRETE CURB & GUTTER, TYPE RA	547	LF		
35	520 3	VALLEY GUTTER CONCRETE	335	LF		
36	520 5 41	TRAFFIC SEPARATOR, CONCRETE, TYPE I (OPTION 1)	200	SY		
37	520 5 41	TRAFFIC SEPARATOR, CONCRETE, TYPE IV, 4' WIDE	350	LF		
38	522 1	SIDEWALK CONCRETE & DRIVEWAYS 4" THICK	6382	SY		
39	522 2	SIDEWALK CONCRETE & DRIVEWAYS 6" THICK	732	SY		
40	522 2A	SIDEWALK CONCRETE & DRIVEWAYS 7" THICK	75	SY		
41	527 1	DETECTABLE WARNINGS	672	SF		
42	530 3 4	RUBBLE RIP RAP	28.8	SY		
43	0550 10220	FENCING, TYPE B, 5.1- 6.0', STANDARD	3,907	LF		
44	0550 60235	FENCE GATE, TYPE B, DOUBLE, 24.1-30.0' OPENING	5	EA		
45	0570 1 2	PERFORMANCE TURF (S0D)	68,638	SY		
		SUBTOTAL: A - ROADWAY				
	B	DRAINAGE				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
46	425 1311	INLETS, CURB, TYPE P-1, <10'	41	EA		
47	425 1312	INLETS, CURB, TYPE P-1, >10'	2	EA		
48	425 1321	INLETS, CURB, TYPE P-2, <10'	12	EA		
49	425 1351	INLETS, CURB, TYPE P-5, <10	15	EA		
50	425 1351	INLETS, CURB, TYPE P-5, >10	1	EA		
51	425 1361	INLETS, CURB, TYPE P-6, <10	3	EA		
52	425 1411	INLETS, CURB, TYPE J-1, <10	6	EA		
53	425 1412	INLETS, CURB, TYPE J-1, >10	4	EA		
54	425 1421	INLETS, CURB, TYPE J-2, <10'	2	EA		
55	425 1351	INLETS, DITCH BOTTOM, TYPE C, J BOT, <10'	3	EA		
56	425 1543	INLETS, DITCH BOTTOM, TYPE D, J BOT, <10'	2	EA		
57	425 1548	INLETS, DITCH BOTTOM, TYPE H, J BOT, <10'	1	EA		
58	425 1910	INLETS, CLOSED FLUME	2	EA		
59	425 2 41	MANHOLES, P-7, <10	4	EA		
60	425 2 61	MANHOLES, P-8 <10	4	EA		
61	425 2 71	MANHOLES, J-7, <10'	3	EA		

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62	425 2 91	MANHOLES, J-8, <10'	1	EA		
63	425 2 92	MANHOLES, J-8,>10'	1	EA		
64	430174115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15"SD/CD	555	LF		
65	430174118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD/CD	4,760	LF		
66	430174124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"SD/CD	1,921	LF		
67	430174130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30"SD/CD	1,414	LF		
68	430174136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36"SD/CD	1,094	LF		
69	430174136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 42"SD/CD	889	LF		
70	430175218	PIPE CULVERT, OPTIONAL MATERIAL, OTHER-ELIP, 18"SD/CD	190	LF		
71	430518100	STRAIGHT CONC ENDWALL, SINGLE. O DEG, ROUND	1	EA		
72	430982123	MITERED END SECTION, OPTIONAL ROUND, 15" CD	6	EA		
73	430982129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	3	EA		
74	430982133	MITERED END SECTION, OPTIONAL ROUND, 30" CD	7	EA		
75	430982138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	2	EA		
76	430982140	MITERED END SECTION, OPTIONAL ROUND, 42" CD	1	EA		
		SUBTOTAL: B - DRAINAGE				
	C	SIGNING AND PAVEMENT MARKING				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
77	654 2 11	MID-BLOCK CROSSWALK	2	AS		
78	700 1 11	SINGLE POST, SIGN, F&I GROUND MOUNT, UP TO 12 SF	68	AS		
79	700 1 60	SINGLE POST SIGN, REMOVE	13	AS		
80	700 12 21	SIGN BEACON, F&I, GROUND MOUNT – SOLAR POWERED, ONE BEACON	2	AS		
81	706 1 3	RAISED PAVEMENT MARKER, TYPE B	949	EA		
82	710 17	REMOVE NON-CONFLICTING MARKINGS	156	SF		
83	710 11101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	5.837	GM		
84	710 11123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	1,516	LF		
85	710 11124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	601	LF		
86	710 11125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	1661	LF		
87	710 11131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 10-30 0R 3-9 SKIP, 6"	0.119	GM		
88	710 11141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE /6-10DOTTED EXTENSION, 6”	0.053	GM		

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89	710 11144	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-2 EXTENTION LINE FOR ROUNDABOUT, 12”	0.03	GM		
90	710 11160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	13	EA		
91	710 11170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	57	EA		
92	710 11201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	5.539	GM		
93	710 11224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	738	LF		
94	710 11241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	0.107	GM		
95	710 11290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	156	LF		
96	710 90	PAINTED PAVEMENT MARKINGS – FINAL SURFACE	1	LS		
97	711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	1516	LF		
98	711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	601	LF		
99	711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	184	LF		
100	711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE /6-10DOTTED EXTENSION, 6”	0.053	GM		
101	711 11144	THERMOPLASTIC, STANDARD, WHITE, 2-2 EXTENTION LINE FOR ROUNDABOUT, 12”	0.03	GM		
102	711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	13	EA		
103	711 11170	THERMOPLASTIC, STANDARD, WHITE, WHITE ARROW	57	EA		
104	711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	738	LF		
105	711 11241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	0.107	GM		
106	711 14125	THERMOPLASTIC, PERFORMED, WHITE SOLID, 24” FOR CROSSWALK	1477	LF		
107	711 16101	THERMOPLASITIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	5.837	GM		
108	711 16131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, 10-30 0R 3-9 SKIP, 6"	0.119	GM		
109	0711 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6'	5.539	GM		
110	077 1 50A	RELOCATE SCHOOL SIGN	1	AS		
	SUBTOTAL: C - SIGNING AND PAVEMENT MARKING					
	D	SIGNALIZATION				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
111	0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	932	LF		
112	0630 2 12	CONDUIT, FURNISH & INSTALL,	232	LF		

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		DIRECTIONAL BORE				
113	0632 7 1	SIGNAL CABLE - NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	1	PI		
114	0635 2 11	PULL & SPLICE BOX, F&I, 13"X24" COVER SIZE	22	EA		
115	0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	1	AS		
116	0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	200	LF		
117	0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	1	EA		
118	0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	5	EA		
119	0649 21 6	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 50'	2	EA		
120	0649 21 10	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 60'	2	EA		
121	0650 1 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	8	AS		
122	0650 1 16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	4	AS		
123	0653 1 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	2	AS		
124	0653 1 12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	3	AS		
125	0660 1110	LOOP DETECTOR, INDUCTIVE, F&I, TYPE 10	10	EA		
126	0660 2102	LOOP ASSEMBLY, F&I, TYPE B	4	AS		
127	0660 2106	LOOP ASSEMBLY, F&I, TYPE F	8	AS		
128	0665 1 11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	8	EA		
129	0670 5111	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 1 PREEMPTION	1	AS		
130	0684 1 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	1	EA		
131	0685 1 11	UNINTERRUPTABLE POWER SUPPLY, F&I, LINE INTERACTIVE	1	EA		
132	0700 3201	SIGN PANEL, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12 SF	4	EA		
133	0700 5 21	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12 SF	2	EA		
134	0700 5 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12-18 SF	2	EA		
		SUBTOTAL: D - SIGNALS				
	E	LIGHTING				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
135	0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	1652	LF		
136	0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	702	LF		
137	0635 2 11	PULL & SPLICE BOX, F&I, 13"X24" COVER SIZE	26	EA		
138	0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	4	EA		

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139	0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	550	LF		
140	0639 3 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	4	EA		
141	0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVVICE POLE	4	EA		
142	0715 1 11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	8130	LF		
143	0715 61111	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE, STANDARD FOUNDATION, 30' MOUNTING HEIGHT	22	EA		
144	0715 7 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	4	EA		
	SUBTOTAL: E - LIGHTING					
	F	LANDSCAPING				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
145	0580 4343	CABBAGE PALMETTO (15 GAL)	7	EA		
146	0580 5142	MUSKAGEE CRAPE MYRTLE (30 GAL)	101	EA		
147	0580 5143	NATCHEZ WHITE CRAPE MYRTLE (30 GAL)	29	EA		
148	0580 5172	BOLD CYPRESS (15 GAL)	83	EA		
149	0580 5223	SOUTHERN LIVE OAK (15 GAL)	120	EA		
150	0580 5234	SLASH PINE (45 GAL)	74	EA		
151	0580 5672	DOGWOOD (30 GAL)	74	EA		
152	0580 5682	REBUD TREE (30 GAL)	59	EA		
153	0580 7103	MUHLY GRASS (3 GAL)	731	EA		
154	0580 7193	DWARF YAUPON (3 GAL)	171	EA		
155	0580 7265	COONTIE (5 GAL)	486	EA		
156	0580 7373	SAND CORDGRASS (3 GAL)	92	EA		
157	0580 7441	TWINFLOWER (1 GAL)	3357	EA		
158	0580 7443	SHINY BLUEBERRY (3 GAL)	896	EA		
159	0580 7621	YELLOW DAYLILY (1 GAL)	7676	EA		
160	0580 (SPECIAL SOIL)	TOP SOIL (MEDIAN ISLANDS)	6000	SY		
161	0590 70	IRRIGATION SYSTEM	1	LS		
162	0526 1 1	PAVERS, ARCHITECTURAL, ROADWAY	870	SY		
163	0526 1 1A	BENCH	6	EA		
164	0526 1 1B	TRASH RECEPTACLE	3	EA		
165	0580 (MAINTENANCE)	12 MONTH MAINTENANCE	1	LS	$50,000	$50,000
	SUBTOTAL: LANDSCAPING					
	G	POTABLE WATER				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total

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166	801.III.2.4	ABANDON BY REMOVAL 12" PIPE	116	LF		
167	801.XII.1	6” PVC DR 18 PIPE	253	LF		
168	801.XII.1	8” PVC DR 18 PIPE	94	LF		
169	801.XII.1	10” PVC DR 18 PIPE	12	LF		
170	801.XII.1	12” PVC DR 18 PIPE	81	LF		
171	801.XII.1	16” PVC DR 25 PIPE	10,421	LF		
172	801.XII.2	6” DI MJ 45 DEG BEND RESTRAINED	10	EA		
173	801.XII.2	6” DI MJ 90 DEG BEND RESTRAINED	28	EA		
174	801.XII.2	8” DI MJ 45 DEG BEND RESTRAINED	2	EA		
175	801.XII.2	8" DI MJ CAP RESTRAINED	2	EA		
176	801.XII.2	10" DI MJ 90 DEG BEND RESTRAINED	1	EA		
177	801.XII.2	12" DI MJ 45 DEG BEND RESTRAINED	1	EA		
178	801.XII.2	12" X 6" DI MJ TEE RESTRAINED	1	EA		
179	801.XII.2	12" X 12" DI MJ TEE RESTRAINED	1	EA		
180	801.XII.2	16” x 12” DI MJ REDUCER	1	EA		
181	801.XII.2	16" DI MJ 11.25 DEG BEND RESTRAINED	13	EA		
182	801.XII.2	16" DI MJ 22.5 DEG BEND RESTRAINED	5	EA		
183	801.XII.2	16" DI MJ 45 DEG BEND RESTRAINED	34	EA		
184	801.XII.2	16" X 6" DI MJ TEE RESTRAINED	20	EA		
185	801.XII.2	16" X 8" DI MJ TEE RESTRAINED	2	EA		
186	801.XII.2	16" X 10" DI MJ TEE RESTRAINED	1	EA		
187	801.XII.2	16" X 12" DI MJ TEE RESTRAINED	1	EA		
188	801.XII.2	16" X 16" DI MJ TEE RESTRAINED	1	EA		
189	801.XII.2	16" DI MJ CAP RESTRAINED	2	EA		
190	801.XII.6	6" PVC PIPE BELL RESTRAINTS	5	EA		
191	801.XII.6	8" PVC PIPE BELL RESTRAINTS	4	EA		
192	801.XII.6	16" PVC PIPE BELL RESTRAINTS	240	EA		
193	801.XII.7	12" PVC SPLIT RING PIPE BELL RESTRAINTS	6	EA		
194	801.XII.9	2" NEW WATER SERVICES	3	EA		
195	801.XII.14	TEMPORARY SAMPLE TAPS	10	EA		
196	801.XIII.1	FIRE HYDRANTS	20	EA		
197	801.XIII.2	FIRE HYDRANT RELOCATION	1	EA		
198	801.XIII.3	6" DI MJ GATE VALVE RESTRAINED	21	EA		
199	801.XIII.3	12" DI MJ GATE VALVE RESTRAINED	3	EA		
200	801.XIII.3	16" DI MJ GATE VALVE RESTRAINED	27	EA		
201	801.XIII.5	WATER METER BOXES	3	EA		
202	801.XIII.7	12" DI MJ 45 DEG BEND RESTRAINED IN EXISTING PIPELINE	1	EA		
203	801.XIII.7	12" x 12" DI MJ TEE RESTRAINED IN EXISTING PIPELINE	1	EA		
		SUBTOTAL: POTABLE WATER				
	H	SANITARY SEWER FORCE				

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		MAIN				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
204	801.XIV.1	SEWAGE MANHOLE	2	EA		
205	801.XIV.6	ADJUST MANHOLE TOP	1	EA		
206	801.XVI.1	16” PVC DR 25	3867	LF		
207	801.XVI.3	16" DI MJ 11.25 DEG BEND RESTRAINED	8	EA		
208	801.XVI.3	16" DI MJ 22.5 DEG BEND RESTRAINED	7	EA		
209	801.XVI.3	16" DI MJ 45 DEG BEND RESTRAINED	27	EA		
210	801.XVI.3	16" DI MJ CAP RESTRAINED	3	EA		
211	801.XVI.7	16" PVC PIPE BELL RESTRAINTS	17	EA		
212	801.XVII.1	16" DI MJ GATE VALVE RESTRAINED	8	EA		
213	801.XVII.3	ADJUST 16" DI MJ GATE VALVE IN EXISTING PIPELINE	1	EA		
214	801.XVII.3	REMOVE 16" DI MJ CAP IN EXISTING PIPELINE	1	EA		
215	801.XVII.4	2" DI MJ AIR RELEASE VALVE RESTRAINED	2	EA		
		SUBTOTAL: SANITARY SEWER FORCE MAIN				
	I	RECLAIMED WATER MAIN				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
216	801.XXI.1	16" PVC DR 25 PIPE	264	LF		
217	801.XXI.2	16" DI MJ 45 DEG BEND RESTRAINED	5	EA		
218	801.XXI.2	16" DI MJ CAP RESTRAINED	1	EA		
219	801.XXI.6	16" PIPE BELL RESTRAINTS	17	EA		
220	801.XXI.1	16" DI MJ GATE VALVE RESTRAINED	2	EA		
221	801.XXII.4	ADJUST 16" DI MJ GATE VALVE IN EXISTING PIPELINE	3	EA		
222	801.XXII.4	REMOVE 16" DI MJ CAP IN EXISTING PIPELINE	1	LF		
		SUBTOTAL: RECLAIMED WATER MAIN				
	J	JEA MISC				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
223	408	A-3 BACKFILL (CONTINGENCY)	1	LS	$50,000	$50,000
224	102-1	MOT (US17 AND MINER RD)	1	LS		
225	Tech Spec	JEA GENERAL CONDITIONS	1	LS		
226	429	SEWAGE PUIMP TRUCK (CONTINGENCY)	1	LS	$10,000	$10,000
227	437	THRUST BLOCKS	3	EA		
228	441	PERFORMANCE TURF (S0D) (STA 307+00 TO STA 318+00)	900	SY		

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229	490	ROADWAY RECONSTRUCTION (US17)	1	LS		
230	490	ROADWAY RECONSTRUCTION (MINER RD)	1	LS		
231	490	ROADWAY RECONSTRUCTION (WBB)	1	LS		
232	Tech Spec	TESTING ALLOWANCE	1	LS	$10,000	$10,000
		SUBTOTAL: JEA MISC				

BID SUMMARY	
PARTS A, B, C, D, AND E **SUBTOTAL=**	
PARTS F **SUBTOTAL=**	
PARTS G, H, I AND J **SUBTOTAL=**	
TOTAL BASE BID	

The Total Base Bid price has been computed in accordance with Paragraph 11.03 of the General Conditions.

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All specific cash allowances are included in the price(s) set forth above and have been computed in accordance with paragraph 11.02 of the General Conditions.

Unit prices have been computed in accordance with Paragraph 11.03B of the General Conditions.

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

6.01 Bidder agrees that the Work will be substantially complete within 505 calendar days after the date when the Contract Times commence to run as provided in paragraph 2.03 of the General Conditions, and completed and ready for final payment in accordance with paragraph 4.07.B of the eneral Conditions within 45 calendar days from the date of substantial completion. Total contract time shall be 550 calendar days for everyday the work goes beyond substantial completion, a day will be removed from final completion so the total days equal 550 calendar days.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified above, which shall be stated in the Agreement. This project will follow FDOT Recommendations for a project of this size, to be $7,625.00/Day.

7.01 The following documents are attached to and made a condition of this Bid:

A. Bid Security in the form of a certified check of Bid Bond (Section 00 43 15)
B. Tabulation of Subcontractors & Suppliers (Section 00 43 35)
C. Florida Trench Safety Act Certification (Section 00 44 55)
D. Bidder's Qualification Statement (Section 00 45 13)
E. Non-collusion Affidavit (Section 00 45 19)
F. Drug-Free Workplace Certificate (Section 00 45 20)
G. Public Entity Crimes Statement
H. Statement of Disputes, Litigation & Surety Completion

8.01 The terms used in this Bid with initial capital letters have the meanings indicated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

SUBMITTED on_____, 20_____.

State Contractor License No._____.

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If Bidder is:

An Individual

Name (typed or printed): _____
By: _____
(*Individual's Signature*)

Doing business as: _____
Business address: _____
_____
Phone No.:_____ Fax No.: _____

A Partnership

Partnership Name: _____
By: _____
(*Signature of general partner - attach evidence of authority to sign*)

Name (typed or printed): _____
Business address: _____
_____
Phone No.:_____ Fax No.: _____

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A Corporation

Corporation Name: _____ (SEAL)
State of Incorporation: _____

Type (General Business, Professional, Service, Limited Liability): _____
By: _____
(*Signature - attach evidence of authority to sign*)
Name (typed or printed): _____
Title: _____ (CORPORATE SEAL)

Attest _____
(*Signature of Corporate Secretary*)

Business address: _____
_____
Phone No.: _____ Fax No.: _____

Date of Qualification to do business is _____

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A Joint Venture

Joint Venturer Name: _____

By: _____

(*Signature of joint venture partner - attach evidence of authority to sign*)

Name (typed or printed): _____

Title: _____

Business address: _____

_____

Phone No.: _____ Fax No.: _____

Joint Venturer Name: _____

By: _____

(*Signature - attach evidence of authority to sign*)

Name (typed or printed): _____

Title: _____

Business address: _____

_____

Phone No.: _____ Fax No.: _____

Phone and FAX Number, and Address for receipt of official communications:

_____

_____

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

END OF SECTION

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SECTION 00 43 15

BID BOND

Any singular reference to Bidder, Surety, Owner, or other party shall be considered plural where applicable.

BIDDER (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER (Name and Address):

BID

Bid Due Date:
Project (Brief Description Including Location):

BOND

Bond Number:
Date (Not later than Bid due date):
Penal Sum: _____
(Words) (Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Bid Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

BIDDER	**SURETY**
_____ (Seal)	_____(Seal)
Bidder's Name and Corporate Seal	Surety's Name and Corporate Seal
By:_____	By: _____
Signature and Title	Signature and Title (Attach Power of Attorney)
Attest:_____	Attest: _____
Signature and Title	Signature and Title

Note: Above addresses are to be used for giving required notice.

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1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to pay to the County upon default of Bidder any difference between the total amount of Bidder's Bid and the total amount of the Bid of the next lowest, responsible Bidder who submitted a responsive Bid as determined by the County for the work required by the Contract Documents, provided that:

1.1. If there is no such next Bidder, and the County does not abandon the Project, then Bidder and Surety shall pay to the County the penal sum set forth on the face of this Bond, and

1.2. In no event shall Bidder's and Surety's obligation hereunder exceed the penal sum set forth on the race of this Bond.

2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by the County) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.

3. This obligation shall be null and void if:

3.1. The County accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by the County) the executed Agreement required by the Bidding Documents arid any performance and payment bonds required b) the Bidding Documents, or

3.2. All Bids are rejected by the County, or

3.3. The County fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph *5* hereof).

4. Payment under this Bond will be due and payable upon default by Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from the County, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount clue.

5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by the County and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from Bid due date without Surety's written consent.

6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after Bid due date.

7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the slate in which the Project is located.

8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.

9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney

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evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.

10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.

11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

END OF SECTION

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SECTION 00 43 35

TABULATION OF SUBCONTRACTORS & SUPPLIERS

The undersigned states that the following is a full and complete list of the proposed subcontractors and suppliers on this Project and the class of work to be performed by each, and that such list will not be added to nor altered without written consent to the Owner through the Engineer.

	SUBCONTRACTOR OR SUPPLIER AND ADDRESS	**CLASS OF WORK OR MATERIAL**
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____

BIDDER: _____

By: _____

Name: _____

Title: _____

Date: _____

END OF SECTION

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SECTION 00 44 55

FLORIDA TRENCH SAFETY ACT CERTIFICATION

Bidder acknowledges that included in the various items of the proposal and in the Total Bid Price are costs for complying with the Florida Trench Safety Act (90-96, Laws of Florida) as modified October 1, 2008. The Bidder further identifies the costs to be summarized below:

	Cost
1. Trench Safety Act Compliance	$_____
2. Special Shoring	$_____

Identify method of compliance for Item #1: _____

_____

Identify or attach a copy of Special Shoring requirements for Item #2: _____

_____

The undersigned certifies that he/she is the Contractor who will perform the trench excavation for this project, and hereby gives written assurance that Contractor will comply with the applicable trench safety standards specifically set forth in Florida's Trench Safety Act, Laws of Florida, 90-96.

BIDDER: _____

By: _____

Name: _____

Title: _____

Sworn to and subscribed before me this_____day of_____, 20_____by means of physical presence or online notarization.

_____

Notary Public

My Commission Expires: _____

END OF SECTION

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SECTION 00 45 13

STATEMENT OF BIDDER'S QUALIFICATIONS

To:_____ Project: _____

Date: _____ _____

The following experience record, as of date shown, shall be submitted to the County with the Bid Form. All questions shall be answered fully. Bidders who have qualified to bid on other projects for this County within the last 12 months need not resubmit this form unless specifically requested by the County. The contents of this form will be considered confidential to the extent allowed by applicable laws and regulations.

Name of Bidder: _____

Business Address: _____

Street

_____

City State Zip Code

1. Number of years in business as a Contractor under the present:

   Business Name_____

   As Principal Contractor_____As a Sub-Contractor _____

2. Class of work you are equipped to perform:_____

3. Class of work you usually sublet:_____

4. Have any members of your concern ever operated under any other business name?_____.
   If so, give details: _____

   _____

5. Have you ever failed to qualify as a responsible bidder?_____. If so, give details.

   _____

   _____

6. Have you ever refused to enter into a contract after the award is made to you?_____.

   If so, give details. _____

   _____

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7. Have you ever failed to complete any work?_____. If so, give details:

_____

_____

8. Has any surety or financial institution ever experienced loss on your concern?_____.

If so, give details: _____

_____

9. Give name and address of the County, type of work, and the contract amount of at least three projects completed in the last three years:

(1) (2) (3)

Project Owner:_____

Owner Project Manager:_____ Email:

_____ Phone No: _____

_____ _____

Address: _____ City, State, Zip: _____

_____ _____ _____ Type of Work:_____

_____ _____ Contract Amt: $_____

_____$_____$_____

10. Give name and address of the County, type of work, and contract amount of projects now in process of construction:

Name Address Type of Work Contract Amount

A._____$_____

B._____$_____

C._____

_____$_____ D._____

_____$_____ E._____

_____$_____

11. Indicate your experience in the construction of work similar to this project (if not demonstrated by Questions 9 and 10, above):

_____

_____

_____

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12. Give construction experience of principal individuals of your organization:

Name	Position	Years of Experience	Size and Type of Work
A.			
B.			
C.			
D.			
E.			

13. Are there any judgments, suits, or claims pending against you?_____. If so, give details:

_____

14. Does your organization operate as a corporation, partnership, or individual? _____

_____

A. If a corporation, when incorporated:_____

In which state incorporated:_____

List name, title, and address of all officers:

Name	Title	Address
(1)		
(2)		
(3)		
(4)		
(5)		

B. If a partnership, date of organization: _____

General, Limited, or Associated? _____

List name, address, and proportional interest of parties:

Name	Address	Proportional Interest
(1)		
(2)		
(3)		
(4)		
(5)		

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15. If requested prior to award of contract, provide to the County an accurate, up-to-date, condensed financial statement on a separate sheet attached to these qualifications of the individual, co-partnership, or corporation.

The undersigned hereby declares and certifies that the foregoing is a true statement of the experience and condition of the organization, therein first given and that any agency or individual herein named authorized to supply any information as may be deemed necessary to verify this statement.

Signed_____

Title_____

State of _____

County of _____

Subscribed and sworn to before me this_____day of _____, 20_____.

via __ physical presence or __ online notarization.

_____

Notary Public

My Commission expires: _____

END OF SECTION

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SECTION 00 45 19

NON-COLLUSION AFFIDAVIT

TO: The_____, herein called the "County."

Pursuant to bidding requirements for the work titled "_____

_____,"

the enclosed contract documents shall be provided to the County.

State of _____

County of _____

_____, being first duly sworn, deposes, and says that:

A. He is_____(officer's title) of_____(company name), the Bidder that has submitted the attached bid;

B. He is fully informed respecting the preparation and contents of the attached bid and of all pertinent circumstances respecting such bid;

C. Such bid is genuine and is not a collusive or sham bid;

D. Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affiant, has in any way colluded, conspired, connived, or agreed, directly or indirectly with any other Bidder, firm, or person to submit a collusive or sham bid in connection with the contract for which the attached bid has been submitted or to refrain from bidding in connection with such contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm, or person to fix the price or prices in the attached bid or of any other Bidder, or to fix any overhead, profit, or cost element of the bid price or the bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against the _____ or any person interested in the proposed contract; and

E. The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the

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part of the Bidder or any of its agents, representatives, owners: employees, or parties in interest, including this affiant.

(Signed) _____

_____

Subscribed and sworn to before me via physical presence or
__ online notarization on this_____day of_____, 20____.

_____
Notary Public

_____
My commission expires

END OF SECTION

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SECTION 00 45 20

DRUG FREE WORKPLACE CERTIFICATE

I, the undersigned, in accordance with Florida Statute 287.087, hereby certify that _____

_____ (print or type name of firm)

- Publishes a written statement notifying that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance in the workplace named above and specifying actions that will be taken against violations of such prohibition.

- Informs employees about the dangers of drug abuse in the workplace, the firm's policy of maintaining a drug free working environment, and available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug use violations.

- Gives each employee engaged in providing commodities or contractual services that are under bid or proposal, a copy of the statement specified above.

- Notifies the employees that as a condition of working on the commodities or contractual services that are under bid or proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, plea of guilty or nolo contendere to, any violation of Chapter 1893, or any controlled substance law of the State of Florida or the United States, for a violation occurring in the work place, no later than five (5) days after such conviction, and requires employees to sign copies of such written statement to acknowledge their receipt.

- Imposes a sanction on, or requires the satisfactory participation in, a drug abuse assistance or rehabilitation program, if such is available in the employee's community, by any employee who is so convicted.

- Makes a good faith effort to continue to maintain a drug free workplace through the implementation of a drug free work place program.

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"As a person authorized to sign a statement, I certify that the above-named business, firm, or corporation complies fully with the requirements set forth herein."

_____
Authorized Signature

_____
Date Signed

State of: _____

County of: _____

Sworn to and subscribed before me this_____day of_____, 20 via __ physical presence or online notarization and who is personally known or produced _____ as identification.

_____
Notary Public

_____
My commission expires

END OF SECTION

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SECTION 00 45 30

SWORN STATEMENT UNDER SECTION 287.133(3)(a), FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

(To be signed in the presence of a notary public or other officer authorized to administer oaths.)

STATE OF _____
COUNTY OF _____

Before me, the undersigned authority, personally appeared_____, who being by me first duly sworn, made the following statement:

1. The business address of _____
(firm name of Bidder/Contractor)
is _____

2. My relationship to _____
(firm name of Bidder/Contractor)
is_____
(relationship such as sole proprietor, partner, president, vice president)

3. I understand that a public entity crime as defined in Section 287.133 of the Florida Statutes includes a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity in Florida or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or such an agency or political subdivision and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

4. I understand that "convicted" or "conviction" is defined by the statute to mean a finding of guilt or a conviction of a public entity crime, with or without adjudication or guilt, in any federal or state trial of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

5. I understand that "affiliate" is defined by the statute to mean (1) a predecessor or successor of a person or a corporation convicted of a public entity crime; or (2) an entity under control of any natural person with is active in management of the entity and who has been

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convicted of a public entity crime; (3) those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate; or (4) a person or corporation who knowingly entered into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months.

6. Neither the Bidder/Contractor nor any officer, director, executive, partner, shareholder, employee, member or agent who is active in the management of the Bidder/Contractor, nor any affiliate of the Bidder/Contractor, has been convicted of a public entity crime subsequent to July 1, 1989.

(Draw a line through Paragraph 6 if Paragraph 7 below applies.)

7. There has been a conviction of a public entity crime by Bidder/Contractor, or an officer, director, executive, partner, shareholder, employee, member or agent of the Bidder/Contractor who is active in the management of the Bidder/Contractor or an affiliate of the Bidder/Contractor. A determination has been made pursuant to 287.133(3) by order of the Division of Administrative Hearings that it is not in the public interest of the name of the convicted person or affiliate to appear on the convicted vendor list.

The name of the convicted person or affiliate is_____.

A copy of the order of the Division of Administrative Hearings is attached to this statement.

(Draw a line through Paragraph 7 if Paragraph 6 above applies.)

_____
(Signature)

Sworn to and subscribed before me in the State and County first mentioned above on the _____ day of_____, 20 via physical presence or online notarization.

_____
Notary Public

(affix seal)

_____
My commission expires

END OF SECTION

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SECTION 00 45 35

BIDDER'S STATEMENT OF DISPUTES, LITIGATION, ARBITRATION, AND SURETY COMPLETION, LAST THREE (3) YEARS

Project	Name and Address of Owner or Engineer	Name and Phone of Owner or Engineer Representative	Date of Contract	Amount	Status

(Signed)_____

Print Name _____

Subscribed and sworn to before me via physical presence or __ online notarization on this_____day of_____, 20_____.

Notary Public

_____

My commission expires:

END OF SECTION

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SECTION 00 51 00

NOTICE OF AWARD

TO: _____

CONTRACTOR

_____

ADDRESS

_____

CITY STATE ZIP

PROJECT

NAME

The Nassau County Board of County Commissioners has considered the recommendation to accept the Bid submitted by _____ for the above described work in response to its Invitation to Bid (ITB), Bid No. NC24-010, opened on _____, 2024.

You are hereby notified that the Bid has been accepted and the Nassau County Board of County Commissioners has executed the enclosed agreement subject to: Receipt of the applicable bonds and Certificate(s) of Insurance, within ten (10) calendar days from the date of this Notice of Award and receipt of the fully executed agreement. The bonds are required to be recorded at cost to the contractor. The bonds must be recorded within the same ten (10) day period referenced herein. The Clerk of Courts does not accept company or personal checks unless the signee is present and can provide identification.

If you fail to furnish the bonds and the Certificate of Insurance within ten (10) calendar days from the date of this Notice, the County will be entitled to consider any rights arising out of the County's acceptance of your Bid as abandoned and void.

You are required to return an acknowledged copy of this Notice of Award, Bonds, and Insurance Certificates to the Nassau County Board of County Commissioners, c/o John A. Crawford, Ex-Officio Clerk, 76347 Veterans Way, Yulee, Florida 32097. A copy must be sent to Nassau County, Procurement Manager, at 96135 Nassau Place, Suite 6, Yulee, Florida 32097.

Dated this_____day_____, 20___.

Nassau County Board of County Commissioners

BY:_____

TITLE: _____

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ACCEPTANCE OF NOTICE

Receipt of the above Notice of Award is hereby acknowledged by _____
this_____day of_____, 20___.

BY:_____TITLE: _____

END OF SECTION

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SECTION 00 55 00

NOTICE TO PROCEED

TO: _____
CONTRACTOR

_____
ADDRESS

_____
CITY STATE ZIP

PROJECT: **William Burgess Blvd. Extension**
Bid Number NC24-010
Nassau County, Florida

You are hereby notified to commence work in accordance with the Agreement dated the _____day of_____, 20___.

The Contract time for Substantial Completion is_____consecutive calendar days from the date of commencement.

The Contract time for Final Completion is_____consecutive calendar days from the date of Substantial Completion.

The Contract time commences to run_____, 20__.

The date of Substantial Completion is_____, 20__.

The date of Final Completion is_____, 20_.

Nassau County Board of County Commissioners

BY:_____

TITLE:_____

DATE: _____

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You are required to return an acknowledged copy of the Notice to Proceed to The Nassau County Board of County Commissioners, c/o John A. Crawford, Ex-Officio Clerk,76347 Veterans Way, Suite 456, Yulee, Florida 32097.

ACCEPTANCE OF NOTICE

Receipt of the above Notice to Proceed is hereby acknowledged

this_____day of_____, 20___.

BY:_____

TITLE: _____

END OF SECTION

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SECTION 00 61 15

PERFORMANCE BOND

Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

CONTRACTOR (*Name and Address*):

SURETY (*Name, and Address of Principal Place of Business*):

OWNER (*Name and Address*):

CONTRACT

Effective Date of Agreement:

Amount:

Description (*Name and Location*):

BOND

Bond Number:

Date (*Not earlier than Effective Date of Agreement*):

Amount:

Modifications to this Bond Form:

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Surety and Contractor, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Performance Bond to be duly executed by an authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL	**SURETY**
_____ (Seal)	(Seal) _____
Contractor's Name and Corporate Seal	Surety's Name and Corporate Seal
By: _____	By: _____
Signature	Signature (Attach Power of Attorney)
_____	_____
Print Name	Print Name
_____	_____
Title	Title
Attest: _____	Attest: _____
Signature	Signature
_____	_____
Title	Title

Note: Provide execution by additional parties, such as joint venturers, if necessary.

EJCDC No. C-610 (2007 Edition)
Originally prepared through the joint efforts of the Surety Association of America, Engineers Joint Contract Documents Committee, the Associated General Contractors of America, and the American Institute of Architects.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to Owner for the performance of the Contract, which is incorporated herein by reference.

1. If Contractor performs the Contract, Surety and Contractor have no obligation under this Bond, except to participate in conferences as provided in Paragraph 2.1.

2. If there is no Owner Default, Surety's obligation under this Bond shall arise after:
   2.1 Owner has notified Contractor and Surety, at the addresses described in Paragraph 9 below, that Owner is considering declaring a Contractor Default and has requested and attempted to arrange a conference with Contractor and Surety to be held not later than 15 days after receipt of such notice to discuss methods of performing the Contract. If Owner, Contractor, and Surety agree, Contractor shall be allowed a reasonable time to perform the Contract, but such an agreement shall not waive Owner's right, if any, subsequently to declare a Contractor Default; and
   2.2 Owner has declared a Contractor Default and formally terminated Contractor's right to complete the Contract. Such Contractor Default shall not be declared earlier than 20 days after Contractor and Surety have received notice as provided in Paragraph 2.1; and
   2.3 Owner has agreed to pay the Balance of the Contract Price to:
      1. Surety in accordance with the terms of the Contract; or
      2. Another contractor selected pursuant to Paragraph 3.3 to perform the Contract.

3. When Owner has satisfied the conditions of Paragraph 2, Surety shall promptly, and at Surety's expense, take one of the following actions:

   3.1 Arrange for Contractor, with consent of Owner, to perform and complete the Contract; or
   3.2 Undertake to perform and complete the Contract itself, through its agents or through independent contractors; or
   3.3 Obtain bids or negotiated proposals from qualified contractors acceptable to Owner for a contract for performance and completion of the Contract, arrange for a contract to be prepared for execution by Owner and contractor selected with Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Contract, and pay to Owner the amount of damages as described in Paragraph 5 in excess of the Balance of the Contract Price incurred by Owner resulting from Contractor Default; or
   3.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor, and with reasonable promptness under the circumstances:
      1. After investigation, determine the amount for which it may be liable to Owner and, as soon as practicable after the amount is determined, tender payment therefor to Owner; or
      2. Deny liability in whole or in part and notify Owner citing reasons therefor.

4. If Surety does not proceed as provided in Paragraph 3 with reasonable promptness, Surety shall be deemed to be in default on this Bond 15 days after receipt of an additional written notice from Owner to Surety demanding that Surety perform its obligations under this Bond, and

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Owner shall be entitled to enforce any remedy available to Owner. If Surety proceeds as provided in Paragraph 3.4, and Owner refuses the payment tendered or Surety has denied liability, in whole or in part, without further notice Owner shall be entitled to enforce any remedy available to Owner.

5. After Owner has terminated Contractor's right to complete the Contract, and if Surety elects to act under Paragraph 3.1, 3.2, or 3.3 above, then the responsibilities of Surety to Owner shall not be greater than those of Contractor under the Contract, and the responsibilities of Owner to Surety shall not be greater than those of Owner under the Contract. To the limit of the amount of this Bond, but subject to commitment by Owner of the Balance of the Contract Price to mitigation of costs and damages on the Contract, Surety is obligated without duplication for:

5.1 The responsibilities of Contractor for correction of defective Work and completion of the Contract;

5.2 Additional legal, design professional, and delay costs resulting from Contractor's Default, and resulting from the actions of or failure to act of Surety under Paragraph 3; and

5.3 Liquidated damages shall follow FDOT Recommendations for a project of this size, or if no liquidated damages are specified in the Contract, actual damages caused by delayed performance or non-performance of Contractor.

6. Surety shall not be liable to Owner or others for obligations of Contractor that are unrelated to the Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than Owner or its heirs, executors, administrators, or successors.

7. Surety hereby waives notice of any change, including changes of time, to Contract or to related subcontracts, purchase orders, and other obligations.

8. Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the Work or part of the Work is located, and shall be instituted within two years after Contractor Default or within two years after Contractor ceased working or within two years after Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

9. Notice to Surety, Owner, or Contractor shall be mailed or delivered to the address shown on the signature page.

10. When this Bond has been furnished to comply with a statutory requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory requirement shall be deemed deleted here from and provisions conforming to such statutory requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

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11. Definitions.
    11.1 Balance of the Contract Price: The total amount payable by Owner to Contractor under the Contract after all proper adjustments have been made, including allowance to Contractor of any amounts received or to be received by Owner in settlement of insurance or other Claims for damages to which Contractor is entitled, reduced by all valid and proper payments made to or on behalf of Contractor under the Contract.
    11.2 Contract: The agreement between Owner and Contractor identified on the signature page, including all Contract Documents and changes thereto.
    11.3 Contractor Default: Failure of Contractor, which has neither been remedied nor waived, to perform or otherwise to comply with the terms of the Contract.
    11.4 Owner Default: Failure of Owner, which has neither been remedied nor waived, to pay Contractor as required by the Contract or to perform and complete or otherwise comply with the other terms thereof.

FOR INFORMATION ONLY – (*Name, Address and Telephone*) Surety Agency or Broker: Owner's Representative (*Engineer or other party*):

END OF SECTION

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SECTION 00 61 16

PAYMENT BOND

Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

CONTRACTOR (*Name and Address*):

SURETY (*Name, and Address of Principal Place of Business*):

OWNER (*Name and Address*):

CONTRACT

Effective Date of Agreement:
Amount:
Description *(Name and Location)*:

BOND

Bond Number:
Date (*Not earlier than Effective Date of Agreement*):
Amount:
Modifications to this Bond Form:

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Surety and Contractor, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Payment Bond to be duly executed by an authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL	**SURETY**
_____ (Seal)	_____ (Seal)
Contractor's Name and Corporate Seal	Surety's Name and Corporate Seal
By: _____	By: _____
Signature	Signature (Attach Power of Attorney)
_____	_____
Print Name	Print Name
_____	_____
Title	Title
Attest: _____	Attest: _____
Signature	Signature
_____	_____
Title	Title

Note: Provide execution by additional parties, such as joint venturers, if necessary.

EJCDC No. C-615(A) (2007 Edition)
Originally prepared through the joint efforts of the Surety Association of America, Engineers Joint Contract Documents Committee, the Associated General Contractors of America, the American Institute of Architects, the American Subcontractors Association, and the Associated Specialty Contractors.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

1. Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to Owner to pay for labor, materials, and equipment furnished by Claimants for use in the performance of the Contract, which is incorporated herein by reference.

2. With respect to Owner, this obligation shall be null and void if Contractor:

2.1 Promptly makes payment, directly or indirectly, for all sums due Claimants, and

2.2 Defends, indemnifies, and holds harmless Owner from all claims, demands, liens, or suits alleging non-payment by Contractor by any person or entity who furnished labor, materials, or equipment for use in the performance of the Contract, provided Owner has promptly notified Contractor and Surety (at the addresses described in Paragraph 12) of any claims, demands, liens, or suits and tendered defense of such claims, demands, liens, or suits to Contractor and Surety, and provided there is no Owner Default.

3. With respect to Claimants, this obligation shall be null and void if Contractor promptly makes payment, directly or indirectly, for all sums due.

4. Surety shall have no obligation to Claimants under this Bond until:

4.1 Claimants who are employed by or have a direct contract with Contractor have given notice to Surety (at the address described in Paragraph 12) and sent a copy, or notice thereof, to Owner, stating that a claim is being made under this Bond and, with substantial accuracy, the amount of the claim.

4.2 Claimants who do not have a direct contract with Contractor:

1. Have furnished written notice to Contractor and sent a copy, or notice thereof, to Owner, within 90 days after having last performed labor or last furnished materials or equipment included in the claim stating, with substantial accuracy, the amount of the claim and the name of the party to whom the materials or equipment were furnished or supplied, or for whom the labor was done or performed; and
2. Have either received a rejection in whole or in part from Contractor, or not received within 30 days of furnishing the above notice any communication from Contractor by which Contractor had indicated the claim will be paid directly or indirectly; and
3. Not having been paid within the above 30 days, have sent a written notice to Surety (at the address described in Paragraph 12) and sent a copy, or notice thereof, to Owner, stating that a claim is being made under this Bond and enclosing a copy of the previous written notice furnished to Contractor.

5. If a notice by a Claimant required by Paragraph 4 is provided by Owner to Contractor or to Surety, that is sufficient compliance.

6. Reserved.

7. Surety's total obligation shall not exceed the amount of this Bond, and the amount of this Bond shall be credited for any payments made in good faith by Surety.

8. Amounts owed by Owner to Contractor under the Contract shall be used for the performance of the Contract and to satisfy claims, if any, under any performance bond. By Contractor furnishing and Owner accepting this Bond, they agree that all funds earned by Contractor in the performance of the Contract are dedicated to satisfy obligations of Contractor and Surety under

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this Bond, subject to Owner's priority to use the funds for the completion of the Work.

9. Surety shall not be liable to Owner, Claimants, or others for obligations of Contractor that are unrelated to the Contract. Owner shall not be liable for payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligations to make payments to, give notices on behalf of, or otherwise have obligations to Claimants under this Bond.

10. Surety hereby waives notice of any change, including changes of time, to the Contract or to related subcontracts, purchase orders, and other obligations.

11. No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the location in which the Work or part of the Work is located or after the expiration of one year from the date (1) on which the Claimant gave the notice required by Paragraph 4.1 or Paragraph 4.2.3, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Contract, whichever of (1) or (2) first occurs. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

12. Notice to Surety, Owner, or Contractor shall be mailed or delivered to the addresses shown on the signature page. Actual receipt of notice by Surety, Owner, or Contractor, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page.

13. When this Bond has been furnished to comply with a statutory requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory requirement shall be deemed deleted here from and provisions conforming to such statutory requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory Bond and not as a common law bond.

14. Upon request of any person or entity appearing to be a potential beneficiary of this Bond, Contractor shall promptly furnish a copy of this Bond or shall permit a copy to be made.

15. Definitions

15.1 Claimant: An individual or entity having a direct contract with Contractor, or with a first-tier subcontractor of Contractor, to furnish labor, materials, or equipment for use in the performance of the Contract. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service, or rental equipment used in the Contract, architectural and engineering services required for performance of the Work of Contractor and Contractor's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials, or equipment were furnished.

15.2 Contract: The agreement between Owner and Contractor identified on the signature page, including all Contract Documents and changes thereto.

15.3 Owner Default: Failure of Owner, which has neither been remedied nor waived, to pay Contractor as required by the Contract, or to perform and complete or otherwise comply with the other terms thereof.

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FOR INFORMATION ONLY – (*Name, Address, and Telephone*) Surety Agency or Broker: Owner's Representative (*Engineer or other*):

END OF SECTION

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SECTION 00 62 76
APPLICATION AND CERTIFICATE FOR PROGRESS PAYMENT

OWNER:_____

CONTRACTOR: _____

Purchase Order No.:_____Project Title: _____

Engineer/Architect:_____

Engineer/Architect Project No.:_____Contract Number: _____

Progress Payment No.:_____for Period_____to_____

1. Original Contract Sum. . . . . .$_____

2. Net Change by Change Orders. . . . . ..$_____

3. Contract Sum to Date (Line 1 + Line 2) . . . . . .$_____

4. Work Completed to Date . . . . . $_____

5. Amount Retained (Percent) . . . . $_____

6. Total Earned Less Retainage (Line 4 minus Line 5). . . . . .. $_____

7. Less Previous Payments. . . . . .$_____

8. CURRENT PAYMENT DUE. . . . . $_____

CERTIFICATION OF CONTRACTOR

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

_____ _____

Contractor Date

By:_____ _____

(Authorized Representative) Title

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CERTIFICATION OF ENGINEER / ARCHITECT

In accordance with the Contract Documents, based upon on-site observations by the undersigned or duly authorized representatives or assistants, the Engineer / Architect certifies to the Owner that to the best of its knowledge, information and belief, the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED: ……. $_____
(Attach explanation if amount certified differs from the amount applied for)

ENGINEER / ARCHITECT:

By: _____ _____ _____
(Date) (Firm)

AFFIDAVIT OF CONTRACTOR

STATE OF_____ COUNTY OF _____

Before me this day personally appeared_____via ___physical presence or___online notarization, who, being first duly sworn, deposes and says:

That he is the_____of_____,
and the Contractor on the following described public works project:

JOB DESCRIPTION: William Burgess Boulevard Extension Project
CONTRACTING AUTHORITY:___Nassau County Board of County Commissioners_____

That all persons who furnish labor, supplies or materials or did work in connection with such improvements set out in the CONTRACT have been paid, to date, in full, including all subcontractors.

AND FURTHER AFFIANT SAYETH NOT.

By:_____

WITNESS my hand and official seal, this____day of_____, 20____.

_____
Notary Public

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Project Title:_____County Purchase Order No.: _____

Progress Payment No.:_____ Engineer / Architect Project No.: _____

Item No.	Pay Item	Description of Item	ORIGINAL ESTIMATE				PREVIOUSLY COMPLETED		COMPLETED THIS PERIOD		COMPLETED TO DATE		
			Unit	Qty. Bid	Unit Cost	Amount	Quan.	Amount	Quan.	Amount	Quan.	Amount	Percent Complete

END OF SECTION

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SECTION 00 63 15

CONTRACTOR'S REQUEST FOR INFORMATION

TO:_____

FROM:_____(CONTRACTOR) DATE: _____

CONTRACTOR REQUEST FOR INFORMATION NO.: _____

PROJECT NAME: _____

CONTRACT NUMBER:_____PURCHASE ORDER NO.: _____

QUESTION:

_____

_____

_____

_____

_____

_____

_____

BY:_____ DATE: _____

REPLY:

_____

_____

_____

_____

_____

_____

_____

BY:_____ DATE: _____

END OF SECTION

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SECTION 00 63 36

FIELD ORDER

PROJECT:_____REQUEST NO: _____

CONTRACT NO.:_____PURCHASE ORDER NO.: _____

CONTRACTOR: _____

You are hereby directed to execute promptly this Field Order which interprets the Contract Documents or orders minor changes in the Work without change in Contract Price or Contract Time.

If you consider that a change in Contract Price or Contract Time is required, please submit a Work Change Directive to the Owner immediately and before proceeding with this Work.

Field Order: _____

_____

_____

_____

Attachments: (Listing of attached documents that support description)

1. Work Change Directive No _____

2._ 3._____

4._ 5. _____

BY:_____DATE: _____

END OF SECTION

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SECTION 00 63 49

WORK CHANGE DIRECTIVE

PROJECT:_____REQUEST NO: _____

CONTRACT NO.:_____PURCHASE ORDER NO.: _____

CONTRACTOR: _____

You are directed to proceed promptly with the following change(s):

Description: _____

_____

_____

Purpose of Work Directive Change: _____

_____

_____

Attachments: _____

_____

If a claim is made that the above change(s) have affected the Contract Price or Contract Time, any claim for a Change Order based thereon will involve one of the following methods of determining the effect of the change(s).

Method of determining a change in Contract Price:
[ ] Time and materials
[ ] Unit prices
[ ] Cost plus fixed fee
[ ] Other _____
Estimated increase (decrease) in Contract Price: $ _____
If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Method of determining change in Contract Time:
[ ] Contractor's records
[ ] Owner's records
[ ] Other _____
Estimated increase (decrease) in Contract Time:_____days.

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If the change involves an increase, the estimated time is not to be exceeded without further authorization.

AUTHORIZED BY: DATE:

_____ _____

END OF SECTION

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SECTION 00 63 63

CHANGE ORDER REQUEST FORM

(Instructions on 00 63 63-2) No.

PROJECT

DATE OF ISSUANCE EFFECTIVE DATE

NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS

COUNTY Contract / Purchase Order No.:

CONTRACTOR ENGINEER / ARCHITECT

You are directed to make the following changes in the Contract Documents.

Attachments: (List documents supporting change)

CHANGE IN CONTRACT PRICE: Original Contract Price $_____	CHANGE IN CONTRACT TIMES: Original Contract Times Ready for Final Payment:_____ (days and dates)
Net change from previous Change Orders No.___to No.___ $_____	Net change from previous Change Orders No._to No._____ _____ (days)
Contract Price prior to this Change Order $_____	Contract Times Prior to this Change Order Substantial Completion:_____ Ready for Final Payment:_____ (days and dates)
Net Increase (decrease) of this Change Order $_____	Net Increase (decrease) of this Change Order _____ (days)
Contract Price with all approved Change Orders $_____	Contract Times with all approved Change Orders Substantial Completion:_____ Ready for Final Payment:_____ (days and dates)

RECOMMENDED:	APPROVED:	ACCEPTED:
By:_____	By:_____	By:_____
Engineer/Architect (Authorized Signature)	COUNTY (Authorized Signature)	Contractor (Authorized Signature)
Date: _____	Date: _____	Date:_____

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CHANGE ORDER

INSTRUCTIONS

A. GENERAL INFORMATION

This document was developed to provide a uniform format for handling contract changes that affect Contract Price or Contract Times. Changes that have been initiated by a Work Change Directive must be incorporated into a subsequent Change Order if they affect Contract Price or Times.

Changes that affect Contract Price or Contract Times should be promptly covered by a Change Order. The practice of accumulating change order items to reduce the administrative burden may lead to unnecessary disputes.

If Milestones have been listed, any effect of a Change Order, thereon, should be addressed.

For supplemental instructions and minor changes not involving a change in the Contract Price or Contract Times, a Field Order may be used.

B. COMPLETING THE CHANGE ORDER FORM

Engineer / Architect / Etc. initiates the form, including a description of the changes involved and attachments based upon documents and proposals submitted by Contractor, or requests from the County or both.

Once Engineer / Architect / Etc. has completed and signed the form, all copies should be sent to Contractor for approval. After approval by Contractor, all copies should be sent to the County for approval. Engineer should make distribution of executed copies after approval by the County.

If a change only applies to Contract Price or to Contract Times, cross out the part of the tabulation that does not apply.

END OF SECTION

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SECTION 00 65 16

CERTIFICATE OF SUBSTANTIAL COMPLETION

Project:

_____

Purchase Order No.: _____ Contract No.:_____

This Certificate of Substantial Completion applies to:

[ ] All work under Contract [ ] Portion of work described as follows:

The Work to which this Certificate applies has been inspected by authorized representatives of the COUNTY and the CONTRACTOR and that Work is hereby declared to be substantially complete in accordance with the Contract Documents on :_____.

DATE

A tentative list of items to be completed or corrected is attached hereto. This list may not be all-inclusive, and the failure to include an item in it does not alter the responsibility of CONTRACTOR to complete all the Work in accordance with the Contract Documents. The items in the tentative list shall be completed or corrected by CONTRACTOR within _____ days of the above date of Substantial Completion.

The date of Substantial Completion is the date upon which all guarantees and warranties begin.

SIGNED:

NASSAU COUNTY CONSTRUCTION INSPECTOR (if applicable)

By: _____ DATE: _____

NASSAU COUNTY PROJECT MANAGER

By: _____ DATE: _____

JEA PROJECT MANAGER

By: _____ DATE: _____

ENGINEER OF RECORD:

_____

By: _____ DATE: _____

CONTRACTOR:

_____

By:_____ DATE: _____

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

TENTATIVE LIST OF ITEMS TO BE COMPLETED OR CORRECTED (PUNCH LIST)

Date: _____ Contract No.: _____ Purchase Order No.: _____

Project: _____

Contractor: _____

This list may not be all-inclusive, and the failure to include an item does not alter the responsibility of the CONTRACTOR to complete all the Work in accordance with the Contract Documents.

NO:	ITEM:
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

END OF SECTION

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SECTION 00 65 19

CERTIFICATE OF FINAL COMPLETION

Project:

_____

Purchase Order No.: _____ Contract No.: _____

This Certificate of Final Completion applies to:

The Work under this Contract has been inspected by authorized representatives of the COUNTY and the CONTRACTOR and all Work is hereby declared to be complete in accordance with the Contract Documents on: _____

SIGNED:

NASSAU COUNTY CONSTRUCTION INSPECTOR (if applicable)

By:_____ DATE: _____

NASSAU COUNTY PROJECT MANAGER

By: _____ DATE: _____

JEA PROJECT MANAGER

By: _____ DATE: _____

ENGINEER OF RECORD: _____

By:_____ DATE: _____

CONTRACTOR: _____

By:_____ DATE: _____

END OF SECTION

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SECTION 00 65 20

WAIVER AND RELEASE OF LIEN UPON PROGRESS PAYMENT

The undersigned lienor, in consideration of the progress payment in the amount of $_____, hereby waives and releases its lien and right to claim a lien for labor, services or materials furnished through (date)_____ to (customer) _____ _____ on the job of (COUNTY property) _____ _____, to the following described property:

This waiver and release does not cover any retention of labor, services, or materials furnished after the date specified.

Dated on_____, 20___.

Lienor's Name_____

Address_____

_____

By_____

Printed_____

NOTE: This is a statutory form prescribed by Section 713.20, Florida Statutes.

END OF SECTION

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SECTION 00 65 21

WAIVER AND RELEASE OF LIEN UPON FINAL PAYMENT

The undersigned lienor, in consideration of the final payment in the amount of $ _____ _____, hereby waives and releases its lien and right to claim a lien for labor, services or materials furnished through (date)

_____to (customer)_____on the job of (COUNTY property)_____to the following described property:

Dated on_____, 20____.

Lienor's Name_____

Address_____

_____

By_____

Printed_____

NOTE: This is a statutory form prescribed by Section 713.20, Florida Statute.

END OF SECTION

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SECTION 00 72 15

STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

Prepared By

EJCDC®
ENGINEERS JOINT CONTRACT DOCUMENTS COMMITTEE

ACEC
AMERICAN COUNCIL OF ENGINEERING COMPANIES

ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

NSPE
NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

Endorsed By

EJCDC® C-700, Standard General Conditions of the Construction Contract.
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STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

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STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT

ARTICLE 1—DEFINITIONS AND TERMINOLOGY

1.01 Defined Terms

A. Wherever used in the Bidding Requirements or Contract Documents, a term printed with initial capital letters, including the term's singular and plural forms, will have the meaning indicated in the definitions below. In addition to terms specifically defined, terms with initial capital letters in the Contract Documents include references to identified articles and paragraphs, and the titles of other documents or forms.

1. *Addenda*—Written or graphic instruments issued prior to the opening of Bids which clarify, correct, or change the Bidding Requirements or the proposed Contract Documents.
2. *Agreement*—The written instrument, executed by Owner and Contractor, that sets forth the Contract Price and Contract Times, identifies the parties and the Engineer, and designates the specific items that are Contract Documents.
3. *Application for Payment*—The document prepared by Contractor, in a form acceptable to Engineer, to request progress or final payments, and which is to be accompanied by such supporting documentation as is required by the Contract Documents.
4. *Bid*—The offer of a Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.
5. *Bidder*—An individual or entity that submits a Bid to Owner.
6. *Bidding Documents*—The Bidding Requirements, the proposed Contract Documents, and all Addenda.
7. *Bidding Requirements*—The Advertisement or invitation to bid, Instructions to Bidders, Bid Bond or other Bid security, if any, the Bid Form, and the Bid with any attachments.
8. *Change Order*—A document which is signed by Contractor and Owner and authorizes an addition, deletion, or revision in the Work or an adjustment in the Contract Price or the Contract Times, or other revision to the Contract, issued on or after the Effective Date of the Contract.
9. *Change Proposal*—A written request by Contractor, duly submitted in compliance with the procedural requirements set forth herein, seeking an adjustment in Contract Price or Contract Times; contesting an initial decision by Engineer concerning the requirements of the Contract Documents or the acceptability of Work under the Contract Documents; challenging a set-off against payments due; or seeking other relief with respect to the terms of the Contract.
10. *Claim*
    a. A demand or assertion by Owner directly to Contractor, duly submitted in compliance with the procedural requirements set forth herein, seeking an adjustment of Contract Price or Contract Times; contesting an initial decision by Engineer concerning the

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requirements of the Contract Documents or the acceptability of Work under the Contract Documents; contesting Engineer's decision regarding a Change Proposal; seeking resolution of a contractual issue that Engineer has declined to address; or seeking other relief with respect to the terms of the Contract.

b. A demand or assertion by Contractor directly to Owner, duly submitted in compliance with the procedural requirements set forth herein, contesting Engineer's decision regarding a Change Proposal, or seeking resolution of a contractual issue that Engineer has declined to address.

c. A demand or assertion by Owner or Contractor, duly submitted in compliance with the procedural requirements set forth herein, made pursuant to Paragraph 12.01.A.4, concerning disputes arising after Engineer has issued a recommendation of final payment.

d. A demand for money or services by a third party is not a Claim.

11. *Constituent of Concern*—Asbestos, petroleum, radioactive materials, polychlorinated biphenyls (PCBs), lead-based paint (as defined by the HUD/EPA standard), hazardous waste, and any substance, product, waste, or other material of any nature whatsoever that is or becomes listed, regulated, or addressed pursuant to Laws and Regulations regulating, relating to, or imposing liability or standards of conduct concerning, any hazardous, toxic, or dangerous waste, substance, or material.

12. *Contract*—The entire and integrated written contract between Owner and Contractor concerning the Work.

13. *Contract Documents*—Those items so designated in the Agreement, and which together comprise the Contract.

14. *Contract Price*—The money that Owner has agreed to pay Contractor for completion of the Work in accordance with the Contract Documents.

15. *Contract Times*—The number of days or the dates by which Contractor shall: (a) achieve Milestones, if any; (b) achieve Substantial Completion; and (c) complete the Work.

16. *Contractor*—The individual or entity with which Owner has contracted for performance of the Work.

17. *Cost of the Work*—See Paragraph 13.01 for definition.

18. *Drawings*—The part of the Contract that graphically shows the scope, extent, and character of the Work to be performed by Contractor.

19. *Effective Date of the Contract*—The date, indicated in the Agreement, on which the Contract becomes effective.

20. *Electronic Document*—Any Project-related correspondence, attachments to correspondence, data, documents, drawings, information, or graphics, including but not limited to Shop Drawings and other Submittals, that are in an electronic or digital format.

21. *Electronic Means*—Electronic mail (email), upload/download from a secure Project website, or other communications methods that allow: (a) the transmission or communication of Electronic Documents; (b) the documentation of transmissions, including sending and receipt; (c) printing of the transmitted Electronic Document by the

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recipient; (d) the storage and archiving of the Electronic Document by sender and recipient; and (e) the use by recipient of the Electronic Document for purposes permitted by this Contract. Electronic Means does not include the use of text messaging, or of Facebook, Twitter, Instagram, or similar social media services for transmission of Electronic Documents.

22. *Engineer*—The individual or entity named as such in the Agreement.

23. *Field Order*—A written order issued by Engineer which requires minor changes in the Work but does not change the Contract Price or the Contract Times.

24. *Hazardous Environmental Condition*—The presence at the Site of Constituents of Concern in such quantities or circumstances that may present a danger to persons or property exposed thereto.

    a. The presence at the Site of materials that are necessary for the execution of the Work, or that are to be incorporated into the Work, and that are controlled and contained pursuant to industry practices, Laws and Regulations, and the requirements of the Contract, is not a Hazardous Environmental Condition.

    b. The presence of Constituents of Concern that are to be removed or remediated as part of the Work is not a Hazardous Environmental Condition.

    c. The presence of Constituents of Concern as part of the routine, anticipated, and obvious working conditions at the Site, is not a Hazardous Environmental Condition.

25. *Laws and Regulations; Laws or Regulations*—Any and all applicable laws, statutes, rules, regulations, ordinances, codes, and binding decrees, resolutions, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.

26. *Liens*—Charges, security interests, or encumbrances upon Contract-related funds, real property, or personal property.

27. *Milestone*—A principal event in the performance of the Work that the Contract requires Contractor to achieve by an intermediate completion date, or by a time prior to Substantial Completion of all the Work.

28. *Notice of Award*—The written notice by Owner to a Bidder of Owner's acceptance of the Bid.

29. *Notice to Proceed*—A written notice by Owner to Contractor fixing the date on which the Contract Times will commence to run and on which Contractor shall start to perform the Work.

30. *Owner*—The individual or entity with which Contractor has contracted regarding the Work, and which has agreed to pay Contractor for the performance of the Work, pursuant to the terms of the Contract.

31. *Progress Schedule*—A schedule, prepared and maintained by Contractor, describing the sequence and duration of the activities comprising Contractor's plan to accomplish the Work within the Contract Times.

32. *Project*—The total undertaking to be accomplished for Owner by engineers, contractors, and others, including planning, study, design, construction, testing, commissioning, and start-up, and of which the Work to be performed under the Contract Documents is a part.

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33. *Resident Project Representative*—The authorized representative of Engineer assigned to assist Engineer at the Site. As used herein, the term Resident Project Representative (RPR) includes any assistants or field staff of Resident Project Representative.

34. *Samples*—Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and that establish the standards by which such portion of the Work will be judged.

35. *Schedule of Submittals*—A schedule, prepared and maintained by Contractor, of required submittals and the time requirements for Engineer's review of the submittals.

36. *Schedule of Values*—A schedule, prepared and maintained by Contractor, allocating portions of the Contract Price to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

37. *Shop Drawings*—All drawings, diagrams, illustrations, schedules, and other data or information that are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work. Shop Drawings, whether approved or not, are not Drawings and are not Contract Documents.

38. *Site*—Lands or areas indicated in the Contract Documents as being furnished by Owner upon which the Work is to be performed, including rights-of-way and easements, and such other lands or areas furnished by Owner which are designated for the use of Contractor.

39. *Specifications*—The part of the Contract that consists of written requirements for materials, equipment, systems, standards, and workmanship as applied to the Work, and certain administrative requirements and procedural matters applicable to the Work.

40. *Subcontractor*—An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work.

41. *Submittal*—A written or graphic document, prepared by or for Contractor, which the Contract Documents require Contractor to submit to Engineer, or that is indicated as a Submittal in the Schedule of Submittals accepted by Engineer. Submittals may include Shop Drawings and Samples; schedules; product data; Owner-delegated designs; sustainable design information; information on special procedures; testing plans; results of tests and evaluations, source quality-control testing and inspections, and field or Site quality-control testing and inspections; warranties and certifications; Suppliers' instructions and reports; records of delivery of spare parts and tools; operations and maintenance data; Project photographic documentation; record documents; and other such documents required by the Contract Documents. Submittals, whether or not approved or accepted by Engineer, are not Contract Documents. Change Proposals, Change Orders, Claims, notices, Applications for Payment, and requests for interpretation or clarification are not Submittals.

42. *Substantial Completion*—The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of Engineer, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms "substantially complete" and "substantially completed" as applied to all or part of the Work refer to Substantial Completion of such Work.

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43. *Successful Bidder*—The Bidder to which the Owner makes an award of contract.

44. *Supplementary Conditions*—The part of the Contract that amends or supplements these General Conditions.

45. *Supplier*—A manufacturer, fabricator, supplier, distributor, or vendor having a direct contract with Contractor or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by Contractor or a Subcontractor.

46. *Technical Data*

    a. Those items expressly identified as Technical Data in the Supplementary Conditions, with respect to either (1) existing subsurface conditions at or adjacent to the Site, or existing physical conditions at or adjacent to the Site including existing surface or subsurface structures (except Underground Facilities) or (2) Hazardous Environmental Conditions at the Site.

    b. If no such express identifications of Technical Data have been made with respect to conditions at the Site, then Technical Data is defined, with respect to conditions at the Site under Paragraphs 5.03, 5.04, and 5.06, as the data contained in boring logs, recorded measurements of subsurface water levels, assessments of the condition of subsurface facilities, laboratory test results, and other factual, objective information regarding conditions at the Site that are set forth in any geotechnical, environmental, or other Site or facilities conditions report prepared for the Project and made available to Contractor.

    c. Information and data regarding the presence or location of Underground Facilities are not intended to be categorized, identified, or defined as Technical Data, and instead Underground Facilities are shown or indicated on the Drawings.

47. *Underground Facilities*—All active or not-in-service underground lines, pipelines, conduits, ducts, encasements, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or systems at the Site, including but not limited to those facilities or systems that produce, transmit, distribute, or convey telephone or other communications, cable television, fiber optic transmissions, power, electricity, light, heat, gases, oil, crude oil products, liquid petroleum products, water, steam, waste, wastewater, storm water, other liquids or chemicals, or traffic or other control systems. An abandoned facility or system is not an Underground Facility.

48. *Unit Price Work*—Work to be paid for on the basis of unit prices.

49. *Work*—The entire construction or the various separately identifiable parts thereof required to be provided under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction; furnishing, installing, and incorporating all materials and equipment into such construction; and may include related services such as testing, start-up, and commissioning, all as required by the Contract Documents.

50. *Work Change Directive*—A written directive to Contractor issued on or after the Effective Date of the Contract, signed by Owner and recommended by Engineer, ordering an addition, deletion, or revision in the Work.

51. *Engineer of Record* – The individual or entity named as such, or the Design Engineer, in the Agreement and has the authority set forth in the Standard General Conditions.

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52. *Surety* – The person, firm, or corporation which is bound by the contract bonds with and for Contractor (Principal); and which is held and firmly bound unto Owner for the conditions of obligations set forth in said bonds.

1.02 Terminology

A. The words and terms discussed in Paragraphs 1.02.B, C, D, and E are not defined terms that require initial capital letters, but, when used in the Bidding Requirements or Contract Documents, have the indicated meaning.

B. *Intent of Certain Terms or Adjectives*: The Contract Documents include the terms "as allowed," "as approved," "as ordered," "as directed" or terms of like effect or import to authorize an exercise of professional judgment by Engineer. In addition, the adjectives "reasonable," "suitable," "acceptable," "proper," "satisfactory," or adjectives of like effect or import are used to describe an action or determination of Engineer as to the Work. It is intended that such exercise of professional judgment, action, or determination will be solely to evaluate, in general, the Work for compliance with the information in the Contract Documents and with the design concept of the Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective is not intended to and shall not be effective to assign to Engineer any duty or authority to supervise or direct the performance of the Work, or any duty or authority to undertake responsibility contrary to the provisions of Article 10 or any other provision of the Contract Documents.

C. *Day*: The word "day" means a calendar day of 24 hours measured from midnight to the next midnight.

D. *Defective*: The word "defective," when modifying the word "Work," refers to Work that is unsatisfactory, faulty, or deficient in that it:

1. does not conform to the Contract Documents;

2. does not meet the requirements of any applicable inspection, reference standard, test, or approval referred to in the Contract Documents; or

3. has been damaged prior to Engineer's recommendation of final payment (unless responsibility for the protection thereof has been assumed by Owner at Substantial Completion in accordance with Paragraph 15.03 or Paragraph 15.04).

E. Furnish, Install, Perform, Provide

1. The word "furnish," when used in connection with services, materials, or equipment, means to supply and deliver said services, materials, or equipment to the Site (or some other specified location) ready for use or installation and in usable or operable condition.

2. The word "install," when used in connection with services, materials, or equipment, means to put into use or place in final position said services, materials, or equipment complete and ready for intended use.

3. The words "perform" or "provide," when used in connection with services, materials, or equipment, means to furnish and install said services, materials, or equipment complete and ready for intended use.

4. If the Contract Documents establish an obligation of Contractor with respect to specific services, materials, or equipment, but do not expressly use any of the four words

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"furnish," "install," "perform," or "provide," then Contractor shall furnish and install said services, materials, or equipment complete and ready for intended use.

F. *Contract Price or Contract Times*: References to a change in "Contract Price or Contract Times" or "Contract Times or Contract Price" or similar, indicate that such change applies to (1) Contract Price, (2) Contract Times, or (3) both Contract Price and Contract Times, as warranted, even if the term "or both" is not expressed.

G. Unless stated otherwise in the Contract Documents, words or phrases that have a well-known technical or construction industry or trade meaning are used in the Contract Documents in accordance with such recognized meaning.

ARTICLE 2—PRELIMINARY MATTERS

2.01 Delivery of Performance and Payment Bonds; Evidence of Insurance

A. *Performance and Payment Bonds*: When Contractor delivers the signed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner the performance bond and payment bond (if the Contract requires Contractor to furnish such bonds).

B. *Evidence of Contractor's Insurance*: When Contractor delivers the signed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner, with copies to each additional insured (as identified in the Contract), the certificates, endorsements, and other evidence of insurance required to be provided by Contractor in accordance with Article 6, except to the extent the Supplementary Conditions expressly establish other dates for delivery of specific insurance policies.

C. *Evidence of Owner's Insurance*: After receipt of the signed counterparts of the Agreement and all required bonds and insurance documentation, Owner shall promptly deliver to Contractor, with copies to each additional insured (as identified in the Contract), the certificates and other evidence of insurance required to be provided by Owner under Article 6.

2.02 Copies of Documents

A. Owner shall furnish to Contractor four printed copies of the Contract (including one fully signed counterpart of the Agreement), and one copy in electronic portable document format (PDF). Additional printed copies will be furnished upon request at the cost of reproduction.

B. Owner shall maintain and safeguard at least one original printed record version of the Contract, including Drawings and Specifications signed and sealed by Engineer and other design professionals. Owner shall make such original printed record version of the Contract available to Contractor for review. Owner may delegate the responsibilities under this provision to Engineer.

2.03 Before Starting Construction

A. *Preliminary Schedules*: Within 10 days after the Effective Date of the Contract (or as otherwise required by the Contract Documents), Contractor shall submit to Engineer for timely review:

1. a preliminary Progress Schedule indicating the times (numbers of days or dates) for starting and completing the various stages of the Work, including any Milestones specified in the Contract;

2. a preliminary Schedule of Submittals; and

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3. a preliminary Schedule of Values for all of the Work which includes quantities and prices of items which when added together equal the Contract Price and subdivides the Work into component parts in sufficient detail to serve as the basis for progress payments during performance of the Work. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work.

B. Before any Work at the Site is started, Contractor shall deliver to the Owner, certificates of insurance that Contractor is required to purchase and maintain in accordance with Article5.

2.04 Preconstruction Conference; Designation of Authorized Representatives

A. Before any Work at the Site is started, a conference attended by Owner, Contractor, Engineer, and others as appropriate will be held to establish a working understanding among the parties as to the Work, and to discuss the schedules referred to in Paragraph 2.03.A, procedures for handling Shop Drawings, Samples, and other Submittals, processing Applications for Payment, electronic or digital transmittals, and maintaining required records.

B. At this conference Owner and Contractor each shall designate, in writing, a specific individual to act as its authorized representative with respect to the services and responsibilities under the Contract. Such individuals shall have the authority to transmit and receive information, render decisions relative to the Contract, and otherwise act on behalf of each respective party.

C. Owner may issue Notice to Proceed at the Preconstruction Conference. Contractor shall begin the Work within twenty-four (24) hours of the date given in the Notice to Proceed. If the Contractor does not start the Work within fourteen (14) calendar days after this date, Owner may, at his discretion, terminate Contractor in accordance with Article 16.

2.05 Acceptance of Schedules

A. At least 10 days before submission of the first Application for Payment a conference A Preconstruction Conference, attended by Contractor, Engineer, and others as appropriate, will be held to review the schedules submitted in accordance with Paragraph 2.03.A. No progress payment will be made to Contractor until acceptable schedules are submitted to Engineer.

1. The Progress Schedule will be acceptable to Engineer if it provides an orderly progression of the Work to completion within the Contract Times. Such acceptance will not impose on Engineer responsibility for the Progress Schedule, for sequencing, scheduling, or progress of the Work, nor interfere with or relieve Contractor from Contractor's full responsibility therefor.

2. Contractor's Schedule of Submittals will be acceptable to Engineer if it provides a workable arrangement for reviewing and processing the required submittals.

3. Contractor's Schedule of Values will be acceptable to Engineer as to form and substance if it provides a reasonable allocation of the Contract Price to the component parts of the Work.

4. If a schedule is not acceptable, Contractor will have an additional 10 days to revise and resubmit the schedule.

5. A schedule in accordance with the Contract shall be submitted and accepted by the Owner and engineer within thirty (30) days of NTP. Should a schedule not be accepted

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within thirty (30) days of the NTP, it will be considered a breach of contract and reason for termination of the contract for cause in accordance with the Standard General Conditions.

2.06 Electronic Transmittals

A. Except as otherwise stated elsewhere in the Contract, the Owner, Engineer, and Contractor may send, and shall accept, Electronic Documents transmitted by Electronic Means.

B. If the Contract does not establish protocols for Electronic Means, then Owner, Engineer, and Contractor shall jointly develop such protocols.

C. Subject to any governing protocols for Electronic Means, when transmitting Electronic Documents by Electronic Means, the transmitting party makes no representations as to long-term compatibility, usability, or readability of the Electronic Documents resulting from the recipient's use of software application packages, operating systems, or computer hardware differing from those used in the drafting or transmittal of the Electronic Documents.

ARTICLE 3—CONTRACT DOCUMENTS: INTENT, REQUIREMENTS, REUSE

3.01 Intent

A. The Contract Documents are complementary; what is required by one Contract Document is as binding as if required by all.

B. It is the intent of the Contract Documents to describe a functionally complete Project (or part thereof) to be constructed in accordance with the Contract Documents.

C. Unless otherwise stated in the Contract Documents, if there is a discrepancy between the electronic versions of the Contract Documents (including any printed copies derived from such electronic versions) and the printed record version, the printed record version will govern.

D. The Contract supersedes prior negotiations, representations, and agreements, whether written or oral.

E. Engineer will issue clarifications and interpretations of the Contract Documents as provided herein.

F. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation will be deemed stricken, and all remaining provisions will continue to be valid and binding upon Owner and Contractor, which agree that the Contract Documents will be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

G. Nothing in the Contract Documents creates:

1. any contractual relationship between Owner or Engineer and any Subcontractor, Supplier, or other individual or entity performing or furnishing any of the Work, for the benefit of such Subcontractor, Supplier, or other individual or entity; or

2. any obligation on the part of Owner or Engineer to pay or to see to the payment of any money due any such Subcontractor, Supplier, or other individual or entity, except as may otherwise be required by Laws and Regulations.

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3.02 Reference Standards

A. Standards Specifications, Codes, Laws and Regulations

1. Reference in the Contract Documents to standard specifications, manuals, reference standards, or codes of any technical society, organization, or association, or to Laws or Regulations, whether such reference be specific or by implication, means the standard specification, manual, reference standard, code, or Laws or Regulations in effect at the time of opening of Bids (or on the Effective Date of the Contract if there were no Bids), except as may be otherwise specifically stated in the Contract Documents.

2. No provision of any such standard specification, manual, reference standard, or code, and no instruction of a Supplier, will be effective to change the duties or responsibilities of Owner, Contractor, or Engineer from those set forth in the part of the Contract Documents prepared by or for Engineer. No such provision or instruction shall be effective to assign to Owner or Engineer any duty or authority to supervise or direct the performance of the Work, or any duty or authority to undertake responsibility inconsistent with the provisions of the part of the Contract Documents prepared by or for Engineer.

3.03 Reporting and Resolving Discrepancies

A. Reporting Discrepancies

1. *Contractor's Verification of Figures and Field Measurements*: Before undertaking each part of the Work, Contractor shall carefully study the Contract Documents, and check and verify pertinent figures and dimensions therein, particularly with respect to applicable field measurements. Contractor shall promptly report in writing to Engineer any conflict, error, ambiguity, or discrepancy that Contractor discovers, or has actual knowledge of, and shall not proceed with any Work affected thereby until the conflict, error, ambiguity, or discrepancy is resolved by a clarification or interpretation by Engineer, or by an amendment or supplement to the Contract issued pursuant to Paragraph 11.01.

2. *Contractor's Review of Contract Documents*: If, before or during the performance of the Work, Contractor discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents, or between the Contract Documents and (a) any applicable Law or Regulation, (b) actual field conditions, (c) any standard specification, manual, reference standard, or code, or (d) any instruction of any Supplier, then Contractor shall promptly report it to Engineer in writing. Contractor shall not proceed with the Work affected thereby (except in an emergency as required by Paragraph 7.15) until the conflict, error, ambiguity, or discrepancy is resolved, by a clarification or interpretation by Engineer, or by an amendment or supplement to the Contract issued pursuant to Paragraph 11.01.

3. Contractor shall not be liable to Owner or Engineer for failure to report any conflict, error, ambiguity, or discrepancy in the Contract Documents unless Contractor had actual knowledge thereof.

B. Resolving Discrepancies

1. Except as may be otherwise specifically stated in the Contract Documents, the provisions of the part of the Contract Documents prepared by or for Engineer take precedence in

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resolving any conflict, error, ambiguity, or discrepancy between such provisions of the Contract Documents and:

a. the provisions of any standard specification, manual, reference standard, or code, or the instruction of any Supplier (whether or not specifically incorporated by reference as a Contract Document); or

b. the provisions of any Laws or Regulations applicable to the performance of the Work (unless such an interpretation of the provisions of the Contract Documents would result in violation of such Law or Regulation).

3.04 Requirements of the Contract Documents

A. During the performance of the Work and until final payment, Contractor and Owner shall submit to the Engineer in writing all matters in question concerning the requirements of the Contract Documents (sometimes referred to as requests for information or interpretation—RFIs), or relating to the acceptability of the Work under the Contract Documents, as soon as possible after such matters arise. Engineer will be the initial interpreter of the requirements of the Contract Documents, and judge of the acceptability of the Work.

B. Engineer will, with reasonable promptness, render a written clarification, interpretation, or decision on the issue submitted, or initiate an amendment or supplement to the Contract Documents. Engineer's written clarification, interpretation, or decision will be final and binding on Contractor, unless it appeals by submitting a Change Proposal, and on Owner, unless it appeals by filing a Claim.

C. If a submitted matter in question concerns terms and conditions of the Contract Documents that do not involve (1) the performance or acceptability of the Work under the Contract Documents, (2) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, then Engineer will promptly notify Owner and Contractor in writing that Engineer is unable to provide a decision or interpretation. If Owner and Contractor are unable to agree on resolution of such a matter in question, either party may pursue resolution as provided in Article 12.

3.05 Reuse of Documents

A. Contractor and its Subcontractors and Suppliers shall not:

1. have or acquire any title to or ownership rights in any of the Drawings, Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of Engineer or its consultants, including electronic media versions, or reuse any such Drawings, Specifications, other documents, or copies thereof on extensions of the Project or any other project without written consent of Owner and Engineer and specific written verification or adaptation by Engineer; or

2. have or acquire any title or ownership rights in any other Contract Documents, reuse any such Contract Documents for any purpose without Owner's express written consent, or violate any copyrights pertaining to such Contract Documents.

B. The prohibitions of this Paragraph 3.05 will survive final payment, or termination of the Contract. Nothing herein precludes Contractor from retaining copies of the Contract Documents for record purposes.

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ARTICLE 4—COMMENCEMENT AND PROGRESS OF THE WORK

4.01 Commencement of Contract Times; Notice to Proceed

A. The Contract Times will commence to run on the 30th day after the Effective Date of the Contract or, if a Notice to Proceed is given, on the day indicated in the Notice to Proceed. A Notice to Proceed may be given at any time within 30 days after the Effective Date of the Contract. In no event will the Contract Times commence to run later than the 60th day after the day of Bid opening or the 30th day after the Effective Date of the Contract, whichever date is earlier.

4.02 Starting the Work

A. Contractor shall start to perform the Work on the date when the Contract Times commence to run. No Work may be done at the Site prior to such date.

4.03 Reference Points

A. Owner shall provide engineering surveys to establish reference points for construction which in Engineer's judgment are necessary to enable Contractor to proceed with the Work. Contractor shall be responsible for laying out the Work, shall protect and preserve the established reference points and property monuments, and shall make no changes or relocations without the prior written approval of Owner. Contractor shall report to Engineer whenever any reference point or property monument is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points or property monuments by professionally qualified personnel.

4.04 Progress Schedule

A. Contractor shall adhere to the Progress Schedule established in accordance with Paragraph 2.05 as it may be adjusted from time to time as provided below.

1. Contractor shall submit to Engineer for acceptance (to the extent indicated in Paragraph 2.05) proposed adjustments in the Progress Schedule that will not result in changing the Contract Times.

2. Proposed adjustments in the Progress Schedule that will change the Contract Times must be submitted in accordance with the requirements of Article 11.

B. Contractor shall carry on the Work and adhere to the Progress Schedule during all disputes or disagreements with Owner. No Work will be delayed or postponed pending resolution of any disputes or disagreements, or during any appeal process, except as permitted by Paragraph 16.04, or as Owner and Contractor may otherwise agree inwriting.

4.05 Delays in Contractor's Progress

A. If Owner, Engineer, or anyone for whom Owner is responsible, delays, disrupts, or interferes with the performance or progress of the Work, then Contractor shall be entitled to an equitable adjustment in Contract Price or Contract Times.

B. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for delay, disruption, or interference caused by or within the control of Contractor. Delay, disruption, and interference attributable to and within the control of a Subcontractor or Supplier shall be deemed to be within the control of Contractor.

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C. If Contractor's performance or progress is delayed, disrupted, or interfered with by unanticipated causes not the fault of and beyond the control of Owner, Contractor, and those for which they are responsible, then Contractor shall be entitled to an equitable adjustment in Contract Times. Such an adjustment will be Contractor's sole and exclusive remedy for the delays, disruption, and interference described in this paragraph. Causes of delay, disruption, or interference that may give rise to an adjustment in Contract Times under this paragraph include but are not limited to the following:

1. Severe and unavoidable natural catastrophes such as fires, floods, epidemics, and earthquakes;

2. Abnormal or adverse weather conditions. On the 21st of each month, or the next following business day, the Contractor shall submit to the Owner and Engineer a request for weather days. Failure to submit the request forfeits the right to claim weather days for that period and any previous period. The Owner will grant time extensions, on a day for day basis, for delays caused by the effects of rains or other inclement weather conditions or related adverse soil conditions that prevent the Contractor from productively performing controlling items of work resulting in:

a. The Contractor being unable to work at lease 50% of the normal work day on pre-determined controlling work items due to adverse weather conditions.

No additional compensation will be made for delays caused by the effects of inclement weather.

3. Acts or failures to act of third-party utility owners or other third-party entities (other than those third-party utility owners or other third-party entities performing other work at or adjacent to the Site as arranged by or under contract with Owner, as contemplated in Article 8); and

4. Acts of war or terrorism.

D. Contractor's entitlement to an adjustment of Contract Times or Contract Price is limited as follows:

1. Contractor's entitlement to an adjustment of the Contract Times is conditioned on the delay, disruption, or interference adversely affecting an activity on the critical path to completion of the Work, as of the time of the delay, disruption, or interference.

2. Contractor shall not be entitled to an adjustment in Contract Price for any delay, disruption, or interference if such delay is concurrent with a delay, disruption, or interference caused by or within the control of Contractor. Such a concurrent delay by Contractor shall not preclude an adjustment of Contract Times to which Contractor is otherwise entitled.

3. Adjustments of Contract Times or Contract Price are subject to the provisions of Article 11.

E. Each Contractor request or Change Proposal seeking an increase in Contract Times or Contract Price must be supplemented by supporting data that sets forth in detail the following:

1. The circumstances that form the basis for the requested adjustment;

2. The date upon which each cause of delay, disruption, or interference began to affect the progress of the Work;

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3. The date upon which each cause of delay, disruption, or interference ceased to affect the progress of the Work;
4. The number of days' increase in Contract Times claimed as a consequence of each such cause of delay, disruption, or interference; and
5. The impact on Contract Price, in accordance with the provisions of Paragraph11.07.

Contractor shall also furnish such additional supporting documentation as Owner or Engineer may require including, where appropriate, a revised progress schedule indicating all the activities affected by the delay, disruption, or interference, and an explanation of the effect of the delay, disruption, or interference on the critical path to completion of the Work.

F. Delays, disruption, and interference to the performance or progress of the Work resulting from the existence of a differing subsurface or physical condition, an Underground Facility that was not shown or indicated by the Contract Documents, or not shown or indicated with reasonable accuracy, and those resulting from Hazardous Environmental Conditions, are governed by Article 5, together with the provisions of Paragraphs 4.05.D and4.05.E.

G. Paragraph 8.03 addresses delays, disruption, and interference to the performance or progress of the Work resulting from the performance of certain other work at or adjacent to the Site.

ARTICLE 5—SITE; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRONMENTAL CONDITIONS

5.01 Availability of Lands

A. Owner shall furnish the Site. Owner shall notify Contractor in writing of any encumbrances or restrictions not of general application but specifically related to use of the Site with which Contractor must comply in performing the Work.

B. Upon reasonable written request, Owner shall furnish Contractor with a current statement of record legal title and legal description of the lands upon which permanent improvements are to be made and Owner's interest therein as necessary for giving notice of or filing a mechanic's or construction lien against such lands in accordance with applicable Laws and Regulations.

C. Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

D. Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment. Contractor shall obtain said land rights at his own expense and without liability to the Owner. Contractor shall not enter upon private property without first obtaining written permission from the rightful property owner.

5.02 Use of Site and Other Areas

A. Limitation on Use of Site and Other Areas

1. Contractor shall confine construction equipment, temporary construction facilities, the storage of materials and equipment, and the operations of workers to the Site, adjacent areas that Contractor has arranged to use through construction easements or otherwise, and other adjacent areas permitted by Laws and Regulations, and shall not unreasonably encumber the Site and such other adjacent areas with construction equipment or other

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materials or equipment. Contractor shall assume full responsibility for (a) damage to the Site; (b) damage to any such other adjacent areas used for Contractor's operations; (c) damage to any other adjacent land or areas, or to improvements, structures, utilities, or similar facilities located at such adjacent lands or areas; and (d) for injuries and losses sustained by the owners or occupants of any such land or areas; provided that such damage or injuries result from the performance of the Work or from other actions or conduct of the Contractor or those for which Contractor is responsible.

2. If a damage or injury claim is made by the owner or occupant of any such land or area because of the performance of the Work, or because of other actions or conduct of the Contractor or those for which Contractor is responsible, Contractor shall (a) take immediate corrective or remedial action as required by Paragraph 7.13, or otherwise; (b) promptly attempt to settle the claim as to all parties through negotiations with such owner or occupant, or otherwise resolve the claim by arbitration or other dispute resolution proceeding, or in a court of competent jurisdiction; and (c) to the fullest extent permitted by Laws and Regulations, indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, from and against any such claim, and against all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any claim or action, legal or equitable, brought by any such owner or occupant against Owner, Engineer, or any other party indemnified hereunder to the extent caused directly or indirectly, in whole or in part by, or based upon, Contractor's performance of the Work, or because of other actions or conduct of the Contractor or those for which Contractor is responsible.

B. *Removal of Debris During Performance of the Work*: During the progress of the Work the Contractor shall keep the Site and other adjacent areas free from accumulations of waste materials, rubbish, and other debris. Removal and disposal of such waste materials, rubbish, and other debris will conform to applicable Laws and Regulations.

C. *Cleaning*: Prior to Substantial Completion of the Work Contractor shall clean the Site and the Work and make it ready for utilization by Owner. At the completion of the Work Contractor shall remove from the Site and adjacent areas all tools, appliances, construction equipment and machinery, and surplus materials and shall restore to original condition all property not designated for alteration by the Contract Documents.

D. *Loading of Structures*: Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall Contractor subject any part of the Work or adjacent structures or land to stresses or pressures that will endanger them.

5.03 Subsurface and Physical Conditions

A. *Reports and Drawings*: The Supplementary Conditions identify:

1. Those reports of explorations and tests of subsurface conditions at or adjacent to the Site that contain Technical Data;

2. Those drawings of existing physical conditions at or adjacent to the Site, including those drawings depicting existing surface or subsurface structures at or adjacent to the Site (except Underground Facilities), that contain Technical Data; and

3. Technical Data contained in such reports and drawings.

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B. *Underground Facilities*: Underground Facilities are shown or indicated on the Drawings, pursuant to Paragraph 5.05, and not in the drawings referred to in Paragraph 5.03.A. Information and data regarding the presence or location of Underground Facilities are not intended to be categorized, identified, or defined as Technical Data.

C. *Reliance by Contractor on Technical Data*: Contractor may rely upon the accuracy of the Technical Data expressly identified in the Supplementary Conditions with respect to such reports and drawings, but such reports and drawings are not Contract Documents. If no such express identification has been made, then Contractor may rely upon the accuracy of the Technical Data as defined in Paragraph 1.01.A.46.b.

D. *Limitations of Other Data and Documents*: Except for such reliance on Technical Data, Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, with respect to:

1. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto;
2. other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings;
3. the contents of other Site-related documents made available to Contractor, such as record drawings from other projects at or adjacent to the Site, or Owner's archival documents concerning the Site; or
4. any Contractor interpretation of or conclusion drawn from any Technical Data or any such other data, interpretations, opinions, or information.

5.04 Differing Subsurface or Physical Conditions

A. *Notice by Contractor*: If Contractor believes that any subsurface or physical condition that is uncovered or revealed at the Site:

1. is of such a nature as to establish that any Technical Data on which Contractor is entitled to rely as provided in Paragraph 5.03 is materially inaccurate;
2. is of such a nature as to require a change in the Drawings or Specifications;
3. differs materially from that shown or indicated in the Contract Documents; or
4. is of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents;

then Contractor shall, promptly after becoming aware thereof and before further disturbing the subsurface or physical conditions or performing any Work in connection therewith (except in an emergency as required by Paragraph 7.15), notify Owner and Engineer in writing about such condition. Contractor shall not further disturb such condition or perform any Work in connection therewith (except with respect to an emergency) until receipt of a written statement permitting Contractor to do so.

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B. *Engineer's Review*: After receipt of written notice as required by the preceding paragraph, Engineer will promptly review the subsurface or physical condition in question; determine whether it is necessary for Owner to obtain additional exploration or tests with respect to the condition; conclude whether the condition falls within any one or more of the differing site condition categories in Paragraph 5.04.A; obtain any pertinent cost or schedule information from Contractor; prepare recommendations to Owner regarding the Contractor's resumption of Work in connection with the subsurface or physical condition in question and the need for any change in the Drawings or Specifications; and advise Owner in writing of Engineer's findings, conclusions, and recommendations.

C. *Owner's Statement to Contractor Regarding Site Condition*: After receipt of Engineer's written findings, conclusions, and recommendations, Owner shall issue a written statement to Contractor (with a copy to Engineer) regarding the subsurface or physical condition in question, addressing the resumption of Work in connection with such condition, indicating whether any change in the Drawings or Specifications will be made, and adopting or rejecting Engineer's written findings, conclusions, and recommendations, in whole or in part.

D. *Early Resumption of Work*: If at any time Engineer determines that Work in connection with the subsurface or physical condition in question may resume prior to completion of Engineer's review or Owner's issuance of its statement to Contractor, because the condition in question has been adequately documented, and analyzed on a preliminary basis, then the Engineer may at its discretion instruct Contractor to resume such Work.

E. Possible Price and Times Adjustments

1. Contractor shall be entitled to an equitable adjustment in Contract Price or Contract Times, to the extent that the existence of a differing subsurface or physical condition, or any related delay, disruption, or interference, causes an increase or decrease in Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:

    a. Such condition must fall within any one or more of the categories described in Paragraph 5.04.A;

    b. With respect to Work that is paid for on a unit price basis, any adjustment in Contract Price will be subject to the provisions of Paragraph 13.03; and,

    c. Contractor's entitlement to an adjustment of the Contract Times is subject to the provisions of Paragraphs 4.05.D and 4.05.E.

2. Contractor shall not be entitled to any adjustment in the Contract Price or Contract Times with respect to a subsurface or physical condition if:

    a. Contractor knew of the existence of such condition at the time Contractor made a commitment to Owner with respect to Contract Price and Contract Times by the submission of a Bid or becoming bound under a negotiated contract, or otherwise;

    b. The existence of such condition reasonably could have been discovered or revealed as a result of any examination, investigation, exploration, test, or study of the Site and contiguous areas expressly required by the Bidding Requirements or Contract Documents to be conducted by or for Contractor prior to Contractor's making such commitment; or

    c. Contractor failed to give the written notice required by Paragraph 5.04.A.

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3. If Owner and Contractor agree regarding Contractor's entitlement to and the amount or extent of any adjustment in the Contract Price or Contract Times, then any such adjustment will be set forth in a Change Order.

4. Contractor may submit a Change Proposal regarding its entitlement to or the amount or extent of any adjustment in the Contract Price or Contract Times, no later than 30 days after Owner's issuance of the Owner's written statement to Contractor regarding the subsurface or physical condition in question.

F. *Underground Facilities; Hazardous Environmental Conditions*: Paragraph 5.05 governs rights and responsibilities regarding the presence or location of Underground Facilities. Paragraph 5.06 governs rights and responsibilities regarding Hazardous Environmental Conditions. The provisions of Paragraphs 5.03 and 5.04 are not applicable to the presence or location of Underground Facilities, or to Hazardous Environmental Conditions.

5.05 Underground Facilities

A. *Contractor's Responsibilities*: Unless it is otherwise expressly provided in the Supplementary Conditions, the cost of all of the following are included in the Contract Price, and Contractor shall have full responsibility for:

1. reviewing and checking all information and data regarding existing Underground Facilities at the Site;

2. complying with applicable state and local utility damage prevention Laws and Regulations;

3. verifying the actual location of those Underground Facilities shown or indicated in the Contract Documents as being within the area affected by the Work, by exposing such Underground Facilities during the course of construction;

4. coordination of the Work with the owners (including Owner) of such Underground Facilities, during construction; and

5. the safety and protection of all existing Underground Facilities at the Site, and repairing any damage thereto resulting from the Work.

B. *Notice by Contractor*: If Contractor believes that an Underground Facility that is uncovered or revealed at the Site was not shown or indicated on the Drawings, or was not shown or indicated on the Drawings with reasonable accuracy, then Contractor shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or performing any Work in connection therewith (except in an emergency as required by Paragraph 7.15), notify Owner and Engineer in writing regarding such Underground Facility.

C. *Engineer's Review*: Engineer will:

1. promptly review the Underground Facility and conclude whether such Underground Facility was not shown or indicated on the Drawings, or was not shown or indicated with reasonable accuracy;

2. identify and communicate with the owner of the Underground Facility; prepare recommendations to Owner (and if necessary issue any preliminary instructions to Contractor) regarding the Contractor's resumption of Work in connection with the Underground Facility in question;

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3. obtain any pertinent cost or schedule information from Contractor; determine the extent, if any, to which a change is required in the Drawings or Specifications to reflect and document the consequences of the existence or location of the Underground Facility; and

4. advise Owner in writing of Engineer's findings, conclusions, and recommendations.

During such time, Contractor shall be responsible for the safety and protection of such Underground Facility.

D. *Owner's Statement to Contractor Regarding Underground Facility*: After receipt of Engineer's written findings, conclusions, and recommendations, Owner shall issue a written statement to Contractor (with a copy to Engineer) regarding the Underground Facility in question addressing the resumption of Work in connection with such Underground Facility, indicating whether any change in the Drawings or Specifications will be made, and adopting or rejecting Engineer's written findings, conclusions, and recommendations in whole or in part.

E. *Early Resumption of Work*: If at any time Engineer determines that Work in connection with the Underground Facility may resume prior to completion of Engineer's review or Owner's issuance of its statement to Contractor, because the Underground Facility in question and conditions affected by its presence have been adequately documented, and analyzed on a preliminary basis, then the Engineer may at its discretion instruct Contractor to resume such Work.

F. Possible Price and Times Adjustments

1. Contractor shall be entitled to an equitable adjustment in the Contract Price or Contract Times, to the extent that any existing Underground Facility at the Site that was not shown or indicated on the Drawings, or was not shown or indicated with reasonable accuracy, or any related delay, disruption, or interference, causes an increase or decrease in Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:

   a. With respect to Work that is paid for on a unit price basis, any adjustment in Contract Price will be subject to the provisions of Paragraph 13.03;

   b. Contractor's entitlement to an adjustment of the Contract Times is subject to the provisions of Paragraphs 4.05.D and 4.05.E; and

   c. Contractor gave the notice required in Paragraph 5.05.B.

2. If Owner and Contractor agree regarding Contractor's entitlement to and the amount or extent of any adjustment in the Contract Price or Contract Times, then any such adjustment will be set forth in a Change Order.

3. Contractor may submit a Change Proposal regarding its entitlement to or the amount or extent of any adjustment in the Contract Price or Contract Times, no later than 30 days after Owner's issuance of the Owner's written statement to Contractor regarding the Underground Facility in question.

4. The information and data shown or indicated on the Drawings with respect to existing Underground Facilities at the Site is based on information and data (a) furnished by the owners of such Underground Facilities, or by others, (b) obtained from available records, or (c) gathered in an investigation conducted in accordance with the current edition of ASCE 38, Standard Guideline for the Collection and Depiction of Existing Subsurface Utility

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Data, by the American Society of Civil Engineers. If such information or data is incorrect or incomplete, Contractor's remedies are limited to those set forth in this Paragraph 5.05.F.

5.06 Hazardous Environmental Conditions at Site

A. *Reports and Drawings*: The Supplementary Conditions identify:

1. those reports known to Owner relating to Hazardous Environmental Conditions that have been identified at or adjacent to the Site;

2. drawings known to Owner relating to Hazardous Environmental Conditions that have been identified at or adjacent to the Site; and

3. Technical Data contained in such reports and drawings.

B. *Reliance by Contractor on Technical Data Authorized*: Contractor may rely upon the accuracy of the Technical Data expressly identified in the Supplementary Conditions with respect to such reports and drawings, but such reports and drawings are not Contract Documents. If no such express identification has been made, then Contractor may rely on the accuracy of the Technical Data as defined in Paragraph 1.01.A.46.b. Except for such reliance on Technical Data, Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, with respect to:

1. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto;

2. other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or

3. any Contractor interpretation of or conclusion drawn from any Technical Data or any such other data, interpretations, opinions or information.

C. Contractor shall not be responsible for removing or remediating any Hazardous Environmental Condition encountered, uncovered, or revealed at the Site unless such removal or remediation is expressly identified in the Contract Documents to be within the scope of the Work.

D. Contractor shall be responsible for controlling, containing, and duly removing all Constituents of Concern brought to the Site by Contractor, Subcontractors, Suppliers, or anyone else for whom Contractor is responsible, and for any associated costs; and for the costs of removing and remediating any Hazardous Environmental Condition created by the presence of any such Constituents of Concern.

E. If Contractor encounters, uncovers, or reveals a Hazardous Environmental Condition whose removal or remediation is not expressly identified in the Contract Documents as being within the scope of the Work, or if Contractor or anyone for whom Contractor is responsible creates a Hazardous Environmental Condition, then Contractor shall immediately: (1) secure or otherwise isolate such condition; (2) stop all Work in connection with such condition and in any area affected thereby (except in an emergency as required by Paragraph 7.15); and (3) notify Owner and Engineer (and promptly thereafter confirm such notice in writing). Owner

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shall promptly consult with Engineer concerning the necessity for Owner to retain a qualified expert to evaluate such condition or take corrective action, if any. Promptly after consulting with Engineer, Owner shall take such actions as are necessary to permit Owner to timely obtain required permits and provide Contractor the written notice required by Paragraph 5.06.F. If Contractor or anyone for whom Contractor is responsible created the Hazardous Environmental Condition in question, then Owner may remove and remediate the Hazardous Environmental Condition, and impose a set-off against payments to account for the associated costs.

F. Contractor shall not resume Work in connection with such Hazardous Environmental Condition or in any affected area until after Owner has obtained any required permits related thereto, and delivered written notice to Contractor either (1) specifying that such condition and any affected area is or has been rendered safe for the resumption of Work, or (2) specifying any special conditions under which such Work may be resumed safely.

G. If Owner and Contractor cannot agree as to entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times, as a result of such Work stoppage, such special conditions under which Work is agreed to be resumed by Contractor, or any costs or expenses incurred in response to the Hazardous Environmental Condition, then within 30 days of Owner's written notice regarding the resumption of Work, Contractor may submit a Change Proposal, or Owner may impose a set-off. Entitlement to any such adjustment is subject to the provisions of Paragraphs 4.05.D, 4.05.E, 11.07, and 11.08.

H. If, after receipt of such written notice, Contractor does not agree to resume such Work based on a reasonable belief it is unsafe, or does not agree to resume such Work under such special conditions, then Owner may order the portion of the Work that is in the area affected by such condition to be deleted from the Work, following the contractual change procedures in Article 11. Owner may have such deleted portion of the Work performed by Owner's own forces or others in accordance with Article 8.

I. To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, Subcontractors, and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court, arbitration, or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition, provided that such Hazardous Environmental Condition (1) was not shown or indicated in the Drawings, Specifications, or other Contract Documents, identified as Technical Data entitled to limited reliance pursuant to Paragraph 5.06.B, or identified in the Contract Documents to be included within the scope of the Work, and (2) was not created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 5.06.I obligates Owner to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

J. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the failure to control, contain, or remove a

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Constituent of Concern brought to the Site by Contractor or by anyone for whom Contractor is responsible, or to a Hazardous Environmental Condition created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 5.06.J obligates Contractor to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

K. The provisions of Paragraphs 5.03, 5.04, and 5.05 do not apply to the presence of Constituents of Concern or to a Hazardous Environmental Condition uncovered or revealed at the Site.

ARTICLE 6—BONDS AND INSURANCE

6.01 Performance, Payment, and Other Bonds

A. Contractor shall furnish a performance bond and a payment bond, each in an amount at least equal to the Contract Price, as security for the faithful performance and payment of Contractor's obligations under the Contract. These bonds must remain in effect until one year after the date when final payment becomes due or until completion of the correction period specified in Paragraph 15.08, whichever is later, except as provided otherwise by Laws or Regulations, the terms of a prescribed bond form, the Supplementary Conditions, or other provisions of the Contract.

B. Contractor shall also furnish such other bonds (if any) as are required by the Supplementary Conditions or other provisions of the Contract.

C. ~~All bonds must be in the form included in the Bidding Documents or otherwise specified by Owner prior to execution of the Contract, except as provided otherwise by Laws or Regulations,~~ and must be issued and signed by a surety named in "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Department Circular 570 (as amended and supplemented) by the Bureau of the Fiscal Service, U.S. Department of the Treasury. A bond signed by an agent or attorney-in-fact must be accompanied by a certified copy of that individual's authority to bind the surety. The evidence of authority must show that it is ~~effective on the date the agent or attorney-in-fact signed the accompanying bond~~ All Bonds shall be in the form prescribed by the Contract Documents or other form approved by Owner. All else notwithstanding, the terms of all Bonds shall be substantially in the form prescribed by Chapter 225, Florida Statutes. All Bonds shall ~~be executed by Contractor and a corporate bonding company licensed to transact such business in the State of Florida and named on the current list of "Surety Companies Acceptable on Federal Bonds" as published in the Treasury Department Circular Number 570. Contactor will cause the Bonds to be recorded with the Clerk of the Circuit Court in the county in which the Work is to be performed. Failure to execute bonds in the form prescribed may constitute non-responsiveness on the part of the~~ Contractor. The expense for all Bonds shall be the Contractor's responsibility.

D. Contractor shall obtain the required bonds from surety companies that are duly licensed or authorized, in the state or jurisdiction in which the Project is located, to issue bonds in the required amounts.

E. If the surety on a bond furnished by Contractor is declared bankrupt or becomes insolvent, or the surety ceases to meet the requirements above, then Contractor shall promptly notify Owner and Engineer in writing and shall, within 20 days after the event giving rise to such

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notification, provide another bond and surety, both of which must comply with the bond and surety requirements above.

F. If Contractor has failed to obtain a required bond, Owner may exclude the Contractor from the Site and exercise Owner's termination rights under Article 16.

G. Upon request to Owner from any Subcontractor, Supplier, or other person or entity claiming to have furnished labor, services, materials, or equipment used in the performance of the Work, Owner shall provide a copy of the payment bond to such person or entity.

H. Upon request to Contractor from any Subcontractor, Supplier, or other person or entity claiming to have furnished labor, services, materials, or equipment used in the performance of the Work, Contractor shall provide a copy of the payment bond to such person or entity.

6.02 Insurance—General Provisions

A. Owner and Contractor shall obtain and maintain insurance as required in this article and in the Supplementary Conditions.

B. All insurance required by the Contract to be purchased and maintained by Owner or Contractor shall be obtained from insurance companies that are duly licensed or authorized in the state or jurisdiction in which the Project is located to issue insurance policies for the required limits and coverages. Unless a different standard is indicated in the Supplementary Conditions, or unless approved in writing by the Owner, all companies that provide insurance policies required under this Contract shall have ~~an A.M. Best rating of A-VII or better~~ a current Rating Classification/Financial Category as published in the latest edition of "Best's Key Rating Guide" of at least an A- or above.

C. Alternative forms of insurance coverage, including but not limited to self-insurance and "Occupational Accident and Excess Employer's Indemnity Policies," are not sufficient to meet the insurance requirements of this Contract, unless expressly allowed in the Supplementary Conditions.

D. Contractor shall deliver to Owner, with copies to each additional insured identified in the Contract, certificates of insurance and endorsements establishing that Contractor has obtained and is maintaining the policies and coverages required by the Contract. Upon request by Owner or any other insured, Contractor shall also furnish other evidence of such required insurance, including but not limited to copies of policies, documentation of applicable self-insured retentions (if allowed) and deductibles, full disclosure of all relevant exclusions, and evidence of insurance required to be purchased and maintained by Subcontractors or Suppliers. In any documentation furnished under this provision, Contractor, Subcontractors, and Suppliers may block out (redact) (1) any confidential premium or pricing information and (2) any wording specific to a project or jurisdiction other than those applicable to this Contract.

E. Owner shall deliver to Contractor, with copies to each additional insured identified in the Contract, certificates of insurance and endorsements establishing that Owner has obtained and is maintaining the policies and coverages required of Owner by the Contract (if any). All certificates of insurance shall be dated and shall show the name of the insured Contractor, the specific job by name and job number, the name of the insurer, the policy number assigned, its effective date and its termination date and a list of any exclusionary endorsements. Upon request by Contractor or any other insured, Owner shall also provide other evidence of such required insurance (if any), including but not limited to copies of

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policies, documentation of applicable self-insured retentions (if allowed) and deductibles, and full disclosure of all relevant exclusions. In any documentation furnished under this provision, Owner may block out (redact) (1) any confidential premium or pricing information and (2) any wording specific to a project or jurisdiction other than those relevant to this Contract.

F. Failure of Owner or Contractor to demand such certificates or other evidence of the other party's full compliance with these insurance requirements, or failure of Owner or Contractor to identify a deficiency in compliance from the evidence provided, will not be construed as a waiver of the other party's obligation to obtain and maintain such insurance.

G. In addition to the liability insurance required to be provided by Contractor, the Owner, at Owner's option, may purchase and maintain Owner's own liability insurance. Owner's liability policies, if any, operate separately and independently from policies required to be provided by Contractor, and Contractor cannot rely upon Owner's liability policies for any of Contractor's obligations to the Owner, Engineer, or third parties.

H. Contractor shall require:

1. Subcontractors to purchase and maintain worker's compensation, commercial general liability, and other insurance that is appropriate for their participation in the Project, and to name as additional insureds Owner and Engineer (and any other individuals or entities identified in the Supplementary Conditions as additional insureds on Contractor's liability policies) on each Subcontractor's commercial general liability insurance policy; and

2. Suppliers to purchase and maintain insurance that is appropriate for their participation in the Project.

I. If either party does not purchase or maintain the insurance required of such party by the Contract, such party shall notify the other party in writing of such failure to purchase prior to the start of the Work, or of such failure to maintain prior to any change in the required coverage.

J. If Contractor has failed to obtain and maintain required insurance, Contractor's entitlement to enter or remain at the Site will end immediately, and Owner may impose an appropriate set-off against payment for any associated costs (including but not limited to the cost of purchasing necessary insurance coverage), and exercise Owner's termination rights under Article 16.

K. Without prejudice to any other right or remedy, if a party has failed to obtain required insurance, the other party may elect (but is in no way obligated) to obtain equivalent insurance to protect such other party's interests at the expense of the party who was required to provide such coverage, and the Contract Price will be adjusted accordingly.

L. Owner does not represent that insurance coverage and limits established in this Contract necessarily will be adequate to protect Contractor or Contractor's interests. Contractor is responsible for determining whether such coverage and limits are adequate to protect its interests, and for obtaining and maintaining any additional insurance that Contractor deems necessary.

M. The insurance and insurance limits required herein will not be deemed as a limitation on Contractor's liability, or that of its Subcontractors or Suppliers, under the indemnities granted to Owner and other individuals and entities in the Contract or otherwise.

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N. All the policies of insurance required to be purchased and maintained under this Contract will contain a provision or endorsement that the coverage afforded will not be canceled, or renewal refused, until at least 10 thirty (30) days prior written notice has been given to the purchasing policyholder , Owner and other individuals and entities in the Contract or otherwise listed in the Contract Documents ~~Within three days of receipt of any such writ ten notice, the purchasing policyholder shall provide a copy of the notice to each other insured and Engineer~~.

6.03 Contractor's Insurance

A. *Required Insurance*: Contractor shall purchase and maintain Worker's Compensation, Commercial General Liability, and other insurance pursuant to the specific requirements of the Supplementary Conditions.

B. *General Provisions*: The policies of insurance required by this Paragraph 6.03 as supplemented must:

1. include at least the specific coverages required;
2. be written for not less than the limits provided, or those required by Laws or Regulations, whichever is greater;
3. remain in effect at least until the Work is complete (as set forth in Paragraph 15.06.D), and longer if expressly required elsewhere in this Contract, and at all times thereafter when Contractor may be correcting, removing, or replacing defective Work as a warranty or correction obligation, or otherwise, or returning to the Site to conduct other tasks arising from the Contract;
4. apply with respect to the performance of the Work, whether such performance is by Contractor, any Subcontractor or Supplier, or by anyone directly or indirectly employed by any of them to perform any of the Work, or by anyone for whose acts any of them may be liable; and
5. include all necessary endorsements to support the stated requirements.

C. *Additional Insureds*: The Contractor's commercial general liability, automobile liability, employer's liability, umbrella or excess, pollution liability, and unmanned aerial vehicle liability policies, if required by this Contract, must:

1. include and list as additional insureds Owner and Engineer, and any individuals or entities identified as additional insureds in the Supplementary Conditions;
2. include coverage for the respective officers, directors, members, partners, employees, and consultants of all such additional insureds;
3. afford primary coverage to these additional insureds for all claims covered thereby (including as applicable those arising from both ongoing and completed operations);
4. not seek contribution from insurance maintained by the additional insured; and
5. as to commercial general liability insurance, apply to additional insureds with respect to liability caused in whole or in part by Contractor's acts or omissions, or the acts and omissions of those working on Contractor's behalf, in the performance of Contractor's operations.

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6.04 Builder's Risk and Other Property Insurance

A. *Builder's Risk*: Unless otherwise provided in the Supplementary Conditions, Contractor shall purchase and maintain builder's risk insurance upon the Work on a completed value basis, in the amount of the Work's full insurable replacement cost (subject to such deductible amounts as may be provided in the Supplementary Conditions or required by Laws and Regulations). The specific requirements applicable to the builder's risk insurance are set forth in the Supplementary Conditions.

B. *Property Insurance for Facilities of Owner Where Work Will Occur*: Owner is responsible for obtaining and maintaining property insurance covering each existing structure, building, or facility in which any part of the Work will occur, or to which any part of the Work will attach or be adjoined. Such property insurance will be written on a special perils (all-risk) form, on a replacement cost basis, providing coverage consistent with that required for the builder's risk insurance, and will be maintained until the Work is complete, as set forth in Paragraph 15.06.D.

C. *Property Insurance for Substantially Complete Facilities*: Promptly after Substantial Completion, and before actual occupancy or use of the substantially completed Work, Owner will obtain property insurance for such substantially completed Work, and maintain such property insurance at least until the Work is complete, as set forth in Paragraph 15.06.D. Such property insurance will be written on a special perils (all-risk) form, on a replacement cost basis, and provide coverage consistent with that required for the builder's risk insurance. The builder's risk insurance may terminate upon written confirmation of Owner's procurement of such property insurance.

D. *Partial Occupancy or Use by Owner*: If Owner will occupy or use a portion or portions of the Work prior to Substantial Completion of all the Work, as provided in Paragraph 15.04, then Owner (directly, if it is the purchaser of the builder's risk policy, or through Contractor) will provide advance notice of such occupancy or use to the builder's risk insurer, and obtain an endorsement consenting to the continuation of coverage prior to commencing such partial occupancy or use.

E. *Insurance of Other Property; Additional Insurance*: If the express insurance provisions of the Contract do not require or address the insurance of a property item or interest, then the entity or individual owning such property item will be responsible for insuring it. If Contractor elects to obtain other special insurance to be included in or supplement the builder's risk or property insurance policies provided under this Paragraph 6.04, it may do so at Contractor's expense.

6.05 Property Losses; Subrogation

A. The builder's risk insurance policy purchased and maintained in accordance with Paragraph 6.04 (or an installation floater policy if authorized by the Supplementary Conditions), will contain provisions to the effect that in the event of payment of any loss or damage the insurer will have no rights of recovery against any insureds thereunder, or against Engineer or its consultants, or their officers, directors, members, partners, employees, agents, consultants, or subcontractors.

1. Owner and Contractor waive all rights against each other and the respective officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, for all losses and damages caused by, arising out of, or resulting from any of the perils, risks, or causes of loss covered by such policies and any other

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property insurance applicable to the Work; and, in addition, waive all such rights against Engineer, its consultants, all individuals or entities identified in the Supplementary Conditions as builder's risk or installation floater insureds, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, under such policies for losses and damages so caused.

2. None of the above waivers extends to the rights that any party making such waiver may have to the proceeds of insurance held by Owner or Contractor as trustee or fiduciary, or otherwise payable under any policy so issued.

B. Any property insurance policy maintained by Owner covering any loss, damage, or consequential loss to Owner's existing structures, buildings, or facilities in which any part of the Work will occur, or to which any part of the Work will attach or adjoin; to adjacent structures, buildings, or facilities of Owner; or to part or all of the completed or substantially completed Work, during partial occupancy or use pursuant to Paragraph 15.04, after Substantial Completion pursuant to Paragraph 15.03, or after final payment pursuant to Paragraph 15.06, will contain provisions to the effect that in the event of payment of any loss or damage the insurer will have no rights of recovery against any insureds thereunder, or against Contractor, Subcontractors, or Engineer, or the officers, directors, members, partners, employees, agents, consultants, or subcontractors of each and any of them, and that the insured is allowed to waive the insurer's rights of subrogation in a written contract executed prior to the loss, damage, or consequential loss.

1. Owner waives all rights against Contractor, Subcontractors, and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, for all losses and damages caused by, arising out of, or resulting from fire or any of the perils, risks, or causes of loss covered by such policies.

C. The waivers in this Paragraph 6.05 include the waiver of rights due to business interruption, loss of use, or other consequential loss extending beyond direct physical loss or damage to Owner's property or the Work caused by, arising out of, or resulting from fire or other insured peril, risk, or cause of loss.

D. Contractor shall be responsible for assuring that each Subcontract contains provisions whereby the Subcontractor waives all rights against Owner, Contractor, all individuals or entities identified in the Supplementary Conditions as insureds, the Engineer and its consultants, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, for all losses and damages caused by, arising out of, relating to, or resulting from fire or other peril, risk, or cause of loss covered by builder's risk insurance, installation floater, and any other property insurance applicable to the Work.

6.06 Receipt and Application of Property Insurance Proceeds

A. Any insured loss under the builder's risk and other policies of property insurance required by Paragraph 6.04 will be adjusted and settled with the named insured that purchased the policy. Such named insured shall act as fiduciary for the other insureds, and give notice to such other insureds that adjustment and settlement of a claim is in progress. Any other insured may state its position regarding a claim for insured loss in writing within 15 days after notice of such claim.

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B. Proceeds for such insured losses may be made payable by the insurer either jointly to multiple insureds, or to the named insured that purchased the policy in its own right and as fiduciary for other insureds, subject to the requirements of any applicable mortgage clause. A named insured receiving insurance proceeds under the builder's risk and other policies of insurance required by Paragraph 6.04 shall maintain such proceeds in a segregated account, and distribute such proceeds in accordance with such agreement as the parties in interest may reach, or as otherwise required under the dispute resolution provisions of this Contract or applicable Laws and Regulations.

C. If no other special agreement is reached, Contractor shall repair or replace the damaged Work, using allocated insurance proceeds.

ARTICLE 7—CONTRACTOR'S RESPONSIBILITIES

7.01 Contractor's Means and Methods of Construction

A. Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction. Owner reserves the right to reject any means, methods, techniques, sequences or procedures proposed by Contractor which:

1. will constitute or create a hazard to the Work or to the persons or damage to property or existing utilities; or

2. will not produce finished Work in accordance with the terms of the Contract Documents.

Owner's failure to exercise his right to reject such means, methods, techniques, sequences or procedures shall not relieve the Contractor of his obligation to accomplish the result intended in the Contract Documents nor shall the exercise of such right create a cause of action for damages.

B. If the Contract Documents note, or Contractor determines, that professional engineering or other design services are needed to carry out Contractor's responsibilities for construction means, methods, techniques, sequences, and procedures, or for Site safety, then Contractor shall cause such services to be provided by a properly licensed design professional, at Contractor's expense. Such services are not Owner-delegated professional design services under this Contract, and neither Owner nor Engineer has any responsibility with respect to (1) Contractor's determination of the need for such services, (2) the qualifications or licensing of the design professionals retained or employed by Contractor, (3) the performance of such services, or (4) any errors, omissions, or defects in such services.

7.02 Supervision and Superintendence

A. Contractor shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents.

B. At all times during the progress of the Work, Contractor shall assign a competent resident superintendent who will not be replaced without written notice to Owner and Engineer except under extraordinary circumstances.

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7.03 Labor; Working Hours

A. Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. Contractor shall maintain good discipline and order at the Site.

B. Contractor shall be fully responsible to Owner and Engineer for all acts and omissions of Contractor's employees; of Suppliers and Subcontractors, and their employees; and of any other individuals or entities performing or furnishing any of the Work, just as Contractor is responsible for Contractor's own acts and omissions.

C. Except as otherwise required for the safety or protection of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the Contract Documents, all Work at the Site will be performed during regular working hours, Monday through Friday. Contractor will not perform Work on a Saturday, Sunday, or any legal holiday. Contractor may perform Work outside regular working hours or on Saturdays, Sundays, or legal holidays only with Owner's written consent, which will not be unreasonably withheld.

D. Engineer shall record time and costs required by Engineer and Engineer's Consultants to provide inspection services due to Contractor's working beyond regular working hours as defined in the General Requirements. Owner's reimbursement for the charges shall be a deduction from Contractor's Partial Payment(s) in accordance with Section 01 11 00 Part 2.02.

7.04 Services, Materials, and Equipment

A. Unless otherwise specified in the Contract Documents, Contractor shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start up, and completion of the Work, whether or not such items are specifically called for in the Contract Documents.

B. All materials and equipment incorporated into the Work must be new and of good quality, except as otherwise provided in the Contract Documents. All special warranties and guarantees required by the Specifications will expressly run to the benefit of Owner. If required by Engineer, Contractor shall furnish satisfactory evidence (including reports of required tests) as to the source, kind, and quality of materials and equipment.

C. All materials and equipment must be stored, applied, installed, connected, erected, protected, used, cleaned, and conditioned in accordance with instructions of the applicable Supplier, except as otherwise may be provided in the Contract Documents.

7.05 "Or Equals"

A. *Contractor's Request; Governing Criteria*: Whenever an item of equipment or material is specified or described in the Contract Documents by using the names of one or more proprietary items or specific Suppliers, the Contract Price has been based upon Contractor furnishing such item as specified. The specification or description of such an item is intended to establish the type, function, appearance, and quality required. Unless the specification or description contains or is followed by words reading that no like, equivalent, or "or equal" item is permitted, Contractor may request that Engineer authorize the use of other items of equipment or material, or items from other proposed Suppliers, under the circumstances described below.

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1. If Engineer in its sole discretion determines that an item of equipment or material proposed by Contractor is functionally equal to that named and sufficiently similar so that no change in related Work will be required, Engineer will deem it an "or equal" item. For the purposes of this paragraph, a proposed item of equipment or material will be considered functionally equal to an item so named if:

    a. in the exercise of reasonable judgment Engineer determines that the proposed item:

        1) is at least equal in materials of construction, quality, durability, appearance, strength, and design characteristics;

        2) will reliably perform at least equally well the function and achieve the results imposed by the design concept of the completed Project as a functioning whole;

        3) has a proven record of performance and availability of responsive service; and

        4) is not objectionable to Owner.

    b. Contractor certifies that, if the proposed item is approved and incorporated into the Work:

        1) there will be no increase in cost to the Owner or increase in Contract Times; and

        2) the item will conform substantially to the detailed requirements of the item named in the Contract Documents.

B. *Contractor's Expense*: Contractor shall provide all data in support of any proposed "or equal" item at Contractor's expense.

C. *Engineer's Evaluation and Determination*: Engineer will be allowed a reasonable time to evaluate each "or-equal" request. Engineer may require Contractor to furnish additional data about the proposed "or-equal" item. Engineer will be the sole judge of acceptability. No "or-equal" item will be ordered, furnished, installed, or utilized until Engineer's review is complete and Engineer determines that the proposed item is an "or-equal," which will be evidenced by an approved Shop Drawing or other written communication. Engineer will advise Contractor in writing of any negative determination.

D. *Effect of Engineer's Determination*: Neither approval nor denial of an "or-equal" request will result in any change in Contract Price. The Engineer's denial of an "or-equal" request will be final and binding, and may not be reversed through an appeal under any provision of the Contract.

E. *Treatment as a Substitution Request*: If Engineer determines that an item of equipment or material proposed by Contractor does not qualify as an "or-equal" item, Contractor may request that Engineer consider the item a proposed substitute pursuant to Paragraph7.06.

7.06 Substitutes

A. *Contractor's Request; Governing Criteria*: Unless the specification or description of an item of equipment or material required to be furnished under the Contract Documents contains or is followed by words reading that no substitution is permitted, Contractor may request that Engineer authorize the use of other items of equipment or material under the circumstances described below. To the extent possible such requests must be made before commencement of related construction at the Site.

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1. Contractor shall submit sufficient information as provided below to allow Engineer to determine if the item of material or equipment proposed is functionally equivalent to that named and an acceptable substitute therefor. Engineer will not accept requests for review of proposed substitute items of equipment or material from anyone other than Contractor.

2. The requirements for review by Engineer will be as set forth in Paragraph 7.06.B, as supplemented by the Specifications, and as Engineer may decide is appropriate under the circumstances.

3. Contractor shall make written application to Engineer for review of a proposed substitute item of equipment or material that Contractor seeks to furnish or use. The application:

    a. will certify that the proposed substitute item will:

        1) perform adequately the functions and achieve the results called for by the general design;

        2) be similar in substance to the item specified; and

        3) be suited to the same use as the item specified.

    b. will state:

        1) the extent, if any, to which the use of the proposed substitute item will necessitate a change in Contract Times;

        2) whether use of the proposed substitute item in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with Owner for other work on the Project) to adapt the design to the proposed substitute item; and

        3) whether incorporation or use of the proposed substitute item in connection with the Work is subject to payment of any license fee or royalty.

    c. will identify:

        1) all variations of the proposed substitute item from the item specified; and

        2) available engineering, sales, maintenance, repair, and replacement services.

    d. will contain an itemized estimate of all costs or credits that will result directly or indirectly from use of such substitute item, including but not limited to changes in Contract Price, shared savings, costs of redesign, and claims of other contractors affected by any resulting change.

B. *Engineer's Evaluation and Determination*: Engineer will be allowed a reasonable time to evaluate each substitute request, and to obtain comments and direction from Owner. Engineer may require Contractor to furnish additional data about the proposed substitute item. Engineer will be the sole judge of acceptability. No substitute will be ordered, furnished, installed, or utilized until Engineer's review is complete and Engineer determines that the proposed item is an acceptable substitute. Engineer's determination will be evidenced by a Field Order or a proposed Change Order accounting for the substitution itself and all related impacts, including changes in Contract Price or Contract Times. Engineer will advise Contractor in writing of any negative determination.

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C. *Special Guarantee*: Owner may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute.

D. *Reimbursement of Engineer's Cost*: Engineer will record Engineer's costs in evaluating a substitute proposed or submitted by Contractor. Whether or not Engineer approves a substitute so proposed or submitted by Contractor, Contractor shall reimburse Owner for the reasonable charges of Engineer for evaluating each such proposed substitute. Contractor shall also reimburse Owner for the reasonable charges of Engineer for making changes in the Contract Documents (or in the provisions of any other direct contract with Owner) resulting from the acceptance of each proposed substitute.

E. *Contractor's Expense*: Contractor shall provide all data in support of any proposed substitute at Contractor's expense.

F. *Effect of Engineer's Determination*: If Engineer approves the substitution request, Contractor shall execute the proposed Change Order and proceed with the substitution. The Engineer's denial of a substitution request will be final and binding, and may not be reversed through an appeal under any provision of the Contract. Contractor may challenge the scope of reimbursement costs imposed under Paragraph 7.06.D, by timely submittal of a Change Proposal.

7.07 Concerning Subcontractors and Suppliers

A. Contractor may retain Subcontractors and Suppliers for the performance of parts of the Work. Such Subcontractors and Suppliers must be acceptable to Owner. The Contractor's retention of a Subcontractor or Supplier for the performance of parts of the Work will not relieve Contractor's obligation to Owner to perform and complete the Work in accordance with the Contract Documents.

B. Contractor shall retain specific Subcontractors and Suppliers for the performance of designated parts of the Work if required by the Contract to do so.

C. Subsequent to the submittal of Contractor's Bid or final negotiation of the terms of the Contract, Owner may not require Contractor to retain any Subcontractor or Supplier to furnish or perform any of the Work against which Contractor has reasonable objection.

D. Prior to entry into any binding subcontract or purchase order, Contractor shall submit to Owner the identity of the proposed Subcontractor or Supplier (unless Owner has already deemed such proposed Subcontractor or Supplier acceptable during the bidding process or otherwise). Such proposed Subcontractor or Supplier shall be deemed acceptable to Owner unless Owner raises a substantive, reasonable objection within 5 days.

E. Owner may require the replacement of any Subcontractor or Supplier. Owner also may require Contractor to retain specific replacements; provided, however, that Owner may not require a replacement to which Contractor has a reasonable objection. If Contractor has submitted the identity of certain Subcontractors or Suppliers for acceptance by Owner, and Owner has accepted it (either in writing or by failing to make written objection thereto), then Owner may subsequently revoke the acceptance of any such Subcontractor or Supplier so identified solely on the basis of substantive, reasonable objection after due investigation. Contractor shall submit an acceptable replacement for the rejected Subcontractor or Supplier.

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F. If Owner requires the replacement of any Subcontractor or Supplier retained by Contractor to perform any part of the Work, then Contractor shall be entitled to an adjustment in Contract Price or Contract Times, with respect to the replacement; and Contractor shall initiate a Change Proposal for such adjustment within 30 days of Owner's requirement of replacement.

G. No acceptance by Owner of any such Subcontractor or Supplier, whether initially or as a replacement, will constitute a waiver of the right of Owner to the completion of the Work in accordance with the Contract Documents.

H. On a monthly basis, Contractor shall submit to Engineer a complete list of all Subcontractors and Suppliers having a direct contract with Contractor, and of all other Subcontractors and Suppliers known to Contractor at the time of submittal.

I. Contractor shall be solely responsible for scheduling and coordinating the work of Subcontractors and Suppliers.

J. The divisions and sections of the Specifications and the identifications of any Drawings do not control Contractor in dividing the Work among Subcontractors or Suppliers, or in delineating the Work to be performed by any specific trade.

K. All Work performed for Contractor by a Subcontractor or Supplier must be pursuant to an appropriate contractual agreement that specifically binds the Subcontractor or Supplier to the applicable terms and conditions of the Contract for the benefit of Owner and Engineer.

L. Owner may furnish to any Subcontractor or Supplier, to the extent practicable, information about amounts paid to Contractor for Work performed for Contractor by the Subcontractor or Supplier.

M. Contractor shall restrict all Subcontractors and Suppliers from communicating with Engineer or Owner, except through Contractor or in case of an emergency, or as otherwise expressly allowed in this Contract.

N. Contractor shall not subcontract part(s) of the Work, the aggregate cost of which is greater than fifty (50) percent of the contract price, without prior written approval by Owner. Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the Work that bind Subcontractors to Contractor by the terms of the Contract Documents insofar as applicable to the work of Subcontractors and to give Contractor the same power as regards terminating any subcontract that Owner may exercise over Contractor under any provision of the Contract Documents. Nothing contained in the subcontract shall create any contractual relationship between Subcontractor and Owner. Each Subcontractor shall discharge all duties and responsibilities of Contractor to Owner covered by his subcontract.

7.08 Patent Fees and Royalties

A. Contractor shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others. If an invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the Work and if, to the actual knowledge of Owner or Engineer, its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights will be disclosed in the Contract Documents.

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B. To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, and its officers, directors, members, partners, employees, agents, consultants, and subcontractors, from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device specified in the Contract Documents, but not identified as being subject to payment of any license fee or royalty to others required by patent rights or copyrights.

C. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device not specified in the Contract Documents.

7.09 Permits

A. Unless otherwise provided in the Contract Documents, Contractor shall obtain and pay for all construction permits, licenses, and certificates of occupancy. Owner shall assist Contractor, when necessary, in obtaining such permits and licenses. Contractor shall pay all governmental charges and inspection fees necessary for the prosecution of the Work which are applicable at the time of the submission of Contractor's Bid (or when Contractor became bound under a negotiated contract). Owner shall pay all charges of utility owners for connections for providing permanent service to the Work. Easements for permanent structures or permanent changes in existing facilities shall be secured and paid for by Owner, unless otherwise specified.

7.10 Taxes

A. Contractor shall pay all sales, consumer, use, and other similar taxes required to be paid by Contractor in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the Work.

7.11 Laws and Regulations

A. Contractor shall give all notices required by and shall comply with all Laws and Regulations applicable to the performance of the Work. Neither Owner nor Engineer shall be responsible for monitoring Contractor's compliance with any Laws or Regulations. Contractor shall also cause all Subcontractors to comply with all federal, state, county, and municipal laws, ordinances, rules, and regulations bearing on the conduct of Work.

B. If Contractor performs any Work or takes any other action knowing or having reason to know that it is contrary to Laws or Regulations, Contractor shall bear all resulting costs and losses, and shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, from and against all claims, costs, losses, and damages (including but not limited to all

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fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such Work or other action. It is not Contractor's responsibility to make certain that the Work described in the Contract Documents is in accordance with Laws and Regulations, but this does not relieve Contractor of its obligations under Paragraph 3.03. If Contractor observes that the Contract Documents are at variance with said laws, ordinances, rates, or regulations, Contractor shall promptly notify Engineer of Record and the County in writing, and any necessary changes shall be adjusted as provided in the Contract Documents. Contractor shall not proceed with the Work until so instructed by Owner.

C. Owner or Contractor may give written notice to the other party of any changes after the submission of Contractor's Bid (or after the date when Contractor became bound under a negotiated contract) in Laws or Regulations having an effect on the cost or time of performance of the Work, including but not limited to changes in Laws or Regulations having an effect on procuring permits and on sales, use, value-added, consumption, and other similar taxes. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times resulting from such changes, then within 30 days of such written notice Contractor may submit a Change Proposal, or Owner may initiate a Claim.

7.12 Record Documents

A. Contractor shall maintain in a safe place at the Site one printed record copy of all Drawings, Specifications, Addenda, Change Orders, Work Change Directives, Field Orders, written interpretations and clarifications, and approved Shop Drawings. Contractor shall keep such record documents in good order and annotate them to show changes made during construction. These record documents, together with all approved Samples, will be available to Engineer for reference. Upon completion of the Work, Contractor shall deliver these record documents to Engineer. Annotations of record documents shall be legible, precise, and complete as determined by Engineer of Record and the County.

7.13 Safety and Protection

A. Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work. Such responsibility does not relieve Subcontractors of their responsibility for the safety of persons or property in the performance of their work, nor for compliance with applicable safety Laws and Regulations.

B. Contractor shall designate a qualified and experienced safety representative whose duties and responsibilities are the prevention of Work-related accidents and the maintenance and supervision of safety precautions and programs.

C. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury, or loss to:

1. all persons on the Site or who may be affected by the Work;
2. all the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and
3. other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, other work in progress, utilities, and Underground

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Facilities not designated for removal, relocation, or replacement in the course of construction.

D. All damage, injury, or loss to any property referred to in Paragraph 7.13.C.2 or 7.13.C.3 caused, directly or indirectly, in whole or in part, by Contractor, any Subcontractor, Supplier, or any other individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, shall be remedied by Contractor at its expense (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of Owner or Engineer or anyone employed by any of them, or anyone for whose acts any of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of Contractor or any Subcontractor, Supplier, or other individual or entity directly or indirectly employed by any of them).

E. Contractor shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection.

F. Contractor shall notify Owner; the owners of adjacent property; the owners of Underground Facilities and other utilities (if the identity of such owners is known to Contractor); and other contractors and utility owners performing work at or adjacent to the Site, in writing, when Contractor knows that prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property or work in progress.

G. Contractor shall comply with the applicable requirements of Owner's safety programs, if any. Any Owner's safety programs that are applicable to the Work are identified or included in the Supplementary Conditions or Specifications.

H. Contractor shall inform Owner and Engineer of the specific requirements of Contractor's safety program with which Owner's and Engineer's employees and representatives must comply while at the Site.

I. Contractor's duties and responsibilities for safety and protection will continue until all the Work is completed, Engineer has issued a written notice to Owner and Contractor in accordance with Paragraph 15.06.C that the Work is acceptable, and Contractor has left the Site (except as otherwise expressly provided in connection with Substantial Completion).

J. Contractor's duties and responsibilities for safety and protection will resume whenever Contractor or any Subcontractor or Supplier returns to the Site to fulfill warranty or correction obligations, or to conduct other tasks arising from the Contract Documents.

K. Contractor shall be responsible at all times for precautions to achieve the protection of all persons, including employees and property. Contractor shall make special effort to detect hazardous conditions and shall take prompt action where necessary to avoid accident, injury, or property damage. OSHA and all other applicable safety laws and ordinances shall be followed as well as American National Standards Institute Safety Standards. All accidents, injuries, claims, or potential claims shall be reported promptly to Owner.

7.14 Hazard Communication Programs

A. Contractor shall be responsible for coordinating any exchange of safety data sheets (formerly known as material safety data sheets) or other hazard communication information required

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to be made available to or exchanged between or among employers at the Site in accordance with Laws or Regulations.

7.15 Emergencies

A. In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, Contractor is obligated to act to prevent damage, injury, or loss. Contractor shall give Engineer prompt written notice if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused by an emergency, or are required as a result of Contractor's response to an emergency. If Engineer determines that a change in the Contract Documents is required because of an emergency or Contractor's response, a Work Change Directive or Change Order will be issued.

7.16 Submittals

A. Shop Drawing and Sample Requirements

1. Before submitting a Shop Drawing or Sample, Contractor shall:

    a. review and coordinate the Shop Drawing or Sample with other Shop Drawings and Samples and with the requirements of the Work and the Contract Documents;

    b. determine and verify:

        1) all field measurements, quantities, dimensions, specified performance and design criteria, installation requirements, materials, catalog numbers, and similar information with respect to the Submittal;

        2) the suitability of all materials and equipment offered with respect to the indicated application, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work; and

        3) all information relative to Contractor's responsibilities for means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incident thereto;

    c. confirm that the Submittal is complete with respect to all related data included in the Submittal.

2. Each Shop Drawing or Sample must bear a stamp or specific written certification that Contractor has satisfied Contractor's obligations under the Contract Documents with respect to Contractor's review of that Submittal, and that Contractor approves the Submittal.

3. With each Shop Drawing or Sample, Contractor shall give Engineer specific written notice of any variations that the Submittal may have from the requirements of the Contract Documents. This notice must be set forth in a written communication separate from the Submittal; and, in addition, in the case of a Shop Drawing by a specific notation made on the Shop Drawing itself.

B. *Submittal Procedures for Shop Drawings and Samples*: Contractor shall label and submit Shop Drawings and Samples to Engineer for review and approval in accordance with the accepted Schedule of Submittals.

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1. *Shop Drawings*

    a. Contractor shall submit the number of copies required in the Specifications.

    b. Data shown on the Shop Drawings must be complete with respect to quantities, dimensions, specified performance and design criteria, materials, and similar data to show Engineer the services, materials, and equipment Contractor proposes to provide, and to enable Engineer to review the information for the limited purposes required by Paragraph 7.16.C.

2. *Samples*

    a. Contractor shall submit the number of Samples required in the Specifications.

    b. Contractor shall clearly identify each Sample as to material, Supplier, pertinent data such as catalog numbers, the use for which intended and other data as Engineer may require to enable Engineer to review the Submittal for the limited purposes required by Paragraph 7.16.C.

3. Where a Shop Drawing or Sample is required by the Contract Documents or the Schedule of Submittals, any related Work performed prior to Engineer's review and approval of the pertinent submittal will be at the sole expense and responsibility of Contractor.

C. *Engineer's Review of Shop Drawings and Samples*

1. Engineer will provide timely review of Shop Drawings and Samples in accordance with the accepted Schedule of Submittals. Engineer's review and approval will be only to determine if the items covered by the Submittals will, after installation or incorporation in the Work, comply with the requirements of the Contract Documents, and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents.

2. Engineer's review and approval will not extend to means, methods, techniques, sequences, or procedures of construction, or to safety precautions or programs incident thereto.

3. Engineer's review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.

4. Engineer's review and approval of a Shop Drawing or Sample will not relieve Contractor from responsibility for any variation from the requirements of the Contract Documents unless Contractor has complied with the requirements of Paragraph 7.16.A.3 and Engineer has given written approval of each such variation by specific written notation thereof incorporated in or accompanying the Shop Drawing or Sample. Engineer will document any such approved variation from the requirements of the Contract Documents in a Field Order or other appropriate Contract modification.

5. Engineer's review and approval of a Shop Drawing or Sample will not relieve Contractor from responsibility for complying with the requirements of Paragraphs 7.16.A and B.

6. Engineer's review and approval of a Shop Drawing or Sample, or of a variation from the requirements of the Contract Documents, will not, under any circumstances, change the Contract Times or Contract Price, unless such changes are included in a Change Order.

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7. Neither Engineer's receipt, review, acceptance, or approval of a Shop Drawing or Sample will result in such item becoming a Contract Document.

8. Contractor shall perform the Work in compliance with the requirements and commitments set forth in approved Shop Drawings and Samples, subject to the provisions of Paragraph 7.16.C.4.

D. Resubmittal Procedures for Shop Drawings and Samples

1. Contractor shall make corrections required by Engineer and shall return the required number of corrected copies of Shop Drawings and submit, as required, new Samples for review and approval. Contractor shall direct specific attention in writing to revisions other than the corrections called for by Engineer on previous Submittals.

2. Contractor shall furnish required Shop Drawing and Sample submittals with sufficient information and accuracy to obtain required approval of an item with no more than two resubmittals. Engineer will record Engineer's time for reviewing a third or subsequent resubmittal of a Shop Drawing or Sample, and Contractor shall be responsible for Engineer's charges to Owner for such time. Owner may impose a set-off against payments due Contractor to secure reimbursement for such charges.

3. If Contractor requests a change of a previously approved Shop Drawing or Sample, Contractor shall be responsible for Engineer's charges to Owner for its review time, and Owner may impose a set-off against payments due Contractor to secure reimbursement for such charges, unless the need for such change is beyond the control of Contractor.

E. Submittals Other than Shop Drawings, Samples, and Owner-Delegated Designs

1. The following provisions apply to all Submittals other than Shop Drawings, Samples, and Owner-delegated designs:

   a. Contractor shall submit all such Submittals to the Engineer in accordance with the Schedule of Submittals and pursuant to the applicable terms of the Contract Documents.

   b. Engineer will provide timely review of all such Submittals in accordance with the Schedule of Submittals and return such Submittals with a notation of either Accepted or Not Accepted. Any such Submittal that is not returned within the time established in the Schedule of Submittals will be deemed accepted.

   c. Engineer's review will be only to determine if the Submittal is acceptable under the requirements of the Contract Documents as to general form and content of the Submittal.

   d. If any such Submittal is not accepted, Contractor shall confer with Engineer regarding the reason for the non-acceptance, and resubmit an acceptable document.

2. Procedures for the submittal and acceptance of the Progress Schedule, the Schedule of Submittals, and the Schedule of Values are set forth in Paragraphs 2.03. 2.04, and2.05.

F. Owner-delegated Designs: Submittals pursuant to Owner-delegated designs are governed by the provisions of Paragraph 7.19.

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7.17 Contractor's General Warranty and Guarantee

A. Contractor warrants and guarantees to Owner that all Work will be in accordance with the Contract Documents and will not be defective. Engineer is entitled to rely on Contractor's warranty and guarantee.

B. Owner's rights under this warranty and guarantee are in addition to, and are not limited by, Owner's rights under the correction period provisions of Paragraph 15.08. The time in which Owner may enforce its warranty and guarantee rights under this Paragraph 7.17 is limited only by applicable Laws and Regulations restricting actions to enforce such rights; provided, however, that after the end of the correction period under Paragraph15.08:

1. Owner shall give Contractor written notice of any defective Work within 60 days of the discovery that such Work is defective; and

2. Such notice will be deemed the start of an event giving rise to a Claim under Paragraph 12.01.B, such that any related Claim must be brought within 30 days of the notice.

C. Contractor's warranty and guarantee hereunder excludes defects or damage caused by:

1. abuse, or improper modification, maintenance, or operation, by persons other than Contractor, Subcontractors, Suppliers, or any other individual or entity for whom Contractor is responsible; or

2. normal wear and tear under normal usage.

D. Contractor's obligation to perform and complete the Work in accordance with the Contract Documents is absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents, a release of Contractor's obligation to perform the Work in accordance with the Contract Documents, or a release of Owner's warranty and guarantee rights under this Paragraph 7.17:

1. Observations by Engineer;

2. Recommendation by Engineer or payment by Owner of any progress or final payment;

3. The issuance of a certificate of Substantial Completion by Engineer or any payment related thereto by Owner;

4. Use or occupancy of the Work or any part thereof by Owner;

5. Any review and approval of a Shop Drawing or Sample submittal;

6. The issuance of a notice of acceptability by Engineer;

7. The end of the correction period established in Paragraph 15.08;

8. Any inspection, test, or approval by others; or

9. Any correction of defective Work by Owner.

E. If the Contract requires the Contractor to accept the assignment of a contract entered into by Owner, then the specific warranties, guarantees, and correction obligations contained in the assigned contract will govern with respect to Contractor's performance obligations to Owner for the Work described in the assigned contract.

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7.18 Indemnification

A. To the fullest extent permitted by Laws and Regulations, and in addition to any other obligations of Contractor under the Contract or otherwise, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, from losses, damages, costs, and judgments (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court or arbitration or other dispute resolution costs) arising from third-party claims or actions relating to or resulting from the performance or furnishing of the Work, provided that any such claim, action, loss, cost, judgment or damage is attributable to bodily injury, sickness, disease, or death, or to damage to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom, but only to the extent caused by any negligent act or omission of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable.

B. In any and all claims against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, by any employee (or the survivor or personal representative of such employee) of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation under Paragraph 7.18.A will not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for Contractor or any such Subcontractor, Supplier, or other individual or entity under workers' compensation acts, disability benefit acts, or other employee benefit acts.

C. The indemnification obligations of Contractor under Paragraph 7.18 shall not extend to the liability of Engineer and Engineer's officers, directors, members, partners, employees, agents, consultants and subcontractors arising out of:

1. the preparation or approval of, or the failure to prepare or approve maps, Drawings, opinions, reports, surveys, Change Orders, designs, or Specifications; or

2. giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage.

D. Neither Contractor nor Owner shall sell, transfer, assign, or otherwise dispose of the contract or any portion thereof, or any right, title, or interest therein, or any obligations thereunder, without written consent of the other party.

7.19 Delegation of Professional Design Services

A. Owner may require Contractor to provide professional design services for a portion of the Work by express delegation in the Contract Documents. Such delegation will specify the performance and design criteria that such services must satisfy, and the Submittals that Contractor must furnish to Engineer with respect to the Owner-delegated design.

B. Contractor shall cause such Owner-delegated professional design services to be provided pursuant to the professional standard of care by a properly licensed design professional, whose signature and seal must appear on all drawings, calculations, specifications,

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certifications, and Submittals prepared by such design professional. Such design professional must issue all certifications of design required by Laws and Regulations.

C. If a Shop Drawing or other Submittal related to the Owner-delegated design is prepared by Contractor, a Subcontractor, or others for submittal to Engineer, then such Shop Drawing or other Submittal must bear the written approval of Contractor's design professional when submitted by Contractor to Engineer.

D. Owner and Engineer shall be entitled to rely upon the adequacy, accuracy, and completeness of the services, certifications, and approvals performed or provided by the design professionals retained or employed by Contractor under an Owner-delegated design, subject to the professional standard of care and the performance and design criteria stated in the Contract Documents.

E. Pursuant to this Paragraph 7.19, Engineer's review, approval, and other determinations regarding design drawings, calculations, specifications, certifications, and other Submittals furnished by Contractor pursuant to an Owner-delegated design will be only for the following limited purposes:

1. Checking for conformance with the requirements of this Paragraph 7.19;
2. Confirming that Contractor (through its design professionals) has used the performance and design criteria specified in the Contract Documents; and
3. Establishing that the design furnished by Contractor is consistent with the design concept expressed in the Contract Documents.

F. Contractor shall not be responsible for the adequacy of performance or design criteria specified by Owner or Engineer.

G. Contractor is not required to provide professional services in violation of applicable Laws and Regulations.

ARTICLE 8—OTHER WORK AT THE SITE

8.01 Other Work

A. In addition to and apart from the Work under the Contract Documents, the Owner may perform other work at or adjacent to the Site. Such other work may be performed by Owner's employees, or through contracts between the Owner and third parties. Owner may also arrange to have third-party utility owners perform work on their utilities and facilities at or adjacent to the Site.

B. If Owner performs other work at or adjacent to the Site with Owner's employees, or through contracts for such other work, then Owner shall give Contractor written notice thereof prior to starting any such other work. If Owner has advance information regarding the start of any third-party utility work that Owner has arranged to take place at or adjacent to the Site, Owner shall provide such information to Contractor.

C. Contractor shall afford proper and safe access to the Site to each contractor that performs such other work, each utility owner performing other work, and Owner, if Owner is performing other work with Owner's employees, and provide a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work.

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D. Contractor shall do all cutting, fitting, and patching of the Work that may be required to properly connect or otherwise make its several parts come together and properly integrate with such other work. Contractor shall not endanger any work of others by cutting, excavating, or otherwise altering such work; provided, however, that Contractor may cut or alter others' work with the written consent of Engineer and the others whose work will be affected.

E. If the proper execution or results of any part of Contractor's Work depends upon work performed by others, Contractor shall inspect such other work and promptly report to Engineer in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for the proper execution and results of Contractor's Work. Contractor's failure to so report will constitute an acceptance of such other work as fit and proper for integration with Contractor's Work except for latent defects and deficiencies in such other work.

F. The provisions of this article are not applicable to work that is performed by third-party utilities or other third-party entities without a contract with Owner, or that is performed without having been arranged by Owner. If such work occurs, then any related delay, disruption, or interference incurred by Contractor is governed by the provisions of Paragraph 4.05.C.3.

8.02 Coordination

A. If Owner intends to contract with others for the performance of other work at or adjacent to the Site, to perform other work at or adjacent to the Site with Owner's employees, or to arrange to have utility owners perform work at or adjacent to the Site, the following will be set forth in the Supplementary Conditions or provided to Contractor prior to the start of any such other work:

1. The identity of the individual or entity that will have authority and responsibility for coordination of the activities among the various contractors;

2. An itemization of the specific matters to be covered by such authority and responsibility; and

3. The extent of such authority and responsibilities.

B. Unless otherwise provided in the Supplementary Conditions, Owner shall have sole authority and responsibility for such coordination.

8.03 Legal Relationships

A. If, in the course of performing other work for Owner at or adjacent to the Site, the Owner's employees, any other contractor working for Owner, or any utility owner that Owner has arranged to perform work, causes damage to the Work or to the property of Contractor or its Subcontractors, or delays, disrupts, interferes with, or increases the scope or cost of the performance of the Work, through actions or inaction, then Contractor shall be entitled to an equitable adjustment in the Contract Price or the Contract Times. Contractor must submit any Change Proposal seeking an equitable adjustment in the Contract Price or the Contract Times under this paragraph within 30 days of the damaging, delaying, disrupting, or interfering event. The entitlement to, and extent of, any such equitable adjustment will take into account information (if any) regarding such other work that was provided to Contractor in the Contract Documents prior to the submittal of the Bid or the final negotiation of the terms of the

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Contract, and any remedies available to Contractor under Laws or Regulations concerning utility action or inaction. When applicable, any such equitable adjustment in Contract Price will be conditioned on Contractor assigning to Owner all Contractor's rights against such other contractor or utility owner with respect to the damage, delay, disruption, or interference that is the subject of the adjustment. Contractor's entitlement to an adjustment of the Contract Times or Contract Price is subject to the provisions of Paragraphs 4.05.D and4.05.E.

B. Contractor shall take reasonable and customary measures to avoid damaging, delaying, disrupting, or interfering with the work of Owner, any other contractor, or any utility owner performing other work at or adjacent to the Site.

1. If Contractor fails to take such measures and as a result damages, delays, disrupts, or interferes with the work of any such other contractor or utility owner, then Owner may impose a set-off against payments due Contractor, and assign to such other contractor or utility owner the Owner's contractual rights against Contractor with respect to the breach of the obligations set forth in this Paragraph 8.03.B.

2. When Owner is performing other work at or adjacent to the Site with Owner's employees, Contractor shall be liable to Owner for damage to such other work, and for the reasonable direct delay, disruption, and interference costs incurred by Owner as a result of Contractor's failure to take reasonable and customary measures with respect to Owner's other work. In response to such damage, delay, disruption, or interference, Owner may impose a set-off against payments due Contractor.

C. If Contractor damages, delays, disrupts, or interferes with the work of any other contractor, or any utility owner performing other work at or adjacent to the Site, through Contractor's failure to take reasonable and customary measures to avoid such impacts, or if any claim arising out of Contractor's actions, inactions, or negligence in performance of the Work at or adjacent to the Site is made by any such other contractor or utility owner against Contractor, Owner, or Engineer, then Contractor shall (1) promptly attempt to settle the claim as to all parties through negotiations with such other contractor or utility owner, or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law, and (2) indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against any such claims, and against all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such damage, delay, disruption, or interference.

ARTICLE 9—OWNER'S RESPONSIBILITIES

9.01 Communications to Contractor

A. Except as otherwise provided in these General Conditions, Owner shall issue all communications to Contractor through Engineer.

9.02 Replacement of Engineer

A. Owner may at its discretion appoint an engineer to replace Engineer~~, provided Contractor makes no reasonable objection to the replacement engineer~~. The replacement engineer's status under the Contract Documents will be that of the former Engineer.

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9.03 Furnish Data

A. Owner shall promptly furnish the data required of Owner under the Contract Documents.

9.04 Pay When Due

A. Owner shall make payments to Contractor when they are due as provided in the Agreement.

9.05 Lands and Easements; Reports, Tests, and Drawings

A. Owner's duties with respect to providing lands and easements are set forth in Paragraph 5.01.

B. Owner's duties with respect to providing engineering surveys to establish reference points are set forth in Paragraph 4.03.

C. Article 5 refers to Owner's identifying and making available to Contractor copies of reports of explorations and tests of conditions at the Site, and drawings of physical conditions relating to existing surface or subsurface structures at the Site.

9.06 Insurance

A. Owner's responsibilities, if any, with respect to purchasing and maintaining liability and property insurance are set forth in Article 6.

9.07 Change Orders

A. Owner's responsibilities with respect to Change Orders are set forth in Article 11.

9.08 Inspections, Tests, and Approvals

A. Owner's responsibility with respect to certain inspections, tests, and approvals is set forth in Paragraph 14.02.B.

9.09 Limitations on Owner's Responsibilities

A. The Owner shall not supervise, direct, or have control or authority over, nor be responsible for, Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Owner will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.

9.10 Undisclosed Hazardous Environmental Condition

A. Owner's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in Paragraph 5.06.

9.11 Evidence of Financial Arrangements

A. Upon request of Contractor, Owner shall furnish Contractor reasonable evidence that financial arrangements have been made to satisfy Owner's obligations under the Contract (including obligations under proposed changes in the Work).

9.12 Safety Programs

A. While at the Site, Owner's employees and representatives shall comply with the specific applicable requirements of Contractor's safety programs of which Owner has been informed.

B. Owner shall furnish copies of any applicable Owner safety programs to Contractor.

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ARTICLE 10—ENGINEER'S STATUS DURING CONSTRUCTION

10.01 Owner's Representative

A. Engineer will be Owner's representative during the construction period. The duties and responsibilities and the limitations of authority of Engineer as Owner's representative during construction are set forth in the Contract.

10.02 Visits to Site

A. Engineer will make visits to the Site at intervals appropriate to the various stages of construction as Engineer deems necessary in order to observe, as an experienced and qualified design professional, the progress that has been made and the quality of the various aspects of Contractor's executed Work. Based on information obtained during such visits and observations, Engineer, for the benefit of Owner, will determine, in general, if the Work is proceeding in accordance with the Contract Documents. Engineer will not be required to make exhaustive or continuous inspections on the Site to check the quality or quantity of the Work. Engineer's efforts will be directed toward providing for Owner a greater degree of confidence that the completed Work will conform generally to the Contract Documents. On the basis of such visits and observations, Engineer will keep Owner informed of the progress of the Work and will endeavor to guard Owner against defective Work.

B. Engineer's visits and observations are subject to all the limitations on Engineer's authority and responsibility set forth in Paragraph 10.07. Particularly, but without limitation, during or as a result of Engineer's visits or observations of Contractor's Work, Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work.

10.03 Resident Project Representative

A. If Owner and Engineer have agreed that Engineer will furnish a Resident Project Representative to represent Engineer at the Site and assist Engineer in observing the progress and quality of the Work, then the authority and responsibilities of any such Resident Project Representative will be as provided in the Supplementary Conditions, and limitations on the responsibilities thereof will be as provided in the Supplementary Conditions and in Paragraph 10.07.

B. If Owner designates an individual or entity who is not Engineer's consultant, agent, or employee to represent Owner at the Site, then the responsibilities and authority of such individual or entity will be as provided in the Supplementary Conditions.

10.04 Engineer's Authority

A. Engineer has the authority to reject Work in accordance with Article 14.

B. Engineer's authority as to Submittals is set forth in Paragraph 7.16.

C. Engineer's authority as to design drawings, calculations, specifications, certifications and other Submittals from Contractor in response to Owner's delegation (if any) to Contractor of professional design services, is set forth in Paragraph 7.19.

D. Engineer's authority as to changes in the Work is set forth in Article 11.

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E. Engineer's authority as to Applications for Payment is set forth in Article 15.

10.05 Determinations for Unit Price Work

A. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor as set forth in Paragraph 13.03.

10.06 Decisions on Requirements of Contract Documents and Acceptability of Work

A. Engineer will render decisions regarding the requirements of the Contract Documents, and judge the acceptability of the Work, pursuant to the specific procedures set forth herein for initial interpretations, Change Proposals, and acceptance of the Work. In rendering such decisions and judgments, Engineer will not show partiality to Owner or Contractor, and will not be liable to Owner, Contractor, or others in connection with any proceedings, interpretations, decisions, or judgments conducted or rendered in good faith.

10.07 Limitations on Engineer's Authority and Responsibilities

A. Neither Engineer's authority or responsibility under this Article 10 or under any other provision of the Contract, nor any decision made by Engineer in good faith either to exercise or not exercise such authority or responsibility or the undertaking, exercise, or performance of any authority or responsibility by Engineer, will create, impose, or give rise to any duty in contract, tort, or otherwise owed by Engineer to Contractor, any Subcontractor, any Supplier, any other individual or entity, or to any surety for or employee or agent of any of them.

B. Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Engineer will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.

C. Engineer will not be responsible for the acts or omissions of Contractor or of any Subcontractor, any Supplier, or of any other individual or entity performing any of the Work.

D. Engineer's review of the final Application for Payment and accompanying documentation, and all maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, tests and approvals, and other documentation required to be delivered by Contractor under Paragraph 15.06.A, will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspections, tests, and approvals, that the results certified indicate compliance with the Contract Documents.

E. The limitations upon authority and responsibility set forth in this Paragraph 10.07 also apply to the Resident Project Representative, if any.

10.08 Compliance with Safety Program

A. While at the Site, Engineer's employees and representatives will comply with the specific applicable requirements of Owner's and Contractor's safety programs of which Engineer has been informed.

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ARTICLE 11—CHANGES TO THE CONTRACT

11.01 Amending and Supplementing the Contract

A. The Contract may be amended or supplemented by a Change Order, a Work Change Directive, or a Field Order.

B. If an amendment or supplement to the Contract includes a change in the Contract Price or the Contract Times, such amendment or supplement must be set forth in a Change Order.

C. All changes to the Contract that involve (1) the performance or acceptability of the Work, (1) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, must be supported by Engineer's recommendation. Owner and Contractor may amend other terms and conditions of the Contract without the recommendation of the Engineer.

11.02 Change Orders

A. Owner and Contractor shall execute appropriate Change Orders covering:

1. Changes in Contract Price or Contract Times which are agreed to by the parties, including any undisputed sum or amount of time for Work actually performed in accordance with a Work Change Directive;

2. Changes in Contract Price resulting from an Owner set-off, unless Contractor has duly contested such set-off;

3. Changes in the Work which are: (a) ordered by Owner pursuant to Paragraph 11.05, (b) required because of Owner's acceptance of defective Work under Paragraph 14.04 or Owner's correction of defective Work under Paragraph 14.07, or (c) agreed to by the parties, subject to the need for Engineer's recommendation if the change in the Work involves the design (as set forth in the Drawings, Specifications, or otherwise) or other engineering or technical matters; and

4. Changes that embody the substance of any final and binding results under: Paragraph 11.03.B, resolving the impact of a Work Change Directive; Paragraph 11.09, concerning Change Proposals; Article 12, Claims; Paragraph 13.02.D, final adjustments resulting from allowances; Paragraph 13.03.D, final adjustments relating to determination of quantities for Unit Price Work; and similar provisions.

B. If Owner or Contractor refuses to execute a Change Order that is required to be executed under the terms of Paragraph 11.02.A, it will be deemed to be of full force and effect, as if fully executed.

11.03 Work Change Directives

A. A Work Change Directive will not change the Contract Price or the Contract Times but is evidence that the parties expect that the modification ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order, following negotiations by the parties as to the Work Change Directive's effect, if any, on the Contract Price and Contract Times; or, if negotiations are unsuccessful, by a determination under the terms of the Contract Documents governing adjustments, expressly including Paragraph 11.07 regarding change of Contract Price.

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B. If Owner has issued a Work Change Directive and:

1. Contractor believes that an adjustment in Contract Times or Contract Price is necessary, then Contractor shall submit any Change Proposal seeking such an adjustment no later than 30 days after the completion of the Work set out in the Work Change Directive.

2. Owner believes that an adjustment in Contract Times or Contract Price is necessary, then Owner shall submit any Claim seeking such an adjustment no later than 60 days after issuance of the Work Change Directive.

11.04 Field Orders

A. Engineer may authorize minor changes in the Work if the changes do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. Such changes will be accomplished by a Field Order and will be binding on Owner and also on Contractor, which shall perform the Work involved promptly.

B. If Contractor believes that a Field Order justifies an adjustment in the Contract Price or Contract Times, then before proceeding with the Work at issue, Contractor shall submit a Change Proposal as provided herein.

11.05 Owner-Authorized Changes in the Work

A. Without invalidating the Contract and without notice to any surety, Owner may, at any time or from time to time, order additions, deletions, or revisions in the Work. Changes involving the design (as set forth in the Drawings, Specifications, or otherwise) or other engineering or technical matters will be supported by Engineer's recommendation.

B. Such changes in the Work may be accomplished by a Change Order, if Owner and Contractor have agreed as to the effect, if any, of the changes on Contract Times or Contract Price; or by a Work Change Directive. Upon receipt of any such document, Contractor shall promptly proceed with the Work involved; or, in the case of a deletion in the Work, promptly cease construction activities with respect to such deleted Work. Added or revised Work must be performed under the applicable conditions of the Contract Documents.

C. Nothing in this Paragraph 11.05 obligates Contractor to undertake work that Contractor reasonably concludes cannot be performed in a manner consistent with Contractor's safety obligations under the Contract Documents or Laws and Regulations.

11.06 Unauthorized Changes in the Work

A. Contractor shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any work performed that is not required by the Contract Documents, as amended, modified, or supplemented, except in the case of an emergency as provided in Paragraph 7.15 or in the case of uncovering Work as provided in Paragraph 14.05.C.2.

11.07 Change of Contract Price

A. The Contract Price may only be changed by a Change Order. Any Change Proposal for an adjustment in the Contract Price must comply with the provisions of Paragraph 11.09. Any Claim for an adjustment of Contract Price must comply with the provisions of Article 12.

B. An adjustment in the Contract Price will be determined as follows:

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1. Where the Work involved is covered by unit prices contained in the Contract Documents, then by application of such unit prices to the quantities of the items involved (subject to the provisions of Paragraph 13.03);
2. Where the Work involved is not covered by unit prices contained in the Contract Documents, then by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with Paragraph 11.07.C.2);or
3. Where the Work involved is not covered by unit prices contained in the Contract Documents and the parties do not reach mutual agreement to a lump sum, then on the basis of the Cost of the Work (determined as provided in Paragraph 13.01) plus a Contractor's fee for overhead and profit (determined as provided in Paragraph11.07.C).

C. *Contractor's Fee*: When applicable, the Contractor's fee for overhead and profit will be determined as follows:

1. A mutually acceptable fixed fee; or
2. If a fixed fee is not agreed upon, then a fee based on the following percentages of the various portions of the Cost of the Work:
    a. For costs incurred under Paragraphs 13.01.B.1 and 13.01.B.2, the Contractor's fee will be 15 percent;
    b. For costs incurred under Paragraph 13.01.B.3, the Contractor's fee will be 5percent;
    c. Where one or more tiers of subcontracts are on the basis of Cost of the Work plus a fee and no fixed fee is agreed upon, the intent of Paragraphs 11.07.C.2.a and 11.07.C.2.b is that the Contractor's fee will be based on: (1) a fee of 15 percent of the costs incurred under Paragraphs 13.01.B.1 and 13.01.B.2 by the Subcontractor that actually performs the Work, at whatever tier, and (2) with respect to Contractor itself and to any Subcontractors of a tier higher than that of the Subcontractor that actually performs the Work, a fee of 5 percent of the amount (fee plus underlying costs incurred) attributable to the next lower tier Subcontractor; provided, however, that for any such subcontracted Work the maximum total fee to be paid by Owner will be no greater than 27 percent of the costs incurred by the Subcontractor that actually performs the Work;
    d. No fee will be payable on the basis of costs itemized under Paragraphs 13.01.B.4, 13.01.B.5, and 13.01.C;
    e. The amount of credit to be allowed by Contractor to Owner for any change which results in a net decrease in Cost of the Work will be the amount of the actual net decrease in Cost of the Work and a deduction of an additional amount equal to 5 percent of such actual net decrease in Cost of the Work; and
    f. When both additions and credits are involved in any one change or Change Proposal, the adjustment in Contractor's fee will be computed by determining the sum of the costs in each of the cost categories in Paragraph 13.01.B (specifically, payroll costs, Paragraph 13.01.B.1; incorporated materials and equipment costs, Paragraph 13.01.B.2; Subcontract costs, Paragraph 13.01.B.3; special consultants costs, Paragraph 13.01.B.4; and other costs, Paragraph 13.01.B.5) and applying to each such cost category sum the appropriate fee from Paragraphs 11.07.C.2.a through 11.07.C.2.e, inclusive.

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11.08 Change of Contract Times

A. The Contract Times may only be changed by a Change Order. Any Change Proposal for an adjustment in the Contract Times must comply with the provisions of Paragraph 11.09. Any Claim for an adjustment in the Contract Times must comply with the provisions of Article 12.

B. Delay, disruption, and interference in the Work, and any related changes in Contract Times, are addressed in and governed by Paragraph 4.05.

11.09 Change Proposals

A. *Purpose and Content*: Contractor shall submit a Change Proposal to Engineer to request an adjustment in the Contract Times or Contract Price; contest an initial decision by Engineer concerning the requirements of the Contract Documents or relating to the acceptability of the Work under the Contract Documents; challenge a set-off against payment due; or seek other relief under the Contract. The Change Proposal will specify any proposed change in Contract Times or Contract Price, or other proposed relief, and explain the reason for the proposed change, with citations to any governing or applicable provisions of the Contract Documents. Each Change Proposal will address only one issue, or a set of closely related issues.

B. Change Proposal Procedures

1. *Submittal*: Contractor shall submit each Change Proposal to Engineer within 30 days after the start of the event giving rise thereto, or after such initial decision.

2. *Supporting Data*: The Contractor shall submit supporting data, including the proposed change in Contract Price or Contract Time (if any), to the Engineer and Owner within 15 days after the submittal of the Change Proposal.

    a. Change Proposals based on or related to delay, interruption, or interference must comply with the provisions of Paragraphs 4.05.D and 4.05.E.

    b. Change proposals related to a change of Contract Price must include full and detailed accounts of materials incorporated into the Work and labor and equipment used for the subject Work.

The supporting data must be accompanied by a written statement that the supporting data are accurate and complete, and that any requested time or price adjustment is the entire adjustment to which Contractor believes it is entitled as a result of said event.

3. *Engineer's Initial Review*: Engineer will advise Owner regarding the Change Proposal, and consider any comments or response from Owner regarding the Change Proposal. If in its discretion Engineer concludes that additional supporting data is needed before conducting a full review and making a decision regarding the Change Proposal, then Engineer may request that Contractor submit such additional supporting data by a date specified by Engineer, prior to Engineer beginning its full review of the Change Proposal.

4. *Engineer's Full Review and Action on the Change Proposal*: Upon receipt of Contractor's supporting data (including any additional data requested by Engineer), Engineer will conduct a full review of each Change Proposal and, within 30 days after such receipt of the Contractor's supporting data, either approve the Change Proposal in whole, deny it in whole, or approve it in part and deny it in part. Such actions must be in writing, with a copy provided to Owner and Contractor. If Engineer does not take action on the Change

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Proposal within 30 days, then either Owner or Contractor may at any time thereafter submit a letter to the other party indicating that as a result of Engineer's inaction the Change Proposal is deemed denied, thereby commencing the time for appeal of the denial under Article 12.

5. *Binding Decision*: Engineer's decision is final and binding upon Owner and Contractor, unless Owner or Contractor appeals the decision by filing a Claim under Article12.

C. *Resolution of Certain Change Proposals*: If the Change Proposal does not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters, then Engineer will notify the parties in writing that the Engineer is unable to resolve the Change Proposal. For purposes of further resolution of such a Change Proposal, such notice will be deemed a denial, and Contractor may choose to seek resolution under the terms of Article 12.

D. *Post-Completion*: Contractor shall not submit any Change Proposals after Engineer issues a written recommendation of final payment pursuant to Paragraph 15.06.B.

11.10 Notification to Surety

A. If the provisions of any bond require notice to be given to a surety of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times), the giving of any such notice will be Contractor's responsibility. The amount of each applicable bond will be adjusted to reflect the effect of any such change.

ARTICLE 12—CLAIMS

12.01 Claims

A. *Claims Process*: The following disputes between Owner and Contractor are subject to the Claims process set forth in this article:

1. Appeals by Owner or Contractor of Engineer's decisions regarding Change Proposals;
2. Owner demands for adjustments in the Contract Price or Contract Times, or other relief under the Contract Documents;
3. Disputes that Engineer has been unable to address because they do not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters; and
4. Subject to the waiver provisions of Paragraph 15.07, any dispute arising after Engineer has issued a written recommendation of final payment pursuant to Paragraph15.06.B.

B. *Submittal of Claim*: The party submitting a Claim shall deliver it directly to the other party to the Contract promptly (but in no event later than 30 days) after the start of the event giving rise thereto; in the case of appeals regarding Change Proposals within 30 days of the decision under appeal. The party submitting the Claim shall also furnish a copy to the Engineer, for its information only. The responsibility to substantiate a Claim rests with the party making the Claim. In the case of a Claim by Contractor seeking an increase in the Contract Times or Contract Price, Contractor shall certify that the Claim is made in good faith, that the supporting data are accurate and complete, and that to the best of Contractor's knowledge

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and belief the amount of time or money requested accurately reflects the full amount to which Contractor is entitled.

C. *Review and Resolution*: The party receiving a Claim shall review it thoroughly, giving full consideration to its merits. The two parties shall seek to resolve the Claim through the exchange of information and direct negotiations. The parties may extend the time for resolving the Claim by mutual agreement. All actions taken on a Claim will be stated in writing and submitted to the other party, with a copy to Engineer.

D. Mediation

1. At any time after initiation of a Claim, Owner and Contractor may mutually agree to mediation of the underlying dispute. The agreement to mediate will stay the Claim submittal and response process.

2. If Owner and Contractor agree to mediation, then after 60 days from such agreement, either Owner or Contractor may unilaterally terminate the mediation process, and the Claim submittal and decision process will resume as of the date of the termination. If the mediation proceeds but is unsuccessful in resolving the dispute, the Claim submittal and decision process will resume as of the date of the conclusion of the mediation, as determined by the mediator.

3. Owner and Contractor shall each pay one-half of the mediator's fees and costs.

E. *Partial Approval*: If the party receiving a Claim approves the Claim in part and denies it in part, such action will be final and binding unless within 30 days of such action the other party invokes the procedure set forth in Article 17 for final resolution of disputes.

F. *Denial of Claim*: If efforts to resolve a Claim are not successful, the party receiving the Claim may deny it by giving written notice of denial to the other party. If the receiving party does not take action on the Claim within 90 days, then either Owner or Contractor may at any time thereafter submit a letter to the other party indicating that as a result of the inaction, the Claim is deemed denied, thereby commencing the time for appeal of the denial. A denial of the Claim will be final and binding unless within 30 days of the denial the other party invokes the procedure set forth in Article 17 for the final resolution of disputes.

G. *Final and Binding Results*: If the parties reach a mutual agreement regarding a Claim, whether through approval of the Claim, direct negotiations, mediation, or otherwise; or if a Claim is approved in part and denied in part, or denied in full, and such actions become final and binding; then the results of the agreement or action on the Claim will be incorporated in a Change Order or other written document to the extent they affect the Contract, including the Work, the Contract Times, or the Contract Price.

ARTICLE 13—COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK

13.01 Cost of the Work

A. *Purposes for Determination of Cost of the Work*: The term Cost of the Work means the sum of all costs necessary for the proper performance of the Work at issue, as further defined below. The provisions of this Paragraph 13.01 are used for two distinct purposes:

1. To determine Cost of the Work when Cost of the Work is a component of the Contract Price, under cost-plus-fee, time-and-materials, or other cost-based terms; or

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2. When needed to determine the value of a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price. When the value of any such adjustment is determined on the basis of Cost of the Work, Contractor is entitled only to those additional or incremental costs required because of the change in the Work or because of the event giving rise to the adjustment.

B. *Costs Included*: Except as otherwise may be agreed to in writing by Owner, costs included in the Cost of the Work will be in amounts no higher than those commonly incurred in the locality of the Project, will not include any of the costs itemized in Paragraph 13.01.C, and will include only the following items:

1. Payroll costs for employees in the direct employ of Contractor in the performance of the Work under schedules of job classifications agreed upon by Owner and Contractor in advance of the subject Work. Such employees include, without limitation, superintendents, foremen, safety managers, safety representatives, and other personnel employed full time on the Work. Payroll costs for employees not employed full time on the Work will be apportioned on the basis of their time spent on the Work. Payroll costs include, but are not limited to, salaries and wages plus the cost of fringe benefits, which include social security contributions, unemployment, excise, and payroll taxes, workers' compensation, health and retirement benefits, sick leave, and vacation and holiday pay applicable thereto. The expenses of performing Work outside of regular working hours, on Saturday, Sunday, or legal holidays, will be included in the above to the extent authorized by Owner.

2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and Suppliers' field services required in connection therewith. All cash discounts accrue to Contractor unless Owner deposits funds with Contractor with which to make payments, in which case the cash discounts will accrue to Owner. All trade discounts, rebates, and refunds and returns from sale of surplus materials and equipment will accrue to Owner, and Contractor shall make provisions so that they may be obtained.

3. Payments made by Contractor to Subcontractors for Work performed by Subcontractors. If required by Owner, Contractor shall obtain competitive bids from subcontractors acceptable to Owner and Contractor and shall deliver such bids to Owner, which will then determine, with the advice of Engineer, which bids, if any, will be acceptable. If any subcontract provides that the Subcontractor is to be paid on the basis of Cost of the Work plus a fee, the Subcontractor's Cost of the Work and fee will be determined in the same manner as Contractor's Cost of the Work and fee as provided in this Paragraph13.01.

4. Costs of special consultants (including but not limited to engineers, architects, testing laboratories, surveyors, attorneys, and accountants) employed or retained for services specifically related to the Work.

5. Other costs consisting of the following:

   ~~a.~~ The proportion of necessary transportation, travel, and subsistence expenses of Contractor's employees incurred in discharge of duties connected with the Work.

   ~~b.~~ Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office, and temporary facilities at the Site, which are

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consumed in the performance of the Work, and cost, less market value, of such items used but not consumed which remain the property of Contractor.

1) In establishing included costs for materials such as scaffolding, plating, or sheeting, consideration will be given to the actual or the estimated life of the material for use on other projects; or rental rates may be established on the basis of purchase or salvage value of such items, whichever is less. Contractor will not be eligible for compensation for such items in an amount that exceeds the purchase cost of such item.

~~c.~~ *Construction Equipment Rental*

1) Rentals of all construction equipment and machinery, and the parts thereof, in accordance with rental agreements approved by Owner as to price (including any surcharge or special rates applicable to overtime use of the construction equipment or machinery), and the costs of transportation, loading, unloading, assembly, dismantling, and removal thereof. All such costs will be in accordance with the terms of said rental agreements. The rental of any such equipment, machinery, or parts must cease when the use thereof is no longer necessary for the Work.

2) Costs for equipment and machinery owned by Contractor or a Contractor-related entity will be paid at a rate shown for such equipment in the equipment rental rate book specified in the Supplementary Conditions. An hourly rate will be computed by dividing the monthly rates by 176. These computed rates will include all operating costs.

3) With respect to Work that is the result of a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price ("changed Work"), included costs will be based on the time the equipment or machinery is in use on the changed Work and the costs of transportation, loading, unloading, assembly, dismantling, and removal when directly attributable to the changed Work. The cost of any such equipment or machinery, or parts thereof, must cease to accrue when the use thereof is no longer necessary for the changed Work.

~~d.~~ Sales, consumer, use, and other similar taxes related to the Work, and for which Contractor is liable, as imposed by Laws and Regulations.

~~e.~~ Deposits lost for causes other than negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.

~~f.~~ Losses and damages (and related expenses) caused by damage to the Work, not compensated by insurance or otherwise, sustained by Contractor in connection with the performance of the Work (except losses and damages within the deductible amounts of builder's risk or other property insurance established in accordance with Paragraph 6.04), provided such losses and damages have resulted from causes other than the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses include settlements made with the written consent and approval of Owner. No such losses, damages, and expenses will be included in the Cost of the Work for the purpose of determining Contractor's fee.

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~~g.~~ The cost of utilities, fuel, and sanitary facilities at the Site.

~~h.~~ Minor expenses such as communication service at the Site, express and courier services, and similar petty cash items in connection with the Work.

~~i.~~ The costs of premiums for all bonds and insurance that Contractor is required by the Contract Documents to purchase and maintain.

~~j.~~ The cost of specific consideration for the indemnifications set forth in paragraph 7.18.

~~k.~~ The cost of compliance with current local, state, and federal safety regulations.

C. *Costs Excluded*: The term Cost of the Work does not include any of the following items:

1. Payroll costs and other compensation of Contractor's officers, executives, principals, general managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expediters, timekeepers, clerks, and other personnel employed by Contractor, whether at the Site or in Contractor's principal or branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in Paragraph 13.01.B.1 or specifically covered by Paragraph 13.01.B.4. The payroll costs and other compensation excluded here are to be considered administrative costs covered by the Contractor's fee.
2. The cost of purchasing, renting, or furnishing small tools and hand tools.
3. Expenses of Contractor's principal and branch offices other than Contractor's office at the Site.
4. Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the Work and charges against Contractor for delinquent payments.
5. Costs due to the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and making good any damage to property.
6. Expenses incurred in preparing and advancing Claims.
7. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in Paragraph 13.01.B.

D. Contractor's Fee

1. When the Work as a whole is performed on the basis of cost-plus-a-fee, then:

   ~~a.~~ Contractor's fee for the Work set forth in the Contract Documents as of the Effective Date of the Contract will be determined as set forth in the Agreement.

   ~~b.~~ for any Work covered by a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price on the basis of Cost of the Work, Contractor's fee will be determined as follows:

      1) When the fee for the Work as a whole is a percentage of the Cost of the Work, the fee will automatically adjust as the Cost of the Work changes.

      2) When the fee for the Work as a whole is a fixed fee, the fee for any additions or deletions will be determined in accordance with Paragraph 11.07.C.2.

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2. When the Work as a whole is performed on the basis of a stipulated sum, or any other basis other than cost-plus-a-fee, then Contractor's fee for any Work covered by a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price on the basis of Cost of the Work will be determined in accordance with Paragraph 11.07.C.2.

E. *Documentation and Audit*: Whenever the Cost of the Work for any purpose is to be determined pursuant to this Article 13, Contractor and pertinent Subcontractors will establish and maintain records of the costs in accordance with generally accepted accounting practices. Subject to prior written notice, Owner will be afforded reasonable access, during normal business hours, to all Contractor's accounts, records, books, correspondence, instructions, drawings, receipts, vouchers, memoranda, and similar data relating to the Cost of the Work and Contractor's fee. Contractor shall preserve all such documents for a period of three years after the final payment by Owner. Pertinent Subcontractors will afford such access to Owner, and preserve such documents, to the same extent required of Contractor.

13.02 Allowances

A. It is understood that Contractor has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be performed for such sums and by such persons or entities as may be acceptable to Owner and Engineer.

B. *Cash Allowances*: Contractor agrees that:

1. the cash allowances include the cost to Contractor (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the Site, and all applicable taxes; and

2. Contractor's costs for unloading and handling on the Site, labor, installation, overhead, profit, and other expenses contemplated for the cash allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment for any of the foregoing will be valid.

C. *Owner's Contingency Allowance*: Contractor agrees that an Owner's contingency allowance, if any, is for the sole use of Owner to cover unanticipated costs.

D. Prior to final payment, an appropriate Change Order will be issued as recommended by Engineer to reflect actual amounts due Contractor for Work covered by allowances, and the Contract Price will be correspondingly adjusted.

13.03 Unit Price Work

A. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement.

B. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Payments to Contractor for Unit Price Work will be based on actual quantities.

C. Each unit price will be deemed to include an amount considered by Contractor to be adequate to cover Contractor's overhead and profit for each separately identified item.

D. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor. Engineer will review with Contractor the Engineer's preliminary

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determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment or otherwise). Engineer's written decision thereon will be final and binding (except as modified by Engineer to reflect changed factual conditions or more accurate data) upon Owner and Contractor, and the final adjustment of Contract Price will be set forth in a Change Order, subject to the provisions of the following paragraph.

E. ~~Adjustments in Unit P~~rice

1. ~~Contractor or Owner shall be entitled to an adjustment in the unit price with respec~~t to ~~an item of Unit Price Wor~~k if:

   a. ~~the quantity of the item of Unit Price Work performed by Contractor differs mater~~ially ~~and significantly from the estimated quantity of such item indicated in~~ the ~~Agreement;~~ and

   b. ~~Contractor's unit costs to perform the item of Unit Price Work have chan~~ged ~~materially and significantly as a result of the quantity chan~~ge.

2. ~~The adjustment in unit price will account for and be coordinated with any related chan~~ges ~~in quantities of other items of Work, and in Contractor's costs to perform such o~~ther ~~Work, such that the resulting overall change in Contract Price is equitable to Owner~~ and ~~Contrac~~tor.

3. ~~Adjusted unit prices will apply to all units of that it~~em.

4. If Owner objects to Contractor's quoted adjustment in Unit Price Work, Owner may assign such Work to its own forces or another contractor.

5. Owner reserves the right to delete any Unit Price Work without financial penalty incurred from Contractor.

ARTICLE 14—TESTS AND INSPECTIONS; CORRECTION, REMOVAL, OR ACCEPTANCE OF DEFECTIVE WORK

14.01 Access to Work

A. Owner, Engineer, their consultants and other representatives and personnel of Owner, independent testing laboratories, and authorities having jurisdiction have access to the Site and the Work at reasonable times for their observation, inspection, and testing. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's safety procedures and programs so that they may comply with such procedures and programs as applicable.

14.02 Tests, Inspections, and Approvals

A. Contractor shall give Engineer timely notice of readiness of the Work (or specific parts thereof) for all required inspections and tests, and shall cooperate with inspection and testing personnel to facilitate required inspections and tests. Contractor shall reimburse Owner for the charges of Engineer and Engineer's Consultants for all costs due to work not being ready for tests and/or inspections when the Contractor has notified Engineer that work is ready for tests and/or inspections. Contractor shall reimburse Owner for all failed tests and subsequent retests. Reimbursement for the charges shall be a deduction from the Contractor's Partial Payment(s).

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B. ~~Owner shall retain and pay for the services of an independent inspector, testing laboratory, or other qualified individual or entity to perform all inspections and tests expressly required by the Contract Documents to be furnished and paid for by Owner, except that costs incurred in connection with tests or inspections of covered Work will be governed by the provisions of Paragraph 14.05~~ The Contractor shall obtain and employ an independent testing laboratory to provide the services specified herein and shall include all costs for these services in the contract price. The Contractor shall submit for approval by the Owner and Engineer, the independent testing laboratory, including qualifications.

Copies of all testing agency invoices submitted to the Contractor for payment shall be forwarded with the Contractor's request for partial payment. Invoices shall be submitted routinely throughout the project and shall be pertinent to the partial payment period under consideration. Testing agency invoices in excess of sixty (60) days old shall not be considered for payment, Invoices shall clearly indicate if the invoiced testing cost is a result of retests required due to the Contractor's failure to achieve specified requirements. The cost of retesting due to the test failure will be borne by the Contractor. Payment to the Contractor for testing shall not be made without the required itemized invoicing.

C. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested, or approved by an employee or other representative of such public body, Contractor shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish Engineer the required certificates of inspection or approval.

D. Contractor shall be responsible for arranging, obtaining, and paying for all inspections and tests required:

1. by the Contract Documents, unless the Contract Documents expressly allocate responsibility for a specific inspection or test to Owner;
2. to attain Owner's and Engineer's acceptance of materials or equipment to be incorporated in the Work;
3. by manufacturers of equipment furnished under the Contract Documents;
4. for testing, adjusting, and balancing of mechanical, electrical, and other equipment to be incorporated into the Work; and
5. for acceptance of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work.

Such inspections and tests will be performed by independent inspectors, testing laboratories, or other qualified individuals or entities acceptable to Owner and Engineer.

E. If the Contract Documents require the Work (or part thereof) to be approved by Owner, Engineer, or another designated individual or entity, then Contractor shall assume full responsibility for arranging and obtaining such approvals.

F. If any Work (or the work of others) that is to be inspected, tested, or approved is covered by Contractor without written concurrence of Engineer, Contractor shall, if requested by Engineer, uncover such Work for observation. Such uncovering will be at Contractor's expense unless Contractor had given Engineer timely notice of Contractor's intention to cover the same and Engineer had not acted with reasonable promptness in response to such notice.

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14.03 Defective Work

A. *Contractor's Obligation*: It is Contractor's obligation to assure that the Work is not defective.

B. *Engineer's Authority*: Engineer has the authority to determine whether Work is defective, and to reject defective Work.

C. *Notice of Defects*: Prompt written notice of all defective Work of which Owner or Engineer has actual knowledge will be given to Contractor.

D. *Correction, or Removal and Replacement*: Promptly after receipt of written notice of defective Work, Contractor shall correct all such defective Work, whether or not fabricated, installed, or completed, or, if Engineer has rejected the defective Work, remove it from the Project and replace it with Work that is not defective.

E. *Preservation of Warranties*: When correcting defective Work, Contractor shall take no action that would void or otherwise impair Owner's special warranty and guarantee, if any, on said Work.

F. *Costs and Damages*: In addition to its correction, removal, and replacement obligations with respect to defective Work, Contractor shall pay all claims, costs, losses, and damages arising out of or relating to defective Work, including but not limited to the cost of the inspection, testing, correction, removal, replacement, or reconstruction of such defective Work, fines levied against Owner by governmental authorities because the Work is defective, and the costs of repair or replacement of work of others resulting from defective Work. Prior to final payment, if Owner and Contractor are unable to agree as to the measure of such claims, costs, losses, and damages resulting from defective Work, then Owner may impose a reasonable set-off against payments due under Article 15.

14.04 Acceptance of Defective Work

A. If, instead of requiring correction or removal and replacement of defective Work, Owner prefers to accept it, Owner may do so (subject, if such acceptance occurs prior to final payment, to Engineer's confirmation that such acceptance is in general accord with the design intent and applicable engineering principles, and will not endanger public safety). Contractor shall pay all claims, costs, losses, and damages attributable to Owner's evaluation of and determination to accept such defective Work (such costs to be approved by Engineer as to reasonableness), and for the diminished value of the Work to the extent not otherwise paid by Contractor. If any such acceptance occurs prior to final payment, the necessary revisions in the Contract Documents with respect to the Work will be incorporated in a Change Order. If the parties are unable to agree as to the decrease in the Contract Price, reflecting the diminished value of Work so accepted, then Owner may impose a reasonable set-off against payments due under Article 15. If the acceptance of defective Work occurs after final payment, Contractor shall pay an appropriate amount to Owner.

14.05 Uncovering Work

A. Engineer has the authority to require additional inspection or testing of the Work, whether or not the Work is fabricated, installed, or completed.

B. If any Work is covered contrary to the written request of Engineer, then Contractor shall, if requested by Engineer, uncover such Work for Engineer's observation, and then replace the covering, all at Contractor's expense.

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C. If Engineer considers it necessary or advisable that covered Work be observed by Engineer or inspected or tested by others, then Contractor, at Engineer's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as Engineer may require, that portion of the Work in question, and provide all necessary labor, material, and equipment.

1. If it is found that the uncovered Work is defective, Contractor shall be responsible for all claims, costs, losses, and damages arising out of or relating to such uncovering, exposure, observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and pending Contractor's full discharge of this responsibility the Owner shall be entitled to impose a reasonable set-off against payments due under Article 15.

2. If the uncovered Work is not found to be defective, Contractor shall be allowed an increase in the Contract Price or an extension of the Contract Times, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, then Contractor may submit a Change Proposal within 30 days of the determination that the Work is not defective.

14.06 Owner May Stop the Work

A. If the Work is defective, or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, then Owner may order Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of Owner to stop the Work will not give rise to any duty on the part of Owner to exercise this right for the benefit of Contractor, any Subcontractor, any Supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

14.07 Owner May Correct Defective Work

A. If Contractor fails within a reasonable time after written notice from Engineer to correct defective Work, or to remove and replace defective Work as required by Engineer, then Owner may, after 7 days' written notice to Contractor, correct or remedy any such deficiency.

B. In exercising the rights and remedies under this Paragraph 14.07, Owner shall proceed expeditiously. In connection with such corrective or remedial action, Owner may exclude Contractor from all or part of the Site, take possession of all or part of the Work and suspend Contractor's services related thereto, and incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere. Contractor shall allow Owner, Owner's representatives, agents and employees, Owner's other contractors, and Engineer and Engineer's consultants access to the Site to enable Owner to exercise the rights and remedies under this paragraph.

C. All claims, costs, losses, and damages incurred or sustained by Owner in exercising the rights and remedies under this Paragraph 14.07 will be charged against Contractor as set-offs against payments due under Article 15. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of Contractor's defective Work.

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D. Contractor shall not be allowed an extension of the Contract Times because of any delay in the performance of the Work attributable to the exercise by Owner of Owner's rights and remedies under this Paragraph 14.07.

ARTICLE 15—PAYMENTS TO CONTRACTOR; SET-OFFS; COMPLETION; CORRECTION PERIOD

15.01 Progress Payments

A. *Basis for Progress Payments*: The Schedule of Values established as provided in Article 2 will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to Engineer. Progress payments for Unit Price Work will be based on the number of units completed during the pay period, as determined under the provisions of Paragraph 13.03. Progress payments for cost-based Work will be based on Cost of the Work completed by Contractor during the pay period.

B. Applications for Payments

1. At least 20 days before the date established in the Agreement for each progress payment (but not more often than once a month), Contractor shall submit to Engineer for review an Application for Payment filled out and signed by Contractor covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents.

2. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the Site or at another location agreed to in writing, the Application for Payment must also be accompanied by: (a) a bill of sale, invoice, copies of subcontract or purchase order payments, or other documentation establishing full payment by Contractor for the materials and equipment; (b) at Owner's request, documentation warranting that Owner has received the materials and equipment free and clear of all Liens; and (c) evidence that the materials and equipment are covered by appropriate property insurance, a warehouse bond, or other arrangements to protect Owner's interest therein, all of which must be satisfactory to Owner.

3. Beginning with the second Application for Payment, each Application. shall include an affidavit of Contractor certifying that Contractor has disbursed to all subcontractors and suppliers having an interest in the contract their pro rata shares of the payment out of previous progress payments received by Contractor for all work completed and materials furnished in the previous work period, less a retainage withheld by Contractor pursuant to an agreement with a subcontractor. Within thirty (30) days of receipt for the final progress payment or any other payments received thereafter except the final payment, Contractor shall pay all subcontractors and suppliers having an interest in the contract their pro rata shares of the payment for all work completed and materials furnished. must include an affidavit of Contractor stating that all previous progress payments received by Contractor have been applied to discharge Contractor's legitimate obligations associated with prior Applications for Payment

4. The amount of retainage with respect to progress payments will be as stipulated in the Agreement.

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C. Review of Applications

1. Engineer will, within 10 days after receipt of each Application for Payment, including each resubmittal, either indicate in writing a recommendation of payment and present the Application to Owner, or return the Application to Contractor indicating in writing Engineer's reasons for refusing to recommend payment. In the latter case, Contractor may make the necessary corrections and resubmit the Application or direct Engineer to present the Application to Owner with Engineer's recommendation of partial payment.

2. Engineer's recommendation of any payment requested in an Application for Payment will constitute a representation by Engineer to Owner, based on Engineer's observations of the executed Work as an experienced and qualified design professional, and on Engineer's review of the Application for Payment and the accompanying data and schedules and the Contract Documents, that to the best of Engineer's knowledge, information and belief:

    a. the Work has progressed to the point indicated;

    b. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, the results of any subsequent tests called for in the Contract Documents, a final determination of quantities and classifications for Unit Price Work under Paragraph 13.03, and any other qualifications stated in the recommendation); and

    c. the conditions precedent to Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe the Work.

    d. Contractor's other obligations under the Contract Documents have been fulfilled.

3. By recommending any such payment Engineer will not thereby be deemed to have represented that:

    a. inspections made to check the quality or the quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in the Contract; or

    b. there may not be other matters or issues between the parties that might entitle Contractor to be paid additionally by Owner or entitle Owner to withhold payment to Contractor.

4. Neither Engineer's review of Contractor's Work for the purposes of recommending payments nor Engineer's recommendation of any payment, including final payment, will impose responsibility on Engineer:

    a. to supervise, direct, or control the Work;

    b. for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto;

    c. for Contractor's failure to comply with Laws and Regulations applicable to Contractor's performance of the Work;

    d. to make any examination to ascertain how or for what purposes Contractor has used the money paid by Owner; or

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e. to determine that title to any of the Work, materials, or equipment has passed to Owner free and clear of any Liens.

5. Engineer may refuse to recommend the whole or any part of any payment if, in Engineer's opinion, it would be incorrect to make the representations to Owner stated in Paragraph 15.01.C.2.

6. Engineer will recommend reductions in payment (set-offs) necessary in Engineer's opinion to protect Owner from loss because:

a. the Work is defective, requiring correction or replacement;

b. the Contract Price has been reduced by Change Orders;

c. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph14.04;

d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible; or

e. Engineer has actual knowledge of the occurrence of any of the events that would constitute a default by Contractor and therefore justify termination for cause under the Contract Documents.

D. Payment Becomes Due

1. Ten days after presentation of the Application for Payment to Owner with Engineer's recommendation, the amount recommended (subject to any Owner set-offs) will become due, and when due will be paid by Owner to Contractor.

E. Reductions in Payment by Owner

1. In addition to any reductions in payment (set-offs) recommended by Engineer, Owner is entitled to impose a set-off against payment based on any of the following:

a. Claims have been made against Owner based on Contractor's conduct in the performance or furnishing of the Work, or Owner has incurred costs, losses, or damages resulting from Contractor's conduct in the performance or furnishing of the Work, including but not limited to claims, costs, losses, or damages from workplace injuries, adjacent property damage, non-compliance with Laws and Regulations, and patent infringement;

b. Contractor has failed to take reasonable and customary measures to avoid damage, delay, disruption, and interference with other work at or adjacent to the Site;

c. Contractor has failed to provide and maintain required bonds or insurance;

d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible;

e. Owner has incurred extra charges or engineering costs related to submittal reviews, evaluations of proposed substitutes, tests and inspections, or return visits to manufacturing or assembly facilities;

f. The Work is defective, requiring correction or replacement;

g. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph14.04;

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h. The Contract Price has been reduced by Change Orders;

i. An event has occurred that would constitute a default by Contractor and therefore justify a termination for cause;

j. Liquidated or other damages have accrued as a result of Contractor's failure to achieve Milestones, Substantial Completion, or final completion of the Work;

k. Liens have been filed in connection with the Work, except where Contractor has delivered a specific bond satisfactory to Owner to secure the satisfaction and discharge of such Liens; or

l. Other items entitle Owner to a set-off against the amount recommended.

2. If Owner imposes any set-off against payment, whether based on its own knowledge or on the written recommendations of Engineer, Owner will give Contractor immediate written notice (with a copy to Engineer) stating the reasons for such action and the specific amount of the reduction, and promptly pay Contractor any amount remaining after deduction of the amount so withheld. Owner shall promptly pay Contractor the amount so withheld, or any adjustment thereto agreed to by Owner and Contractor, if Contractor remedies the reasons for such action. The reduction imposed will be binding on Contractor unless it duly submits a Change Proposal contesting the reduction.

3. Upon a subsequent determination that Owner's refusal of payment was not justified, the amount wrongfully withheld will be treated as an amount due as determined by Paragraph 15.01.D.1 and subject to interest as provided in the Agreement.

15.02 Contractor's Warranty of Title

A. Contractor warrants and guarantees that title to all Work, materials, and equipment furnished under the Contract will pass to Owner free and clear of (1) all Liens and other title defects, and (2) all patent, licensing, copyright, or royalty obligations, no later than 7 days after the time of payment by Owner.

15.03 Substantial Completion

A. When Contractor considers the entire Work ready for its intended use Contractor shall notify Owner and Engineer in writing that the entire Work is substantially complete and request that Engineer issue a certificate of Substantial Completion. Contractor shall at the same time submit to Owner and Engineer an initial draft of punch list items to be completed or corrected before final payment.

B. Promptly after Contractor's notification, Owner, Contractor, and Engineer shall make an inspection of the Work to determine the status of completion. If Engineer does not consider the Work substantially complete, Engineer will notify Contractor in writing giving the reasons therefor.

C. If Engineer considers the Work substantially complete, Engineer will deliver to Owner a preliminary certificate of Substantial Completion which will fix the date of Substantial Completion. Engineer shall attach to the certificate a punch list of items to be completed or corrected before final payment. Owner shall have 7 days after receipt of the preliminary certificate during which to make written objection to Engineer as to any provisions of the certificate or attached punch list. If, after considering the objections to the provisions of the preliminary certificate, Engineer concludes that the Work is not substantially complete,

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Engineer will, within 14 days after submission of the preliminary certificate to Owner, notify Contractor in writing that the Work is not substantially complete, stating the reasons therefor. If Owner does not object to the provisions of the certificate, or if despite consideration of Owner's objections Engineer concludes that the Work is substantially complete, then Engineer will, within said 14 days, execute and deliver to Owner and Contractor a final certificate of Substantial Completion (with a revised punch list of items to be completed or corrected) reflecting such changes from the preliminary certificate as Engineer believes justified after consideration of any objections from Owner.

D. At the time of receipt of the preliminary certificate of Substantial Completion, Owner and Contractor will confer regarding Owner's use or occupancy of the Work following Substantial Completion, review the builder's risk insurance policy with respect to the end of the builder's risk coverage, and confirm the transition to coverage of the Work under a permanent property insurance policy held by Owner. Unless Owner and Contractor agree otherwise in writing, Owner shall bear responsibility for security, operation, protection of the Work, property insurance, maintenance, heat, and utilities upon Owner's use or occupancy of the Work.

E. After Substantial Completion the Contractor shall promptly begin work on the punch list of items to be completed or corrected prior to final payment. In appropriate cases Contractor may submit monthly Applications for Payment for completed punch list items, following the progress payment procedures set forth above.

F. Owner shall have the right to exclude Contractor from the Site after the date of Substantial Completion subject to allowing Contractor reasonable access to remove its property and complete or correct items on the punch list.

15.04 Partial Use or Occupancy

A. Prior to Substantial Completion of all the Work, Owner may use or occupy any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which Owner, Engineer, and Contractor agree constitutes a separately functioning and usable part of the Work that can be used by Owner for its intended purpose without significant interference with Contractor's performance of the remainder of the Work, subject to the following conditions:

1. At any time, Owner may request in writing that Contractor permit Owner to use or occupy any such part of the Work that Owner believes to be substantially complete. If and when Contractor agrees that such part of the Work is substantially complete, Contractor, Owner, and Engineer will follow the procedures of Paragraph 15.03.A through 15.03.E for that part of the Work.

2. At any time, Contractor may notify Owner and Engineer in writing that Contractor considers any such part of the Work substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.

3. Within a reasonable time after either such request, Owner, Contractor, and Engineer shall make an inspection of that part of the Work to determine its status of completion. If Engineer does not consider that part of the Work to be substantially complete, Engineer will notify Owner and Contractor in writing giving the reasons therefor. If Engineer considers that part of the Work to be substantially complete, the provisions of

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Paragraph 15.03 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.

4. No use or occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of Paragraph 6.04 regarding builder's risk or other property insurance.

15.05 Final Inspection

A. Upon written notice from Contractor that the entire Work or an agreed portion thereof is complete, Engineer will promptly make a final inspection with Owner and Contractor and will notify Contractor in writing of all particulars in which this inspection reveals that the Work, or agreed portion thereof, is incomplete or defective. Contractor shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

15.06 Final Payment

A. Application for Payment

1. After Contractor has, in the opinion of Engineer, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance, certificates of inspection, annotated record documents (as provided in Paragraph 7.12), and other documents, Contractor may make application for final payment.

2. The final Application for Payment must be accompanied (except as previously delivered) by:

   a. all documentation called for in the Contract Documents;

   b. consent of the surety, if any, to final payment;

   c. satisfactory evidence that all title issues have been resolved such that title to all Work, materials, and equipment has passed to Owner free and clear of any Liens or other title defects, or will so pass upon final payment.

   d. a list of all duly pending Change Proposals and Claims; and

   e. complete and legally effective releases or waivers (satisfactory to Owner) of all Lien rights arising out of the Work, and of Liens filed in connection with the Work.

3. In lieu of the releases or waivers of Liens specified in Paragraph 15.06.A.2 and as approved by Owner, Contractor may furnish receipts or releases in full and an affidavit of Contractor that: (a) the releases and receipts include all labor, services, material, and equipment for which a Lien could be filed; and (b) all payrolls, material and equipment bills, and other indebtedness connected with the Work for which Owner might in any way be responsible, or which might in any way result in liens or other burdens on Owner's property, have been paid or otherwise satisfied. If any Subcontractor or Supplier fails to furnish such a release or receipt in full, Contractor may furnish a bond or other collateral satisfactory to Owner to indemnify Owner against any Lien, or Owner at its option may issue joint checks payable to Contractor and specified Subcontractors and Suppliers.

B. *Engineer's Review of Final Application and Recommendation of Payment*: ~~If, on the basis of Engineer's observation of the Work during construction and final inspection, and Engineer's~~

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review of the ~~final Application for Payment and accompanying documentation as required by the Contract~~ Documents, ~~Engineer is satisfied that the Work has been completed and Contractor's other obligations under~~ the Contract ~~have been fulfilled, Engineer will, within 10 days after receipt of the final Application for~~ Payment, indicate in writing Engineer's recommendation of final payment and present the final Application for Payment to Owner for payment. Such recommendation will account for any set-offs against payment that are necessary in Engineer's opinion to protect Owner from loss for the reasons stated above with respect to progress payments. Otherwise, Engineer will return the Application for Payment to Contractor, indicating in writing the reasons for refusing to recommend final payment, in which case Contractor shall make the necessary corrections and resubmit the Application for ~~Payment~~ The acceptance of Final Payment by Contractor designated and identified by Engineer as Final Payment shall be and shall operate as a release to Owner of all claims and all liability to Contractor other than claims in stated amounts as may be specifically excepted by Contractor for all things done or finished in connection it the Work and for every act of Owner and others relating to or arising out of the Work. Any payment, however, final or otherwise, shall not release Contractor or Contractor's Surety(ies) from any obligations under the Contract Documents or Bonds.

C. *Notice of Acceptability*: In support of its recommendation of payment of the final Application for Payment, Engineer will also give written notice to Owner and Contractor that the Work is acceptable, subject to stated limitations in the notice and to the provisions of Paragraph 15.07.

D. *Completion of Work*: The Work is complete (subject to surviving obligations) when it is ready for final payment as established by the Engineer's written recommendation of final payment and issuance of notice of the acceptability of the Work.

E. *Final Payment Becomes Due*: Upon receipt from Engineer of the final Application for Payment and accompanying documentation, Owner shall set off against the amount recommended by Engineer for final payment any further sum to which Owner is entitled, including but not limited to set-offs for liquidated damages and set-offs allowed under the provisions of this Contract with respect to progress payments. Owner shall pay the resulting balance due to Contractor within 30 days of Owner's receipt of the final Application for Payment from Engineer.

15.07 Waiver of Claims

A. By making final payment, Owner waives its claim or right to liquidated damages or other damages for late completion by Contractor, except as set forth in an outstanding Claim, appeal under the provisions of Article 17, set-off, or express reservation of rights by Owner. Owner reserves all other claims or rights after final payment.

B. The acceptance of final payment by Contractor will constitute a waiver by Contractor of all claims and rights against Owner other than those pending matters that have been duly submitted as a Claim, or appealed under the provisions of Article 17.

15.08 Correction Period

A. If within one year after the date of Substantial Completion (or such longer period of time as may be prescribed by the Supplementary Conditions or the terms of any applicable special guarantee required by the Contract Documents), Owner gives Contractor written notice that any Work has been found to be defective, or that Contractor's repair of any damages to the

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Site or adjacent areas has been found to be defective, then after receipt of such notice of defect Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:

1. correct the defective repairs to the Site or such adjacent areas;
2. correct such defective Work;
3. remove the defective Work from the Project and replace it with Work that is not defective, if the defective Work has been rejected by Owner, and
4. satisfactorily correct or repair or remove and replace any damage to other Work, to the work of others, or to other land or areas resulting from the corrective measures.

B. Owner shall give any such notice of defect within 60 days of the discovery that such Work or repairs is defective. If such notice is given within such 60 days but after the end of the correction period, the notice will be deemed a notice of defective Work under Paragraph 7.17.B.

C. If, after receipt of a notice of defect within 60 days and within the correction period, Contractor does not promptly comply with the terms of Owner's written instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective Work corrected or repaired or may have the rejected Work removed and replaced. Contractor shall pay all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others). Contractor's failure to pay such costs, losses, and damages within 10 days of invoice from Owner will be deemed the start of an event giving rise to a Claim under Paragraph 12.01.B, such that any related Claim must be brought within 30 days of the failure to pay.

D. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications.

E. Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this paragraph, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.

F. Contractor's obligations under this paragraph are in addition to all other obligations and warranties. The provisions of this paragraph are not to be construed as a substitute for, or a waiver of, the provisions of any applicable statute of limitation or repose.

ARTICLE 16—SUSPENSION OF WORK AND TERMINATION

16.01 Owner May Suspend Work

A. At any time and without cause, Owner may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by written notice to Contractor and Engineer. Such notice will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be entitled to an adjustment in the Contract Price or an

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extension of the Contract Times directly attributable to any such suspension. Any Change Proposal seeking such adjustments must be submitted no later than 30 days after the date fixed for resumption of Work.

16.02 Owner May Terminate for Cause

A. The occurrence of any one or more of the following events will constitute a default by Contractor and justify termination for cause:

1. Contractor's failure to start the Work in accordance with the Notice to Proceed or Contractor's persistent failure to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment, or failure to adhere to the Progress Schedule);

2. Failure of Contractor to perform or otherwise to comply with a material term of the Contract Documents;

3. Contractor's disregard of Laws or Regulations of any public body having jurisdiction; or

4. Contractor's repeated disregard of the authority of Owner or Engineer.

B. If one or more of the events identified in Paragraph 16.02.A occurs, then after giving Contractor (and any surety) 10 days' written notice that Owner is considering a declaration that Contractor is in default and termination of the Contract, Owner may proceed to:

1. declare Contractor to be in default, and give Contractor (and any surety) written notice that the Contract is terminated; and

2. enforce the rights available to Owner under any applicable performance bond.

C. Subject to the terms and operation of any applicable performance bond, if Owner has terminated the Contract for cause, Owner may exclude Contractor from the Site, take possession of the Work, incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere, and complete the Work as Owner may deem expedient.

D. Owner may not proceed with termination of the Contract under Paragraph 16.02.B if Contractor within 7 days of receipt of notice of intent to terminate begins to correct its failure to perform and proceeds diligently to cure such failure.

E. If Owner proceeds as provided in Paragraph 16.02.B, Contractor shall not be entitled to receive any further payment until the Work is completed. If the unpaid balance of the Contract Price exceeds the cost to complete the Work, including all related claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals) sustained by Owner, such excess will be paid to Contractor. If the cost to complete the Work including such related claims, costs, losses, and damages exceeds such unpaid balance, Contractor shall pay the difference to Owner. Such claims, costs, losses, and damages incurred by Owner will be reviewed by Engineer as to their reasonableness and, when so approved by Engineer, incorporated in a Change Order. When exercising any rights or remedies under this paragraph, Owner shall not be required to obtain the lowest price for the Work performed.

F. Where Contractor's services have been so terminated by Owner, the termination will not affect any rights or remedies of Owner against Contractor then existing or which may thereafter accrue, or any rights or remedies of Owner against Contractor or any surety under

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any payment bond or performance bond. Any retention or payment of money due Contractor by Owner will not release Contractor from liability.

G. If and to the extent that Contractor has provided a performance bond under the provisions of Paragraph 6.01.A, the provisions of that bond will govern over any inconsistent provisions of Paragraphs 16.02.B and 16.02.D.

16.03 Owner May Terminate for Convenience

A. Upon 7 days' written notice to Contractor and Engineer, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for (without duplication of any items):

1. completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;

2. expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses; and

3. other reasonable expenses directly attributable to termination, including costs incurred to prepare a termination for convenience cost proposal.

B. Contractor shall not be paid for any loss of anticipated profits or revenue, post-termination overhead costs, or other economic loss arising out of or resulting from such termination.

16.04 Contractor May Stop Work or Terminate

A. If, through no act or fault of Contractor, (1) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (2) Engineer fails to act on any Application for Payment within 30 days after it is submitted, or (3) Owner fails for 30 days to pay Contractor any sum finally determined to be due, then Contractor may, upon 7 days' written notice to Owner and Engineer, and provided Owner or Engineer do not remedy such suspension or failure within that time, terminate the contract and recover from Owner payment on the same terms as provided in Paragraph 16.03.

B. In lieu of terminating the Contract and without prejudice to any other right or remedy, if Engineer has failed to act on an Application for Payment within 30 days after it is submitted, or Owner has failed for 30 days to pay Contractor any sum finally determined to be due, Contractor may, 7 days after written notice to Owner and Engineer, stop the Work until payment is made of all such amounts due Contractor, including interest thereon. The provisions of this paragraph are not intended to preclude Contractor from submitting a Change Proposal for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to Contractor's stopping the Work as permitted by this paragraph.

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ARTICLE 17—FINAL RESOLUTION OF DISPUTES

17.01 Methods and Procedures

A. *Disputes Subject to Final Resolution*: The following disputed matters are subject to final resolution under the provisions of this article:

1. A timely appeal of an approval in part and denial in part of a Claim, or of a denial in full, pursuant to Article 12; and

2. Disputes between Owner and Contractor concerning the Work, or obligations under the Contract Documents, that arise after final payment has been made.

B. *Final Resolution of Disputes*: For any dispute subject to resolution under this article, Owner or Contractor may:

1. elect in writing to invoke the dispute resolution process provided for in the Supplementary Conditions;

2. agree with the other party to submit the dispute to another dispute resolution process; or

3. if no dispute resolution process is provided for in the Supplementary Conditions or mutually agreed to, give written notice to the other party of the intent to submit the dispute to a court of competent jurisdiction. Any litigation action shall be filed in a state Court in Nassau County, Florida, with the exception of any federal litigation action which shall be filed with a Court for the Middle District of Florida. Any mediation shall be held in Nassau County, Florida.

ARTICLE 18—MISCELLANEOUS

18.01 Giving Notice

A. Whenever any provision of the Contract requires the giving of written notice to Owner, Engineer, or Contractor, it will be deemed to have been validly given only if delivered:

1. in person, by a commercial courier service or otherwise, to the recipient's place of business;

2. by registered or certified mail, postage prepaid, to the recipient's place of business; or

3. by e-mail to the recipient, with the words "Formal Notice" or similar in the e-mail's subject line.

18.02 Computation of Times

A. When any period of time is referred to in the Contract by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

18.03 Cumulative Remedies

A. The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are

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otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract. The provisions of this paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

18.04 Limitation of Damages

A. With respect to any and all Change Proposals, Claims, disputes subject to final resolution, and other matters at issue, neither Owner nor Engineer, nor any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, shall be liable to Contractor for any claims, costs, losses, or damages sustained by Contractor on or in connection with any other project or anticipated project.

18.05 No Waiver

A. A party's non-enforcement of any provision will not constitute a waiver of that provision, nor will it affect the enforceability of that provision or of the remainder of this Contract.

18.06 Survival of Obligations

A. All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract, as well as all continuing obligations indicated in the Contract, will survive final payment, completion, and acceptance of the Work or termination of the Contract or of the services of Contractor.

18.07 Controlling Law

A. This Contract is to be governed by the law of the state in which the Project is located.

18.08 Assignment of Contract

A. Unless expressly agreed to elsewhere in the Contract, no assignment by a party to this Contract of any rights under or interests in the Contract will be binding on the other party without the written consent of the party sought to be bound; and, specifically but without limitation, money that may become due and money that is due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract.

18.09 Successors and Assigns

A. Owner and Contractor each binds itself, its successors, assigns, and legal representatives to the other party hereto, its successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

18.10 Headings

A. Article and paragraph headings are inserted for convenience only and do not constitute parts of these General Conditions.

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SECTION 00 73 15 SUPPLEMENTARY CONDITIONS

These Supplementary Conditions amend or supplement the Standard General Conditions of the Construction Contract (EJCDC C-700, 2007 Edition). All provisions which are not so amended or supplemented remain in full force and effect.

The terms used in these Supplementary Conditions which are defined in the Standard General Conditions of the Construction Contract have the meanings assigned to them in the General Conditions.

Local Agency Program Agreement 433248-1-58-01 Section 14.f

Neither the Recipient nor any of Its contractors or their subcontractors shall enter into any contract, subcontract or arrangement in connection. with the Project or any property Included or planned to be included in the Project in which any member, officer or employee of the Recipient or the locality during tenure or for 2 years thereafter has any interest, direct or indirect. If any such present or former member, officer or employee Involuntarily acquires or had acquired prior to the beginning of tenure any such Interest, and if such interest Is immediately disclosed to the Recipient, the Recipient, with prior approval of the Department, may waive the prohibition contained In this paragraph provided that any such present member, officer or employee shall not participate in any action by the Recipient or the locality relating to such contract, subcontract or arrangement. The Recipient shall insert in all contracts entered into in connection with the Project or any property included or planned to be included in any Project, and shall require its contractors to insert In each of their subcontracts, the following provision:

"No member, officer or employee of the Recipient or of the locality during his tenure or for 2 years thereafter shall have any interest, direct or indirect, in this contract or the proceeds thereof."

The provisions of this paragraph shall not be applicable to any agreement between the Recipient and its fiscal depositories or to any agreement for utility services the rates for which are fixed or controlled by a governmental agency.

Local Agency Program Agreement 433248-1-58-01 Section 15.c

Recipient agrees to include the following indemnification in all contracts with contractors, subcontractors, consultants, or subconsultants (each referred to as "Entity" for the purposes of the below indemnification) who perform work in connection with this Agreement:

“To the extent provided by law, [ENTITY] shall indemnify, defend, and hold harmless the

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[RECIPIENT] and the State of Florida, Department of Transportation, Including the Department's officers, agents, and employees, against any actions, claims, or damages arising out of, relating to, or resulting from negligent or wrongful act(s) of [ENTITY], or any of its officers, agents, or employees, acting within the scope of their office or employment, in connection with the rights granted to or exercised by [ENTITY] hereunder, to the extent and within the limitations of Section 768.28, Florida Statutes.

The foregoing indemnification shall not constitute a waiver of sovereign Immunity beyond the limits set forth in Florida Statutes, Section 768.28. Nor shall the same be construed to constitute agreement by [ENTITY] to indemnify [RECIPIENT] for the negligent acts or omissions of [RECIPIENT], its officers, agents, or employees, or third parties. Nor shall the same be construed to constitute agreement by [ENTITY] to indemnify the Department for the negligent acts or omissions of the Department, its officers, agents, or employees, or third parties. This Indemnification shall survive the termination of this Agreement."

Local Agency Program Agreement 433248-1-58-01 Section 17.o
The Parties agree to comply with s.20.055(5), Florida Statutes, and to Incorporate in all subcontracts the obligation to comply with s.20.055(5), Florida Statutes.

END OF SECTION

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SECTION 01 00 00

GENERAL REQUIREMENTS

PART 1 - GENERAL

1.01 QUALIFICATION

A. The Bidder shall be able to demonstrate that it possesses the necessary proficiency and experience, the Bidder's Firm shall have been regularly engaged in the construction of projects involving the installation of process equipment at municipal water/wastewater treatment facilities in Florida for at least the last five consecutive years and shall have completed at least five projects of similar size, value, and complexity within the last five years. The Bidder shall be a Florida state certified General Contractor. The Bidder shall perform at least 50% of the contract work with his/her own forces.

1.02 EXISTING UTILITIES AND STRUCTURES

A. The existing utilities and facilities shall be located from the Owner's and other records. Guaranty is not made that all existing facilities are shown/located or that those shown/located are entirely accurate. The Contractor shall assure themselves of any utilities, structures or facilities prior to performing any Work. Prior to the start of Work, the Contractor shall request the Owner to advise him of the location of their facilities in the vicinity. The Owner and the Engineer will assume no liability for damages sustained or costs incurred because of the Contractor's operations in the vicinity of existing utilities or structures. The Contractor shall notify the Engineer of any deviation between existing conditions and the information provided by the Engineer or Owner.

1.03 PRESERVING WATER QUALITY

A. The Contractor shall exercise extreme care to minimize degradation of water quality at the site. All necessary provisions shall be taken to ensure compliance with the water quality standards of the State of Florida.

B. The Contractor shall take steps to collect and dispose of all sewage that leaks and/or spills during the performance of this contract. Any leakage or spillage shall be cleaned up to the satisfaction of the Nassau County Health Department.

1.04 PROTECTION OF EXISTING AND ADJACENT PROPERTIES

A. Unless indicated otherwise, all shrubbery, paved streets and walks, fences and walls, adjacent structures and equipment shall be fully protected against damage

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during each stage of the project. Any damage by the Contractor shall be fully restored to its condition at the start of construction.

1.05 RESTORATION OF DAMAGED SURFACES, STRUCTURES, AND PROPERTY

A. Where pavement, trees, shrubbery, fences or other property or surface structures not designated as pay items, have been damaged, removed or disturbed by the Contractor, whether deliberately or through failure to carry out the requirements of the Contract Documents, state laws, municipal ordinances or the specific direction of the Engineer, or through failure to employ usual and reasonable safeguards, such property and surface structures will be replaced or repaired at the expense of the Contractor to a condition equal to that before Work began within a time frame approved by the Engineer.

1.06 SUBSTITUTIONS (NOT USED)

1.07 WATER

A. The Contractor shall provide water for their use for construction purposes. The Contractor shall be responsible for the installation of an Owner water meter at a location approved by the Engineer. The Contractor shall install and maintain necessary supply connections and piping for same.

1.08 SANITARY FACILITIES

A. The Contractor shall provide temporary restroom facilities for field crews as permitted by the Nassau County Health Department. Existing Owner facilities are not available for use by the Contractor.

1.09 WORKING HOURS

A. Work under this contract shall not be performed on County, State and/or national holidays or during such events as the Fernandina Beach Shrimp Festival, Nassau County School System FCAT (as identified at the pre-bid conference), except in time of emergency, and then only under written permission from the County who shall be the sole judge as to the urgency of that situation. Available workdays to perform work will not include nighttime work, weekend work, or work before 8:00 am or after 5:00 pm (40 hours per work week).

Should the Contractor deem it necessary to work on Sundays, holidays, or beyond daylight hours in order to comply with his construction schedule or because of an emergency, the Contractor shall request permission of the County. If, in the opinion of the County, the need is bona fide, the County will authorize the Contractor to work such hours as may be necessary.

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B. Should the County approve work time beyond regular hours, the following hourly rates shall be applied as the County's reimbursement of Engineer of Record's fee to be paid by Contractor for expenses defined in Supplemental Conditions SC-6.02.C, SC-6.05.A.2.f, SC-6.17.E., SC-9.05.B and SC-13.03.A.

1. Engineer	$202.69
2. Project Engineer	$115.49
3. Construction Administrator	$134.92
4. Inspector	$96.07
5. Administrative Assistant	$53.21
6. Consultant Construction Engineering Inspection (CEI)	$69.35

1.10 ASSEMBLIES OR UNITS

A. Where the Contractor is required to furnish and install an assembly or unit, the Contractor shall furnish all component parts as required by the manufacturer of the unit.

1.11 ACCESS TO THE WORK SITE

A. The Contractor may use only the roads and/or easements designated by the Owner for access to the work locations. The Contractor shall be responsible for maintaining, protecting and restoring the routes to the satisfaction of the Owner and Engineer.

1.12 BARRICADES AND LIGHTS

A. The Contractor shall furnish and erect such barricades, fences, lights, and danger signals and shall provide such other precautionary measures for the protection of persons or property and of the work as necessary. Barricades shall be painted in a color that will be visible at night. From sunset to sunrise, the Contractor shall furnish and maintain at least one light at each barricade and sufficient numbers of barricades shall be erected to keep vehicles from being driven on or into any work under construction.

B. The Contractor will be held responsible for all damage to the work due to failure of barricades, signs, and lights to protect it and whenever evidence is found of such damage, the Contractor shall immediately remove the damaged portion and replace it at his cost and expense. The Contractor's responsibility for the maintenance of barricades, signs, and lights shall not cease until the project has been accepted by the Owner.

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1.13 SECURITY

A. The Contractor shall be fully responsible for the safety and security of the work area. Any temporary measures required to maintain the security of the area shall be the Contractor's responsibility.

1.14 TRENCH SAFETY ACT

A. All work shall conform to the Trench Safety Act. Contractor shall include in his price the cost of conforming to the Trench Safety Act.

1.15 PROJECT SCHEDULE

A. The Contractor shall develop and submit to the Engineer and Owner for approval an initial progress schedule and a construction phasing plan demonstrating complete fulfillment of all contract requirements including all activities of subcontractors, equipment vendors and suppliers. An updated schedule shall be submitted with each pay request.

1.16 TEST OR OPERATION

A. Upon completion of work, it shall be the Contractor’s responsibility to turn the installation over to the Owner in good operating condition. This shall be demonstrated by a test run of the system by the Contractor in the presence of the Owner and/or Engineer.

1.17 REMOVAL OF ALL TEMPORARY FACILITIES & RESTORATION OF SITE

A. Upon completion of the work, it shall be the responsibility of the Contractor to remove all temporary facilities including but not limited to pumps, fences, signs, temporary power, materials or other debris. The site, adjacent properties and Owner facilities, shall be restored to condition equal to that before Work began.

1.18 RECORD DOCUMENTS

A. The Contractor shall maintain on site one set of the following record documents for use to record actual revision to the Work:

1. Exhibits

2. Specifications

3. Addenda

4. Change Orders and other modifications to the Contract

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5. Approved Shop Drawings, product data, and samples

B. The Contractor shall provide As Built Redline Drawings for partial releases and final release submittals. With each submittal provide survey data, signed and sealed by the Contractor's Florida Licensed Surveyor, to support elevation information depicted or the record drawings.

The final record drawings shall correctly and accurately show all the new installation reflecting surveyed information performed, signed and sealed by a professional land surveyor and mapper registered in the State of Florida. The drawings shall be neat and legible. All elevations shall be based on State Plane Coordinates NAVD-88 Datum. Record drawings shall comply with Nassau County Engineering Services As-Builts Requirement Checklist.

C. Upon completion of the project, final record drawings will be provided to the Owner on CD-ROM, AutoCAD DWG format, along with one set of PDF (24"x36") along with a complete set of all survey data, signed and sealed by a professional Land Surveyor and Mapper in the State of Florida.

D. Engineer-of-Record\Owner reserves the right to review Contractor's As-Built drawings during course of construction.

E. Final pay and connections to any existing utility main will not be approved until Record Drawings are approved and accepted by Engineer-of-Record\Owner.

1.19 PROVISION FOR THE CONTROL OF DUST

A. The Contractor shall take the necessary steps to prevent objectionable blowing or drifting of dust, sand, and other debris where the construction occurs in residential, commercial, or other developed areas.

B. Extreme precautions shall be taken during construction to minimize the amount of dust created. Wetting the site or other means as directed by the Owner, may be required for control of dirt.

1.20 OBSTRUCTION

A. The attention of the Contractor is drawn to the fact that during construction at the project site, the Contractor will encounter electrical lines. The Contractor shall exercise extreme care before and during construction to locate and flag these lines so as to avoid damage to the existing lines. Should damage occur to an existing line, the Contractor shall repair the line at no cost to the Owner.

B. It is the responsibility of the Contractor to ensure that all utility or other poles, the stability of which may be endangered by the close proximity of construction, are temporarily stayed in position while the work proceeds in the vicinity of the pole

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and that the utility or other companies concerned be given reasonable advance notice of any such construction activities by the Contractor.

1.21 CLEAN-UP

A. The Contractor shall maintain the site of the work in a neat condition. The Contractor shall remove all excess materials, excess excavated materials and all debris resulting from his operations within a time frame approved by the Engineer.

1.22 DESIGN PROFESSIONALS REPRESENTING OWNER

A. Various Design Professionals (i.e., Civil, Mechanical, Electrical, etc.) as consultants to the Owner prepared the specifications for the project. The Owner may have the various Design Professionals provide services to the Owner during construction phase of the project. The Design Professionals will be representatives of the Owner and visits to the site by the Design Professionals will be on the basis of paragraph 1.22 of this section. Also, paragraph 1.23 of this section includes the various Design Professionals for this project.

1.23 VISITS TO SITE BY OWNER'S REPRESENTATIVE

A. The Owner's representative will make visits to the site at intervals appropriate to the various stages of construction to observe the progress and quality of the executed work and to determine, in general, if the work is proceeding in accordance with the Contract Documents.

B. The Owner's representative's efforts will be directed toward providing for the Owner a greater degree of confidence that the completed work will conform to these specifications. On the basis of such visits and on-site observations, the Owner's representative will keep the Owner informed of the progress of the work and will endeavor to guard the Owner against defects and deficiencies in the work.

1.24 LIMITATIONS ON OWNER'S REPRESENTATIVE RESPONSIBILITIES

A. Neither the Owner's representative's authority to act under these specifications or elsewhere in other documents nor any decision made by the Owner's representative in good faith either to exercise or not exercise such authority shall give rise to any duty or responsibility of the Owner's representative to the Contractor, any sub-Contractor, any manufacturer, fabricator, supplier or distributor, or any of their agents or employees or any other person performing any of the work.

B. The Owner's representative shall not be responsible to the Contractor's means, methods, techniques, sequences or procedures of construction, or safety precautions and programs incident thereto, and the Owner's representative shall not be responsible for the Contractor's failure to perform the work in accordance with these specifications.

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C. The Owner's representative shall not be responsible for the acts or omissions of the Contractor or of any sub-Contractors, or of any other persons at the site or otherwise performing any of the work.

1.25 WARRANTY

A. The Contractor shall be responsible for defects in materials (including latent defects) or workmanship for a period of two years after the date of final acceptance of the project by the Owner. Such defects include, but not limited to, any settlement noted in backfill, fill, or in structures built over the backfill or fill during the warranty period in accordance with the General Conditions will be considered to be caused by improper compaction methods and shall be corrected by the Contractor at no cost to the Owner. Structures damaged by settlement shall be restored to their original condition by the Contractor at no cost to the Owner.

B. The Contractor shall furnish factory warranty on all equipment furnished for the performance and completion of the project against defects in materials and/or workmanship. The factory warranty shall become effective for a period of two years after the date of final acceptance of the project by the Owner. Should any defects in materials or workmanship be brought to the attention of the Contractor within the factory warranty period, the Contractor shall replace at no cost to the Owner.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 11 00

SUMMARY OF WORK

PART 1 – GENERAL

1.01 LOCATION OF WORK: The project site is at the following locations in Nassau County, Florida: William Burgess Boulevard Extension form west of US17 to Miner Road.

1.02 DESCRIPTION OF WORK: This project will include the extension of William Burgess Boulevard (WBB) from US17 to Miner Road. The roadway extension is an urban typical section that primarily includes two traffic lanes, curb and gutter, sidewalks, a shared use path (SUP), and a landscaped median. There is roadway widening and resurfacing required to tie-in US17, the west approach to WBB and the east connect to Miner Road. The intersection improvements include US 17, a roundabout at Theresa Court and a roundabout at Miner Road. Infrastructure improvements include drainage conveyance, stormwater pond facilities, new JEA utilities (16" watermain and 16" dry sanitary force Main), street lighting, signalization, irrigation, and utility relocations/protections. Most of the project is a new roadway alignment extension requiring tree clearing and grubbing, and earthwork embankment within new County ROW limits that also extend adjacent to the Yulee High and Middle School property. The work requires adherence to all applicable sections of Nassau County Standard Specifications, FDOT 2023/24 Standards/Specifications and JEA 2022 Water and Wastewater Standards/Specifications in addition to Contract plan and specification documents.

1.03 CONTRACTOR'S DUTIES: Except as specifically noted, the Contractor shall provide and pay for the following:

A. All labor, materials and equipment.

B. Tools, construction equipment and machinery.

C. Utilities required for construction.

D. Other services and facilities necessary for the proper execution of work completion including incidental items not detailed or called for, but which are required for the proper completion of the project.

E. All legally required sales, consumer and use taxes.

F. All applicable permits, government fees and licenses.

G. Survey services for construction layout including equipment, piping, fitting, valve laying schedule and record drawings shall comply with Nassau County Engineering Services As-Builts Requirement Checklist.

H. All required testing and clearances for placing in service.

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I. Restore all sites and structures that are damaged by the Contractor during the execution of this contract at no additional cost to the Owner.

1.04 CONTRACTOR SHALL ALSO BE REQUIRED TO PERFORM THE FOLLOWING:

A. Comply with all codes, ordinances, rules, regulations, orders and other legal requirements of public authorities which bear on the performance of work.

B. Promptly submit written notice to the Engineer of observed variances of Contract Documents from legal requirements; it is not the Contractor's responsibility to make certain drawings and specifications comply with codes and regulations.

C. Enforce strict discipline and good order among employees. Do not employ unfit persons or those not skilled in assigned tasks.

1.05 WORK SEQUENCE:

A. Coordinate with Owner.

B. Contractors' construction schedule will be subject to approval by the Engineer and updated on a monthly basis.

C. Notify Engineer and Owner 96 hours (minimum) in advance of removing any facility from service, permanently or temporarily. Removal from service of any facility shall be preapproved by Owner.

1.06 CONTRACTORS USE OF PREMISES:

A. Do not unreasonably encumber sites with materials or equipment.

B. Assume full responsibility for protection and safekeeping of products stored on premises.

C. Move any stored products interfering with operation of Owner.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 22 50

MEASUREMENT AND PAYMENT

GENERAL

1.01 SUMMARY

A. Work under this Contract shall be paid as designated below under the appropriate items associated with the Bid Schedule. Payment shall be in accordance with Lump Sum or Unit Price bid by the Contractor in his proposal.

B. When Lump Sum prices are contained in the Bid Schedule, the Contractor shall provide a detailed schedule of values for Lump Sum cost acceptable to the County, which will be used for estimating partial payment requests.

C. Contractual costs for work not specifically mentioned under a payment item and which are incidental to the overall conduct of the work shall be included in the individual items at the Contractor's option. No additional charges shall be made to the County for items not specifically mentioned under individual payment items. Examples of these types of costs include, but are not limited to, the following: bonds, insurance, permits, licenses, traffic control, dust control, clean-up, temporary access, temporary facilities, soil erosion control, temporary drainage, temporary offices, restoration of disturbed areas, temporary utilities, test pits locating existing utilities, temporary water and sewer, surveying, layout, and other items similar to above.

D. The description of pay items is as detailed under referenced in the latest standards at time of bid for FDOT, JEA and County. County approach to payment will control as detailed in these specifications.

1.02 TYPICAL PAYMENT ITEM COSTS

A. No separate payment will be made for the following items. The cost of such work shall be included in the unit price of applicable pay items listed in the Bid Schedule unless otherwise noted in the construction plans:

1. Clearing and grubbing including removal and disposal of all above and below ground improvements such as but not limited to trees, roadway pavement, concrete, drainage and utilities systems, etc. unless otherwise specified.

2. Dewatering and disposal of surplus water, prevention of sediment and erosion pollution and prevention of flooding

3. Structural fill, backfill, including furnishing, placement, compaction and final grading of suitable fill material, pipe bedding and compacted granular material.

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4. The temporary removal and replacement of fences and walls.

5. Foundation and borrow materials, except as otherwise specified.

6. Paved and unpaved roadway restoration or replacement including but not limited to all disturbed improvements within the right of way, adjacent traffic signal system components included within the limits of lump sum work, unless otherwise specified.

7. Shoring, sheeting and worksite safety.

B. Methods of Measurement - Generally:

1. Units of measurement shall be defined in general terms as follows:

Linear Feet (LF)

Square Feet (SF)

Square Yards (SY)

Cubic Yards (CY)

Each (EA)

Sacks (SK)

Lump Sum (LS)

Acres (AC)

2. Unit Price Contracts/Items:

Linear Feet (LF) shall be measured along the horizontal length of the centerline of the installed material, unless otherwise specified. Pipe shall be measured along the length of the completed pipeline, regardless of the type of joint required, without deduction for the length of valves or fittings. Pipe included within the limits of lump sum items will not be measured.

Square Feet (SF), Square Yards (SY), Cubic Yards (CY), Each (EA), Acres (AC) and Sacks (SK) shall be measured as the amount of the unit of measure installed and compacted within the limits specified and shown in the Specifications and Drawings. Slope angles and elevations shall be measured using land-surveying equipment. CONTRACTOR shall provide supporting documentation (i.e. drawings, delivery tickets, invoices, survey calculations, etc.) to verify actual installed quantities.

C. Lump Sum Contracts/Items - Generally:

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Quantities provided in the Schedule of Values are for the purpose of estimating the completion status for progress payments. Payment will be made for each individual item on a percentage of completion basis as estimated by the Contractor and approved by the County

Adjustments to costs provided in the accepted Schedule of Values may be made only by Change Order.

The County reserves the right to delete any item included in the Schedule of Values and decrease the Contract Price by the scheduled amount for the item deleted.

1.01 BID ITEMS MEASUREMENTS

1. **MOBILIZATION:** Perform preparatory work and operations in mobilizing for beginning work on the project, including, but not limited to, those operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site and for establishment of temporary offices, buildings, safety equipment and first aid supplies, and sanitary and other facilities. Include any required insurance and any other preconstruction expense necessary for the start of the work, excluding the cost of construction materials. Payment may be made as follows: Twenty percent (20%) may shall be requested at the start of construction. Payment for the remainder of mobilization will be made based on the percentage completion of the total project. The Contractor shall submit partial pay requests for Mobilization based on the percent of the total Project completed to date. The lump sum price shall not exceed 5% of the Bid Price request (i.e., if payment for 30% of the work is approved, the Contractor shall be paid for 30% of the total Lump Sum amount for Mobilization). The lump sum price shall not exceed 5% of the Bid Price.

2. **MAINTENANCE OF TRAFFIC:** Measurement and payment of this item is lump sum and includes all items of work or material required to maintain pedestrian and vehicular traffic including but not limited to signs, temporary asphalt, business signs, temporary signing, tubular markers, metal sheeting, striping, temporary striping, temporary tape, drums, RPM's, eradication of existing striping, removal of temporary striping or tape to shift traffic between different phases of work, re-application of striping or tape as necessary to maintain the traffic control detour, utility boxes to be removed and replaced with traffic bearing boxes for detours or lane shifts and the adjustment of these utility boxes to finished grade after traffic control detour is complete and any other work required to provide a safe detour around the working area per FDOT Standard Index 102-600 Series. Payment will be made based on a percentage of the total work completed.

3. **EROSION CONTROL:** Measurement and payment of this item is lump sum and includes all items of work to comply with NPDES best management practices to prevent runoff from project site and includes all work outlined in the project general notes, erosion control general notes, erosion control details and erosion control plan sheets. Items include silt fence, turbidity barrier,

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protection around inlets, synthetic bales, stabilization measures, provisions to avoid tracking dirt to existing roadways, and other erosion controls. Payment will be made based on a percentage of the total work completed. Payment will be made based on a percentage of the total work completed.

4. ASPHALT CONCRETE FRICTION COURSE AND SUPERPAVE ASPHALTIC CONCRETE: Items to meet FDOT requirement, measurement is in tonnage. Contractor will utilize a shuttle buggy (material transfer device) to meet the FDOT Specification 330-9 Surface Requirements for all of the mainline roadway asphalt operations.

5. CONCRETE SIDEWALK / DRIVEWAY AND RELATED PAY ITEMS: Measurement and payment includes sidewalks, parking areas and driveways as well as all landscape curbs required at curb cut ramps (Note curb ramps are constructed w 6" concrete. This quantity is included as 4" sidewalk). The quantity will be field accepted and installed. This item is to include the cost of material testing as required per specification and as specified in the plans. The items are to also include all commercial material required to provide access to businesses and residences while reconstructing the roadway and driveway.

6. DETECTABLE WARNING: Measurement and payment OF detectable warning mats are associated with pedestrian ramps and will be based on the field measured square feet, accepted, and installed. This item is to be on approved product list. All of the pedestrian detection mats will be yellow and wet set in the concrete, type to be approved by the County Engineer.

7. CONCRETE PAVERS (FURNISH AND INSTALL): Measurement and payment will be based on the field measured square yard quantity accepted and installed. This item is to include furnishing and installing the concrete sidewalk or roadway pavers, grading the area, placing, and compacting and provision of the crushcrete base per plan, furnishing and installing the sand and cement paver bed, installing the pavers and installing mason's joint sand between the paver joints. This item is to also include the cost to construct concrete band (edge restraint 6" wide x8" deep), adjacent to landscaping (median and seating plaza areas).

8. CHAIN LINK FENCE (FURNISH AND INSTALL): Measurement and payment for fence to be furnished installed shall be paid for in linear feet based upon the field measured quantity installed. This item shall include all fence panels, supports, posts, concrete, screws, and other fasteners required as well as labor to install the fence per FDOT/County standards.

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10. **FENCE (30' GATE):** Measurement and payment for gate to be furnished installed shall be paid for as each.

11. **CLEARING AND GRUBBING (includes tree clearing):** Measurement and payment of this item is lump sum and includes all items of work or material required to remove and dispose of and / or abandon the following items: roadway material, asphalt, limerock, concrete driveways, concrete sidewalk, drainage structures, manholes, inlets, storm sewer piping, sanitary sewer manholes, bollards, wooden poles, shrubs, sod, all trees, landscaping, irrigation, relocate irrigation lines and / or sprinkler heads, adjust irrigation lines or sprinkler heads, miscellaneous wooden poles, guardrail, fencing (Tobe delivered to the County), power poles to be removed or relocated, mailboxes, conrete weirs on south side of WBB by the school and all utility boxes and services as shown in the contract plans. Payment will be made based on a percentage of the total work completed.

12. **MOWING OF GRASS**: The Contractor shall mow the grass at least once per month or more often if conditions dictate and when directed by the Engineer. Mowing shall continue until final inspection and acceptance of the project by the County for maintenance. Payment for mowing shall be by the acre.

13. **REGULAR EXCAVATION & FILL**: Regular excavation and fill shall be in accordance with FDOT standard specifications, except as modified herein. Regular Excavation and Fill shall include the excavation, hauling and disposal of suitable and unsuitable material for all planned construction, including, but not limited to, roadway, ditches, pipes, ponds, drainage, water, sewer construction, and dewatering to the final grade shown on the plans and/or soil borings. Regular Excavation and Fill shall also include the excavation, hauling and disposal of unsuitable material below the final grade shown on the plans and/or soil borings (limits of under-cut) and backfill with suitable material, when the limits of unsuitable material (limits of under-cut) are shown on the plans and/or soil borings. Fill or embankment for roadway and ponds shall be placed in accordance with the grades and sections as shown on the plans, or as directed by the Engineer, and shall also be included and paid for at the Cubic Yard Price for Regular Excavation and Fill. Costs for hauling and disposal of unsuitable materials that are excavated to the final grade shown on the plans, or to under-cut levels as shown on the plans and/or soil borings, shall be included in the Cubic Yard Price for Regular Excavation and Fill. Payment for backfill to construct drainage structures and pipes shall be included in the unit bid prices for those items and shall include all material within the construction trench, from the bottom of the structure or pipe to the top of the stabilized sub-grade.

14. **SUITABLE MATERIAL**: All suitable material encountered during regular excavation shall be stockpiled for use as backfill material on the project. No separate payment will be made for using backfill material obtained on the project from regular excavation. Excess suitable material at the end of the project shall become the property of the Contractor and be removed from the site by the Contractor at no additional cost to the Contract.

15. **UNSUITABLE MATERIAL**: All unsuitable material encountered during regular excavation which is clearly shown and delineated on the Plans, soil borings or in the Bid Documents shall become the property of the Contractor and shall be removed and disposed of properly. Payment for the hauling and disposal of these known unsuitable materials shall be included in the Lump Sum Price for Regular Excavation and Fill. Where unsuitable material shown in the plans and/or

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soil borings is to be replaced, suitable material obtained elsewhere by regular excavation shall be used as backfill at no additional cost to the Contract. If the plans and/or soil borings do not indicate sufficient quantities of suitable material from regular excavation, imported Class A-3 sand shall be used, and the cost thereof included in Regular Excavation and Fill.

All unsuitable material encountered during regular excavation which is not shown and delineated on the Plans, soil borings or in the Bid Documents shall become the property of the Contractor and shall be removed and disposed of properly. Payment for the hauling and disposal of these unknown unsuitable materials shall be made at the contract unit price for Hauling and Disposal of Unsuitable Material (Contingency) measured in-place. Where unsuitable material not shown in the plans and/or soil borings is to be replaced, suitable material obtained elsewhere by regular excavation shall be used as backfill at no additional cost to the Contract. If the plans and/or soil borings do not indicate sufficient quantities of suitable material obtained from regular excavation, imported Class A-3 sand shall be used. Payment for the importation and placement of A-3 sand shall be made at the contract unit price for A-3 Sand (Contingency) measured in-place.

16. **OVER EXCAVATION (CONTINGENCY):** In the event the Contractor encounters unforeseen additional unsuitable material at or below the final grade required by regular excavation, including below the under-cut limits shown on the plans, soil borings or areas of over excavation showing suitable material, the Contractor shall remove this material, if approved by the Engineer, and dispose of it properly. Payment for excavating this work shall be made at a negotiated unit price for Over Excavation (Contingency) measured in-place. Payment for the hauling and proper disposal of this unsuitable material shall be included in the contract Unit Price for Hauling and Disposal of Unsuitable Material (Contingency).

    Backfill for Over Excavation (Contingency) shall first be obtained from suitable material acquired elsewhere from regular excavation. No separate payment will be made for suitable material acquired by Regular Excavation.

17. **A-3 SAND BACKFILL (CONTINGENCY)**If suitable material is not available on-site due to reasons listed in above paragraphs, then the Contractor shall import A-3 Sand to the project to meet the need for fill and backfill as directed by the Engineer. Payment for the importation, placement and compaction of A-3 Sand shall be made at a negotiated unit price for A-3 Sand Backfill (Contingency), measured in-place. However, payment for A-3 Sand Backfill (Contingency) will not be made when suitable material obtained from regular excavation is not available due to the Contractor's sequence of work.

18. **CONCRETE SIDEWALK / DRIVEWAY AND RELATED PAY ITEMS**: Measurement and payment includes sidewalks, parking areas and driveways as well as all landscape curbs required at curb cut ramps and detectable warning mats associated with pedestrian ramps and will be based on the field measured square yard quantity, square feet for detectable warning mats, accepted and installed. This item is to include the cost of material testing as required per specifications. These items are to also include all commercial asphalt material (millings) required to provide access to businesses and residences that maybe required during the reconstruction of roadway and driveway.

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19. **CONCRETE PAVERS (FURNISH AND INSTALL)**: Measurement and payment will be based on the field measured square yard quantity accepted and installed. This item is to include furnishing and installing the sidewalk or roadway pavers, grading the area, placing and compacting the crushcrete/or limerock base per plan, furnishing and installing the sand and cement paver bed, installing the pavers and installing mason's joint sand between the paver joints. This item is to also include the cost to construct all concrete bands or concrete wedges to restrain the pavers as shown in the plan details.

20. **CONCRETE GRAVITY WALL:** Measurement and payment for the concrete gravity wall shall be paid for based on the field measured and installed quantity. The pay item shall include all excavating, forming, compacting, grading as required to construct the wall as shown in the contract construction plans. This item is to include all concrete and rebar as shown in the FDOT Standard Plans Index 400-011.

21. **DRAINAGE STRUCTURES:** Measurement and payment for all drainage related pay items to include inlets, open flumes, closed flumes, curb inlets, grate inlets, catch basins and manholes to be furnished and installed or adjusted to be paid for as each for the number completed and accepted by engineer. Item to include all work necessary to adjust, excavate, and compact to required density and backfill area or to adjust to finished grades specified in plans. This item is to also include all density testing as required per specifications when filling in the excavated area around the drainage structure.

22. **DRAINAGE PIPE**: Measurement and payment of drainage pipe furnished and installed will be based on the actual number of linear feet installed and accepted with no increases in pay adjustments considered. Item to include plugging proposed pipes as required in contract plans. Item to include all work necessary to excavate, compact to required density and backfill area to finished grades as specified in plans and connect to existing inlets as required in the plans. Item to also include any necessary maintenance of traffic, commercial material, steel plating, sheet pile, trench shoring, barrier wall, dewatering, and ADA compliant material required to provide access to local traffic and businesses during construction. This item is to also include all density testing as required per specifications when filling in the trench after installing the drainage pipe.

23. **LIGHTING CONDUCTORS AND CONDUIT:** Measurement and payment of lighting conduit for payment will be the horizontal distance in linear feet with no deduction made for those spaces occupied by manholes, service connection boxes (SCB's) or other appurtenances. Payment for lighting conductors and conduit will be at the unit price stated in the Contract for the size and class of conduit (schedule 40), type of material, and depth of conduit installed, measured as previously specified. Lighting conductors will be paid for in linear feet, and to include 5 feet of slack at each service connection box (SCB) location. All payment for runs of conductor to include ground wire.

24. **ELECTRIC SERVICE CONNECTION BOXES (SCB'S) – INSTALL:** Measurement and payment of electric service connection boxes will be paid for as each based on the actual number installed and accepted. The service connection boxes to be installed will be furnished by the contractor meeting utility requirements.

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25. **LIGHT POLE FURNISH AND INSTALL:** Measurement and payment of Nema head lighting furnished and installed shall include the furnishing and installation of all necessary components for the correct functioning of the light to include but not limited to luminaire and fixture. Use 1914LED-RLM431-3L40T3-MDL09-A, service connection box and will be paid for as each based on actual quantity installed and accepted.

26. **SOD:** All roadway work shall require a minimum of sixteen (16) inches of sod adjacent to the edge of pavement (see roadway typical sections in the standard details). Grasses shall be Argentine Bahia, Bermuda or an approved alternative. Winter Rye and/or Millet may be mixed for protection until germination. Grasses shall be fully established and free of disease and damaging insects prior to County approval of the project. All soil preparation, grassing, mulching, sod and watering shall meet F.D.O.T. Specifications for material and method of construction as referenced under Performance turf (SOD). Sodding shall include all materials including topsoil, excavation, necessary site preparation, grading, and placement and all labor and equipment required for installation. No separate measurement or payment shall be made for topsoil w exception of the added topsoil pay item intended required in the median islands.

27. **BENCHES:** Measurement and payment for item shall be paid for EA. Bench installation to include concrete footer, and all necessary hardware.

28. **TRASH RECEPTACLE:** Measurement and payment for item shall be paid for EA. Bench installation to include concrete footer, and all necessary hardware.

29. **TWELVE MONTH MAINTENANCE:** Measurement and payment for item shall be paid for EA. Maintenance will start after final acceptance of all the landscaping and irrigation installed.

30. **NEW TOPSOIL:** New topsoil will be fertile, friable, naturally loamy, surface soil, reasonably free of subsoil, clay lumps, brush, weeds and other litter and free of roots, stumps, stones larger than 2" in any dimension, and other extraneous or toxic matter harmful to plant growth. Obtain topsoil from local source to be approved by Engineer.

31. **FURNISHING AND INSTALL WATER AND SEWER TO JEA STANDARD**: Measurement and Payment will be the actual number of linear feet of each size, class and type of pipe installed and accepted. Measurement shall be made along the horizontal projection of the center line of pipe. No deduction in length will be made for the space occupied by valves or fittings. Payment for the work will be at the Contract Unit Price shown for each respective item and shall be full compensation for the item of work completed, including all required removal of grassing; excavation; de-watering; native soil backfilling and compaction and density testing when backfilling,; A-3 soil fill replacement if required; laying and jointing pipe; pressure testing; flushing and disinfecting including ½" temporary sample taps; de-chlorination (if required); furnishing and placing steel decking over excavations; all sheeting, shoring, and bracing required to maintain excavations in a safe condition; protecting existing structures, utilities and property both public and private; cleaning up the site; furnishing and installing, restrained joints as required, locate wiring, locate wire test stations, locate wire-related appurtenances and locate wire testing; furnishing all material, labor, tools, and equipment; as-builts; and all incidental and related work required to complete the work of the item. No additional payment shall be made for vertical deflection of the proposed pipeline to

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accommodate the vertical installation (minimum required cover) of the pipeline, but all costs shall be merged.

32. **JEA MAINTENANCE OF TRAFFIC (MOT) AT US17 AND MINER RD:** Measurement and payment of this item is lump sum and includes all items of work or material required to maintain pedestrian and vehicular traffic including but not limited to signs, temporary asphalt, business signs, temporary signing, tubular markers, metal sheeting, striping, temporary striping, temporary tape, temporary wall, temporary crash cushions, portable change message signs, drums, RPM's, eradication of existing striping, removal of temporary striping or tape to shift traffic between different phases of work, re-application of striping or tape as necessary to maintain the traffic control detour, utility boxes to be removed and replaced with traffic bearing boxes for detours or lane shifts and the adjustment of these utility boxes to finished grade after traffic control detour is complete and any other work required to provide a safe detour around the working area per FDOT Standard Index 102-600 Series. Payment will be made based on a percentage of the total work completed. Note: Contractor to coordinate lane closures with Yulee/Middle School/County Engineer, as they do not want the school traffic to be impacted by construction. Contractor will need to plan any lane closure need outside active school hours.

33. **JEA GENERAL CONDITIONS:** Refer to JEA Technical Spec and Contract Requirements for applicable items to be included.

END OF SECTION

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SECTION 01 29 73

SCHEDULE OF VALUES

PART 1 - GENERAL

1.01 DESCRIPTION

A. Scope of Work:

1. Submit to the Engineer a Schedule of Values allocated to the various lump sum portions of the Work, at the Pre-Construction Conference, and as otherwise specified or requested to be submitted earlier as evidence of the Apparent Low Bidder's qualifications.

2. Upon request of the Engineer support the values with data which will substantiate their correctness. The data shall include, but not be limited to quantity of materials, all sub-elements of the activity, and their units of measure.

3. The Schedule of Values shall establish the actual value for each activity of the Work to be completed taken from the Construction Schedule and shall be used as the basis for the Contractor's Applications for Payment.

B. Related Requirements Described Elsewhere:

1. Section 01 29 76 Application for Payment

1.02 FORM AND CONTENT OF SCHEDULE OF VALUES

A. Type schedule on 8-1/2-inch x 11 inch white paper. Contractor's standard forms and computer printouts may be considered for approval by the Engineer upon Contractor's request. Identify schedule with:

1. Title of project and location.

2. Owner and purchase order number.

3. Engineer and project number.

4. Name and address of Contractor.

5. Contract designation.

6. Date of submission.

B. Schedule shall list the installed value of the component parts of the Work in

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sufficient detail to serve as a basis for computing item prices for progress payments during construction.

C. Identify each line item with the number and the title of the respective section of the Specifications.

D. For each major item of the Work, list sub-values of major products or operations under the major item.

E. For the various portions of the Work:

1. The amount for each item shall reflect a total installed cost including a directly proportional amount of the Contractor's overhead and profit.

2. For items on which progress payments will be requested for stored materials, break down the value into:

a. The cost of the materials, delivered and unloaded, with taxes paid. Paid invoices are required for materials. Payment for materials shall be limited to the invoiced amount only.

b. The total installed value.

F. Round off figures to nearest dollar amount.

G. The sum of the costs of all items listed in the schedule shall equal the total Contract Price.

H. For each item which has an installed value of more than $15,000, provide a breakdown of costs to list major products or operations under each item.

1.03 SUBSCHEDULE OF UNIT MATERIAL VALUES

A. Submit a separate schedule of unit prices for materials to be stored on site and for those materials incorporated into the Work for which progress payments will be requested.

B. The unit values for the materials shall be broken down into:

1. Cost of the material, delivered and unloaded at the site, with taxes paid.

2. Copies of paid invoices for component material shall be included with the payment request in which the material first appears.

C. Only materials unique to the project may be billed when stored on site. Materials of standard use such as conduit, wire, small-diameter pipe, steel, etc., shall not be

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accepted for payment.

D. The installed unit value multiplied by the quantity listed shall equal the percentage of the cost of that item in the Schedule of Values.

1.04 REVIEW AND RESUBMITTAL

A. After review by Engineer, revise and resubmit Schedule of Values and Schedule of Unit Material Values as required.

B. Resubmit revised schedules in same manner.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 29 76

APPLICATIONS FOR PAYMENT

PART 1 - GENERAL

1.01 SECTION INCLUDES:

A. Administrative and procedural requirements governing the Contractor's Applications for Payment.

1.02 SCHEDULE OF VALUES:

A. Coordination: Coordinate preparation of the Schedule of Values with preparation of the Contractor's Construction Schedule.

1. Correlate line items in the Schedule of Values with other required administrative schedules and forms, including:

a. Contractor's Construction Schedule.

b. Application for Payment forms, including Continuation Sheets.

c. List of subcontractors.

d. Schedule of allowances.

e. Schedule of alternates.

f. List of products.

g. List of principal suppliers and fabricators.

h. Schedule of submittals.

2. Submit the Schedule of Values to the Engineer at the earliest possible date but no later than 7 days before the date scheduled for submittal of the initial Applications for Payment.

3. Subschedules: Where Work is separated into phases requiring separately phased payments, provide subschedules showing values correlated with each phase of payment.

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B. Format and Content: Use the Project Manual table of contents as a guide to establish the format for the Schedule of Values. Provide at least one line item for each Specification Section.

1. Identification: Include the following Project identification on the Schedule of Values:

   a. Project name and location.

   b. Name of the Engineer.

   c. Project number.

   d. Contractor's name and address.

   e. Date of submittal.

2. Arrange the Schedule of Values in tabular form with separate columns to indicate the following for each item listed:

   a. Related Specification Section or Division.

   b. Description of Work.

   c. Name of subcontractor.

   d. Name of manufacturer or fabricator.

   e. Name of supplier.

   f. Change Orders (numbers) that affect value.

   g. Dollar value of both labor and materials.

3. Provide a breakdown of the Contract Sum in sufficient detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with the Project Manual table of contents. Break principal subcontract amounts down into several line items.

4. Round amounts to nearest whole dollar; the total shall equal the Contract Sum.

5. Provide a separate line item in the Schedule of Values for each part of the Work where Applications for Payment may include materials or equipment, purchased or fabricated and stored, but not yet installed. Differentiate

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between items stored on-site and items stored off-site. Include requirements for insurance and bonded warehousing, if required.

6. Provide separate line items on the Schedule of Values for initial cost of the materials, for each subsequent stage of completion, and for total installed value of that part of the Work.

7. Unit-Cost Allowances: Show the line-item value of unit-cost allowances, as a product of the unit cost, multiplied by the measured quantity. Estimate quantities from the best indication in the Contract Documents.

8. Schedule Updating: Update and resubmit the Schedule of Values prior to the next Applications for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum.

1.03 APPLICATIONS FOR PAYMENT:

A. Each Application for Payment shall be consistent with previous applications and payments as certified by the Engineer and paid for by the Owner. The initial Application for Payment, the Application for Payment at time of Substantial Completion, and the final Application for Payment involve additional requirements.

B. Payment-Application Times: The date for each progress payment is the 15th day of each month. The period covered by each Application for Payment starts on the day following the end of the preceding period and ends 15 days prior to the date for each progress payment.

C. Payment-Application Forms: Use forms provided by the Owner for Applications for Payment. Same copies are included in Section 00 62 76 - Application and Certificate for Progress Payment.

D. Application Preparation: Complete every entry on the form. Include notarization and execution by a person authorized to sign legal documents on behalf of the Contractor. The Engineer will return incomplete applications without action.

1. Entries shall match data on the Schedule of Values and the Contractor's Construction Schedule. Use updated schedules if revisions were made.

2. Include amounts of Change Orders and Construction Change Directives issued prior to the last day of the construction period covered by the application.

E. Transmittal: Submit 3 signed and notarized original copies of each Application for Payment to the County by a method ensuring receipt within 24 hours. One copy shall be complete, including waivers of lien and similar attachments, when required.

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F. Waivers of Mechanics Lien: With each Application for Payment, submit waivers of mechanics liens from subcontractors, sub-subcontractors and suppliers for the construction period covered by the previous application.

1. Submit partial waivers on each item for the amount requested, prior to deduction for retainage, on each item.

2. When an application shows completion of an item, submit final or full waivers for such items.

3. Waiver Forms: Submit waivers of lien on forms provided herein, and executed as indicated.

4. Waiver Forms: Submit waivers of lien on forms which comply with State statutes, and executed in a manner, acceptable to the Owner.

G. Initial Application for Payment: Administrative actions and submittals, that must precede or coincide with submittal of the first Application for Payment, include the following:

1. List of subcontractors.

2. List of principal suppliers and fabricators.

3. Schedule of Values.

4. Contractor's Construction Schedule (preliminary if not final).

5. Schedule of principal products.

6. Schedule of unit prices.

7. Submittal Schedule (preliminary if not final).

8. List of Contractor's staff assignments.

9. List of Contractor's principal consultants.

10. Copies of building permits.

11. Copies of authorizations and licenses from governing authorities for performance of the Work.

12. Initial progress report.

13. Report of preconstruction meeting.

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14. Certificates of insurance and insurance policies.

15. Performance and payment bonds.

16. Data needed to acquire the Owner's insurance.

17. Initial settlement survey and damage report, if required.

H. Application for Payment at Substantial Completion: Following issuance of the Certificate of Substantial Completion, submit an Application for Payment.

1. This application shall reflect Certificates of Partial Substantial Completion issued previously for Owner occupancy of designated portions of the Work.

2. Administrative actions and submittals that shall precede or coincide with this application include:

a. Occupancy permits and similar approvals.

b. Warranties (guarantees) and maintenance agreements.

c. Test/adjust/balance records.

d. Maintenance instructions.

e. Meter readings.

f. Startup performance reports.

g. Changeover information related to Owner's occupancy, use, operation, and maintenance.

h. Final cleaning.

i. Application for reduction of retainage and consent of surety.

j. Advice on shifting insurance coverages.

k. Final progress photographs.

l. List of incomplete Work, recognized as exceptions to Architect's Certificate of Substantial Completion.

I. Final Payment Application: Administrative actions and submittals that must precede or coincide with submittal of the final Application for Payment include the following:

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1. Completion of Project closeout requirements.
2. Completion of items specified for completion after Substantial Completion.
3. Ensure that unsettled claims will be settled.
4. Ensure that incomplete Work is not accepted and will be completed without undue delay.
5. Transmittal of required Project construction records to the Owner.
6. Certified property survey.
7. Proof that taxes, fees, and similar obligations were paid.
8. Removal of temporary facilities and services.
9. Removal of surplus materials, rubbish, and similar elements.
10. Change of door locks to Owner's access.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 31 13

CONSTRUCTION SCHEDULE

PART 1 - GENERAL

1.01 REQUIREMENTS INCLUDED

A. Within ten (10) days after the Notice to Proceed, prepare and submit to the Engineer an estimated initial construction progress schedule for the work.

B. Submit revised progress schedules on a monthly basis or as necessary.

C. No partial payments shall be approved by the Engineer until there is an approved construction progress schedule on hand.

D. The Contractor shall designate an authorized representative of his firm who shall be responsible for development and maintenance of the schedule and of progress and payment reports. This representative of the Contractor shall have direct project control and complete authority to act on behalf of the Contractor's schedule.

1.02 RELATED REQUIREMENTS

A. Section 01 11 00: Summary of Work

B. Section 01 31 19: Project Meetings

1.03 FORM OF SCHEDULES

A. Prepare schedules in the form of a horizontal bar chart.

1. Provide separate horizontal bar for each trade or operation within each structure or item.

2. Horizontal time scale: in weeks from start of construction and identify the first workday of each month.

3. Scale and spacing: allow space for notations and future revisions.

B. Format of listings: the chronological order of the start of each item of work.

C. Identification of listings: by major specification section numbers as applicable and structure.

1.04 CONTENT OF SCHEDULES

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A. Construction Progress Schedule:

1. Show the complete sequence of construction by activity.

2. Show the dates for the beginning of, and completion of, each major element of construction. Specifically list, but not limited to (shown in no particular order):

   a. Permits and Shop Drawing Submittals

   b. Ordering and Receiving of Materials and Equipment

   c. Inspection of Existing Systems

   d. Major Work Items including Installation of Equipment and Appurtenances

   e. Testing

   f. Restoration

   g. Startup

   h. As-built Drawings

3. Show projected dollar cash flow requirements for each month of construction.

4. Show projected manhour requirements for each month of construction.

B. Submittals Schedule for Shop Drawings. Show:

1. The dates for Contractor's submittals.

2. The dates submittals will be required for Owner furnished products, if applicable.

3. The dates approved submittals will be required from the Engineer. Allow no less than twenty-one (21) calendar days for review and approval of shop drawings and samples by the Engineer. No less than thirty (30) calendar days will be required for major equipment that requires review by more than one engineering discipline.

C. A list of all long lead items (equipment, materials, etc.).

1.05 PROGRESS REVISIONS

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A. Indicate progress of each activity to date of submission by shading a portion of the bar and showing percentage of completion. Show actual percentage of completion for each item as of the 20th day of each month during construction.

B. Show changes occurring since previous submission of schedule:

1. Major approved changes in scope.

2. Activities modified since previous submission.

3. Revised projections of progress and completion.

4. Other identifiable changes.

C. Provide a narrative report as needed to define:

1. Problem areas, anticipated delays, and the impact on the schedule.

2. Corrective action recommended, and its effect.

3 The effect of changes on schedules of subcontractors if applicable.

1.06 SUBMISSIONS

A. Submit an initial schedule to the Engineer within ten (10) days after the Notice to Proceed.

1. The Engineer will review schedules and return review copy within 15 days after receipt.

2. If required, resubmit within five (5) days after return of review copy.

B. Submit four (4) copies of revised monthly progress schedules with that month's application for payment.

1.07 DISTRIBUTION

A. Distribute copies of the reviewed schedules to:

1. Engineer.

2. Job site file.

3. Subcontractors.

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4. Other concerned parties.

5. Owner (two copies).

B. Instruct recipients to report promptly to the Contractor, in writing, any problems anticipated by the projections shown in the schedules.

1.08 CHANGE ORDERS

A. Upon approval of a change order, the approved changes shall be reflected in the next scheduled revision or update submittal by Contractor.

1.09 SCHEDULE MONITORING

A. At not less than monthly intervals or when specifically requested by Engineer, Contractor shall submit to the Engineer of an updated schedule for those activities that remain to be completed.

B. The updated schedule shall be submitted in the form, sequence, and number of copies requested for the initial schedule.

1.10 PROGRESS MEETINGS

A. For the monthly progress meeting, Contractor shall submit a three (3) week look-ahead schedule showing all activities in progress, uncompleted or scheduled to be worked during the three weeks. The three (3) weeks include the current week plus the next two (2) weeks. All activities shall be from the approved schedule and must be as shown on the schedule unless behind or ahead of schedule.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 31 19

PROJECT MEETINGS

PART 1- GENERAL

1.01 DESCRIPTION

A. Scope of Work

1. The Contractor shall cooperate and coordinate with the County to schedule and administer the pre-construction meeting, periodic progress meetings, and specifically called meetings throughout the progress of the Work. The Contractor shall:

a. Prepare agenda for meetings.

2. Representatives of Contractor, subcontractors, and suppliers attending meetings shall be qualified and authorized to act on behalf of the entity each represents.

. The Owner will attend meetings to ascertain that the Work is expedited consistent with Contract Documents and construction schedules.

4. The Engineer shall provide meeting minutes of the pre-construction meeting and each progress meeting in its entirety.

B. Related Requirements Described Elsewhere:

1. Construction Schedules: Section 01 31 13.

1.02 PRE-CONSTRUCTION

A. A preconstruction conference will be scheduled after award of contract and prior to beginning work. This meeting shall be attended by Engineer of Record, the County, and an authorized representative of Contractor.

B. Meeting will consider matters of contract administration and initial construction operations.

C. Contractor shall submit proposed construction schedule prior to or at preconstruction conference; see Section 01 33 23.

1.03 PROGRESS MEETINGS

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A. Periodic progress meetings will be held at a time and place mutually agreed upon at preconstruction conference. A responsible representative of Contractor who can bind Contractor/subcontractor to decisions shall attend. A responsible representative of other subcontractors working on site shall also attend.

B. Meetings will be held to coordinate and expedite progress of work and shall be conducted by Contractor. Contractor and each subcontractor on site shall submit a written report at each meeting indicating:

1. Work progress since last meeting.

2. Upcoming work sequences and schedules.

3. Requests for information.

C. Contractor shall record meeting minutes and shall distribute a written summary of items discussed to all parties involved in the project within 48 hours of each meeting. The written summary shall document all issues discussed and decisions reached at progress meeting.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 32 33

CONSTRUCTION PHOTOGRAPHS

PART 1- GENERAL

1.0.1 SUMMARY

A. This Section specifies administrative and procedural requirements for construction photographs.

1.0.2 SUBMITTALS

A. Submit CDs as specified in Section 01 33 23, Submittals and in PART 3 - this Section.

B. Photographer shall submit a digital sample set of the type and quality required during construction, for review and acceptance by Engineer.

1.0.3 QUALITY ASSURANCE

A. All photographs shall be taken and processed by a qualified photographer with experience in construction photography.

PART 2- PRODUCTS

2.01 PHOTOGRAPHIC REQUIREMENTS

Specified in PART 3, this Section.

PART 3- EXECUTION

3.01. PHOTOGRAPHS

A. Contractor shall be responsible for photographs along the entire construction site to show the existing and general condition of the site prior to construction. Each photo will be required to have a date stamp in the lower right corner.

B. Photographs shall be taken of the following areas and at the following times.

1. Existing Site conditions before Site work is started. Number of views shall be adequate to cover the Site.

2. Finished Project after completion of Work. Number of views shall be adequate to show the finished Work. It is particularly important to provide a view of the restoration of the site upon completion of construction.

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3. If Project is not completed during the Contract Time or authorized extensions, photographs shall continue to be taken at no increase in Contract Price.

C. Digital Images

1. Submit two (2) complete sets of digital image electronic files on a CD prior to starting work.

a. Provide images in JPEG format, with minimum 150 dpi resolutions.

b. Submit images that have same aspect ratio as the sensor, uncropped.

c. The photos shall be labeled electronically on each photograph. The label shall contain the Project Name and Number, date of exposure, and description of view.

d. Each disk submitted shall be labeled with Project name

e. Identify electronic media with date digital photographs were taken

D. Deliver prints to Engineer.

END OF SECTION

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SECTION 01 33 23

SUBMITTALS

PART 1 - GENERAL

1.01 SECTION INCLUDES:

A. Administrative and procedural requirements for submittals required for performance of the Work, including the following:

1. Contractor's construction schedule.

2. Shop Drawings.

3. Product Data.

4. Samples.

5. Quality assurance submittals.

1.02 DEFINITIONS:

A. Coordination Drawings show the relationship and integration of different construction elements that require careful coordination during fabrication or installation to fit in the space provided or to function as intended.

B. Field samples are full-size physical examples erected on-site to illustrate finishes, coatings, or finish materials. Field samples are used to establish the standard by which the Work will be judged.

C. Mockups are full-size assemblies for review of construction, coordination, testing, or operation; they are not Samples.

1.03 SUBMITTAL PROCEDURES:

A. Coordination: Coordinate preparation and processing of submittals with performance of construction activities. Transmit each submittal sufficiently in advance of performance of related construction activities to avoid delay.

1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.

2. Coordinate transmittal of different types of submittals for related elements of the Work so processing will not be delayed by the need to review

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submittals concurrently for coordination. The Engineer reserves the right to withhold action on a submittal requiring coordination with other submittals until all related submittals are received.

3. Processing: To avoid the need to delay installation as a result of the time required to process submittals, allow sufficient time for submittal review, including time for resubmittals.

   a. Allow 15 working days for initial review. Allow additional time if the Engineer must delay processing to permit coordination with subsequent submittals.

   b. If an intermediate submittal is necessary, process the same as the initial submittal.

   c. Allow 15 working days for reprocessing each submittal.

   d. No extension of Contract Time will be authorized because of failure to transmit submittals to the Engineer sufficiently in advance of the Work to permit processing.

B. Submittal Preparation: Place a permanent label or title block on each submittal for identification. Indicate the name of the entity that prepared each submittal on the label or title block.

1. Provide a space approximately 4 by 5 inches (100 by 125 mm) on the label or beside the title block on Shop Drawings to record the Contractor's review and approval markings and the action taken.

2. Include the following information on the label for processing and recording action taken.

   a. Project name.

   b. Date.

   c. Name and address of the Engineer.

   d. Name and address of the Contractor.

   e. Name and address of the subcontractor.

   f. Name and address of the supplier.
   g. Name of the manufacturer.

   h. Number and title of appropriate Specification Section.

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i. Drawing number and detail references, as appropriate.

C. Submittal Transmittal: Package each submittal appropriately for transmittal and handling. Transmit each submittal from the Contractor to the Engineer using a transmittal form. The Engineer will not accept submittals received from sources other than the Contractor without Contractor's review and approval markings and the action taken.

D. Provide required Product Code Certification with Shop Drawings. Submittals that do not have Product Code Certification included will be returned for resubmission.

1.04 SHOP DRAWINGS:

A. Submit newly prepared information drawn accurately to scale. Highlight, encircle, or otherwise indicate deviations from the Contract Documents.

1. Do not reproduce Contract Documents or copy standard information as the basis of Shop Drawings.

2. Standard information prepared without specific reference to the Project is not a Shop Drawing.

B. Shop Drawings include fabrication and installation Drawings, setting diagrams, schedules, patterns, templates and similar Drawings. Include the following information:

1. Dimensions.

2. Identification of products and materials included by sheet and detail number.

3. Compliance with specified standards.

4. Notation of coordination requirements.

5. Notation of dimensions established by field measurement.

6. Do not use Shop Drawings without an appropriate final stamp indicating action taken.

C. Submittals: Submit one reproducible and one blue- or black line print; the reproducible will be returned.

1.05 PRODUCT DATA:

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A. Collect Product Data into a single submittal for each element of construction or system. Product Data includes printed information, such as manufacturer's installation instructions, catalog cuts, standard color charts, roughing-in diagrams and templates, standard wiring diagrams, and performance curves.

1. Mark each copy to show applicable choices and options. Where printed Product Data includes information on several products that are not required, mark copies to indicate the applicable information. Product Data not so marked will be returned without review. Include the following information:

a. Manufacturer's printed recommendations.

b. Compliance with trade association standards.

c. Compliance with recognized testing agency standards.

d. Application of testing agency labels and seals.

e. Notation of dimensions verified by field measurement.

f. Notation of coordination requirements.

2. Do not submit Product Data until compliance with requirements of the Contract Documents has been confirmed.

B. Submittals: Submit 2 copies of each required submittal; submit 4 copies where required for maintenance manuals. Submit additional copies as required by the Contractor for distribution. The Engineer will retain one and will return the others marked with action taken and corrections or modifications required.

C. Distribution: Furnish copies of final submittal to installers, subcontractors, suppliers, manufacturers, fabricators, and others required for performance of construction activities.

1.06 SAMPLES:

A. Submit full-size, fully fabricated Samples cured and finished as specified and physically identical with the material or product proposed. Samples include partial sections of manufactured or fabricated components, cuts or containers of materials, color range sets, and swatches showing color, texture, and pattern.

1. Mount or display Samples in the manner to facilitate review of qualities indicated. Prepare Samples to match the Engineer’s sample. Include the following:

a. Specification Section number and reference.

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b. Generic description of the Sample.

c. Sample source.

d. Product name or name of the manufacturer.

e. Compliance with recognized standards.

f. Availability and delivery time.

2. Submit Samples for review of size, kind, color, pattern, and texture. Submit Samples for a final check of these characteristics with other elements and a comparison of these characteristics between the submittal and the actual component as delivered and installed.

a. Where variation in color, pattern, texture, or other characteristic is inherent in the material or product represented, submit at least 3 multiple units that show approximate limits of the variations.

b. Refer to other Specification Sections for requirements for Samples that illustrate workmanship, fabrication techniques, details of assembly, connections, operation, and similar construction characteristics.

3. Submit a full set of choices where Samples are submitted for selection of color, pattern, texture, or similar characteristics from a range of standard choices. The Architect will review and return preliminary submittals with the Architect's notation, indicating selection and other action.

4. Maintain sets of Samples, as returned, at the Project Site, for quality comparisons throughout the course of construction.

B. Distribution of Samples: Prepare and distribute additional sets to subcontractors, manufacturers, fabricators, suppliers, installers, and others as required for performance of the Work. Show distribution on transmittal forms.

1.07 QUALITY ASSURANCE SUBMITTALS:

A. Submit quality-control submittals, including design data, certifications, manufacturer's instructions, manufacturer's field reports, and other quality-control submittals as required under other Sections of the Specifications.

B. Certifications: Where other Sections of the Specifications require certification that a product, material, or installation complies with specified requirements, submit a notarized certification from the manufacturer certifying compliance with specified

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requirements. Signature: Certification shall be signed by an officer of the manufacturer or other individual authorized to sign documents on behalf of the company.

C. Inspection and Test Reports: Requirements for submittal of inspection and test reports from independent testing agencies are specified in Division 01 Section "Quality Control."

1.08 ENGINEER'S ACTION:

A. Except for submittals for the record or information, where action and return is required, the Engineer will review each submittal, mark to indicate action taken, and return promptly. Compliance with specified characteristics is the Contractor's responsibility regardless of action indicated.

B. Action Stamp: The Engineer will stamp each submittal with a uniform, action stamp. The Engineer will mark the stamp appropriately to indicate the action taken. Do not use, or allow others to use, submittals marked "Not Approved, Revise and Resubmit" at the Project Site or elsewhere where Work is in progress.

C. Other Action: Where a submittal is for information or record purposes or special processing or other activity, the Engineer will return the submittal marked "Action Not Required."

D. Unsolicited Submittals: The Engineer will return unsolicited submittals to the sender without action.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 41 23

PERMITS AND FEES

PART 1 - GENERAL

1.01 DESCIPTION:

A. County Responsibilities: The County has obtained permits for SJRWMD, USACE and FDOT.

B. Contractor responsibilities: Obtain and pay for all other permits and licenses required by authorities having jurisdiction, including but not limited to: land clearing permit, NPDES Notice of Intent and dewatering permit.

C. Contractor shall be responsible to adhere to all provisions, requirements, and cost contained in all permits applicable to this project.

PART 2 - PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 45 16

QUALITY CONTROL

PART 1 - GENERAL

1.01 SECTION INCLUDES:

A. Administrative and procedural requirements for quality control services and testing and inspection laboratory services.

1.02 GENERAL:

A. Specific quality control requirements for individual construction activities are specified in the Sections that specify those activities. Those requirements, including inspections and tests, cover production of standard products as well as customized fabrication and installation procedures.

B. Inspections, test and related actions specified are not intended to limit the Contractor's quality control procedures that facilitate compliance with Contract Document requirements.

C. Requirements for the Contractor to provide quality control services required by the Engineer, Owner, or authorities having jurisdiction are not limited by provisions of this Section.

1.03 CONTRACTOR RESPONSIBILITIES:

A. Provide inspections, tests and similar quality control services specified in individual Specification Sections as the Contractor's responsibility and as required by governing authorities; these services include those specified to be performed by an independent agency and not by the Contractor. Include costs for these services in the Contract Sum.

B. Provide and pay for costs of retesting and other related costs when:

1. Results of required inspections, tests or similar services prove unsatisfactory and do not indicate compliance with Contract Document requirements, regardless of whether the original test was the Contractor's responsibility.

2. Construction is revised or replaced by the Contractor, where tests were required on original construction.

3. Additional testing is needed or required by the Contractor.
4. Additional trips to the project are necessary by an agency when scheduled times for tests and inspections are cancelled and the agency is not notified sufficiently in advance of cancellation to avoid the trip.

C. Cooperate with agencies performing required inspections, tests and similar services and provide reasonable auxiliary services as requested.

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1. Notify the agency sufficiently in advance of operations to permit assignment of personnel.

2. Provide access to the Work and furnish incidental labor and facilities necessary to facilitate inspections and tests.

3. Take adequate quantities of representative samples of materials that require testing and assist the agency in taking samples.

4. Provide facilities for storage and curing of test samples.

5. Provide the agency with a preliminary design mix proposed for use for materials mixes that require control by the testing agency.

6. Secure and protect samples and test equipment at the Project site.

D. Coordinate the sequence of activities to accommodate required services with a minimum of delay and coordinate activities to avoid the necessity of removing and replacing construction to accommodate inspections and tests.

E. Schedule times for inspections, tests, taking samples and similar activities.

1.04 OWNER RESPONSIBILITIES:

A. Provide inspections, tests and similar quality control services specified, except where they are specifically indicated as the Contractor's responsibility or are provided by another identified entity.

1. Costs for these services are not included in the Contract Sum.

2. The Owner will employ and pay for the services of an independent agency, testing laboratory or other qualified firm to perform the services required.

3. The Owner reserves the right to contract an independent agency to conduct testing on any portion of the work.

1.05 TESTING AGENCIES RESPONSIBILITIES:

A. Cooperate with the Engineer and Contractor in performance of their duties; provide qualified personnel to perform required inspections and tests.

B. Notify the Engineer and Contractor promptly of irregularities or deficiencies observed in the Work during performance of their services.

C. Agencies are not authorized to release, revoke, alter or enlarge requirements of the Contract Documents, or approve or accept any portion of the Work.

D. Agencies shall not perform any duties of the Contractor.

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1.06 SUBMITTALS:

A. Independent testing agencies shall submit 2 copies of certified written reports of each inspection, test or similar service to the Engineer and to the Contractor.

B. Report Data: Written reports of each inspection, test or similar service shall include:

1. Date of issue.

2. Project title and number.

3. Name, address and telephone number of testing agency.

4. Dates and locations of samples and tests or inspections.

5. Names of individuals making the inspection or test.

6. Designation of the Work and test method.

7. Identification of product and Specification Section.

8. Complete inspection or test data.

9. Test results and interpretations of test results.

10. Ambient conditions at the time of sample-taking and testing.

11. Comments or professional opinion as to whether inspected or tested Work complies with Contract Document requirements.

12. Name and signature of laboratory inspector.

13. Recommendations on retesting.

1.07 QUALIFICATION OF SERVICE AGENCIES:

A. Engage inspection and testing service agencies, including independent testing laboratories, which are prequalified as complying with "Recommended Requirements for Independent Laboratory Qualification" by the American Council of Independent Laboratories, and which specialize in the types of inspections and tests to be performed.

B. Each independent inspection and testing agency engaged on the Project shall be authorized by authorities having jurisdiction to operate in the State in which the Project is located.

C. Inspection and testing agencies engaged by the Contractor shall be acceptable to Engineer and Owner.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

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3.01 REPAIR AND PROTECTION:

A. Upon completion of inspection, testing, sample-taking and similar services, repair damaged construction and restore substrates and finishes to eliminate deficiencies, including deficiencies in visual qualities of exposed finishes

B. Protect construction exposed by or for quality control service activities, and protect repaired construction.

C. Repair and protection is the Contractor's responsibility, regardless of the assignment of responsibility for inspection, testing or similar services.

END OF SECTION

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SECTION 01 52 00

CONSTRUCTION FACILITIES

PART 1 - GENERAL

1.01 DESCRIPTION: The following criteria shall govern the furnishing of and paying for temporary construction and service items. Such items shall be instituted at the beginning and maintained for the life of the work or until removal or termination is approved by the Engineer.

1.02 TEMPORARY FACILITIES:

A. Drinking Water: The Contractor shall provide cool water with dispensing utilities.

B. Construction Water: The Contractor shall provide temporary water for construction at the project site. The Contractor shall provide proper back flow devices in order to comply with regulations concerning back flow & cross connection.

C. It shall be the Contractor's responsibility to provide temporary electrical power for construction purposes.

D. Toilet Facilities: The Contractor shall furnish a portable, job-site toilet enclosure facility through a local company specializing and licensed in this business. The toilet enclosure shall be located on the project site at a point approved by the Owner. It shall be maintained daily by the supplying company and removed from the project site upon completion of the project.

1.03 SECURITY:

A. General: The Contractor shall provide security, as necessary or required, to protect work and property at all times.

B. Rodents and Other Pests: The Contractor, through debris removal, etc., shall control the creation of rodent or pest problems. Should such develop, the Contractor shall secure services of exterminator to control.

C. Debris Control: Keep premises clean and free from accumulation of debris and rubbish. Provide trash and debris receptacles and require use. Remove from site at least weekly.

D. Cleaning: As work is completed by trades, areas of work shall be cleaned in preparation for next trade, inspections or general safety of property and person.

E. Project Safety: The Contractor shall comply with all applicable governmental and

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insuring company requirements relative to construction and project safety. Either the superintendent or another company representative on the site during all working hours, shall be trained in project safety and designated as Contractor's Safety Director.

1.04 QUALITY ASSURANCE:

A. Comply with industry standards and applicable laws and regulations of authorities having jurisdiction, including but not limited to:

1. Building Code Requirements

2. Health and Safety Regulations

3. Utility Company Regulations

4. Police, Fire Department and Rescue Squad Rules

5. Environmental Protection Regulations

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 55 26

TRAFFIC REGULATION

Part 1 - GENERAL

1.01 DESCRIPTION

A. This section covers procedures for developing and implementing traffic control and regulation measures and maintenance of traffic in and around the construction area to provide for safe and efficient protection and movement of vehicular and pedestrian traffic/through and adjacent to the construction area.

1.02 RELATED REQUIREMENTS

A. All applicable Sections of the Specifications.

B. Conditions of the Contract.

C. Nassau County Road Closure Policy.

1.03 SUBMITTALS

A. Before closing or restricting traffic flow through any thoroughfare, the Contractor will give written notice to and, if necessary, obtain a permit or permits from the duly constituted public authority having jurisdiction over the thoroughfare. Contractor will also notify the applicable law enforcement, fire, and emergency services having jurisdiction in the area. Notice will be given no less than 72 hours in advance of the time when it may be necessary in the process of construction to close or restrict traffic to such thoroughfare, or as may be otherwise required by the governing authority.

1.04 SITE CONDITIONS

A. The Contractor will plan construction operations such that existing local traffic access and traffic within the Facility can be maintained and will maintain during the construction such barricades, lights, flagmen, and other protective devices as appropriate, whether specified for the project or required by the local governing authority. Traffic control devices used for maintenance of traffic will comply with the FDOT Manual.

B. The Contractor will conduct his work in such manner as not to unduly or unnecessarily restrict or impede normal traffic through the streets of the community and within the Facility. Insofar as it is practicable, excavated material and spoil banks will not be located in such manner as to obstruct traffic. The traveled way of all streets, roads, alleys, reclamation facility’s roads and

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driveways will be kept clear and unobstructed insofar as is possible and will not be used for the storage of construction materials, equipment, supplies, or excavated earth, except when and where necessary if approved by the governing authority. If required by duly constituted public authority, the Contractor will, at his own expense, construct bridges or other temporary crossing structures over trenches so as not to unduly restrict traffic. Such structures will be of adequate strength and proper construction and will be maintained by the Contractor in such manner as not to constitute an undue traffic hazard. Private driveways will not be closed except when and where necessary, and then only upon due advance notice to the Owner and for the shortest practicable period of time consistent with efficient and expeditious construction. The Contractor will be liable for any damages to persons or property resulting from his work.

C. The Contractor will make provisions at cross streets for the free passage of vehicles and foot passengers, either by bridging or otherwise, and will not obstruct the sidewalks, gutters, or streets, nor prevent in any manner the flow of water in the latter, but will use all proper and necessary means to permit the free passage of surface water along the gutters. The Contractor will immediately cart away all offensive matter, exercising such precaution as may be directed by the Owner.

D. Unless otherwise required by the governing authority, maintenance of traffic in and around the construction zone will conform to Section 102 of the FDOT Specification, and Index Nos. 600, 620, 621, 622, 623, and 624 of the FDOT Standards.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 57 26

Dust Control

Part 1 - GENERAL

1.01 DESCRIPTION

Limit blowing dust caused by construction operations by applying water or employing other appropriate means or methods to maintain dust control.

1.02 PROTECTION OF ADJACENT PROPERTY

The bidders shall visit the site and note the buildings, landscaping, roads, parking areas and other facilities near the work site that may be damaged by their operations. The Contractor shall make adequate provision to fully protect the surrounding area and will be held fully responsible for all damages resulting from his operations.

Dust, Fumes, Spray, or Spills:

Protect all existing facilities (indoors or out) from damage by the above hazards (indoors or out);

Protect motors, bearings, electrical gear, instrumentation, and building or other surfaces from dirt, dust, welding fumes, paint spray, spills or droppings causing wear, corrosion, malfunction, failure or defacement by enclosure, sprinkling or other dust palliatives, masking and covering, exhausting or containment.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

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SECTION 01 77 19

PROJECT CLOSEOUT

PART 1 - GENERAL

1.01 SECTION INCLUDES:

A. Administrative and procedural requirements for project closeout.

1. Inspection procedures.

2. Project record document submittal.

3. Final cleaning.

1.02 SUBSTANTIAL COMPLETION:

A. Before requesting inspection for certification of Substantial Completion, complete the following. List exceptions in the request.

1. If 100 percent completion cannot be shown, include a list of incomplete items, the value of incomplete construction, and reasons the Work is not complete.

2. Advise Owner of pending insurance change-over requirements.

3. Submit specific warranties, workmanship bonds, maintenance agreements, final certifications and similar documents - refer to Section 01 78 36 Warranties and Bonds.

4. Obtain and submit releases enabling the Owner unrestricted use of the Work and access to services and utilities; include occupancy permits, operating certificates and similar releases.

5. Submit record drawings, maintenance manuals, and similar final record information.

6. Complete start-up testing of systems, and instruction of the Owner's operating and maintenance personnel. Discontinue or change over and remove temporary facilities from the site, along with construction tools, mock-ups, and similar elements.

7. Complete final clean up requirements, including touch-up painting. Touch-up and otherwise repair and restore marred exposed finishes.

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B. When the Contractor considers the Work to be substantially complete, he shall submit a written notice to the Engineer that the Work, or designated portion of the Work, is complete and ready for inspection.

C. Within 5 days of receipt of a request for inspection, the Engineer will either proceed with inspection or advise the Contractor of unfulfilled requirements. When the Engineer and Owner concur that the Work, or designated portion of the Work, is substantially complete, the Engineer will prepare the Certificate of Substantial Completion following inspection.

D. Should the Engineer determine that the Work is not substantially complete, he will advise the Contractor of construction or other requirements that must be completed or corrected before the certificate will be issued.

1. The Engineer will repeat inspection when requested and assured that the Work has been substantially completed.

2. Results of the completed inspection will form the basis of requirements for final acceptance.

1.03 FINAL COMPLETION:

A. When Contractor considers the Work to be complete, he shall submit written certification to the Engineer that the Work is completed and ready for final inspection. Include the following:

1. Submit the final payment request with releases and supporting documentation not previously submitted and accepted. Include certificates of insurance for products and completed operations.

2 Submit an updated final statement, accounting for final additional changes to the Contract Sum.

3. Submit a certified copy of the Engineer's final inspection list of items to be completed or corrected, stating that each item has been completed or otherwise resolved for acceptance, and the list has been endorsed and dated by the Engineer.

4. Submit final meter readings for utilities, a measured record of stored fuel, and similar data as of the date of Substantial Completion, or when the Owner took possession of and responsibility for corresponding elements of the Work.

5. Submit consent of surety to final payment.

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6. Submit evidence of final, continuing insurance coverage complying with insurance requirements.

B. The Engineer will inspect the Work upon receipt of notice that the Work, including inspection list items from earlier inspections, has been completed, except items whose completion has been delayed because of circumstances acceptable to the Engineer.

1. Upon completion of inspection, the Engineer will prepare a certificate of final acceptance, or advise the Contractor of Work that is incomplete, or of obligations that have not been fulfilled but are required for final acceptance.

2. If necessary, reinspection process will be repeated.

1.04 RECORD DOCUMENT SUBMITTALS:

A. Maintain at the site one complete set of record documents; protect from deterioration and loss in a secure, fire-resistive location.

1. Provide access to record documents for the Engineer's reference during normal working hours.

2. Label each document "PROJECT RECORD" in 2 inch high printed letters.

3. Do not use for construction purposes.

B. Record Drawings: Maintain a clean, undamaged set of blue or black line white-prints of Contract Drawings and Shop Drawings. Mark the set to show the actual installation. Mark whichever drawing is most capable of showing conditions fully and accurately; where Shop Drawings are used, record a cross-reference at the corresponding location on the Contract Drawings. Give particular attention to concealed elements that would be difficult to measure and record at a later date.

1. Mark record sets with red erasable pencil; use other colors to distinguish between variations in separate categories of the Work.

2. Mark new information that was not shown on Contract Drawings or Shop Drawings.

3. Show horizontal control dimensions in two directions at right angles for each underground fitting, valve, and appurtenance. Horizontal control dimensions shall be tied to a permanent above ground marker such as a building or tank slab. Show elevations of storm sewers, gravity sewers including laterals, electric cables, television cables, telephone cables, force mains, water mains crossed, and any other underground utilities and

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structures. Information shall be obtained by surveying by a professional engineer or land surveyor registered in the State of Florida.

4. Note related Change Order numbers where applicable.

5. Organize record drawing sheets into manageable sets, bind with durable paper cover sheets, and print suitable titles, dates and other identification on the cover of each set.

C. Record Specifications: Maintain one complete copy of the Project Manual, including addenda, and one copy of other written construction documents such as Change Orders and modifications issued in printed form during construction.

1. Mark these documents to show substantial variations in actual Work performed in comparison with the text of the Specifications and modifications.

2. Give particular attention to substitutions, selection of options and similar information on elements that are concealed or cannot otherwise be readily discerned later by direct observation.

3. Note related record drawing information and Product Data.

D. Record Product Data: Maintain one copy of each Product Data submittal.

1. Mark these documents to show significant variations in actual Work performed in comparison with information submitted. Include variations in products delivered to the site, and from the manufacturer's installation instructions and recommendations.

2. Give particular attention to concealed products and portions of the Work which cannot otherwise be readily discerned later by direct observation.

3. Note related Change Orders and mark-up of record drawings and Specifications.

E. Record Sample Submitted: Immediately prior to the date or dates of Substantial Completion, the Contractor will meet at the site with the Engineer and the Owner to determine which of the submitted Samples that have been maintained during progress of the Work are to be transmitted to the Owner for record purposes. Comply with delivery to the Owner's Sample storage area.

F. Record Survey: Provide as-built survey prepared in accordance with the minimum technical standards for surveying as set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61G17-6 Florida Administrative Code, pursuant to Section 472.027 Florida Statutes.

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G. Miscellaneous Record Submittals: Refer to other Specification Sections for requirements of miscellaneous record-keeping and submittals in connection with actual performance of the Work.

H. At Contract close-out, deliver one copy of Record Documents to Engineer for Owner. Accompany submittal with transmittal letter in duplicate containing the following information:

1. Date.

2. Project title and number.

3. Contractor's name and address.

4. Title and number of each Record Document.

5. Signature of Contractor or his authorized representative.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.01 FINAL CLEANING:

A. Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to the condition expected in a normal, commercial building cleaning and maintenance program.

B. Complete the following cleaning operations before requesting inspection for Certification of Substantial Completion and maintain until final completion, except in areas occupied or designated by Owner.

1. Remove labels that are not permanent labels.

2. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compound and other substances that are noticeable vision-obscuring materials. Replace chipped or broken glass and other damaged transparent materials.

3 Clean exposed exterior and interior hard-surfaced finishes to a dust-free condition, free of stains, films and similar foreign substances. Restore reflective surfaces to their original reflective condition.

4. Leave concrete floors broom clean.

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5. Vacuum carpeted surfaces.

6. Wipe surfaces of mechanical and electrical equipment. Remove excess lubrication and other substances.

7. Clean plumbing fixtures to a sanitary condition.

8. Clean light fixtures and lamps.

9. Clean the site, including landscape development areas, of rubbish, litter and other foreign substances.

10. Sweep paved areas broom clean; remove stains, spills and other foreign deposits.

11. Rake grounds that are neither paved nor planted, to a smooth even-textured surface.

C. Remove temporary protection and facilities installed for protection of the Work during construction.

D. Comply with regulations of authorities having jurisdiction and safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on the Owner's property. Do not discharge volatile, harmful or dangerous materials into drainage systems. Remove waste materials from the site and dispose of in a lawful manner.

E. Where extra materials of value remaining after completion of associated Work have become the Owner's property, arrange for disposition of these materials as directed.

END OF SECTION

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SECTION 01060

REGULATORY REQUIREMENTS

PART 1 – GENERAL

1.01 RELATED DOCUMENTS: The general provisions of the Contract, including General and Supplementary Conditions apply to the work specified in this section.

1.02 SPECIFIED CODES:

A. The design of the work is based on the requirements of the latest edition of the Southern Standard Building Code, National Electric Code and National Fire Protection Association Requirements, whichever is most stringent.

B. The site work is based on the latest edition of the Florida Department of Transportation, Standard Specifications for Road and Bridge Construction, hereinafter referred to as the Florida DOT Specifications or DOT Spec.

C. The JEA Electrical Standards, Details and Materials, JEA Water & Sewer Standards, Details and Materials, including all Revisions published prior to the Bid Date by Electrical, Water & Sewer Divisions of the JEA, shall be considered part of the Technical Specifications, insofar as these Documents apply to the proposed work included in the Contract Documents and Addenda.

D. The Contractor shall ensure the work complies to the aforementioned codes and regulations as they apply to the project whether or not specifically referenced elsewhere.

1.03 REFERENCE STANDARDS:

A. Except as otherwise required by Paragraph 1.02 all products and workmanship shall conform to best quality materials and practices recognized by agencies, associations, councils, etc., specified in individual sections.

B. In the absence of specified agencies, associations, councils, etc., the Contractor shall conform to the requirements of the most widely recognized standards for each particular portion of the work.

1.04 PERMITS: Determination of necessity and/or application for and receipt of the following permits will be required of the Contractor, unless otherwise noted. The Contractor shall comply with all provisions of these permits. No work shall commence until all required permits are in hand.

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A. The Contractor shall secure any and all permits as required by SJRWMD for dewatering activities to occur at the job sites.

B. NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities.

C. NPDES – Generic Permit for the Discharge of Produced Groundwater from any Non-Contaminated Site Activity. Contact Florida Department of Environmental Protection (FDEP), Northeast District.

D. Florida Department of Environmental Protection Permit FLA011377 is included on the following pages as a part of these specifications.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

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SECTION 015 68

EROSION CONTROL

PART 1 - GENERAL

1.01 WORK INCLUDED:

A. Work included in this Section consists of measures required to control erosion on the project site and in areas outside the site where work is to be done in conjunction with the project.

1. The primary purpose of erosion control work is to prevent pollution of water, prevent detrimental effects to public or private property adjacent to project site, and to protect and prevent detrimental effects to project site.

2. Erosion control measures consist of construction and maintenance of temporary erosion control features, and in some instances, permanent erosion control features; all as indicated on Drawings, or as may be directed by Owner's Representative.

3. The Contractor is required to perform all necessary erosion control required for the performance of his Work.

1.02 QUALITY ASSURANCE:

A. Reference specifications and standards:

1. Standard Specifications for Road and Bridge Construction, 2014, amended issued by Florida Department of Transportation, specified hereinafter as FDOT.

a. Statements in this Specification Section take precedence over FDOT Standards if there are any ambiguities.

b. Where paragraphs of the FDOT Standards referenced herein include reference to further paragraphs, the further referenced paragraph(s) are also made a direct part of this Specifications.

c. All reference to 'Department' in referenced standard shall be construed to mean 'Owner' for this Work.

d. Method of measurement and method of payment for all Work shall be construed to mean lump sum basis, in accord with terms of Contract.

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1.03 SUBMITTALS:

A. Procedure: Submit in accordance with Section 01300.

B. Submit technical data and samples of turbidity barrier material.

C. Submit list of materials and their characteristics for other erosion control items.

PART 2 - PRODUCTS

2.01 MATERIALS:

A. Slope drains: FDOT Section 104-6.4.3.

B. Sediment basins: FDOT Section 104-6.4.4.

C. Sediment barriers: FDOT Section 104-6.4.5

D. Silt fence: FDOT Section 104-6.4.6.

E. Turbidity barriers: As manufactured by Contaminant Systems Corp., or equal

F. Temporary or permanent seeding, sodding, and/or strawing: if required, conform to applicable Section on respective work within these Specifications.

PART 3 – EXECUTION

3.01 INSTALLATION:

A. Prior to initiating clearing and grubbing operations, field survey and stake the limits of construction.

B. Obtain the Owner's Representative's approval of the erosion control plan.

C. Install all silt fence, hay bales and enviro fence along the limits of construction as required

D. Obtain approval of the installed erosion and sedimentation control measures from the agencies having jurisdiction as required.

E. Initiate utility installation.

3.02 TEMPORARY DRAINAGE DURING CONSTRUCTION:

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A. Contractor shall provide temporary drainage during construction.

B. Water quality monitoring for turbidity:

1. Where affected, water shall be sampled by the Contractor for turbidity a minimum of twice daily at sampling station points. Sample at approximately 9:00 a.m. and 3:00 p.m. each day.

2. Instruments for measuring turbidity shall be those normally approved by the D.E.P. of the State of Florida.

3. Results of the monitoring shall be included on the Contractor's Daily Report which is to be submitted to the Owner's representative weekly. In the event of a violation, the Owner shall be notified immediately, and action taken to correct the violation without delay.

C. Exercise extreme care to minimize degradation of water quality at the site. All necessary provisions shall be taken to insure compliance with the water quality standards of the State of Florida.

1. Attention is called to Chapter 17-3, Florida Administrative Code in particular, the requirements that turbidity shall not exceed 29 Nephelometric Turbidity Units (NTU's) above background level.

2. The waters of the project area are classified Class III.

3. Adequate silt containment procedures and equipment shall be used to control turbidity at all times.

D. Comply with all requirements of the rules and regulations of the D.E.P. of the State of Florida, the St. Johns River Water Management District as well as the Department of the Army Corps of Engineers.

END OF SECTION

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SECTION 00 41 15

TECHNICAL SPECIAL PROVISIONS FOR JEA UTILITY WORK

1. GENERAL

Except as expressly provided elsewhere in the Contract Documents, these Technical Special Provisions apply only to the work described as follows, hereinafter referred to as the "JEA Utility Work."

The JEA Utility Work covered by this Technical Special Provision includes, but is not limited to construction of all water and wastewater systems, wet taps and in-line stop valves; services; main line valves; fittings; subsequent placing out of service of existing mains and all other appurtenances required for a complete water and wastewater system, as specified in this Technical Special Provision and the Contract Plans.

2. STANDARDS / DETAILS

All JEA Utility Work and materials shall be in accordance with the JEA Water & Wastewater Standards Manual, Standard Detail Drawings, and the Approved Materials Manual hereinafter referred to as the "JEA Standards", dated January 1, 2023.

Site work that is incidental to the JEA shall meet the general specification requirements under JEA Section II. Where the work is similar to County work specified, county requirements will rule and were none exist, the FDOT specifications will control (i.e. asphalt, limerock, concrete, turf, striping, clearing and MOT). Unless otherwise noted in the JEA pay items, incidental items will be paid as prescribed under JEA standard pay items.

3. REFERENCED DOCUMENTS

Refer to the bidding documents provided:

1. JEA "Water & Wastewater Standards Manual, Standard Detail Drawings, and the Approved Materials Manual" (JEA Standards), January 1, 2023 Edition
2. JEA's Responsible Bidders List (RBL) – "WM2 Water, Sewer, Reclaim Pressure Pipe Construction Underground Trench < 24" Diameter

4. CONTRACTOR QUALIFICATIONS

The contractor who performs the underground JEA Utility Work, whether it is the prime contractor or a sub-contractor, shall be pre-qualified and listed on the JEA's Responsible Bidders List (RBL) WM2 Water, Sewer, Reclaim Pressure Pipe Construction Underground Trench < 24" Diameter category, as provided in this Technical Special Provision.

5. CONDUCT OF WORK

5.1. All water main construction, tie-ins to existing utility system and resolution of conflicts shall be in accordance with the Contract Documents.

5.2. All removed fire hydrants are to remain the property of JEA and shall be delivered to 2558 Boulevard St., Jacksonville FL. Contact JEA Representative at 904-665-4837 prior to delivery.

5.3. Unless otherwise shown in the plans, all existing pipes, valves, fittings, etc. removed shall become the property of the Contractor and be disposed of as required by FDOT Specification 110-9.

5.4. Unless otherwise shown in the plans, existing water and sewer service lines will not be located.

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6. PIPE BELL/JOINT RESTRAINTS

All new piping joints shall be restrained in accordance with JEA Standards. All existing piping where new piping is being tied into it shall also be restrained in accordance with JEA Standards.

7. INTERRUPTION OF SERVICE / OUTAGES

Interruptions and interference with the operation of the JEA utility system and inconvenience to customers shall be kept to a minimum. It shall be unequivocally understood that continuity of utility services and the safety of the JEA utility system shall be given prime consideration. Do not cause any interruption of utility service without obtaining permission from the Engineer and having a representative from JEA present. Only JEA personnel will operate any valves, except during an emergency. In the event of an emergency that endangers life or property, the Contractor may take immediate action before notifying the Engineer. The Engineer shall be notified if the need arises for "shut down" of a main or a portion of a main. Where there will be an interruption of utility service, it is the Contractor's responsibility to notify all affected parties of the proposed interruption of service in accordance with the following:

7.1 OUTAGE AREA

Provide a written outage simulation request to the Engineer a minimum of two weeks in advance for an outage simulation, to locate and test existing valves and determine the area that will be affected by the outage.

7.2 COORDINATION

After the simulation and after obtaining a clearance to connect the new lines to existing, provide the Engineer with a written outage request. The following information shall be furnished in advance of any outage:

1) Date and time of the outage
2) Purpose of the outage
3) Map of the area to be affected by the outage
4) Letter stating that all offices, businesses and residences have been or will be notified by the Contractor in advance of the outage.

7.3 PLANNED OUTAGES

Notify the Engineer a minimum of 3 weeks prior to any planned outage requests. Plan all outages to occur between 1:00 AM and 5:00 AM. Each outage request will be reviewed on its own merit. Schedule outage work to minimize repetitive outages to the same affected customers. If this cannot be achieved then outages to the same customers shall be scheduled over several weeks, as directed by the Engineer. Notify all consumers at least three working days in advance of service interruptions unless otherwise approved by the Engineer.

8. RESTORATION

Whenever the site is disturbed solely for the purpose of the Utility Work, completely replace and restore the site to the Engineer's satisfaction.

9. SYSTEM CONNECTIONS

All existing mains are to remain in service until their respective replacement mains are installed and are ready to be placed into service. Perform all work necessary to make connections and ties to existing in-line and lateral connections when installing mains as shown on the Utility

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Plans and in accordance with the Contract Documents.

10. PREPARATION BEFORE TIE-INS AND INTERCONNECTIONS

A 100% water shutdown is not always possible. Prior to beginning the work of making the tie-ins and interconnections to the existing and proposed mains, have all the material, equipment, and labor at the site in readiness for the planned Utility Work.

11. MATERIAL REQUIREMENTS

All construction materials shall meet all applicable specifications in the provided JEA Standards unless otherwise required in the contract documents.

12. PERMITS

Secure and pay for all permits (as required), including but not limited to the Florida Department of Environmental Protection and Nassau County. Accordingly, comply with all conditions of permits and all items necessary to obtain the clearances of all permit requirements (i.e., FDEP Certification of Completion).

13. AS-BUILTS

Provide As-Built Record Drawings in accordance with the JEA Standards per Section 501.

14. TESTING

Hire one or more testing laboratory(ies) to perform all sampling, field testing, and associated laboratory testing as specified in JEA Standards, Section 408, or as directed by the Engineer. New water, wastewater force and reclaim mains greater than 12" I.D. shall be hydraulically cleaned with polypropylene swabbing device. All testing is to be performed under the direct supervision of a registered professional engineer.

15. DEWATERING

If groundwater is encountered, utilize dewatering system(s) to remove water from the excavations.

16. ADDITION & DELETION OF WORK

All changes in JEA Utility Work, whether it is additional and/or deletion, shall be performed/adjusted at the established unit prices provided by the Contractor, as listed in the bid pay item list and as provided for in this Technical Special Provision.

17. MEASUREMENT AND PAYMENT

All JEA Utility Work will be paid for as detailed under the JEA standard specifications for the work described in the utility plan sheets and other Contract Documents. Per Section 801 JEA Water and Seewer Standards

18. BASIS OF PAYMENT

Prices and payments shall be full compensation for all work and materials specified in this Technical Special Provision.

19. JEA CONTRACT

Wining Bidder will contract directly with the JEA and therefore separate payment applications will be made. Bidder must comply with JEA requirements to include (refer to Bid Forms | Become a Vendor | Procurement | About | JEA):

JEA Contract
Performance and Payment Bond
Florida Trench Safety Act)
Provide List of Subcontractors

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20. GENERAL CONDITIONS:

The Contractor will satisfy County contract requirements not explicitly detailed by JEA as identified in these contract documents if not detailed by the JEA contract requirements noted above and to include:

20.1 INDEMNIFICATION

Contractor (Company) shall hold harmless, indemnify, and defend JEA and the ENGINEER, and PROGRAM MANAGEMENT FIRM(S) (where applicable) against any claim, action, loss, damage, injury, liability, cost and expense of whatsoever kind or nature (including, but not by way of limitation, reasonable attorney's fees and court costs) arising out of injury (whether mental or corporeal) to persons, including death, or damage to property, arising out of or incidental to the negligence, recklessness or intentional wrongful misconduct of the Company and any person or entity used by Company in the performance of this Contract or Work performed thereunder. For purposes of this Indemnification, the term "JEA" shall mean JEA as a body politic and corporate and shall include its governing board, officers, employees, agents, successors and assigns. This indemnification shall survive the term of a Contract entered into pursuant to this solicitation, for events that occurred during the Contract term. This indemnification shall be separate and apart from, and in addition to, any other indemnification provisions set forth elsewhere in this Contracts written outage simulation request to the Engineer a minimum of two weeks in advance for an outage simulation, to locate and test existing valves and determine the area that will be affected by the outage.

20.1 INSURANCE

Before starting and until acceptance of the Work by JEA, and without further limiting its liability under the Contract, Contractor (Company) shall procure and maintain at its sole expense, insurance of the types and in the minimum amounts stated below:

Schedule	Amount
Workers' Compensation	
Florida Statutory coverage and Employer's Liability (including appropriate Federal Acts)	Statutory Limits (Workers' Compensation) $500,000 each accident (Employer's Liability)
Commercial General Liability	
Premises-Operations Products-Completed Operations Contractual Liability Independent Contractors Broad Form Property Damage Explosion, Collapse and Underground Hazards (XCU Coverage) as appropriate	$1,000,000 each occurrence $2,000,000 annual aggregate for bodily injury and property damage, combined single limit
Automobile Liability	
All autos-owned, hired, or non-owned	$1,000,000 each occurrence, combined single limit
Excess or Umbrella Liability	

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$2,000,000 each occurrence and annual aggregate

Company's Commercial General Liability and Excess or Umbrella Liability policies shall be effective for two years after Work is complete. The above Indemnification provision is separate and is not limited by the type of insurance or insurance amounts stated above. Contractor shall specify JEA, the ENGINEER and PROGRAM MANAGEMENT FIRMS (S) as an "additional interest" insured for all coverage except Workers' Compensation and Employer's Liability. Such insurance shall be primary to any and all other insurance or self-insurance maintained by JEA. Company shall include a Waiver of Subrogation on all required insurance in favor of JEA, its board members, officers, employees, agents, successors and assigns. Such insurance shall be written by a company or companies licensed to do business in the State of Florida and satisfactory to JEA. Prior to commencing any Work under this Contract, certificates evidencing the maintenance of the insurance shall be furnished to JEA for approval.

Company's and its subcontractors' Certificates of Insurance shall be mailed to JEA (Attn. Procurement Services), Customer Care Center, 6th Floor, 21 West Church Street, Jacksonville, FL 32202-3139.

The insurance certificates shall provide that no material alteration or cancellation, including expiration and non-renewal, shall be effective until 30 days after receipt of written notice by JEA. Any subcontractors of Company shall procure and maintain the insurance required of Company hereunder during the life of the subcontract. Subcontractors' insurance may be either by separate coverage or by endorsement under insurance provided by Company. Company shall submit subcontractors' Certificates of Insurance to JEA the ENGINEER AND PROGRAM MANAGEMENT FIRMS(S) prior to allowing subcontractors to perform Work on JEA's job sites.

20.3 AS-BUILT The edited electronic copy, and a signed and sealed hard copy of the electronically edited plans for the County and the JEA separately, shall be provided to the Engineer two weeks prior to final inspection**.**

20.4 RAILROAD INSURANCE The contractor is to retain any required insurance when working within the CSX Right-of-Way and to include this cost in the contractor's cost of insurance. The project construction limits do not encroach into the RR ROW and therefore there are no costs considered for RR flagging operations. If the need for a flagger is created by the contractor, it will be the responsibility of the contractor to provide the flagger.

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SECTION 00 45 15
UTILITY SCHEDULES

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY WORK SCHEDULE

December 14, 2016

Pursuant to Section 337.403 F.S., the UAO and FDOT agree to the UAO's need for relocation or adjustment to its utilities and FDOT's need for a schedule for the UAO to effect the relocation or adjustment. This utility work schedule is based on FDOT plans dated in the project information box below. Any deviation by FDOT or its contractor from these plans, may void this utility work schedule. Upon notification by FDOT of a change to these plans, the UAO may negotiate a new utility work schedule. The UAO agrees to notify FDOT and the contractor in writing prior to starting, stopping, resuming, and completing work in accordance with this utility work schedule. The UAO shall obtain a utility permit and comply with requirements of the 2017 Utility Accommodation Manual (UAM) for all work done under this utility work schedule. The UAO is not responsible for events beyond the control of the UAO that could not be reasonably anticipated by the UAO and which could not be avoided by the UAO with exercise of due diligence at the time of the occurrence.

FDOT PROJECT INFORMATION

Financial Project ID: WILLIAM BURGESS EXT	Federal Project ID:
State Road Number:	County: NASSUA
FDOT Plans Dated: 5/4/21	District Document No.:

UTILITY AGENCY/OWNER (UAO)

Utility Company: COMCAST		
UAO Project Rep: JGRAHAM	Phone: 9045096472	E-mail: JAMES_GRAHAM@CABLE.COMCAST.COM
UAO Field Rep: JGRAHAM	Phone: 9045096472	E-mail: JAMES_GRAHAM@CABLE.COMCAST.COM

UTILITY SIGNATURE

I have reviewed the FDOT plans referenced above and submit this utility work schedule in compliance with UAM Section 5 and agree to be bound by the terms of this utility work schedule.

UAO Rep. _____ Date 12/2/22

Name JGRAHAM

Title PC

ENGINEER OF RECORD SIGNATURE

I attest this utility work schedule is compatible with the FDOT plans referenced above.

EOR. _____ Date __ / __ / ____

Name _____

Title _____

APPROVAL BY DISTRICT UTILITIES

This utility work schedule is complete and acceptable to FDOT.

FDOT Rep. _____ Date __ / __ / ____

Name _____

Title _____

SECTION A: SUMMARY OF UTILITY WORK

The below days are the total numbers of days shown for all activities in Section C of this utility work schedule. The breakdown of how these days are to be incorporated into the FDOT project and the dependence of these days upon the completion of other activities by the UAO or others is shown in Section C.

Days prior to FDOT project construction: 90 Days during FDOT project construction: 50

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FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY WORK SCHEDULE

Financial Project ID: WILLIAM BURGESS EXT
Utility Company: : COMCAST
FDOT Plans Dated: 5/4/21

SECTION B: UAO SPECIAL CONDITIONS/CONSTRAINTS

1. DURING CONSTRUCTION:
(A)The contractor shall contact Comcast Representative James Graham at phone (904)509-6472 to schedule field meeting and/or the protection and physical exposure (locate) of COMCAST facilities.COMCAST representative request that 72 hrs notice be provided during regular business hours which are Monday through Friday from 8am to 5 pm.
(B) COMCAST request that the FDOT Project Engineer and the FDOT Contractor meet with the Comcast representatives within two (2) weeks after the pre utility conference to discuss any issues.
2. In the event damages occurs to Comcast:
A. Call COMCAST at 904-509-6472
B.Notify UAO Project Representative
C.Issue Cut/Damage Report to FDOT
3.COMCAST will coordinate with FDOT contractor during constructionactivities for access that maybe required for normal and/or operation and maintenance of COMCAST facilities
4. Locate and Protect will be as requested.

Definitions:
Locating: The use of test holes by vacuum excavation or comparable non-destructive equipment at critical point along a subsurface utility facility's path thus exposing the underground facility and allowing the precise measurements of the depth and horizontal position to be made.

Designating: Utilizing electromagnetic, magnetic, sonic, and other energy fields for determining the existence and approximate horizontal location of underground utility facilities. Underground facilities will be marked by stakes, flags, paint or other suitable materials in varying combinations dependent upon surface conditions using American Public Works Association Utility Location Coordination Council Color Codes.

Protect: Shall include, but not be limited to, permittee's use of an onsite representative during active construction operations. During excavation operations, Representative may be required to physically expose underground facilities, provide any necessary support to the Facilities, and/or cover aerial facilities as deemed necessary to aid construction.

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FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY WORK SCHEDULE

December 14, 2016

Financial Project ID: WILLIAM BURGESS EXT
Utility Company: : COMCAST
FDOT Plans Dated: 5/4/21

SECTION C: UAO's WORK ACTIVITIES

Act. No.	Utility Facility (type, size, material, status)	From Station/ Offset	To Station/ Offset	Utility Work Activity Description	Dependent Activity	TCP Phase	Consecutive Calendar Days Prior to Const.	Consecutive Calendar Days During Const.
1				ENGINEERING			30	
2				DESIGN AND PERMIT			30	
3				MATERIAL PROCUREMENT			30	
	US 17							
4	OH CATV/FIBER	454+00 RT	456+00 RT	TRANSFER TO NEW POLES	POLES PLACED BY OTHERS			15
	MINER RD							
5	OH CATV/FIBER	304+80	102+50	REMOVE OH CATV/FIBER	ACTIVATION OF NEW UG CATV/FIBER			5
6	UG CATV/FIBER	304+80	102+50	PLACE CATV/FIBER BORE	R/W STAKED BY OTHERS			30
	END OF SCHEDULE							
	UG CA[illegible]BER	82+00	[illegible]0	LOCATE & PROTECT				5

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FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY WORK SCHEDULE

December 14, 2016

Pursuant to Section 337.403 F.S., the UAO and FDOT agree to the UAO's need for relocation or adjustment to its utilities and FDOT's need for a schedule for the UAO to effect the relocation or adjustment. This utility work schedule is based on FDOT plans dated in the project information box below. Any deviation by FDOT or its contractor from these plans, may void this utility work schedule. Upon notification by FDOT of a change to these plans, the UAO may negotiate a new utility work schedule. The UAO agrees to notify FDOT and the contractor in writing prior to starting, stopping, resuming, and completing work in accordance with this utility work schedule. The UAO shall obtain a utility permit and comply with requirements of the 2017 Utility Accommodation Manual (UAM) for all work done under this utility work schedule. The UAO is not responsible for events beyond the control of the UAO that could not be reasonably anticipated by the UAO and which could not be avoided by the UAO with exercise of due diligence at the time of the occurrence.

FDOT PROJECT INFORMATION

Financial Project ID:	Federal Project ID:
State Road Number:	County: Nassau William Burgess Boulevard
FDOT Plans Dated:	District Document No.:

UTILITY AGENCY/OWNER (UAO)

Utility Company: Peninsula Pipeline Company		
UAO Project Rep: Johnny Hill	Phone: (386) 747-6862	E-mail: jhill@chpk.com
UAO Field Rep: Matthew Bell	Phone: (386) 747-8705	E-mail: mbell@chpk.com

UTILITY SIGNATURE

I have reviewed the FDOT plans referenced above and submit this utility work schedule in compliance with UAM Section 5 and agree to be bound by the terms of this utility work schedule.

UAO Rep. _____ Date 7 / 20 / 2022

Name Calvin Favors

Title Manager of Engineering

ENGINEER OF RECORD SIGNATURE

I attest this utility work schedule is compatible with the FDOT plans referenced above.

EOR. _____ Date __ / __ / ____

Name _____

Title _____

APPROVAL BY DISTRICT UTILITIES

This utility work schedule is complete and acceptable to FDOT.

FDOT Rep. _____ Date __ / __ / ____

Name _____

Title _____

SECTION A: SUMMARY OF UTILITY WORK

The below days are the total numbers of days shown for all activities in Section C of this utility work schedule. The breakdown of how these days are to be incorporated into the FDOT project and the dependence of these days upon the completion of other activities by the UAO or others is shown in Section C.

Days prior to FDOT project construction: 0

Days during FDOT project construction: 0

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FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY WORK SCHEDULE

Financial Project ID: _____
Utility Company: Peninsula Pipeline Company
FDOT Plans Dated: _____

SECTION B: UAO SPECIAL CONDITIONS/CONSTRAINTS

1. No direct conflicts with Peninsula Pipeline Company (PPC) natural gas facilities identified by PPC or gai consultants
2. Existing PPC 12" natural gas pipeline that operates at approximately 500 psig, and is a critical pipeline serving all of Yulee, FL and Amelia Island. Extreme caution is required when working around this pipeline
3. PPC must be included in any Utility Coordinating Meetings held by Contractor or Engineer of Record and receive minutes of said meetings
4. PPC Representative must be given seven (7) calendar days notice before any work is done within ten (10) feet, vertically or horizontally, of PPC natural gas facilities
5. Contractor must provide contact information for project Superintendent and other key contractor personnel for emergency purposes

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FLORIDA DEPARTMENT OF TRANSPORTATION

December 14, 2016

Financial [redacted]ct ID:
Utility C[redacted]y: Peninsula Pipeline Com
FDOT P[redacted]ct:

SEC[redacted]VITIES

Act. No.	Utility Facility [redacted]m (type, size, material, status)	[redacted]ation/ Offset	Station/ Offset	[redacted]y Work Activity Description	Dependent Activity	TCP Phase	Consecutive Calendar [redacted]ys Prior to Const.	[redacted]ng Const.
	[redacted]o Conflicts Identified							
1	GAS VALVE	11[redacted]+85, 39' LT		ADJUST TOP TO PROP. GRADE				20
2	GAS VALVE	98[redacted]+90, 25' LT		ADJUST TOP TO PROP. GRADE				20
3	GAS VALVE	99+79, 15' LT		ADJUST TOP TO PROP. GRADE				20

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FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY WORK SCHEDULE

December 14, 2016

Pursuant to Section 337.403 F.S., the UAO and FDOT agree to the UAO's need for relocation or adjustment to its utilities and FDOT's need for a schedule for the UAO to effect the relocation or adjustment. This utility work schedule is based on FDOT plans dated in the project information box below. Any deviation by FDOT or its contractor from these plans, may void this utility work schedule. Upon notification by FDOT of a change to these plans, the UAO may negotiate a new utility work schedule. The UAO agrees to notify FDOT and the contractor in writing prior to starting, stopping, resuming, and completing work in accordance with this utility work schedule. The UAO shall obtain a utility permit and comply with requirements of the 2017 Utility Accommodation Manual (UAM) for all work done under this utility work schedule. The UAO is not responsible for events beyond the control of the UAO that could not be reasonably anticipated by the UAO and which could not be avoided by the UAO with exercise of due diligence at the time of the occurrence.

FDOT PROJECT INFORMATION

Financial Project ID: WILLIAM BURGESS BLVD EXTENSION	Federal Project ID: N/A
State Road Number: 100	County: NASSAU
FDOT Plans Dated: 05/04/2021 GAI CONSULTANTS	District Document No.: N/A

UTILITY AGENCY/OWNER (UAO)

Utility Company: Florida Power and Light--Distribution		
UAO Project Rep: JOSH KEOWN	Phone: 904-228-8885	E-mail: JOSH.KEOWN@FPL.COM
UAO Field Rep: JOSH KEOWN	Phone: 904-228-8885	E-mail: JOSH.KEOWN@FPL.COM

UTILITY SIGNATURE

I have reviewed the FDOT plans referenced above and submit this utility work schedule in compliance with UAM Section 5 and agree to be bound by the terms of this utility work schedule.

UAO Rep. _____ Date 7 / 26 / 2022

Name JOSH KEOWN

Title ENGINEER II

ENGINEER OF RECORD SIGNATURE

I attest this utility work schedule is compatible with the FDOT plans referenced above.

EOR. _____ Date __ / __ / ____

Name _____

Title _____

APPROVAL BY DISTRICT UTILITIES

This utility work schedule is complete and acceptable to FDOT.

FDOT Rep. _____ Date __ / __ / ____

Name _____

Title _____

SECTION A: SUMMARY OF UTILITY WORK

The below days are the total numbers of days shown for all activities in Section C of this utility work schedule. The breakdown of how these days are to be incorporated into the FDOT project and the dependence of these days upon the completion of other activities by the UAO or others is shown in Section C.

Days prior to FDOT project construction: 210 Days during FDOT project construction: 315

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FLORIDA DEPARTMENT OF TRANSPORTATION
UTILITY WORK SCHEDULE

Financial Project ID: WILLIAM BURGESS BLVD EXTENSION
Utility Company: Florida Power and Light--Distribution

FDOT Plans Dated: 05/04/2021 GAI CONSULTANTS

SECTION B: UAO SPECIAL CONDITIONS/CONSTRAINTS

1. DURING CONSTRUCTION - The Contractor shall contact Florida Power & Light representative Josh Keown at phone number (s) 904-228-8885 to schedule field meetings. Florida Power & Light representatives request that 48 hours notice be provided during regular business hours which are Monday thru Friday from 8AM to 5PM.

2. All Florida Power & Light facilities are energized at 13 KV "Except as otherwise may be provided in Part C "UAO'S Work Activity" of this Utility Work Schedule, all FPL overhead electrical facilities to remain energized and in place. Table A Minimum Clearance Distances specified in Subpart CC of OSHA Rule 29 CFR Part 1926 (as they pertain to crane/derrick operations), and/or those minimum distances specified in 29 CFR 1910.333(c)(3) for work in proximity to power lines not covered by this SECTION C, must be maintained."

3. Existing facilities to be relocated/removed, must remain in place and energized until the new facilities are installed and operational. All FPL work shown in Section C items 3 thru 8, to be coordinated and worked together.

4. All FPL work to be completed during normal working hours (8:00am to 5:00pm), Monday through Friday. FPL resources are constrained to preclude completion of work at any time from other than described in this UWS.

5. FPL 23KV UGE TO BE 1-6" HDPE INSTALLED BY DIRECTIONAL BORE USING 10' REAM WITH 3-1K 25KV CABLE

6. Additionally, there will be a tariff fee to install the points of service (riser to 30” hand hole). This fee will be $1,022.88 for each point of service. These fees are collected prior to release to schedule which will come towards the end of the project completion. Contractor to provide FPL address for each metered location.

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FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY WORK SCHEDULE

Financial Project ID: WILLIAM BURGESS BLVD EXTENSION
Utility Company: Florida Power and Light--Distribution
FDOT Plans Dated: 05/04/2021 GAI CONSULTANTS

SECTION C: UAO's WORK ACTIVITIES

Act. No.	Utility Facility (type, size, material, status)	From Station/ Offset	To Station/ Offset	Utility Work Activity Description	Dependent Activity	TCP Phase	Consecutive Calendar Days Prior to Const.	Consecutive Calendar Days During Const.
1	OVERHEAD FACILITIES	N/A	N/A	ENGINEERING	PRIOR TO CONSTRUCTION		60	0
2	OVERHEAD FACILITIES	N/A	N/A	PERMIT	PRIOR TO CONSTRUCTION	N/A	30	
3	OVERHEAD FACILITIES	304+80 +/- 102+50 +/-	34' RT 36' RT	SCHEDULING, MATERIAL REQUISITION FOR MINER RD AND WILLIAM BURGESS BLVD	PRIOR TO CONSTRUCTION	N/A	60	
4	OVERHEAD FACILITIES	304+80 +/- 102+50 +/-	34' RT 36' RT	INSTALL POLES/MAKE READY POLE	PRIOR TO CONSTRUCTION	N/A	15	
5	UNDERGROUND FACILITIES	304+80 +/- 102+50 +/-	34' RT 36' RT	DIRECTIONAL BORE	COMPLETION OF STEP 4	N/A	30	
6	OVERHEAD FACILITIES	304+80 +/- 102+50 +/-	34' RT 36' RT	REMOVE OVERHEAD	COMPLETION OF STEP 4 & 5 AND OTHER UTILITIES HAVE REMOVED	N/A	45	
7	OVERHEAD FACILITIES	13+60 +/- TO 25+00	71' LT	SCHEDULING FOR FLOUNDER GIG – TO BE SCHEDULED WITH STEP 3	PRIOR TO CONSTRUCTION	N/A	0	

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FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY WORK SCHEDULE

Financial Project ID: WILLIAM BURGESS BLVD EXTENSION
Utility Company: Florida Power and Light--Distribution
FDOT Plans Dated: 05/04/2021 GAI CONSULTANTS

SECTION C: UAO's WORK ACTIVITIES

Act. No.	Utility Facility (type, size, material, status)	From Station/ Offset	To Station/ Offset	Utility Work Activity Description	Dependent Activity	TCP Phase	Consecutive Calendar Days Prior to Const.	Consecutive Calendar Days During Const.
8	OVERHEAD FACILITIES	13+60 +/- TO 25+00	71' LT	REMOVE OVERHEAD FACILITIES ALONG FLOUNDER GIG	PRIOR TO CONSTRUCTION	N/A	15	
9	OVERHEAD FACILITIES	13+60 +/- TO 25+00	71' LT	REMOVE TOPPED FPL POLES ALONG FLOUND GIG	OTHER UTILITIES HAVE TRANSFERRED	N/A	0	45
10	OVERHEAD FACILITIES	454+00 TO 456+00	38' +/- RT	SCHEDULING AND MATERIAL REQUISTION AT RELOCATION FOR US HWY 17 AND WILLIAM BURGESS BLVD – TO BE SCHEDULED WITH STEP 3	PRIOR TO CONSTRUCTION	N/A	0	
11	OVERHEAD FACILITIES	454+00 TO 456+00	38' +/- RT	RELOCATE POLES ALONG US HWY 17 AND WILLIAM BURGESS BLVD	PRIOR TO CONSTRUCTION	N/A	15	
12	OVERHEAD FACILITIES	454+00 TO 456+00	38' +/- RT	REMOVE TOPPED FPL POLES ALONG US HWY 17 AND WILLIAM BURGESS BLVD	OTHER UTILITIES HAVE TRANSFERRED	N/A	0	45

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FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY WORK SCHEDULE

Financial Project ID: WILLIAM BURGESS BLVD EXTENSION

Utility Company: Florida Power and Light--Distribution

FDOT Plans Dated: 05/04/2021 GAI CONSULTANTS

SECTION C: UAO's WORK ACTIVITIES

Act. No.	Utility Facility (type, size, material, status)	From Station/ Offset	To Station/ Offset	Utility Work Activity Description	Dependent Activity	TCP Phase	Consecutive Calendar Days Prior to Const.	Consecutive Calendar Days During Const.
13	OVERHEAD FACILITIES	200+00 TO 202+00	30' +/- LT	SCHEDULING AND MATERIAL REQUISTION FOR THERESA RD	DURING CONSTRUCTION. CLEARING, GRUBBING, AND STAKING BY CONTRACTOR	N/A		60
14	OVERHEAD FACILITIES	200+00 TO 202+00	30' +/- LT	INSTALL OVERHEAD LINE FOR COUNTY LIGHTING SERVICES	CLEARING, GRUBBING, AND STAKING BY CONTRACTOR	N/A		15
15	OVERHEAD FACILITIES	456+00 +/-	38' +/- RT	SCHEDULING AND MATERIAL REQUISTION AT US HWY 17 AND WILLIAM BURGESS BLVD	COMPLETION OF STEP 8	N/A		60
16	OVERHEAD FACILITIES	456+00 +/-	38' +/- RT	INSTALL OVERHEAD TRANSFORMER	COMPLETION OF STEP 8 & 15	N/A		15
17	OVERHEAD FACILITIES	101+60 +/-	35' +/- RT	SCHEDULING AND MATERIAL REQUISTION AT MINER RD	COORDINATION WITH CONTRACTOR	N/A		60
18	OVERHEAD FACILITIES	101+60 +/-	35' +/- RT	INSTALL TRANSFORMER FOR COUNTY LIGHTING SERVICES	COORDINATION WITH CONTRACTOR	N/A		15

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FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY WORK SCHEDULE

Financial Project ID: WILLIAM BURGESS BLVD EXTENSION
Utility Company: Florida Power and Light--Distribution
FDOT Plans Dated: 05/04/2021 GAI CONSULTANTS

SECTION C: UAO's WORK ACTIVITIES

Act. No.	Utility Facility (type, size, material, status)	From Station/ Offset	To Station/ Offset	Utility Work Activity Description	Dependent Activity	TCP Phase	Consecutive Calendar Days Prior to Const.	Consecutive Calendar Days During Const.
19	END OF SCHEDULE							

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

NASSAU COUNTY BOARD OF COUNTY COMMISIONERS
NASSAU-AMELIA UTILITIES

September 09, 2022

UTILITY WORK SCHEDULE

Pursuant to Section 337.403 F.S., the UAO and NAU agree to the UAO's need for relocation or adjustment to its utilities and NAU's need for a schedule for the UAO to effect the relocation or adjustment. This utility work schedule is based on NAU plans dated in the project information box below. Any deviation by NAU or its contractor from these plans, may void this utility work schedule. Upon notification by NAU of a change to these plans, the UAO may negotiate a new utility work schedule. The UAO agrees to notify NAU and the contractor in writing prior to starting, stopping, resuming, and completing work in accordance with this utility work schedule. The UAO shall obtain a utility permit and comply with requirements of the 2017 Utility Accommodation Manual (UAM) for all work done under this utility work schedule. The UAO is not responsible for events beyond the control of the UAO that could not be reasonably anticipated by the UAO and which could not be avoided by the UAO with exercise of due diligence at the time of the occurrence.

NAU PROJECT INFORMATION

Financial Project ID:	Federal Project ID:
State Road Number: William Burgess Blvd Ext	County: Nassau
NAU Plans Dated: 8/9/2021	District Document No.:

UTILITY AGENCY/OWNER (UAO)

Utility Company: ATT FL		
UAO Project Rep: PK Patel	Phone: 904 699-4976	E-mail: pp5963@att.com
UAO Field Rep: Chris Morris	Phone: 904 504-5672	E-mail: cm3935@att.com

UTILITY SIGNATURE

I have reviewed the NAU plans referenced above and submit this utility work schedule in compliance with UAM Section 5 and agree to be bound by the terms of this utility work schedule.

UAO Rep. _____ Date 10 / 12 / 2022

Name Kevin Bryan

Title Area Manager - Engineerinf

ENGINEER OF RECORD SIGNATURE

I attest this utility work schedule is compatible with the NAU plans referenced above.

EOR. _____ Date __ / __ / ____

Name _____

Title _____

APPROVAL BY DISTRICT UTILITIES

This utility work schedule is complete and acceptable to NAU.

NAU Rep. _____ Date __ / __ / ____

Name _____

Title _____

SECTION A: SUMMARY OF UTILITY WORK

The below days are the total numbers of days shown for all activities in Section C of this utility work schedule. The breakdown of how these days are to be incorporated into the NAU project and the dependence of these days upon the completion of other activities by the UAO or others is shown in Section C.

Days prior to NAU project construction: _____ Days during NAU project construction: 120

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NASSAU COUNTY BOARD OF COUNTY COMMISIONERS
NASSAU-AMELIA UTILITIES

UTILITY WORK SCHEDULE

Financial Project ID:
Utility Company: ATT FL
NAU Plans Dated: 8/9/2021

SECTION B: UAO SPECIAL CONDITIONS/CONSTRAINTS

1. DURING CONSTRUCTION: The contractor shall contact AT&T Florida representative at phone number (904) 504-5672 to schedule field meetings and/or the protection and physical exposure (Locate) of AT&T facilities. AT&T Field representative request 72 hours advance notice be provided during regular business hours whaich are Monday thru Friday 8am to 5pm.
2. In the event damage occurs to AT&T Florida Facilities:
   a.) Call AT&T 877-737-2478
   b.) Notify UAO Project Represtative
   c.) Issue Cut/DamageReport to Nassau County
3. Locate and Protect shall be performed when requested.
4. If the Contractor comes acrosss any out of service facilities during construction, AT&T will provide inspector & crew to verify out of service facilities & will remove as necessary any out of service facilities that are in conflict with FDOT's proposed construction. Any out of service empty ducts will be left in place and grout filled. AT&T representative request 72 hours notice during regular business hours which are Monday thru Friday from 8am to 5pm.
5. All correspondence and coordination herein is with regards to BellSouth Telecommunications, LLC d/b/a AT&T Florida (ATT-D) which is not responsible for facilities owned and managed by AT&T Corp (ATT-T). Any questions with regards to ATT-T facilities should be addressed to Inquiries@pea-inc.net

Definitions:
Locating: The use of test holes by vacuum excavation or comparable non-destructive equipment at critical point along a subsurface utility facility's path thus exposing the underground facility and allowing the precise measurements of the depth and horizontal position to be made.

Designating: Utilizing electromagnetic, magnetic, sonic, and other energy fields for determining the existence and approximate horizontal location of underground utility facilities. Underground facilities will be marked by stakes, flags, paint or other suitable materials in varying combinations dependent upon surface conditions using American Public Works Association Utility Location Coordination Council Color Codes.

Protect: Shall include, but not be limited to, permittee's use of an onsite representative during active construction operations. During excavation operations, Representative may be required to physically expose underground facilities, provide any necessary support to the Facilities, and/or cover aerial facilities as deemed necessary to aid construction

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NASSAU COUNTY BOARD OF COUNTY COMMISIONERS
NASSAU-AMELIA UTILITIES

September 09, 2022

UTILITY WORK SCHEDULE

Financial Project ID: _____
Utility Company: ATT FL
NAU Plans Dated: 8/9/2021

SECTION C: UAO's WORK ACTIVITIES

Act. No.	Utility Facility (type, size, material, status)	From Station/Off set	To Station/Off set	Utility Work Activity Description	Dependent Activity	TCP Phase	Consecutive Calendar Days Prior to Const.	Consecutive Calendar Days During Const.
1				ENGINEERING (DESIGN)				30
2				PERMITTING				30
3				MATERIAL PROCUREMENT				30
	All Facilities within project limits other that noted items on this schedule are to remain in place, Locate/Protect as needed	12+00 LT 82+00	14+00 LT 89+00	Locate/Protect as needed	Roadway contractor to notify AT&T 72 hours prior (See Page 2, Notes 1-4)			20
4	AT, AFO	304+80 RT 102+50 RT		Aerial transfer to new Power pole	Notification to proceed after new pole is placed, once Power/Comcast completion			10
				End of Schedule				

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APPENDIX A

PERMITS

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

FLORIDA DEPARTMENT OF
Environmental Protection

Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

Notification of Acceptance of Use of a General Permit

Mr. Mickhael Sulayman
WWW Project Manager
Jacksonville Electric Authority
21 West Church Street
Jacksonville, Florida 32202
Sulams@JEA.com

General Permit Number: 0083071-273-DSGP
Project Name: William Burgess Boulevard Extension 16" Water Main
County: Nassau
Effective Date: August 3, 2022
Expiration Date: August 2, 2027
Water Supplier: Lofton Oaks WTP
PWS ID: 2454338

Dear Mr. Sulayman:

On August 3, 2022, the Florida Department of Environmental Protection received a "*Notice of Intent to Use the General Permit for Construction of Water Main Extensions for PWSs*" [DEP Form No 62-555.900(7)], under the provisions of Rule 62-4.530 and Chapter 62-555, Florida Administrative Code (F.A.C.). The proposed project includes 10,338 LF of 16" PVC water main, 89 LF of 12" PVC water main, 11 LF of 10" PVC water main, and 94 LF of 8" PVC water main.

Based upon the submitted Notice and accompanying documentation, this correspondence is being sent to advise that the Department does not object to the use of such general permit at this time. Please be advised that the permittee is required to abide by Rule 62-555.405, F.A.C., all applicable rules in Chapters 62-4, 62-550, 62-555, F.A.C., and the General Conditions for All General Drinking Water Permits (found in 62-4.540, F.A.C.).

The permittee shall comply with all sampling requirements specific to this project. These requirements are attached for review and implementation.

Pursuant to Rule 62-555.345, F.A.C., the permittee shall submit a certification of construction completion [DEP Form No. 62-555.900(9)] to the Department and obtain approval, or clearance, from the Department before placing any water main extension constructed under this general permit into operation for any purpose other than disinfection or testing for leaks.

Within 30 days after the sale or legal transfer of ownership of the permitted project that has not been cleared for service in total by the Department, both the permittee and the proposed permittee shall sign and submit an application for transfer of the permit using Form 62-555.900(8), F.A.C., with the appropriate fee. The permitted construction is not authorized past the 30-day period unless the permit has been transferred.

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This permit will expire five years from the effective date. If the project has been started and not completed by that time, a new permit must be obtained before the expiration date in order to continue work on the project, per Rule 62-4.030, F.A.C.

Sincerely,

Jennifer C. Lyles

Jennifer Lyles
Collection/Distribution System Coordinator
Permitting Program

c:
Matthew Bolyard, PE, M.Bolyard@gaiconsultants.com
Justin Wright, waldzw@jea.com, jeaenvsrvc@jea.com, wrigjt@jea.com
DEP: Conor Lucey, Jennifer Lyles, Brian Durden

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

A Civil Penalty May Be Incurred
if this project is placed into operation before obtaining a clearance from this office.

Requirements for clearance upon completion of projects are as follows:

1) **Clearance Form**
Submission of a fully completed Department of Environmental Protection (DEP) Form 62-555.900(9), *Certification of Construction Completion and Request for Clearance to Place Permitted PWS Components into Operation*.

2) **Record Drawings, if deviations were made**
Submission of the portion of record drawings showing deviations from the DEP construction permit, including preliminary design report or drawings and specifications, if there are any deviations from said permit. (Note that it is necessary to submit a copy of only the portion of record drawings showing deviations and not a complete set of record drawings.)

3) **Bacteriological Results**
Copies of satisfactory bacteriological analysis (a.k.a. Main Clearance), taken within sixty (60) days of completion of construction, from locations within the distribution system or water main extension to be cleared, in accordance with Rules 62-555.315(6), 62-555.340, and 62-555.330, F.A.C. and American Water Works Association (AWWA) Standard C 651-92, as follows:

- The endpoint of the proposed addition;
- Any water lines branching off a main extension;
- Every 1,200 feet of water main;
- Each location shall be sampled on two consecutive days (at least 6 hours apart) with sample point locations and chlorine residual readings clearly indicated on the report and/or drawings.
- A sketch or description of all bacteriological sampling locations must also be provided.
- Bacteriological sample results will be considered unacceptable if the tests were completed more than 60 days before the Department receives the results.

For further clarification, contact:
FDEP – Northeast District
Potable Water Permitting
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256
(904) 256-1700

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FLORIDA DEPARTMENT OF
Environmental Protection

Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

August 3, 2022

In the Matter of an
Application for Permit by:

Mr. Mickhael Sulayman,
W/WW Project Manager
Jacksonville Electric Authority
21 West Church Street
Jacksonville, Florida 32202
Sulams@jea.com

Permit Number: 0003013-303-DWC
Project Name: William Burgess Boulevard Extension 16" Dryline Forcemain
County: Nassau
Connected To: Nassau WWTF

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number 0003013-303-DWC to construct a domestic wastewater collection/transmission system, issued pursuant to 403.087(1), Florida Statutes.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, Florida Statutes, within fourteen days of receipt of notice. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Petitions by the applicant or any of the persons listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), Florida Statutes, must be filed within fourteen days of publication of the notice or within fourteen days of receipt of the written notice, whichever occurs first. Under Section 120.60(3), Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

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The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within fourteen days of receipt of notice shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, Florida Statutes. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the Department permit identification number and the county in which the subject matter or activity is located;
(b) A statement of how and when each petitioner received notice of the Department action;
(c) A statement of how each petitioner's substantial interests are affected by the Department action;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
(f) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and
(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation under Section 120.573, Florida Statutes, is not available for this proceeding.

This permit action is final and effective on the date filed with the clerk of the Department unless a petition is filed in accordance with the above. Upon the timely filing of a petition this permit will not be effective until further order of the Department.

Any party to the permit has the right to seek judicial review of the permit action under Section 120.68, Florida Statutes, by the filing of a notice of appeal under Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when this permit action is filed with the clerk of the Department.

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Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Michelle Neeley
Environmental Manager
Permitting Program

CERTIFICATE OF SERVICE
The undersigned duly designated deputy clerk hereby certifies that this permit and all copies were sent on the filing date below to the following listed persons:

Matthew Bolyard, PE, M.Bolyard@Gaiconsultants.com
Justin Wright, waldzw@jea.com, jeaenvsrvc@jea.com, wrigjt@jea.com
Conor Lucey, DEP
Jennifer Lyles, DEP
Brian Durden, DEP

FILING AND ACKNOWLEDGMENT
FILED, on August 3, 2022, pursuant to Section 120.52, F.S., with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk **Date**

August 3, 2022

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FLORIDA DEPARTMENT OF
Environmental Protection

Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

STATE OF FLORIDA
DOMESTIC WASTEWATER COLLECTION/TRANSMISSION INDIVIDUAL PERMIT

PERMITTEE:
Mr. Mickhael Sulayman,
W/WW Project Manager
Jacksonville Electric Authority
21 West Church Street
Jacksonville, Florida 32202
Sulams@jea.com

PERMIT NUMBER: 0003013-303-DWC
PROJECT NAME: William Burgess Boulevard Extension 16" Dryline Forcemain
COUNTY: Nassau
EFFECTIVE DATE: August 3, 2022
EXPIRATION DATE: August 2, 2027
CONNECTED TO: Nassau WWTF

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4 and 62-604, Florida Administrative Code (F.A.C.). The above named permittee is hereby authorized to construct the facilities shown on the application and other documents on file with the Department and made a part hereof and specifically described as follows:

DESCRIPTION OF PROJECT: A collection/transmission system consisting of 183 LF of 16" dryline forcemain, and the required appurtenances to serve a future population. The proposed average daily flow associated with this project is 0 gpd.

LOCATION OF PROJECT: This project will be located on William Burgess Boulevard between US 17 and Miner Road, in Nassau County.

IN ACCORDANCE WITH: The limitations, requirements and other conditions set forth in pages 1 through 2 of this permit.

PERMIT CONDITIONS:

1. This permit is subject to the general conditions of Rule 62-4.160, F.A.C., as applicable. This rule is available at the Department's Internet site at: http://www.dep.state.fl.us/water/wastewater/rules.htm#domestic *[62-4.160, 5-1-03]*

2. Upon completion of construction of the collection/transmission system, and before placing the facilities into operation for any purpose other than testing for leaks or testing equipment operation, the permittee shall electronically submit using the Department's Business Portal at http://www.fldepportal.com/go/, Form 62-604.300(3)(b), Notification of Completion of Construction for a Domestic Wastewater Collection/Transmission System, http://www.flrules.org/Gateway/reference.asp?Noo=Ref-13560). If construction of the collection/transmission system was permitted by a delegated local program, the permittee shall submit Form 62-604.300(3)(b) to the delegated local program instead, and follow the requirements of the delegated local program *[62-604.700(2), 10-4-21]*

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3. New or modified collection/transmission facilities can be placed into operation 3 days after Form 62-604.300(3)(b), is submitted and received by the Department or delegated local program, provided no substantial deviations are noted on Form 62-604.300(3)(b) and the Department or delegated local program does not notify the permittee of public health or environmental concerns regarding placing the facilities into operation. *[62-604.700(3), 10-4-21]*

4. When substantial deviations are noted on Form 62-604.300(3)(b), new or modified collection/transmission facilities can be placed into operation 10 days after Form 62-604.300(3)(b) is submitted unless the Department or delegated local program notifies the permittee of public health or environmental concerns regarding placing the facilities into operation. *[62-604.700(4), 10-4-21]*

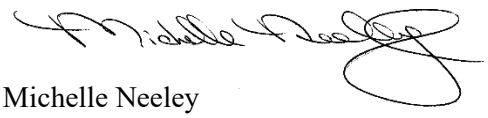
5. Permit revisions shall only be made in accordance with paragraph 62-4.050(4)(s), F.A.C. Request for revisions shall be made to the Department in writing and shall include the appropriate fee. Revisions not covered under paragraph 62-4.050(4)(s), F.A.C., shall require a new permit. *[62-604.600(8), 10-4-21]*

6. Abnormal events shall be reported to the Department's Northeast District Office in accordance with Rule 62-604.550, F.A.C. For unauthorized releases or spills in excess of 1,000 gallons per incident, or other abnormal events where information indicates that public health or the environment will be endangered, oral reports shall be provided to the Department by calling the STATE WATCH OFFICE TOLL FREE NUMBER (800) 320-0519 as soon as practicable, but no later than 24 hours from the time that the owner/operator becomes aware of the discharge. Oral reports, not otherwise required to be provided pursuant to 62-604.550(2)(a) (i.e. unauthorized releases or spills of 1,000 gallons per incident or less and where information indicates that public health or the environment will not be endangered), shall be provided to the Department within 24 hours from the time the owner/operator of the collection/transmission system becomes aware of the circumstances. *[62-604.550, 10-4-21]*

7. This permit is for CONSTRUCTION ONLY of the collection/transmission system project. This permit does not authorize the connection of this collection/transmission system project to the designated wastewater treatment plant. This permit shall not be construed to infer that the clearance necessary for connection shall be granted. Any such clearance shall be granted only when reasonable assurance is given that adequate treatment and disposal is available in accordance with Department rules, regulations, and permits. Partial clearance may be granted, if required. *[62-604.130(1) and 62-604.600(7), 10-4-21]*

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Michelle Neeley
Environmental Manager
Permitting Program

Date: August 3, 2022

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

FLORIDA DEPARTMENT OF
Environmental Protection

Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

Notification of Acceptance of Use of a General Permit

Mr. Mickhael Sulayman,
W/WW Project Manager
Jacksonville Electric Authority
21 West Church Street
Jacksonville, Florida 32202
Sulams@jea.com

General Permit Number: 0003013-304-DWC
Project Name: William Burgess Boulevard Extension 16" Forcemain
County: Nassau
Effective Date: August 3, 2022
Expiration Date: August 2, 2027
Connected To: Nassau WWTF

Dear Mr. Sulayman:

This letter acknowledges receipt of your Notification/Application for Constructing a Domestic Wastewater Collection/Transmission System for the subject project. Our office received the Notice on August 3, 2022.

This is to advise you that the Department does not object to your use of such General Permit. Please note, the attached requirements apply to your use of this General Permit for constructing the proposed domestic wastewater collection/transmission system.

You are further advised that the construction activity must conform to the description contained in your Notification/Application for Constructing a Domestic Wastewater Collection/Transmission System and that any deviation will subject the permittee to enforcement action and possible penalties.

If you have any questions concerning the use of the general permit, please contact this office at (904) 256-1700.

Sincerely,

Jennifer C. Lyles

Jennifer Lyles
Collection/Distribution System Coordinator
Permitting Program

c:
Matthew Bolyard, PE, M.Bolyard@gaiconsultants.com
Justin Wright, waldzw@jea.com, jeaenvsrvc@jea.com, wrigjt@jea.com
DEP: Conor Lucey, Jennifer Lyles, Brian Durden

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

REQUIREMENTS FOR USE OF THE GENERAL PERMIT FOR DOMESTIC WASTEWATER COLLECTION/TRANSMISSION SYSTEMS:

1. This general permit is subject to the general permit conditions of Rule 62-4.540, F.A.C., as applicable. This rule is available at the Department's Internet site at: http://www.dep.state.fl.us/water/wastewater/rules.htm#domestic *[62-4.540, 5-1-03]*.

2. This general permit does not relieve the permittee of the responsibility for obtaining a dredge and fill permit where it is required. *[62-604.600(6)(b)1, 10-4-21]*

3. This general permit cannot be revised, except to transfer the permit. *[62-604.600(6)(b)2, 10-4-21]*

4. Upon completion of construction of the collection/transmission system, and before placing the facilities into operation for any purpose other than testing for leaks or testing equipment operation, the permittee shall electronically submit using the Department's Business Portal at http://www.fldepportal.com/go/, Form 62-604.300(3)(b), Notification of Completion of Construction for a Domestic Wastewater Collection/Transmission System, http://www.flrules.org/Gateway/reference.asp?Noo=Ref-13560). If construction of the collection/transmission system was permitted by a delegated local program, the permittee shall submit Form 62-604.300(3)(b) to the delegated local program instead, and follow the requirements of the delegated local program *[62-604.700(2), 10-4-21]*

5. New or modified collection/transmission facilities can be placed into operation 3 days after Form 62-604.300(3)(b), is submitted and received by the Department or delegated local program, provided no substantial deviations are noted on Form 62-604.300(3)(b) and the Department or delegated local program does not notify the permittee of public health or environmental concerns regarding placing the facilities into operation. *[62-604.700(3), 10-4-21]*

6. When substantial deviations are noted on Form 62-604.300(3)(b), new or modified collection/transmission facilities can be placed into operation 10 days after Form 62-604.300(3)(b) is submitted unless the Department or delegated local program notifies the permittee of public health or environmental concerns regarding placing the facilities into operation. *[62-604.700(4), 10-4-21]*

7. Abnormal events shall be reported to the Department's Northeast District Office in accordance with Rule 62-604.550, F.A.C. For unauthorized releases or spills in excess of 1,000 gallons per incident, or other abnormal events where information indicates that public health or the environment will be endangered, oral reports shall be provided to the Department by calling the STATE WATCH OFFICE TOLL FREE NUMBER (800)320-0519 as soon as practicable, but no later than 24 hours from the time that the owner/operator becomes aware of the discharge. Oral reports, not otherwise required to be provided pursuant to 62-604.550(2)(a) (i.e. unauthorized releases or spills of 1,000 gallons per incident or less and where information indicates that public health or the environment will not be endangered), shall be provided to the Department within 24 hours from the time the owner/operator of the collection/transmission system becomes aware of the circumstances. *[62-604.550, 10-4-21]*

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Date: 10/4/2023 Permit No.: 2023-K-294-00132

Name of Applicant or Authorized Agent: RANDAL THOMPSON

Entity (if applicable): _____

(If entity, furnish contact information for responsible representative)

Address: 1301 Riverplace Blvd., Suite 900 Zip Code: 32207

City/State: Jacksonville, Florida Telephone No.: (904) 559-8084 ext. _____

Email Address: r.thompson@gaiconsultants.com

Activity / Project Site

County: Nassau State Road: SR 5 Section: 020, 000

From Mile Post: 1.942 to Mile Post: 2.567

Construction Proposed or Underway: Yes ☐ No ☐ FM Project No.: _____

Name of Municipality if Work is within Limits: _____

Description of Work Activity:
Construction of new roadway extension for William Burgess Blvd. from US 17 to Miner Rd. Work includes earthwork, paving, drainage, sidewalks, underground utilities, signalization and signing & pavement marking.

General Provisions

1. Attach any pertinent plans or drawings.
2. Attach notification letters sent to any Utilities both aerial and underground that will be potentially impacted.
3. The designated FDOT Engineer shall be notified 48 hours prior to beginning of work. Contact Sherman Windley at 9043605462.
4. All work, materials and equipment shall be subject to inspection and approval by FDOT. Applicants certification of work at completion is required.
5. The permittee shall be responsible to place and display safety devices and proper maintenance of traffic in accordance with the latest version of the Department's Design Standards, index series 600, or an alternative plan signed and sealed by a professional Engineer and attached with the permit.
6. All FDOT property shall be restored to its original condition. Any damage to FDOT property as a result of this work shall be repaired and restored in a manner acceptable to the FDOT at the sole expense of the permittee.

Approved
2023-K-294-00132
Jason Quijano
12/16/2023

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Special Provisions

For future project at intersection of William Burgess @ US17 Nassau County for Spring 2024

Conditions

1. In the event the permittee fails to meet any of the requirements of this permit by the FDOT, the permitted activity must cease until brought into compliance. If compliance can not be met, then the permit will be rendered void and said work shall be removed from the right of way at no cost to the FDOT.

2. Work shall commence within 90 days of permit approval.
   Work shall be completed by 1/31/2025 (Date).

3. The rights and privileges herein set out are granted only to the extent of the State's right, title and interest in the land to be entered upon and used by the permittee, and the permittee will, at all times, and to the extent permitted by law, assume all risk of and indemnify, defend and save harmless the State of Florida and the FDOT from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercises by said permittee of the aforesaid rights and privileges.

Applicant

I hereby agree to comply with all terms and conditions set forth and described in this permit.

RANDAL THOMPSON, Design Technical leader	RANDAL THOMPSON	10/4/2023
Printed or Typed Name and Title	Signature	Date

FDOT

Approved By:

Jason Quijano	Jason Quijano	12/16/2023
Print Designated Engineer	Signature	Date

MAINTENANCE PROGRAM ENGINEER
Title

Approved
2023-K-294-00132
Jason Quijano
12/16/2023

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FDOT Special Provisions

Contact Sherman Windley, Permit Inspector Manager at sherman.windley@dot.state.fl.us or (904)-360-5462, a minimum of two (2) business days prior to starting work within FDOT Right of Way to schedule a pre-construction meeting. Be advised that a pre-construction meeting must be held with an FDOT inspector prior to any work commencing within FDOT Right of Way.

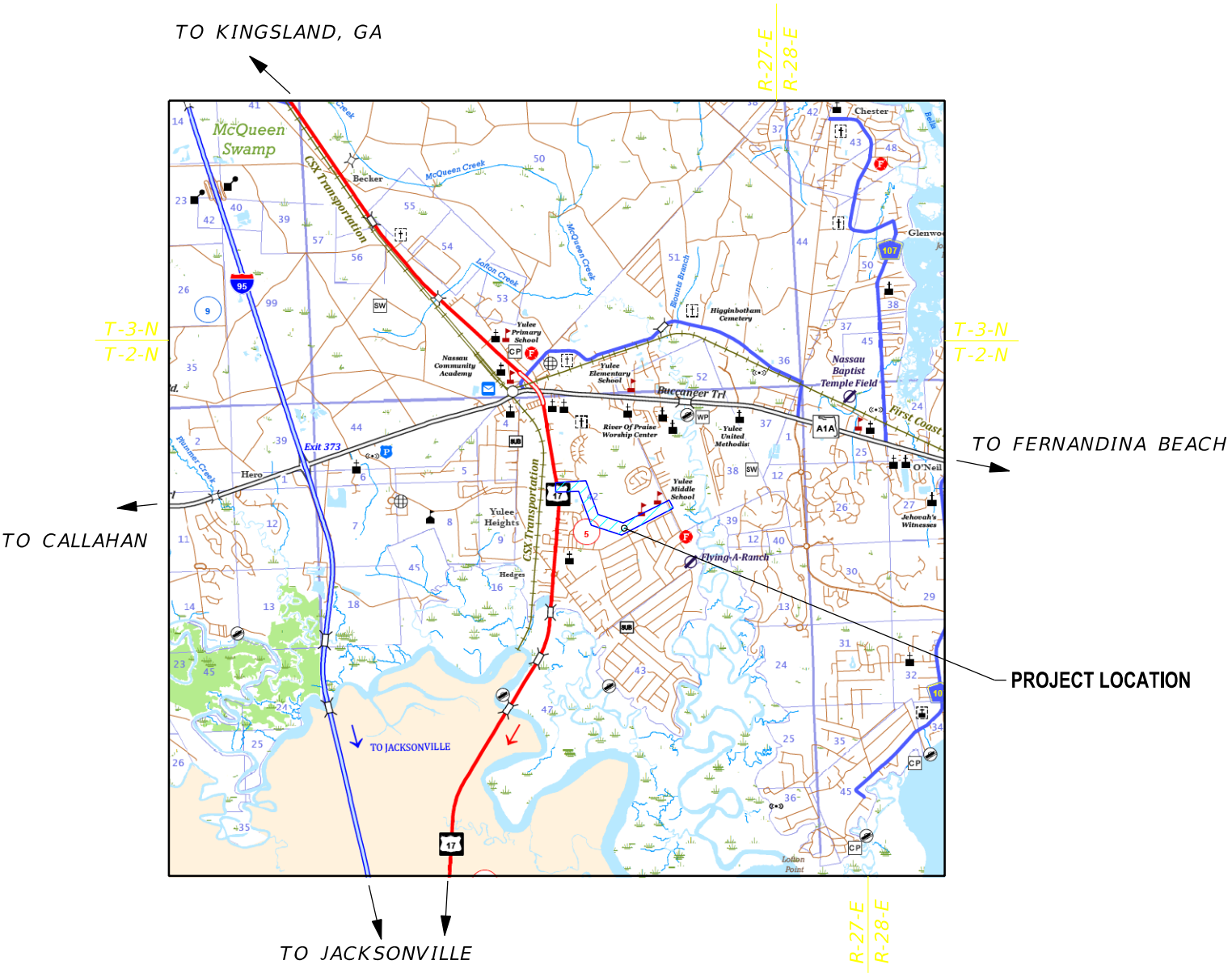
- Provide as built plans after permit project completion.
- Any disturbed areas will be restored with sod or like material immediately.
- Any disturbed sidewalk (joint to joint) will be restored to current standards in original or better condition within 24 hours.
- Any lane closure request will require 2 weeks' notice for approval and may be restricted to night work only.
- No Hay Bales for erosion or sedimentation controls are allowed in the FDOT Right of Way.
- This permit covers work within FDOT Right of Way only.
-
-
-

NO LANE CLOSURES ALLOWED WITHIN FDOT ROW

Approved
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12/16/2023

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[redacted] LOCATION MAP



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NASSAU COUNTY ENGINEERING

CONTRACT PLANS

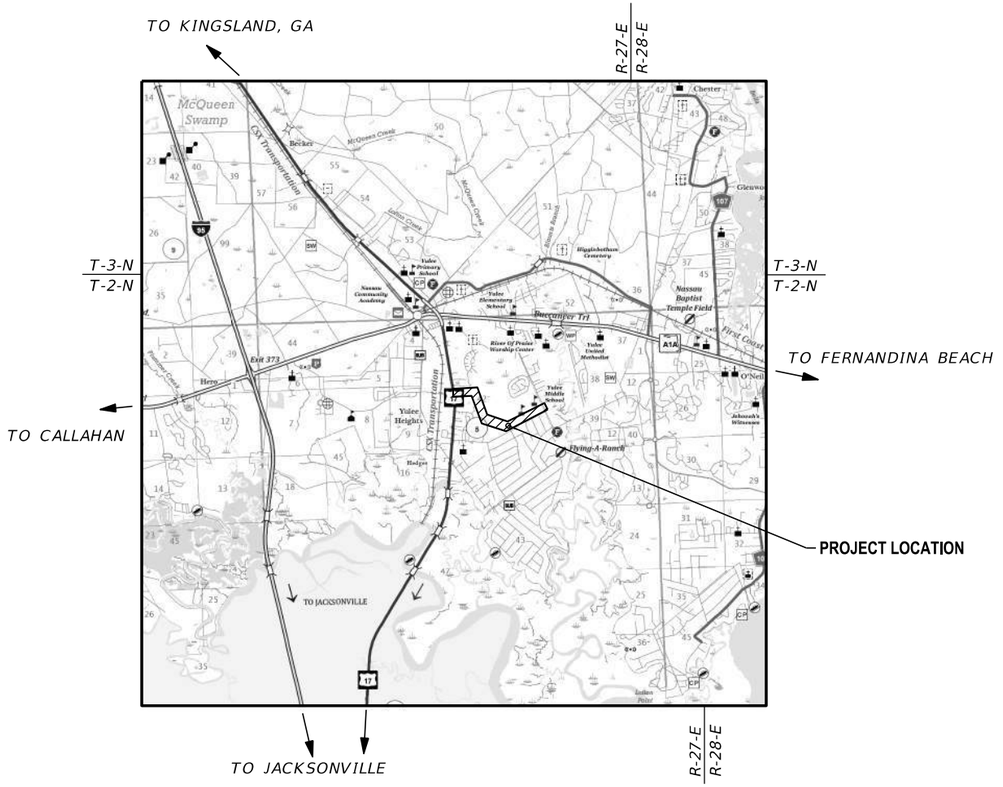
WILLIAM BURGESS BLVD. EXTENSION

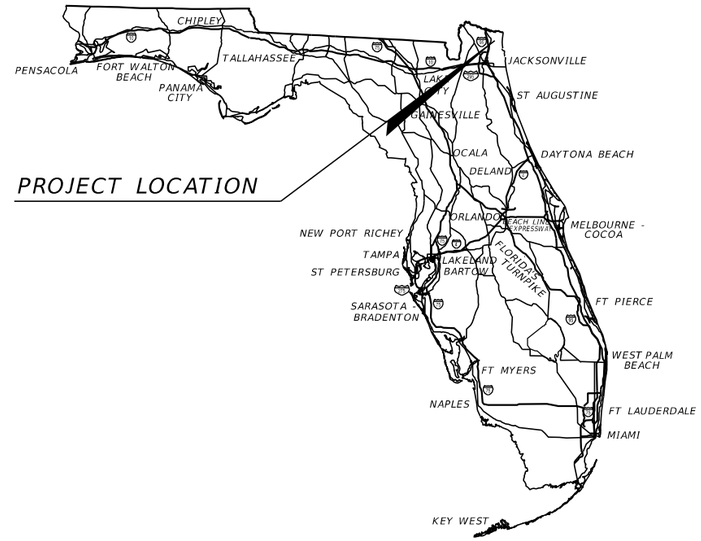
CONTRACT PLANS COMPONENTS

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- SIGNALIZATION PLANS
- LIGHTING PLANS
- LANDSCAPING PLANS
- JEA WATER/SEWER PLANS

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W-1 - W-6	WETLAND IMPACT PLAN





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A.M. "HUPP" HUPPMAN, DISTRICT 2
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ROADWAY PLANS ENGINEER OF RECORD:

RONALD F. HOOGLAND, P.E.
P.E. NO.: 45247
GAI CONSULTANTS, INC
12574 FLAGLER CENTER BLVD., SUITE 202
JACKSONVILLE, FL 32258

CONTRACT NO.:
VENDOR NO.: 251260999-002

NASSAU COUNTY PROJECT MANAGER:

ROBERT T. COMPANION, P.E.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2022/2023 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Nassau County Ordinance 99-17, Roadway and Drainage Standards

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January, 2022 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

Preliminary
10/04/2023 6:58:25 AM

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Jason Quilano
12/16/2023

SHEET NO. 1

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RONALD F. HOOGLAND
LICENSE
No 45247
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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LAURA S. PHILLIPS
LICENSE
No 54972
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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REVISIONS

REV	DATE	BY	DESCRIPTION

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Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	9/26/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

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2

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Jason Quirino
12/16/2023

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APPENDIX B

PLANS AND DRAWINGS

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NASSAU COUNTY ENGINEERING

CONTRACT PLANS

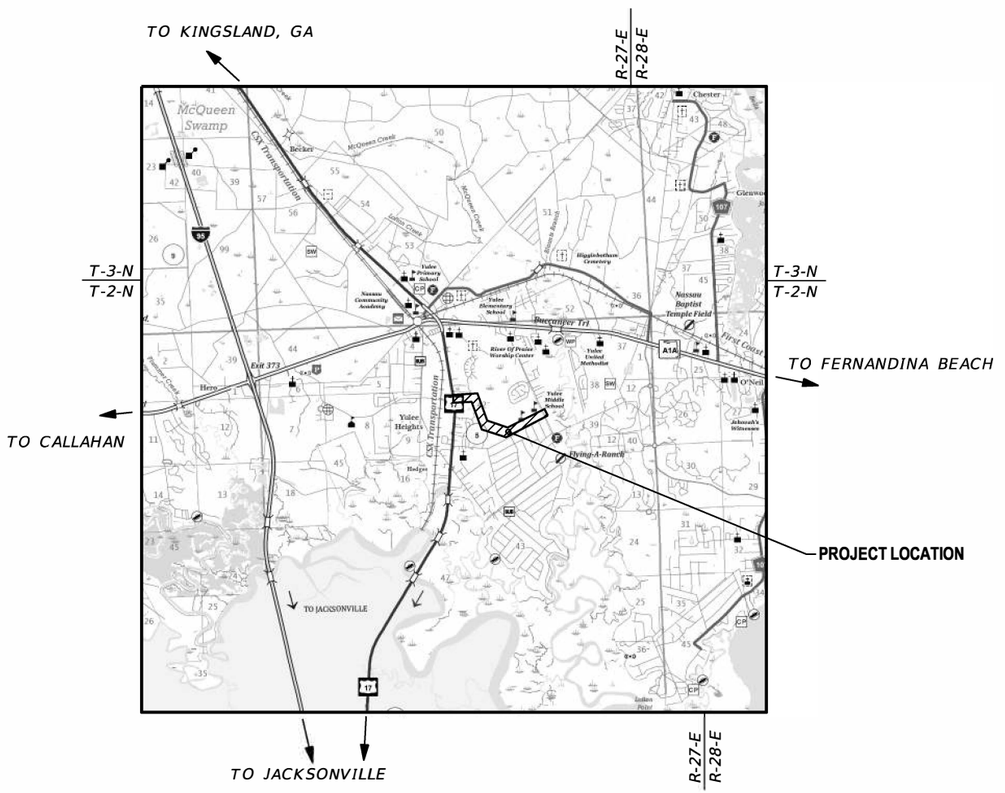
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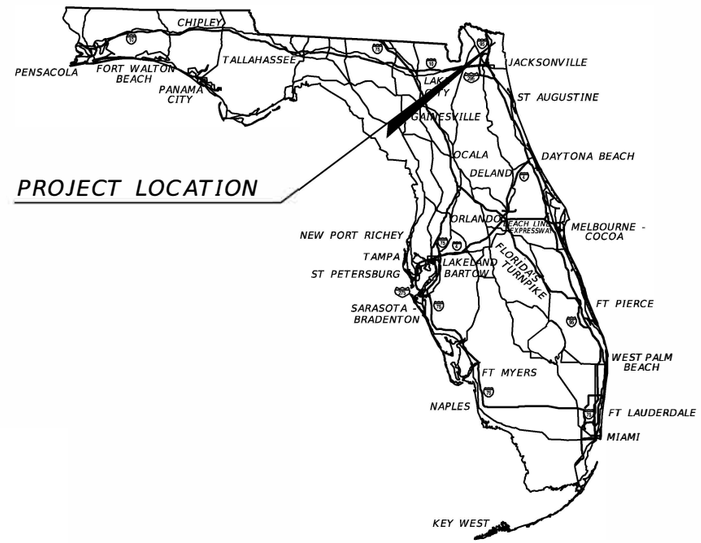
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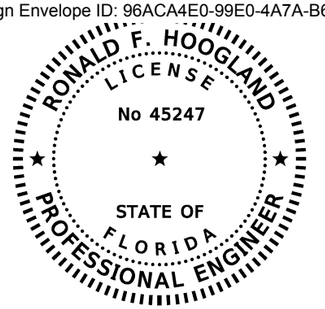
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GOVERNING STANDARD SPECIFICATIONS:

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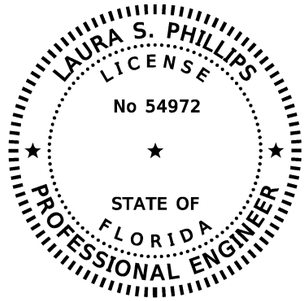
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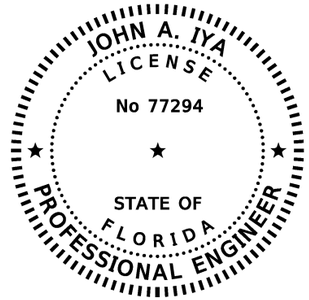
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REVISIONS

REV	DATE	BY	DESCRIPTION

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904.363.1110
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RONALD F. HOOGLAND, P.E. Lic. No. 45247

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DATE:	10/24/2023
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CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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NASSAU COUNTY, FLORIDA

SHEET NO.
2

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STATION EQUATION:
STA. 13+18.27 ℄ CONST. WILLIAM BURGESS BLVD. =
STA. 455+05.10 ℄ CONST. US 17/ SR 15

BEGIN PROJECT
STA. 4+31.22 ℄ CONST.
WILLIAM BURGESS BLVD.

℄ CONST. WILLIAM BURGESS BLVD.

℄ CONST. US 17/ SR 15

S 84° 03' 12" E

N 81° 50' 24" E

S 79° 05' 01" E

N 08° 09' 07" W

N 06° 00' 23" E

S 12° 56' 13" E

EX-1
MES
INV. = 25.25 (E) 36" RCP

EX-2
MANHOLE
TOP EL. = 32.47
INV. = 24.76 (W) 36" RCP
INV. = 24.86 (E) 24" RCP

EX-3
DITCH BOTTOM INLET
GRATE EL. = 30.31
INV. = 25.33 (W) 24" RCP
INV. = 25.43 (E) 24" RCP
INV. = 26.49 (S) 18" RCP

EX-4
DITCH BOTTOM INLET
GRATE EL. = 31.30
INV. = 27.16 (N) 18" RCP

EX-1 0.49 AC.
EX-2
EX-3 0.13 AC.
S-112 0.25 AC.
S-111
S-113 0.25 AC.
S-112A 0.02 AC.
E-4 0.39 AC.
S-110 0.28 AC.
S-115
S-114
S-1 0.49 AC.
S-2 0.23 AC.
S-3 0.17 AC.
S-4 0.15 AC.
S-5 0.07 AC.
S-6 0.10 AC.
S-7 0.08 AC.
S-8 0.26 AC.
S-9 0.19 AC.
S-10 0.83 AC.
S-11
S-12 0.19 AC.
S-12A 0.22 AC.
S-13 0.24 AC.
S-13A 0.30 AC.
S-14 0.55 AC.
S-14A 0.51 AC.
S-15 0.17 AC.
S-15A 0.14 AC.
S-16 0.11 AC.
S-16A
S-18 0.23 AC.
S-19 0.21 AC.
S-20 0.21 AC.
S-21 0.18 AC.
S-22 0.29 AC.
S-23 0.26 AC.
DS-A
POND A

MATCH LINE STA. 40+60.00

N

0 50 200
Feet

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CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

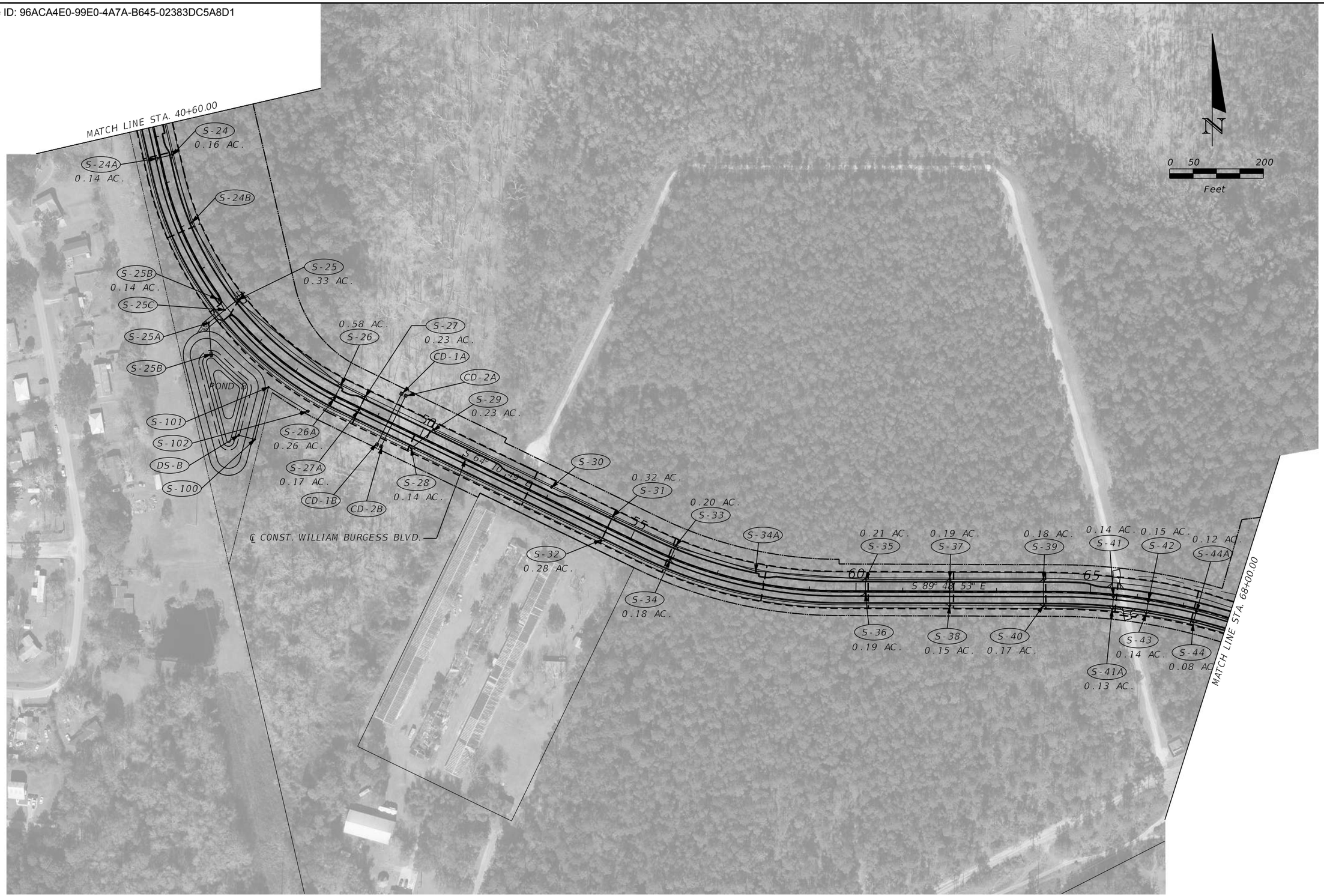
This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

DRAINAGE MAP

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 3

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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REV	DATE	BY	DESCRIPTION

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904.363.1110
Certificate of Authorization:EB9951

LAURA S. PHILLIPS, P.E. Lic. No. 54972

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

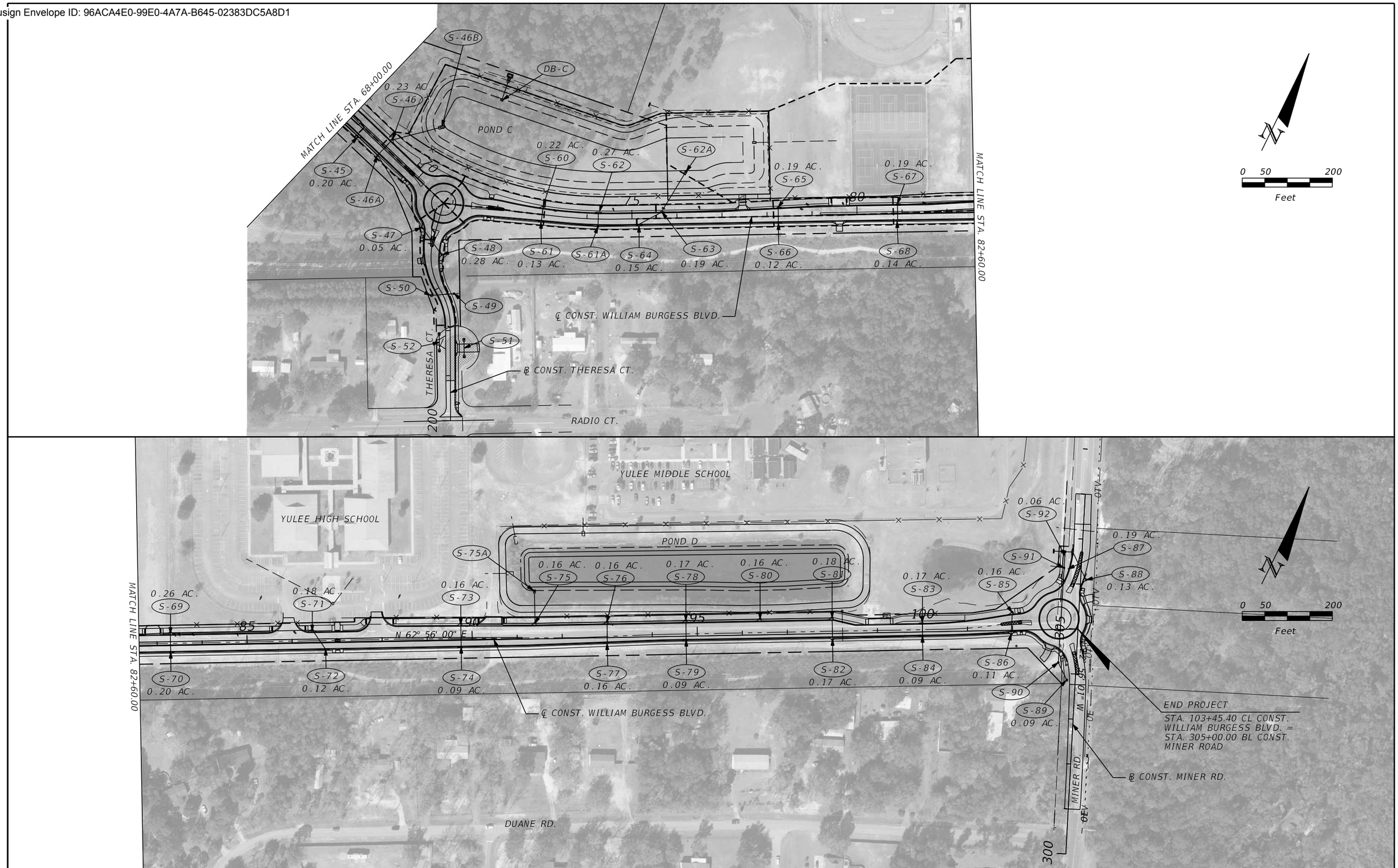
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DRAINAGE MAP

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 4

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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LAURA S. PHILLIPS, P.E. Lic. No. 54972

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
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APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

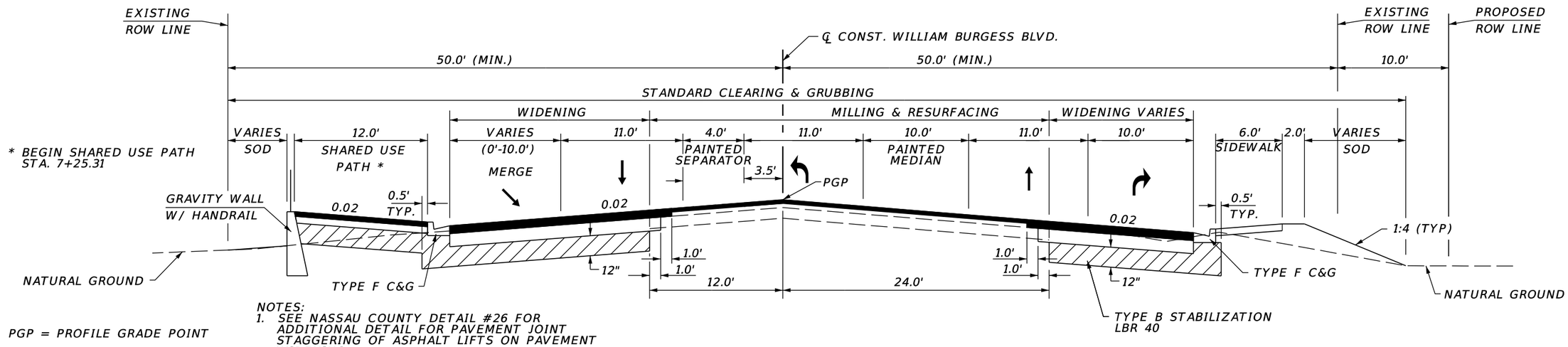
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DRAINAGE MAP

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
5

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



PGP = PROFILE GRADE POINT

NOTES:
1. SEE NASSAU COUNTY DETAIL #26 FOR ADDITIONAL DETAIL FOR PAVEMENT JOINT STAGGERING OF ASPHALT LIFTS ON PAVEMENT WIDENING.
2. OUTSIDE PAVEMENT WIDENING STA. 4+31.22 TO STA. 9+03.60 SEE DETAIL NO. 1.

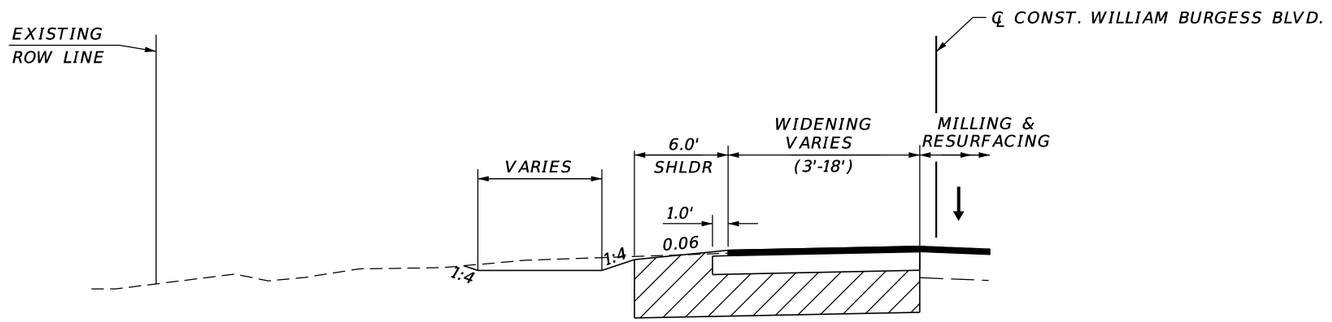
TYPICAL SECTION NO. 1

STA. 4+31.22 TO STA. 12+60.00

TRAFFIC DATA

WILLIAM BURGESS BLVD.
WEST OF US 17
CURRENT YEAR (2022) = 8,100
INTERIM YEAR (2032) = 19,000
DESIGN YEAR (2042) = 31,000

DESIGN SPEED 40 MPH
POSTED SPEED 35 MPH



DETAIL NO. 1

STA. 4+31.22 TO STA. 7+25.31

MILLING & RESSURFACING

MILL EXISTING ASPHALT PAVEMENT (1.5" AVG. DEPTH)
FRICTION COURSE FC 12.5 (TRAFFIC C) (1.5") (PG76-22)

OVERBUILD

(STA. 9+61.00 TO STA. 12+51.00)

TYPE SP 12.5 (TRAFFIC C) (VARIES)

ROADWAY PAVEMENT

OPTIONAL BASE GROUP 9 WITH
TYPE SP 12.5 (TRAFFIC C) (1.5") AND
FRICTION COURSE FC 12.5 (TRAFFIC C) (1.5") (PG76-22)

SHARED USE PATH

OPTIONAL BASE GROUP 4 WITH
TYPE SP 12.5 (TRAFFIC C) (1.5")

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

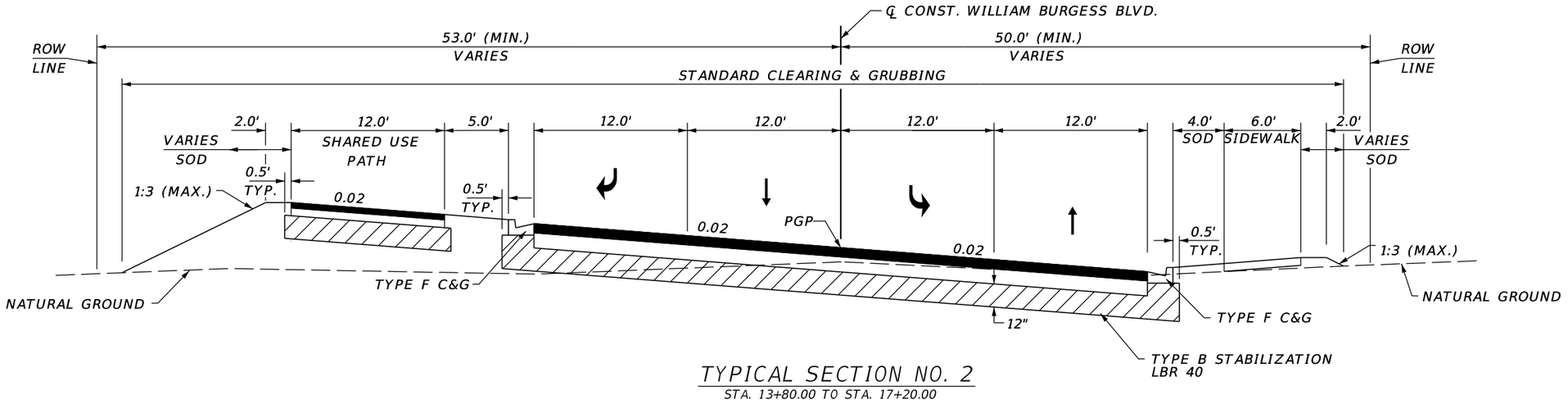
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TYPICAL SECTION

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 6

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



TYPICAL SECTION NO. 2

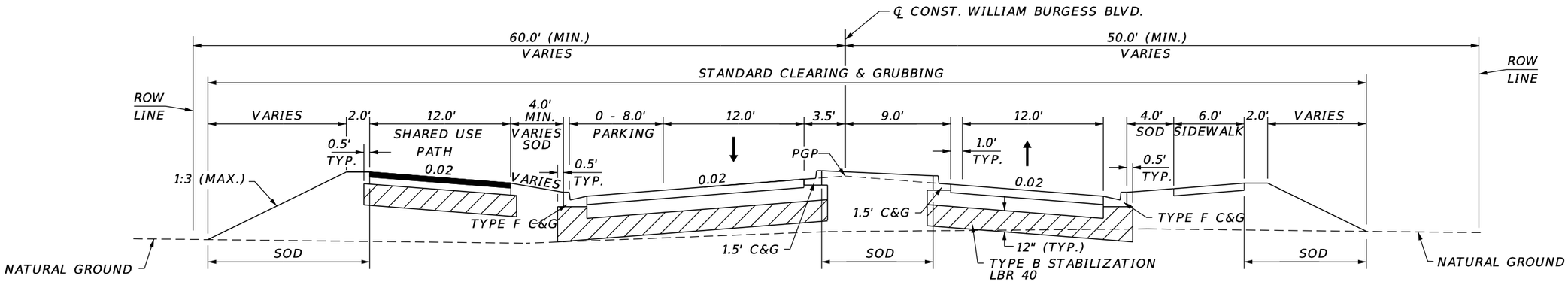
STA. 13+80.00 TO STA. 17+20.00

NOTE: CROSS SLOPES FROM STA. 13+39 TO STA. 17+20 IS IN TRANSITION FOR SUPERELEVATION AND RUNOUT.

TRAFFIC DATA

WILLIAM BURGESS BLVD.
EAST OF US 17
CURRENT YEAR (2022) = 3,200
INTERIM YEAR (2032) = 16,000
DESIGN YEAR (2042) = 17,000

DESIGN SPEED 40 MPH
POSTED SPEED 30 MPH



TYPICAL SECTION NO. 3

STA. 17+20.00 TO STA. 67+20.00

ROADWAY PAVEMENT

OPTIONAL BASE GROUP 9 WITH
TYPE SP 12.5 (TRAFFIC C) (1.5") AND
FRICTION COURSE FC 12.5 (TRAFFIC C) (1.5") (PG 76-22)

SHARED USE PATH

OPTIONAL BASE GROUP 4 WITH
TYPE SP 12.5 (TRAFFIC C) (1.5")

REVISIONS			
REV	DATE	BY	DESCRIPTION

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SCALE:	AS SHOWN
DATE:	10/24/2023
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CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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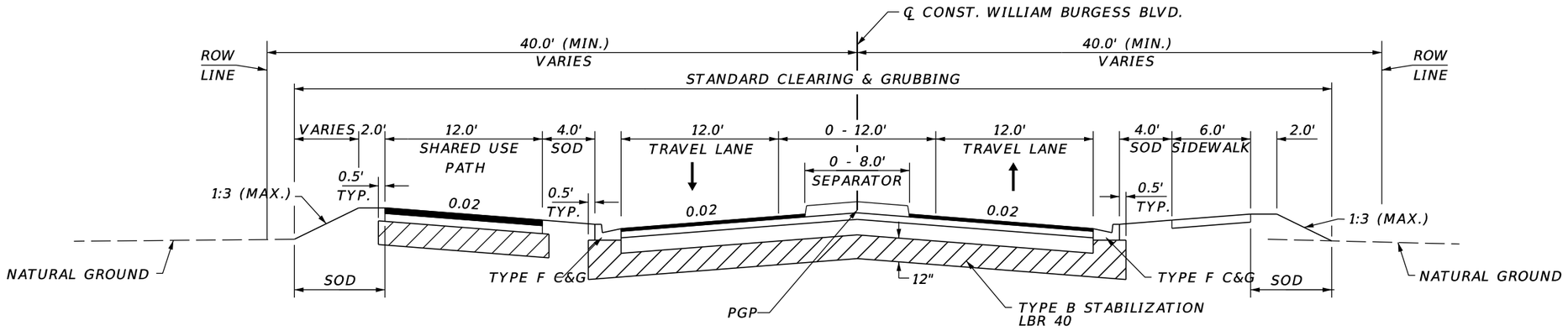
TYPICAL SECTION

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
7

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TYPICAL SECTION NO. 4

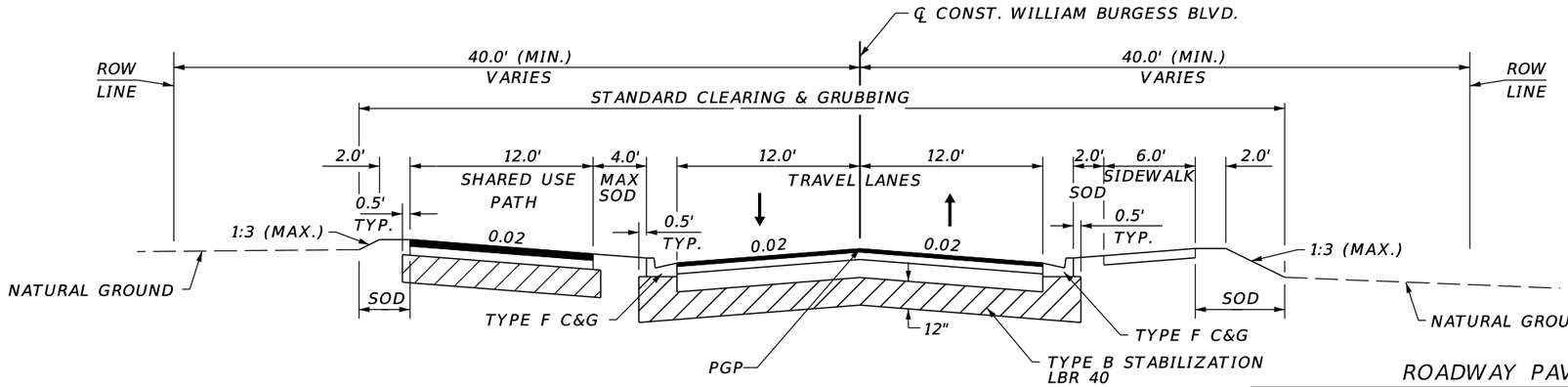
STA. 67+20.00 TO STA. 73+30.00

TRAFFIC DATA

WILLIAM BURGESS BLVD.
EAST OF US 17
CURRENT YEAR (2022) = 3,200
INTERIM YEAR (2032) = 16,000
DESIGN YEAR (2042) = 17,000

DESIGN SPEED 40 MPH
POSTED SPEED 30 MPH

NOTE: SEE INTERSECTION DETAIL SHEET FOR ROUNDABOUT CIRCLE PAVING.



TYPICAL SECTION NO. 5

STA. 73+30.00 TO STA. 81+50.00

ROADWAY PAVEMENT

OPTIONAL BASE GROUP 9 WITH
TYPE SP 12.5 (TRAFFIC C) (1.5") AND
FRICTION COURSE FC 12.5 (TRAFFIC C) (1.5") (PG 76-22)

SHARED USE PATH

OPTIONAL BASE GROUP 4 WITH
TYPE SP 12.5 (TRAFFIC C) (1.5")

REVISIONS			
REV	DATE	BY	DESCRIPTION

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

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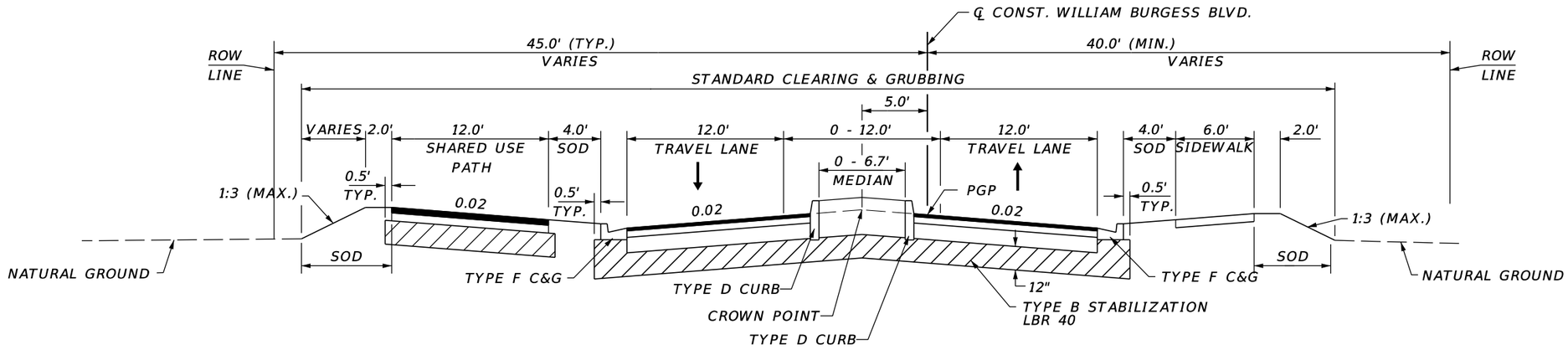
TYPICAL SECTION

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 8

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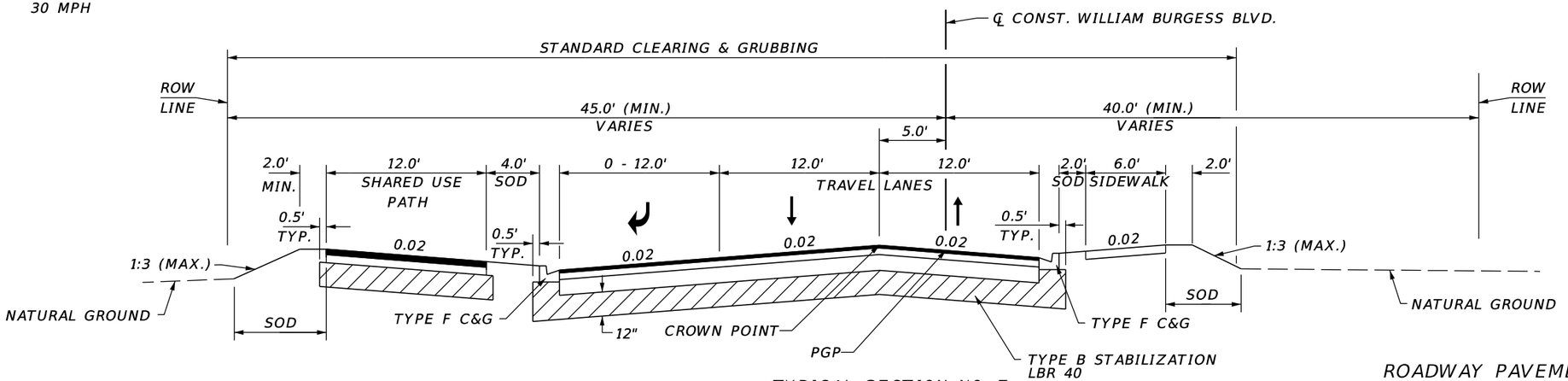
TYPICAL SECTION NO. 6

STA. 81+50.00 TO STA. 88+00.00

TRAFFIC DATA

WILLIAM BURGESS BLVD.
EAST OF US 17
CURRENT YEAR (2022) = 3,200
INTERIM YEAR (2032) = 16,000
DESIGN YEAR (2042) = 17,000

DESIGN SPEED 40 MPH
POSTED SPEED 30 MPH



TYPICAL SECTION NO. 7

STA. 88+00.00 TO STA. 103+45.40

ROADWAY PAVEMENT

OPTIONAL BASE GROUP 9 WITH
TYPE SP 12.5 (TRAFFIC C) (1.5") AND
FRICTION COURSE FC 12.5 (TRAFFIC C) (1.5") (PG 76-22)

SHARED USE PATH

OPTIONAL BASE GROUP 4 WITH
TYPE SP 12.5 (TRAFFIC C) (1.5")

REVISIONS			
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CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

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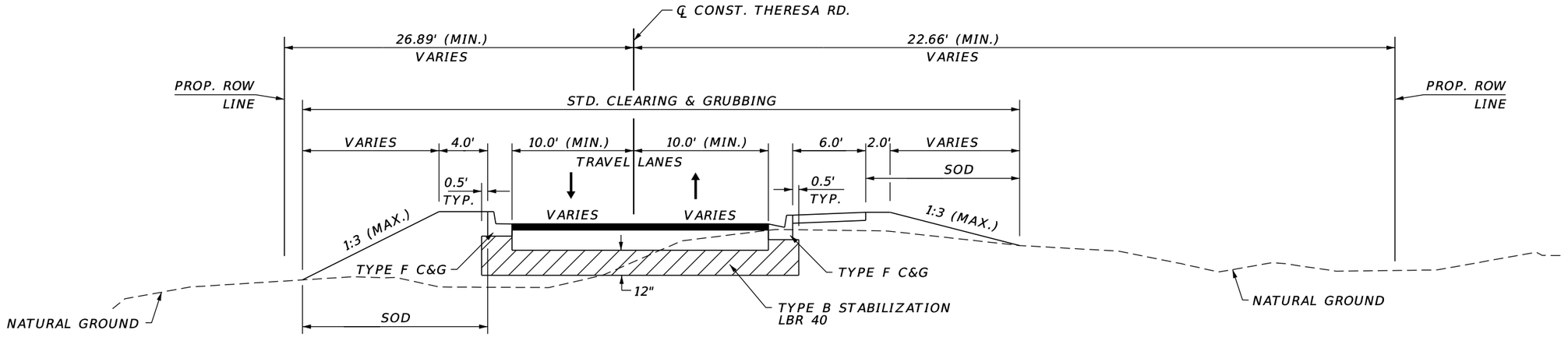
TYPICAL SECTION

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 9

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TYPICAL SECTION NO. 10

STA. 202+11.86 TO STA. 204+40.00

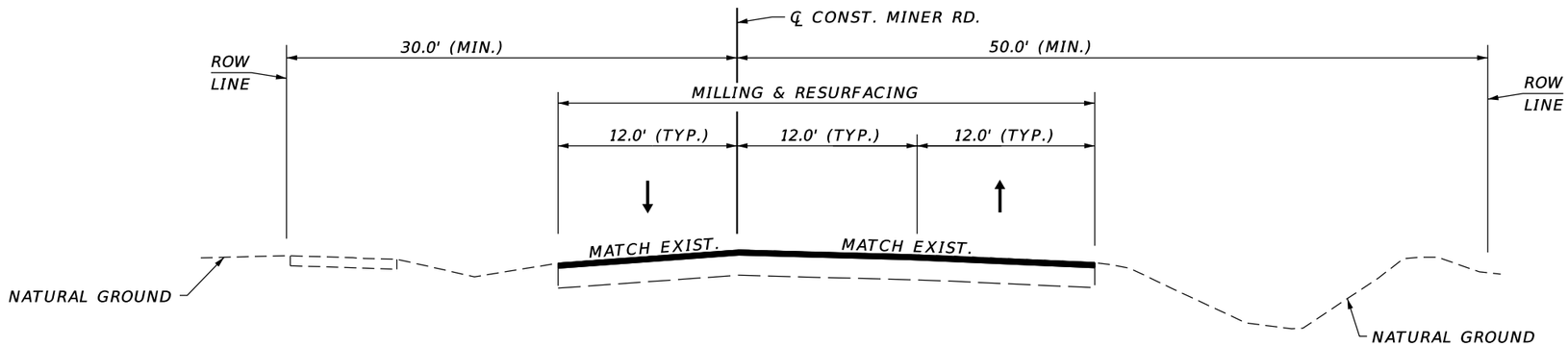
THERESA COURT

ROADWAY PAVEMENT

OPTIONAL BASE GROUP 9 WITH
TYPE SP 12.5 (TRAFFIC C) (1.5") AND
FRICTION COURSE FC 12.5 (TRAFFIC C) (1.5") (PG 76-22)

NEW PAVED SHOULDER

OPTIONAL BASE GROUP 1
FRICTION COURSE FC 12.5 (TRAFFIC C) (1.5") (PG 76-22)



TYPICAL SECTION NO. 11

STA. 301+00.00 TO STA. 303+76.57
STA. 307+33.16 TO STA. 308+00.00

MINER ROAD

MILLING & RESURFACING

MILL EXISTING ASPHALT PAVEMENT (1.5" AVG. DEPTH)
FRICTION COURSE FC 12.5 (TRAFFIC C) (1.5") (PG 76-22)

REVISIONS			
REV	DATE	BY	DESCRIPTION

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

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DATE:	10/24/2023
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PROJECT NO. / DASH NO.
B190839.00

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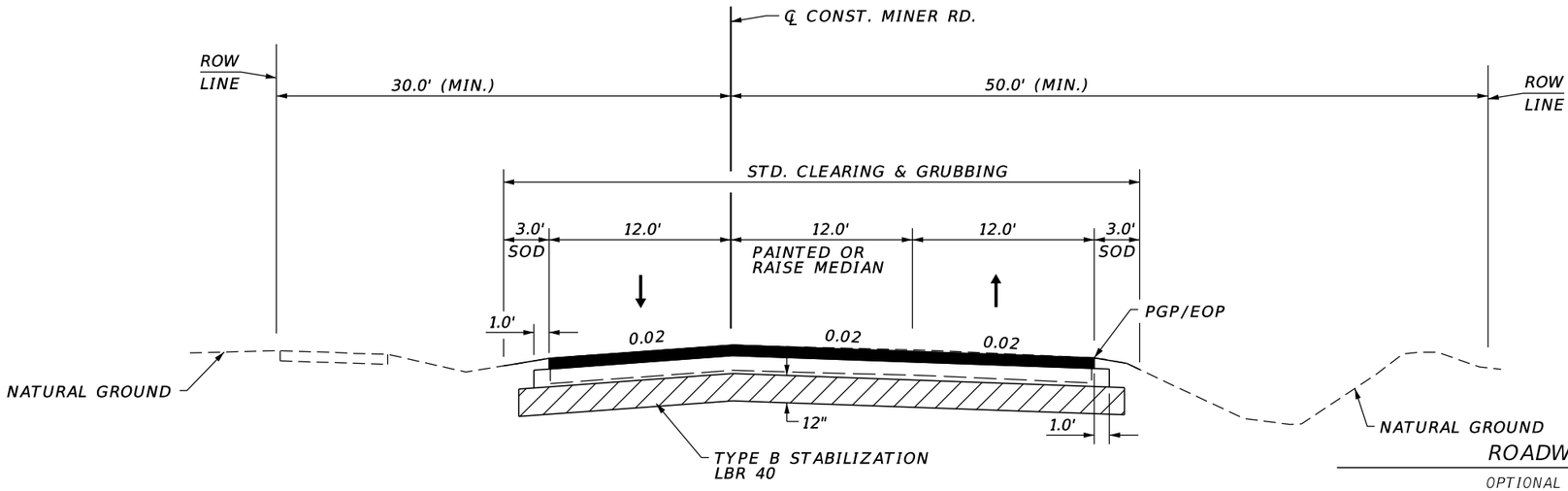
TYPICAL SECTION

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
10

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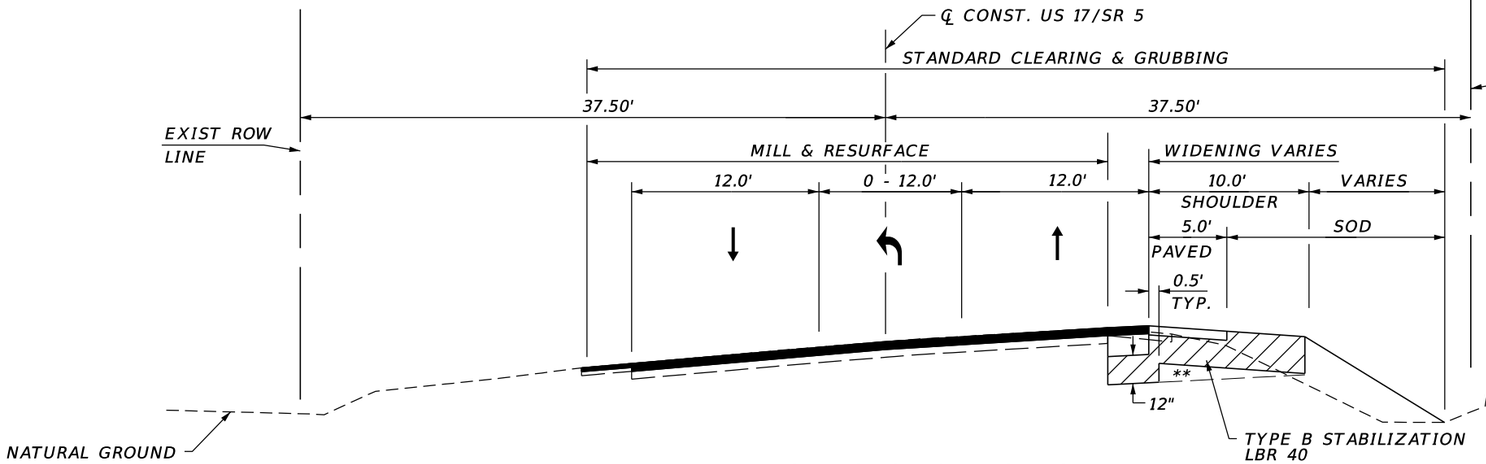
TYPICAL SECTION NO. 12

STA. 303+76.57 TO STA. 307+33.16

MINER ROAD

ROADWAY PAVEMENT

OPTIONAL BASE GROUP 9 WITH
TYPE SP 12.5 (TRAFFIC C) (1.5") AND
FRICTION COURSE FC 12.5 (TRAFFIC C) (1.5") (PG 76-22)



TYPICAL SECTION NO. 13

STA. 448+80.00 TO STA. 453+40.00

US 17/SR 15

TRAFFIC DATA

WILLIAM BURGESS BLVD.

	EB	WB
CURRENT YEAR (2022) =	16,000	15,000
INTERIM YEAR (2032) =	26,000	21,000
DESIGN YEAR (2042) =	35,000	26,000

K = 9% D = 56% T = 4% (24 HOUR)
DESIGN TRUCK = 2%
DESIGN SPEED 60 MPH (RURAL)
POSTED SPEED 50 MPH

MAINLINE MILLING

MILL EXISTING ASPHALT PAVEMENT (3.0" AVG. DEPTH)

MAINLINE RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5")
FRICTION COURSE FC 12.5 (TRAFFIC C)(1.5")(PG 76-22)

MAINLINE WIDENING

OPTIONAL BASE GROUP 9
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5")
FRICTION COURSE FC 12.5 (TRAFFIC C)(1.5")(PG 76-22)

PAVED SHOULDER MILLING

MILL EXISTING ASPHALT PAVEMENT (1.5" AVG. DEPTH)

PAVED SHOULDER RESURFACING

FRICTION COURSE FC 12.5 (TRAFFIC C)(1.5")(PG 76-22)

NEW PAVED SHOULDER

OPTIONAL BASE GROUP 1
FRICTION COURSE FC 12.5 (TRAFFIC C)(1.5")(PG 76-22)

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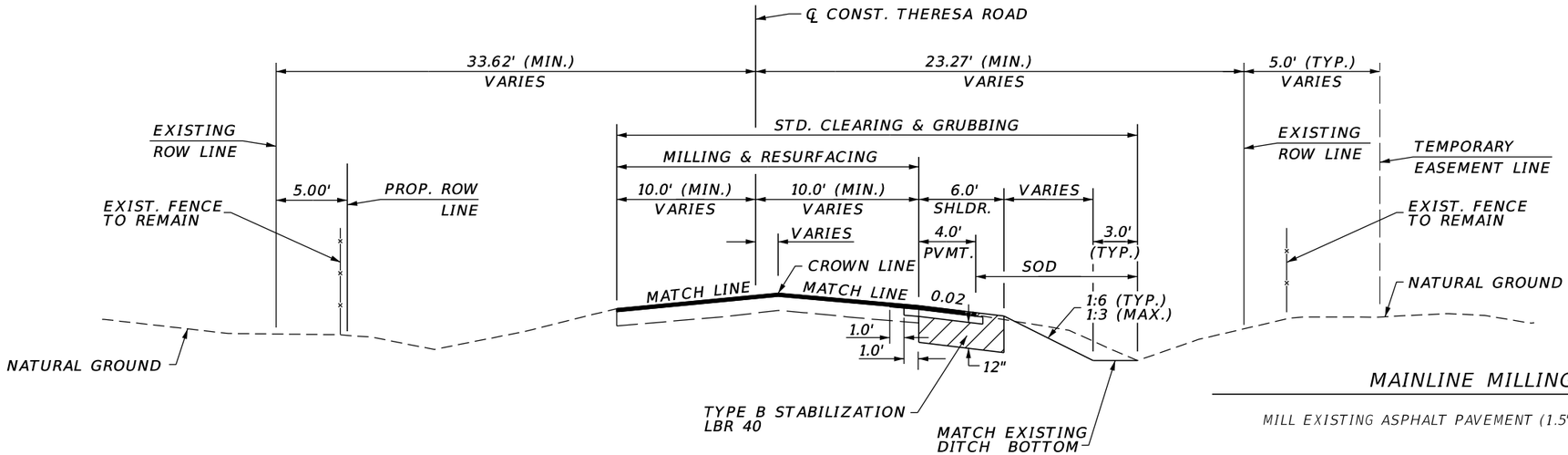
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TYPICAL SECTION

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
11

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



TYPICAL SECTION NO. 8

STA. 200+08.47 TO STA. 200+89.00

THERESA COURT

NOTE: SEE NASSAU COUNTY DETAIL #26 FOR ADDITIONAL DETAIL FOR PAVEMENT JOINT STAGGERING OF ASPHALT LIFTS ON PAVEMENT WIDENING.

MAINLINE MILLING

MILL EXISTING ASPHALT PAVEMENT (1.5" AVG. DEPTH)

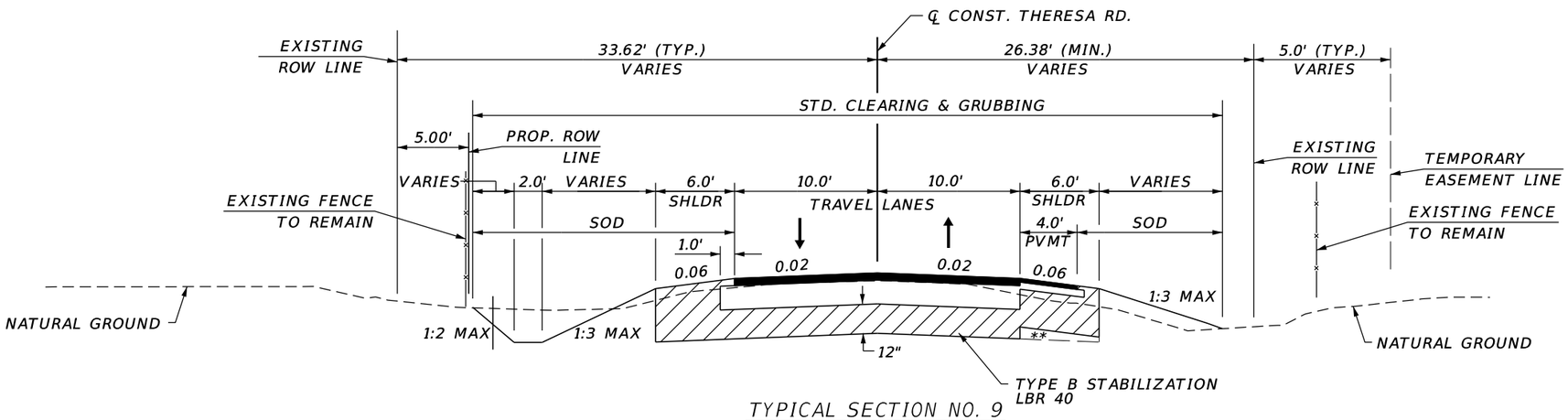
MAINLINE RESURFACING

FRICTION COURSE STRUCTURAL COURSE (TRAFFIC C) (1.5") (PG 76-22)

NEW PAVED SHOULDER

OPTIONAL BASE GROUP 1

FRICTION COURSE FC 12.5 (TRAFFIC C) (1.5") (PG76-22)



TYPICAL SECTION NO. 9

STA. 200+89.00 TO STA. 202+11.86

THERESA COURT

ROADWAY PAVEMENT

OPTIONAL BASE GROUP 9 WITH

TYPE SP 12.5 (TRAFFIC C) (1.5") AND

FRICTION COURSE FC 12.5 (TRAFFIC C) (1.5") (PG 76-22)

NEW PAVED SHOULDER

OPTIONAL BASE GROUP 1

FRICTION COURSE FC 12.5 (TRAFFIC C) (1.5") (PG 76-22)

** AT THE CONTRACTOR'S OPTION THIS AREA MAY BE CONSTRUCTED OF STABILIZATION AT NO ADDITIONAL COMPENSATION.

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TYPICAL SECTION

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 12

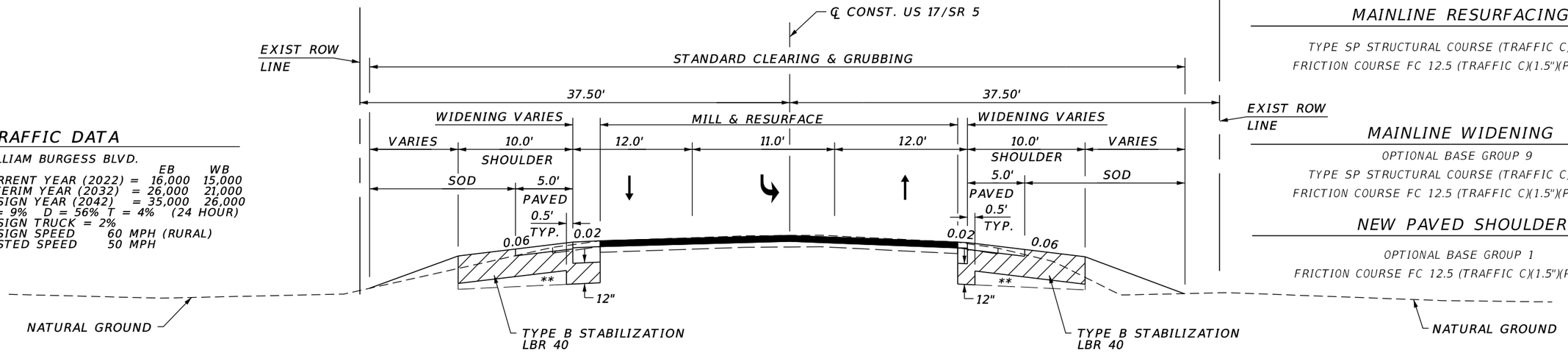
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TRAFFIC DATA

WILLIAM BURGESS BLVD.

	EB	WB
CURRENT YEAR (2022) =	16,000	15,000
INTERIM YEAR (2032) =	26,000	21,000
DESIGN YEAR (2042) =	35,000	26,000

K = 9% D = 56% T = 4% (24 HOUR)
DESIGN TRUCK = 2%
DESIGN SPEED 60 MPH (RURAL)
POSTED SPEED 50 MPH



MAINLINE MILLING

MILL EXISTING ASPHALT PAVEMENT (3.0" AVG. DEPTH)

MAINLINE RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5")
FRICTION COURSE FC 12.5 (TRAFFIC C)(1.5")(PG 76-22)

MAINLINE WIDENING

OPTIONAL BASE GROUP 9
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5")
FRICTION COURSE FC 12.5 (TRAFFIC C)(1.5")(PG 76-22)

NEW PAVED SHOULDER

OPTIONAL BASE GROUP 1
FRICTION COURSE FC 12.5 (TRAFFIC C)(1.5")(PG 76-22)

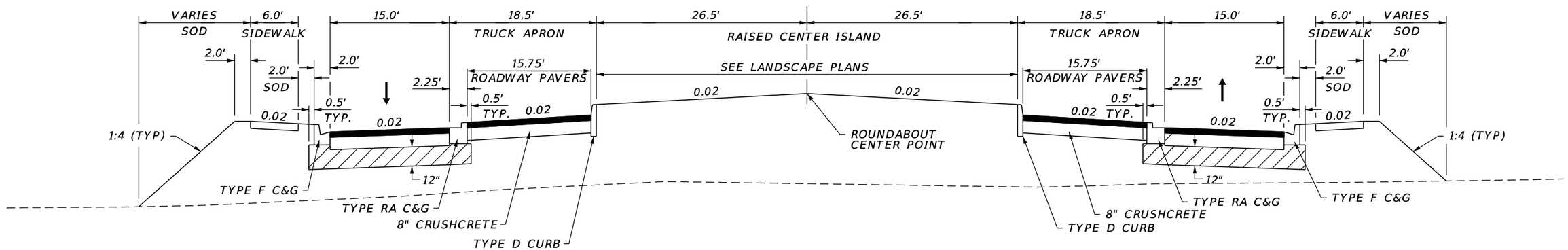
** AT THE CONTRACTOR'S OPTION THIS AREA MAY BE CONSTRUCTED OF STABILIZATION AT NO ADDITIONAL COMPENSATION.

PAVEMENT DESIGN FOR SR 5 WIDENING IS SHOWN AS 4" TO MATCH FOUND ASPHALT DEPTH DETERMINED BY FDOT PLANS. CONTRACTOR TO PERFORM PAVEMENT CORES TO VERIFY EXISTING CONDITIONS. ASSUME 10 CORES ARE NEEDED AND INCLUDED IN THE COST OF ASPHALT.

TYPICAL SECTION NO. 14

STA. 453+40.00 TO STA. 461+00.00

US 17/SR 15



NOTE: FOR ROADWAY PAVER SPECIFICATIONS, SEE LANDSCAPE PLANS.

TYPICAL SECTION NO. 15

WILLIAM BURGESS BLVD. AT THERESA CT.
WILLIAM BURGESS BLVD. AT MINER RD.

ROADWAY PAVEMENT

OPTIONAL BASE GROUP 9 WITH
TYPE SP 12.5 (TRAFFIC C) (1.5") AND
FRICTION COURSE FC 12.5 (TRAFFIC C) (1.5") (PG76-22)

REVISIONS			
REV	DATE	BY	DESCRIPTION

gai consultants
transforming ideas into reality®
12574 Flagler Center Blvd, Suite 202
Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

TYPICAL SECTION

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 13

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL							CURB INLETS									CLOSED FLUME	MANHOLES					DITCH BOTTOM INLETS		CROSS DRAIN MITERED END SECTION					STRAIGHT ENDWALL	SODDING	REMARKS
						ROUND						ELLIP.	P-1		P-2	J-1	J-1	J-2	P-5	P-5	P-6		P-7	P-8	J-7	J-8	J-8	C	D	ROUND							
						15"	18"	24"	30"	36"	42"	18"	<10'	>10'	<10'	<10'	>10'	<10'	<10'	>10	<10'		> 10'	<10'	<10'	<10	>10	<10'	<10'	15"	24"	30"	36"	42"	EA	SY	
P	S-1	14+20.00	RT	INLET, PIPE	1				128						1																					
F																																				
P	S-2	15+55.00	RT	INLET, PIPE	1				137				1																								
F																																				
P	S-3	17+00.00	RT	INLET, PIPE	1					131						1																					
F																																				
P	S-4	18+35.00	LT	INLET, PIPE	1		79								1																					
F																																				
P	S-5	18+35.00	RT	INLET, PIPE	1					79						1																					
F																																				
P	S-6	19+18.00	LT	INLET, PIPE	1		93						1																								
F																																				
P	S-7	19+18.00	RT	INLET, PIPE	1					93							1																				
F																																				
P	S-8	20+15.00	LT	INLET, PIPE	1		51						1																								
F																																				
P	S-9	20+15.00	RT	INLET, PIPE	1					282							1																				
F																																				
P	S-10	21+50.00	LT	DBI, PIPE	1		136																						1								
F																																				
P	S-11	23+00.00	RT	MANHOLE, PIPE	1					191																		1									
F																																				
P	S-12	25+00.00	RT	INLET, PIPE	1						282						1																				
F																																				
P	S-12A	25+00.00	RT	INLET, PIPE	1		22						1																								
F																																				
P	S-13	28+00.00	RT	INLET, PIPE	1						211					1																					
F																																				
P	S-13A	28+00.00	RT	INLET, PIPE	1		22						1																								
F																																				
P	S-14	30+25.00	RT	INLET, PIPE	1						127							1																				
F																																				
P	S-14A	30+25.00	RT	INLET, PIPE	1		22								1																						
F																																				
P	S-15	31+60.00	RT	INLET, PIPE	1						157					1																					
F																																				
P	S15A	31+60.00	RT	INLET, PIPE	1		22						1																								
F																																				
P	S-16	33+20.00	LT	INLET, PIPE	1						59							1																				
F																																				
P	S-16A	33+20.00	RT	MANHOLE, PIPE	1						53																	1									
F																																				
P	S-16B	33+21.92	LT	MES	1																														1		38	POND INFLOW
F																																				
P	STRUCTURE S-17 OMITTED																																			
F																																				
P	S-18	36+00.00	LT	INLET, PIPE	1				276				1																								
F																																				
P	S-19	36+00.00	RT	INLET, PIPE	1		51						1																								
F																																				
P	S-20	38+20.00	LT	INLET, PIPE	1		216						1																								
F																																				
P	S-21	38+20.00	RT	INLET, PIPE	1		51						1																								
F																																				
P	S-22	39+95.00	LT	INLET, PIPE	1		147								1																						
F																																				
P	S-23	39+95.00	RT	INLET, PIPE	1		51								1																						
F																																				
P	S-24	41+45.00	LT	INLET, PIPE	1		148						1																								
F																																				
P	S-24A	41+45.00	RT	INLET, PIPE	1		28						1																								
F																																				
P	S-24B	43+00.00	LT	MANHOLE, PIPE	1		189																	1													
F																																				
SHEET TOTALS				PLAN QUANTITY		0	1328	0	541	776	889	0	12	0	5	4	3	2	0	0	0	0	0	1	0	1	1	1	0	0	0	0	0	1	0	38	
				FINAL QUANTITY																																	

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REV	DATE	BY	DESCRIPTION

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12574 Flagler Center Blvd, Suite 202
Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

LAURA S. PHILLIPS, P.E. Lic. No. 54972

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

SUMMARY OF DRAINAGE STRUCTURES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 14

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL							CURB INLETS									CLOSED FLUME	MANHOLES					DITCH BOTTOM INLETS		CROSS DRAIN MITERED END SECTION					STRAIGHT ENDWALL	SODDING	REMARKS
						ROUND						ELLIP.	P-1		P-2	J-1	J-1	J-2	P-5	P-5	P-6		P-7	P-8	J-7	J-8	J-8	C	D	ROUND							
						15"	18"	24"	30"	36"	42"	18"	<10'	>10'	<10'	<10'	>10'	<10'	<10'	>10	<10'		<10'	<10'	<10'	<10	>10	<10'	<10'	15"	24"	30"	36"	42"	EA	SY	
P	S-25	45+00.00	LT	INLET, PIPE	1			32					1																							
F																																				
P	S-25A	45+00.00	RT	MANHOLE, PIPE	1			65															1													
F																																				
P	S-25B	44+74.00	RT	INLET, PIPE	1		24						1																							
F																																				
P	S-25C	45+00.00	RT	MANHOLE, PIPE	1			42															1													
F																																				
P	S-25D	45+48.00	RT	MES	1																										1				28	
F																																				
P	S-26	48+00.00	LT	INLET, PIPE	1			283					1																							
F																																				
P	S-26A	48+00.00	RT	INLET, PIPE	1		28						1																							
F																																				
P	S-27	48+58.00	LT	INLET, PIPE	1		54								1																					
F																																				
P	S-27A	48+58.00	RT	INLET, PIPE	1		27								1																					
F																																				
P	S-28	49+95.00	RT	INLET, PIPE	1		57						1																							
F																																				
P	S-29	50+20.00	LT	INLET, PIPE	1		277						1																							
F																																				
P	S-30	53+00.00	LT	MANHOLE, PIPE	1		142																1													
F																																				
P	S-31	54+45.00	LT	INLET, PIPE	1		145								1																					
F																																				
P	S-32	54+45.00	RT	INLET, PIPE	1		51								1																					
F																																				
P	S-33	55+95.00	LT	INLET, PIPE	1		177						1																							
F																																				
P	S-34	55+95.00	RT	INLET, PIPE	1		28						1																							
F																																				
P	S-34A	57+80.00	LT	MANHOLE, PIPE	1			232																1												
F																																				
P	S-35	60+20.00	LT	INLET, PIPE	1			176					1																							
F																																				
P	S-36	60+20.00	RT	INLET, PIPE	1		27						1																							
F																																				
P	S-37	62+00.00	LT	INLET, PIPE	1			196					1																							
F																																				
P	S-38	62+00.00	RT	INLET, PIPE	1		51						1																							
F																																				
P	S-39	64+00.00	LT	INLET, PIPE	1			51					1																							
F																																				
P	S40	64+00.00	RT	INLET, PIPE	1			144					1																							
F																																				
P	S-41	65+50.00	LT	INLET, PIPE	1		22						1																							
F																																				
P	S-41A	65+50.00	RT	INLET, PIPE	1			70					1																							
F																																				
P	S-42	66+25.00	RT	INLET, PIPE	1		22								1																					
F																																				
P	S-43	66+25.00	RT	INLET, PIPE	1				99						1																					
F																																				
P	S-44	67+30.00	RT	INLET, PIPE	1				105				1																							
F																																				
P	S-44A	67+30.00	RT	INLET, PIPE	1		21						1																							
F																																				
P	S-45	68+40.00	RT	INLET, PIPE	1				58				1																							
F																																				
P	S-46	69+00.00	LT	INLET, PIPE	1					107						1																				
F																																				
P	S-46A	69+00.00	RT	MANHOLE, PIPE	1				45																1											
F																																				
P	S-46B	69+57.80	LT	MES	1																													1		34	
F																																				
P	S-47	204+29.84	LT	INLET, PIPE	1		186						1																							
F																																				
P	S-48	203+77.62	RT	INLET, PIPE	1		71								1																					
F																																				
SHEET TOTALS				PLAN QUANTITY		0	1410	1291	307	107	0	0	20	0	7	1	0	0	0	0	0	0	3	1	1	0	0	0	0	0	1	0	1	0	0	62	
				FINAL QUANTITY																																	

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REVISIONS

REV	DATE	BY	DESCRIPTION

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Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

LAURA S. PHILLIPS, P.E. Lic. No. 54972

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

SUMMARY OF DRAINAGE STRUCTURES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 15

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL							CURB INLETS									CLOSED FLUMED	MANHOLES					DITCH BOTTOM INLETS		CROSS DRAIN MITERED END SECTION						STRAIGHT ENDWALL	SODDING	REMARKS
						ROUND						ELLIP.	P-1		P-2	J-1	J-1	J-2	P-5	P-5	P-6		P-7	P-8	J-7	J-8	J-8	C	D	ROUND					EA	SY	
						15"	18"	24"	30"	36"	42"	18"	<10'	>10'	<10'	<10'	>10'	<10'	<10'	>10'	<10'		<10'	<10'	<10'	<10	>10	<10'	<10'	15"	24"	30'	36"	42"			
P	S-49	202+74.37	RT	MANHOLE, PIPE	1			46															1														
F																																					
P	S-50	202+92.85	LT	MES	1																										1				28	
F																																					
P	S-51	201+61.13	LT	MES, PIPE, MES	1	30																								2					23	
F																																					
P	S-52	201+61.13	RT	MES, PIPE, MES	1	30																								2					23	
F																																					
P	S-53	200+38.50	RT	CLOSED FLUME	1																	1														
F																																					
P	STRUCTURE S-54 THRU S-59 OMITTED																																				
F																																					
P	S-60	73+00.00	LT	INLET, PIPE	1		29						1																								
F																																					
P	S-61	73+00.00	RT	INLET, PIPE	1		124												1																		
F																																					
P	S-62	74+25.00	LT	INLET, PIPE	1		28														1																
F																																					
P	S-61A	74+25.00	RT	MH, PIPE	1		88																	1													
F																																					
P	S-63	75+65.00	LT	INLET, PIPE	1			94											1																		
F																																					
P	S-64	75+15.00	RT	INLET, PIPE	1		55												1																		
F																																					
P	S-62A	76+22.82	LT	MES	1																										1				28	
F																																					
P	S-65	78+25.00	LT	INLET, PIPE	1		257												1																		
F																																					
P	S-66	78+25.00	RT	INLET, PIPE	1		29												1																		
F																																					
P	S-67	80+90.00	LT	INLET, PIPE	1		262												1																		
F																																					
P	S-68	80+90.00	RT	INLET, PIPE	1		32												1																		
F																																					
P	S-69	83+30.00	LT	INLET, PIPE	1		237						1																								
F																																					
P	S-70	83+30.00	RT	INLET, PIPE	1		39												1																		
F																																					
P	S-71	86+45.00	LT	INLET, PIPE	1		312						1																								
F																																					
P	S-72	86+74.50	RT	INLET, PIPE	1		48												1																		
F																																					
P	S-73	89+75.00	LT	INLET, PIPE	1		161						1																								
F																																					
P	S-74	89+75.00	RT	INLET, PIPE	1		48												1																		
F																																					
P	S-75	91+40.00	LT	INLET, PIPE	1				64											1																		
F																																					
P	S-75A	91+40.00	LT	MES	1																														1		31	
F																																					
P	S-76	93+00.00	LT	INLET, PIPE	1				156								1																				
F																																					
P	S-77	93+00.00	RT	INLET, PIPE	1	42													1																		
F																																					
P	S-78	94+75.00	LT	INLET, PIPE	1			172						1																							
F																																					
P	S-79	94+75.00	RT	INLET, PIPE	1	39													1																		
F																																					
P	S-80	96+40.00	LT	INLET, PIPE	1			161						1																							
F																																					
P	S-81	98+00.00	LT	INLET, PIPE	1			157					1																								
F																																					
P	S-82	98+00.00	RT	INLET, PIPE	1		43						1																								
F																																					
P	S-83	100+00.00	LT	INLET, PIPE	1	23													1																		
F																																					
P	S-84	100+00.00	RT	INLET, PIPE	1		196												1																		
F																																					
P	S-85	102+00.00	LT	INLET, PIPE	1	43							1																								
F																																					
SHEET TOTALS				PLAN QUANTITY		207	1988	630	220	0	0	0	7	2	0	0	1	0	14	1	1	1	1	1	0	0	0	0	0	4	2	1	0	0	0	133	
				FINAL QUANTITY																																	

REVISIONS

REV	DATE	BY	DESCRIPTION

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12574 Flagler Center Blvd, Suite 202
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904.363.1110
Certificate of Authorization:EB9951

LAURA S. PHILLIPS, P.E. Lic. No. 54972

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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SUMMARY OF DRAINAGE STRUCTURES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 16

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL							CURB INLETS									CLOSED FLUME	MANHOLES					DITCH BOTTOM INLETS		CROSS DRAIN MITERED END SECTION					STRAIGHT ENDWALL	SODDING	REMARKS
						ROUND						ELLIP.	P-1		P-2	J-1	J-1	J-2	P-5	P-5	P-6		P-7	P-8	J-7	J-8	J-8	C	D	ROUND							
						15"	18"	24"	30"	36"	42"	18"	<10'	>10'	<10'	<10'	>10'	<10'	<10'	>10'	<10'		<10'	<10'	<10'	<10	>10	<10'	<10'	15"	24"	30'	36"	42"	EA	SY	
P	S-86	101+97.19	RT	INLET, PIPE	1		197								1																					
F																																				
P	S-87	306+70.00	LT	INLET, PIPE	1		14						1																							
F																																				
P	S-88	306+10.17	RT	INLET, PIPE	1	64							1																							
F																																				
P	S-89	303+85.69	LT	DBI, PIPE	1	40																						1								
F																																				
P	S-90	103+00.47	RT	MANHOLE, PIPE	1	244																		1												
F																																				
P	S-91	306+70.00	LT	DBI, PIPE	1	24																						1								
F																																				
P	S-92	306+70.00	LT	END WALL	1																														1		
F																																				
P	S-93 THRU S-99 OMITTED																																				
F																																				
P	S-100	47+10.55	RT	MH, PIPE	1					113															1											
F																																				
P	S-101	46+74.36	RT	MH, PIPE	1					98															1											
F																																				
P	S-102	47+65.47	RT	MES	1																												1			38	
F																																				
P	S-103 THRU S-109 OMITTED																																				
F																																				
P	S-110	12+30.75	RT	INLET	1																1															EXISTING PIPE
F																																				
P	S-111	12+29.71	LT	INLET	1																1															EXISTING PIPE
F																																				
P	S-112	9+22.76	LT	INLET	1											1																				
F																																				
P	S-112A	9+22.53	RT	INLET	1														1																	
F																																				
P	S-113	6+36.40	RT	INLET, PIPE, CONC. COLLAR	1		10						1																							
F																																				
P	S-114	13+53.28	RT	MES, PIPE	1							190																			1				23	
F																																				
P	S-115	13+48.44	LT	MES	1																										1				23	
F																																				
P	S-120	304+94.61	RT	MES, PIPE	1	54																									1				23	
F																																				
P	S-121	305+53.85	RT	DBI, PIPE	1	26																						1								
F																																				
P	S-122	305+93.64	RT	MES	1																										1				23	
F																																				
P	CD-1A	49+25.00	LT	MES	1																												1			31	
F																																				
P	CD-1B	49+25.00	RT	MES, PIPE	1					116																							1			31	
F																																				
P	CD-2A	49+35.00	LT	MES	1																												1			31	
F																																				
P	CD-2B	49+35.00	RT	MES, PIPE	1					116																							1			31	
F																																				
P	DS-A	36+25.13	LT	DBI, PIPE, MES	1					37																							1			1	31	POND A OUTFALL
F																																				
P	DS-B	46+83.72	RT	DBI, PIPE	1					34																							1					POND B OUTFALL
F																																				
P	DS-C	70+15.50	LT	DBI, PIPE, MES	1					43																							1			1	31	POND C OUTFALL
F																																				
SHEET TOTALS				PLAN QUANTITY		452	10	0	346	211	0	190	2	0	0	1	0	0	1	0	2	0	0	1	2	0	0	3	3	4	0	6	1	0	1	316	
				FINAL QUANTITY																																		
GRAND TOTALS				PLAN QUANTITY		659	4736	1921	1414	1094	889	190	41	2	12	6	4	2	15	1	3	1	4	4	3	1	1	4	3	8	3	7	2	1	1	549	
				FINAL QUANTITY																																		

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904.363.1110
Certificate of Authorization:EB9951

LAURA S. PHILLIPS, P.E. Lic. No. 54972

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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SUMMARY OF DRAINAGE STRUCTURES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 17

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

NOTES:

1. ALTERNATE PIPE MATERIAL IS ONLY ALLOWED OUTSIDE OF ROADWAY, (INCLUDING 2:1 PROJECTION FROM CURB LINE) OTHERWISE CONTRACTOR SHALL UTILIZE RCP.

STRUCTURE	SIZE (IN)	MATERIAL	PLOTTED	AS BUILT	REMARKS
ALL (SEE NOTE NO.1)	18	RCP	X		
		PP			
	24	RCP	X		
		PP			
	30	RCP	X		
		PP			
	36	RCP	X		
		PP			

LEGEND

RCP - REINFORCED CONCRETE PIPE
NRCP - NON REINFORCED CONCRETE PIPE
HDPE - HIGH DENSITY POLYETHYLENE PIPE
SRAP - SPIRAL RIB ALUMINUM PIPE
PVC - POLYVINYL CHLORIDE
PP - POLYPROPYLENE PIPE
SRPE- STEEL REINFORCED POLYETHYLENE PIPE

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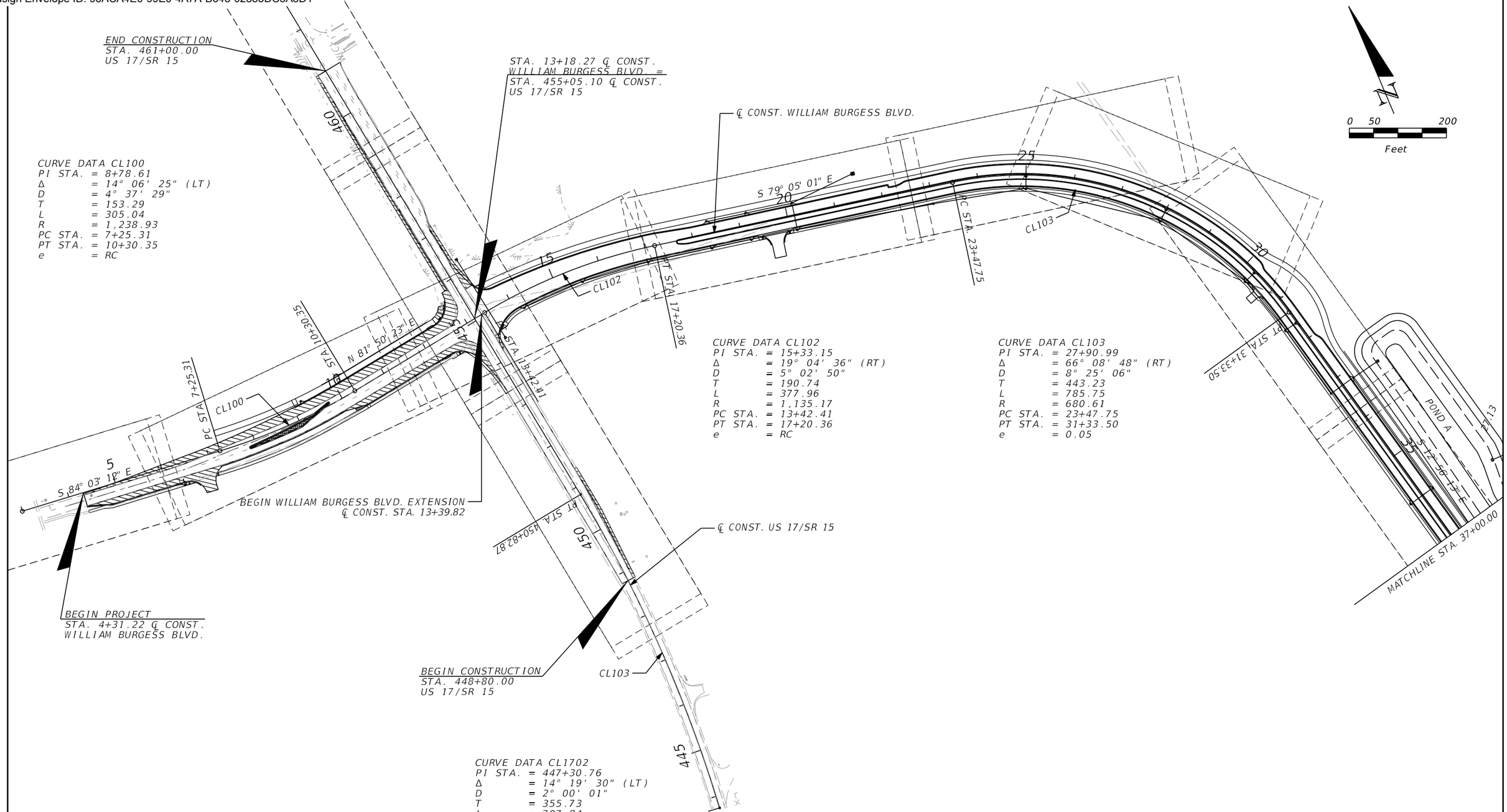
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OPTIONAL MATERIALS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
18

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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RONALD F. HOOGLAND, P.E. Lic. No. 45247

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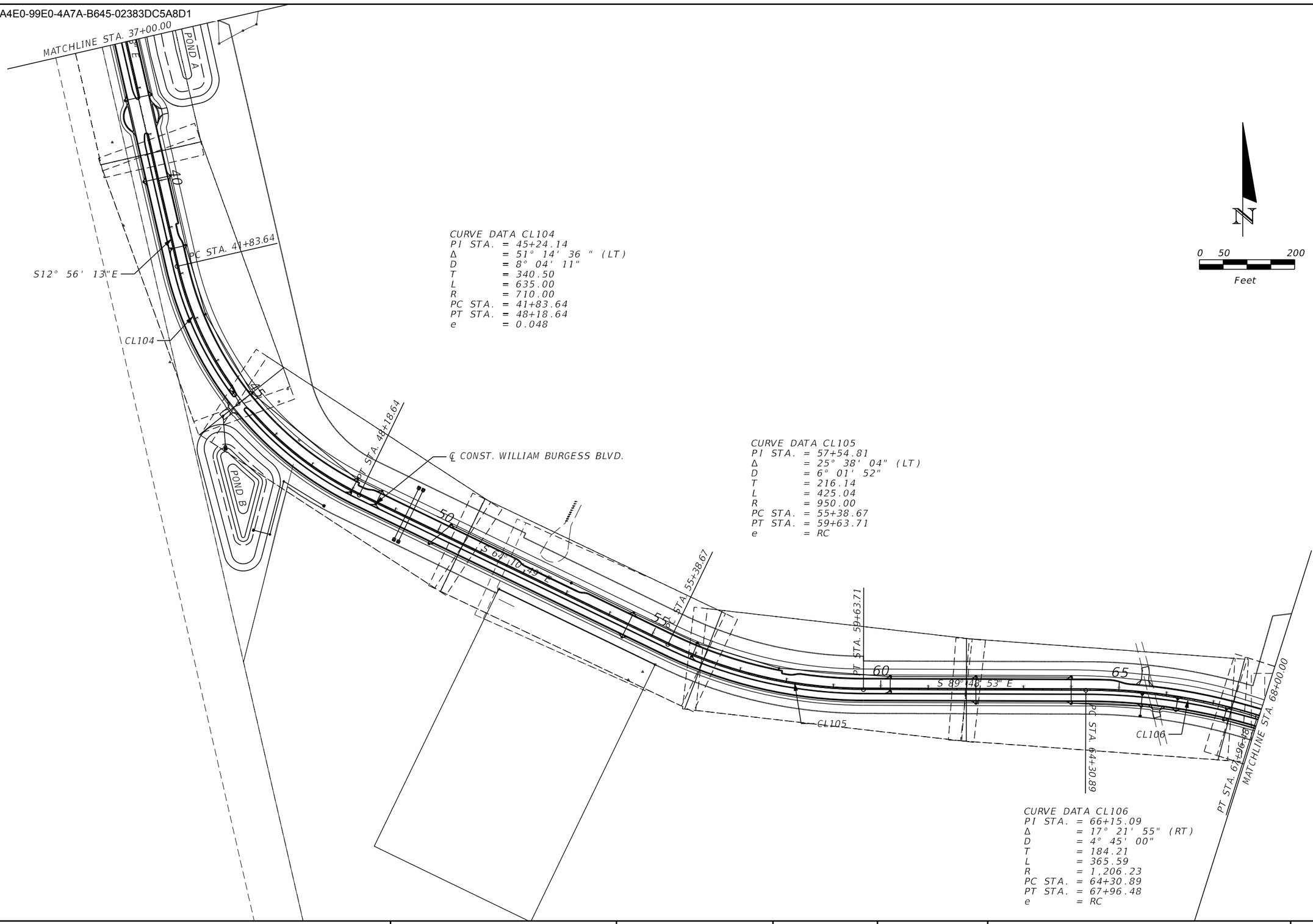
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PLAN LAYOUT

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
19

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



CURVE DATA CL104
PI STA. = 45+24.14
Δ = 51° 14' 36 " (LT)
D = 8° 04' 11"
T = 340.50
L = 635.00
R = 710.00
PC STA. = 41+83.64
PT STA. = 48+18.64
e = 0.048

CURVE DATA CL105
PI STA. = 57+54.81
Δ = 25° 38' 04" (LT)
D = 6° 01' 52"
T = 216.14
L = 425.04
R = 950.00
PC STA. = 55+38.67
PT STA. = 59+63.71
e = RC

CURVE DATA CL106
PI STA. = 66+15.09
Δ = 17° 21' 55" (RT)
D = 4° 45' 00"
T = 184.21
L = 365.59
R = 1,206.23
PC STA. = 64+30.89
PT STA. = 67+96.48
e = RC

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PLAN LAYOUT

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
20

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

PI STA. 70+79.69 ℄ CONST. WILLIAM BURGESS BLVD. (Δ = 37° 00' 58" LT.) = STA. 204+94.30 ℄ CONST. THERESA CT.

MATCHLINE STA. 68+00.00

S 72° 26' 58" E

N 10° 11' 24" W

CURVE DATA CLT02
PI STA. = 202+50.15
Δ = 28° 38' 11" (LT)
D = 38° 11' 50"
T = 38.29
L = 74.97
R = 150.00
PC STA. = 202+11.86
PT STA. = 202+86.83

PT STA. 202+86.83
CLT02
PC STA. 202+11.86

BEGIN CONSTRUCTION
STA. 200+08.47 ℄ CONST. THERESA CT.

THERESA CT.

℄ CONST. THERESA CT.

N 26° 12' 03" W

RADIO AVE.

RADIO CT.

200

PC STA. 73+30.03

PT STA. 74+70.92

POND C

N 70° 32' 04" E

PT STA. 204+11.90

CLT03

PC STA. 202+99.72

CL122

℄ CONST. WILLIAM BURGESS BLVD.

N 62° 56' 00" E

CURVE DATA CL122
PI STA. = 74+00.58
Δ = 7° 36' 04" (LT)
D = 5° 23' 42"
T = 70.55
L = 140.89
R = 1,062.00
PC STA. = 73+30.03
PT STA. = 74+70.92
e = RC

CURVE DATA CLT03
PI STA. = 203+58.83
Δ = 44° 38' 50" (RT)
D = 39° 48' 07"
T = 59.11
L = 112.17
R = 143.95
PC STA. = 202+99.72
PT STA. = 204+11.90

MATCHLINE STA. 82+60.00

0 50 200
Feet

YULEE HIGH SCHOOL

YULEE MIDDLE SCHOOL

END PROJECT
POT STA. 103+45.40 ℄ CONST. WILLIAM BURGESS BLVD. = STA. 305+00.00 ℄ CONST. MINER RD.

END CONSTRUCTION
STA. 308+00.00 ℄ CONST. MINER RD.

POND D

℄ CONST. WILLIAM BURGESS BLVD.

MATCHLINE STA. 82+60.00

N 62° 56' 00" E

N 62° 56' 00" E

85

90

95

100

95

℄ CONST. MINER RD.

MINER RD.

N 22° 56' 01" W 405.20'

BEGIN CONSTRUCTION
STA. 301+00.00 ℄ CONST. MINER RD.

300

0 50 200
Feet

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PLAN LAYOUT

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
21

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

CURVE DATA

CURVE NO.	LINE	P.C. STATION	P.I. STATION	P.T. STATION	Δ	D	T	L	R	e	DESIGN SPEED
CL100	CL WILLIAM BURGESS BLVD.	7+25.31	8+78.61	10+30.35	14°06'25"(LT)	4°37'29"	153.29'	305.04'	1238.93'		45 MPH
CL102	CL WILLIAM BURGESS BLVD.	13+42.41	15+33.15	17+20.36	19°04'36"(RT)	5°02'50"	190.74'	377.96'	1135.17'	RC	45 MPH
CL103	CL WILLIAM BURGESS BLVD.	23+47.75	27+90.99	31+33.50	66°08'48"(RT)	8°25'06"	443.23'	785.75'	680.61'	0.050	45 MPH
CL104	CL WILLIAM BURGESS BLVD.	41+83.64	45+24.14	48+18.64	51°14'36"(LT)	8°04'11"	340.50'	635.00'	710.00'	0.048	45 MPH
CL105	CL WILLIAM BURGESS BLVD.	55+38.67	57+54.81	59+63.71	25°38'04"(LT)	6°01'52"	216.14'	425.04'	950.00'	RC	45 MPH
CL106	CL WILLIAM BURGESS BLVD.	64+30.89	66+15.09	67+96.48	17°21'55"(RT)	4°45'00"	184.21'	365.59'	1206.23'	RC	45 MPH
CL122	CL WILLIAM BURGESS BLVD.	73+30.03	74+00.58	74+70.92	7°36'04"(LT)	5°23'42"	70.55'	140.89'	1062.00'	RC	45 MPH
CLT02	CL THERESA CT.	202+11.86	202+50.15	202+86.83	28°38'11"(LT)	38°11'50"	38.29'	74.97'	150.00'		
CLT03	CL THERESA CT.	202+99.72	203+58.83	204+11.90	44°38'50"(RT)	39°48'07"	59.11'	112.17'	143.95'		
CL1702	CL US17/SR15	443+75.03	447+30.76	450+82.87	14°09'30"(LT)	2°00'01"	355.73'	707.84'	2864.49'	0.048	55 MPH

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CURVE AND COORDINATE DATA

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
22

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

COORDINATE DATA

LINE	CURVE NUMBER	CONTROL POINT	STATION	COORDINATES	
				NORTH	EAST
CL US 17 / SR15	CL1702	PI	447+30.76	2283102.0509	468291.7234
		PC	443+75.03	2282748.2736	468254.5002
		PT	450+82.87	2283454.1867	468241.2819
		CC		2283048.0105	465405.7334
CL WILLIAM BURGESS BLVD.	CL100	PI	8+78.61	2283809.5186	467744.6673
		PC	7+25.31	2283825.3999	467592.1980
		PT	10+30.35	2283831.2776	467896.4093
		CC		2285057.6653	467720.5520
CL WILLIAM BURGESS BLVD.	CL102	PI	15+33.15	2283902.6462	468394.1173
		PC	13+42.41	2283875.5715	468205.3050
		PT	17+20.36	2283866.5237	468581.4094
		CC		2283751.8953	468366.4340
CL WILLIAM BURGESS BLVD.	CL103	PI	27+90.99	2283663.7719	469632.6599
		PC	23+47.75	2283747.7099	469197.4484
		PT	31+33.50	2283231.7904	469731.8904
		CC		2283079.4160	469068.5564
CL WILLIAM BURGESS BLVD.	CL104	PI	45+24.14	2281876.4459	470043.2266
		PC	41+83.64	2282208.3070	469966.9948
		PT	48+18.64	2281728.1419	470349.7377
		CC		2282367.2613	470658.9728
CL WILLIAM BURGESS BLVD.	CL105	PI	57+54.81	2281320.3997	471192.4491
		PC	55+38.67	2281414.5358	470997.8908
		PT	59+63.71	2281319.7006	471408.5835
		CC		2282269.6956	471411.6561
CL WILLIAM BURGESS BLVD.	CL106	PI	66+15.09	2281317.5938	472059.9649
		PC	64+30.89	2281318.1896	471875.7608
		PT	67+96.48	2281262.0472	472235.5954
		CC		2280111.9659	471871.8594
CL WILLIAM BURGESS BLVD.	CL122	PI	74+00.58	2281283.5578	472808.1774
		PC	73+30.03	2281260.0686	472741.6624
		PT	74+70.92	2281315.6786	472870.9984
		CC		2282261.3669	472387.7618
CL THERESA CT.	CLT02	PI	202+50.15	2280973.8559	472620.8203
		PC	202+11.86	2280939.5046	472637.7240
		PT	202+86.83	2280995.9043	472589.5215
		CC		2280873.2764	472503.1363
CL THERESA CT.	CLT03	PI	203+58.83	2281037.3678	472530.6621
		PC	202+99.72	2281003.3270	472578.9846
		PT	204+11.90	2281095.5443	472520.2051
		CC		2281121.0110	427661.8872

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CURVE AND COORDINATE DATA

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
23

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

2. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, VH, AND VVH) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

3. UTILITY/AGENCY OWNERS:

COMPANY	CONTACT	TELEPHONE NUMBERS	UTILITY TYPE
COMCAST CABLE COMMUNICATIONS	JAMES GRAHAM	(904) 509-6472	CATV
FLORIDA PUBLIC UTILITIES COMPANY	JOHN BURKE	(561) 838-1847	GAS
FLORIDA POWER & LIGHT - NASSAU (DISTRIBUTION)	JOSH KEOWN	(904) 225-3031	ELECTRIC
FLORIDA POWER & LIGHT - NASSAU (TRANSMISSION)	BEAU BENTLEY	(803) 835-5982	ELECTRIC
JACKSONVILLE ELECTRIC AUTHORITY SEWER	MICKHAEL SULAYMAN	(904) 665-8713	SEWER
JACKSONVILLE ELECTRIC AUTHORITY FIBER	MICKHAEL SULAYMAN	(904) 665-8713	FIBER
JACKSONVILLE ELECTRIC AUTHORITY RECLAIMED WATER	MICKHAEL SULAYMAN	(904) 665-8713	RECLAIMED WATER
JACKSONVILLE ELECTRIC AUTHORITY WATER	MICKHAEL SULAYMAN	(904) 665-8713	WATER
AT&T/DISTRIBUTION	PK PATEL	(904) 699-4976	TELEPHONE

STORMWATER DRAINAGE NOTES:

1. ALL STORMWATER DRAINAGE FACILITIES WITHIN PUBLIC RIGHT-OF-WAY AND PAVED AREAS, INCLUDING NASSAU COUNTY RIGHT-OF-WAY, TURN LANES, RESIDENTIAL ROADWAYS, DRIVE AISLES FOR MULTI-FAMILY DEVELOPMENTS, AND MAJOR DRIVE AISLES FOR COMMERCIAL DEVELOPMENTS SHALL BE LASER PROFILED PER FDOT SECTION 430.

2. A BUILDER CANNOT MODIFY THE COUNTY'S STORM WATER MANAGEMENT SYSTEM INCLUDING THE PIPES, INLETS, AREA DRAINS, DITCHES AND RELATED ELEMENTS TYPICALLY WITHIN THE STREET OR WITHIN A DRAINAGE EASEMENT WITHOUT THE PRIOR WRITTEN APPROVAL OF THE COUNTY ENGINEER OR DESIGNEE.

3. DRAINAGE EASEMENTS AND DITCHES SHOULD REMAIN FREE OF STOCKPILED SOIL, SEDIMENT, MUD, CONSTRUCTION MATERIALS/ WASTE, ET CETERA AT ALL TIMES. POSITIVE STORMWATER FLOW MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.

4. THE CONTRACTOR SHALL TEMPORARILY OR PERMANENTLY STABILIZE BARE SOIL AREAS AND SOIL STOCKPILES WHEN THE AREA IS INACTIVE FOR FOURTEEN DAYS OR MORE OR HAS REACHED FINISHED GRADE.

5. PER ORDINANCE 99-17 SECTION 11.11.5.4, ALL GRAVITY FLOW PIPE INSTALLATIONS SHALL HAVE A SOIL TIGHT JOINT PERFORMANCE UNLESS SPECIFIC SITE FACTORS WARRANT WATERTIGHT JOINT PERFORMANCE.

6. PER ORDINANCE 99-17 SECTION 10.6.5.1, IMMEDIATELY INSTALL ADDITIONAL EROSION PROTECTION SEDIMENT CONTROL MEASURES IF SEDIMENT IS LEAVING YOUR SITE. FAILURE TO CONTAIN SEDIMENT TO YOUR SITE MAY RESULT IN DELAYED INSPECTIONS, NOTICES OF VIOLATION, CITATIONS, FINES, PENALTIES, AND/OR STOP WORK ORDERS.

7. PER 99-17 SECTION 10.1.2.A-E, STORMWATER MANAGEMENT FOR A PROJECT SHALL NOT HAVE ADVERSE EFFECTS ON ADJACENT PROPERTIES, DOWNSTREAM STRUCTURES, OR RIGHTS OF OTHER LANDOWNERS.

8. CONTRACTOR TO REMOVE EXISTING DITCH BLOCKS ALONG THE SOUTH SIDE OF THE PROPOSED WILLIAM BURGESS BLVD. (EXISTING HIGH SCHOOL DRIVEWAY).

9. CONTRACTOR TO DELIVER ASPHALT PAVEMENT MILLINGS TO THE NASSAU COUNTY ROAD DEPARTMENT.

10. ALL DISTURBED AREAS SHALL BE SODDED.

11. CONTRACTOR SHALL CONSTRUCT WET-SET YELLOW PEDESTRIAN DETECTION MATS ON ALL SIDEWALK CROSSING RAMPS AND SPLITTER ISLAND CROSSINGS.

12. CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL PROPERTIES ADJACENT TO CONSTRUCTION AT ALL TIMES.

13. PROPOSED VALLEY GUTTER SHALL BE CONSTRUCTED PER THE FDOT STD. PLANS, INDEX 520-001, AND SHALL BE 3500 PSI MINIMUM CONCRETE.

14. PROPOSED DRIVEWAYS AND SIDEWALK CROSSING RAMPS SHALL BE CONSTRUCTED OF 6 INCH THICK, 3000 PSI MINIMUM CONCRETE. REMMAINING SIDEWALKS SHALL BE 4 INCH THICK, 3000 PSI MINIMUM CONCRETE

PAVING NOTES:

1. PER NASSAU COUNTY ROADWAY AND DRAINAGE STANDARDS, ORDINANCE 99-17 SECTION 12.2 AND 12.4, A CONSTRUCTION BOND AND 26-MONTH MAINTENANCE BOND WILL BE REQUIRED FOR ALL WORK WITHIN NASSAU COUNTY RIGHT-OF-WAY.

2. A PRE-PAVE MEETING IS REQUIRED PRIOR TO ANY PAVING OPERATIONS WITHIN NASSAU COUNTY ROW, RESIDENTIAL SUBDIVISIONS, OR MULTI-FAMILY DEVELOPMENTS.

3. APPROVED MIX DESIGNS SHALL BE PROVIDED TO NASSAU COUNTY CONSTRUCTION INSPECTOR 48 HOURS PRIOR TO PRE-PAVE MEETING OR PLACEMENT OF CONCRETE.

4. CONTRACTOR IS REQUIRED TO HAVE A CERTIFIED QC ASPHALT LEVEL II TECHNICIAN DURING ANY ASPHALT OPERATIONS WITHIN NASSAU COUNTY ROW, RESIDENTIAL SUBDIVISION, OR MULTI-FAMILY DEVELOPMENTS.

5. ALL BASES SHALL BE PRIMED IN ACCORDANCE WITH ORDINANCE 99-17 SECTION 11.5.2.3, NASSAU COUNTY STANDARD DETAILS, AND FDOT STANDARD SPECIFICATIONS.

6. SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH NASSAU COUNTY STANDARDS, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND FDOT STANDARD PLANS.

7. MAINTENANCE OF TRAFFIC (MOT) SHALL BE IN COMPLIANCE WITH FDOT STANDARD INDEX 600 SERIES.

8. ALL WORK, MATERIALS, AND TESTING PERFORMED WITHIN NASSAU COUNTY RIGHT-OF-WAY AND SINGLE-FAMILY/MULTI-FAMILY DEVELOPMENTS SHALL BE IN ACCORDANCE WITH THE CURRENT REVISION OF NASSAU COUNTY'S ORDINANCE 99-17 AND ALL CURRENT NASSAU COUNTY STANDARD DETAILS.

9. PER ORDINANCE 99-17 SECTION 11.9.2, ALL PAVEMENT MARKINGS WITHIN NASSAU COUNTY ROW SHALL BE LEAD FREE THERMOPLASTIC MEETING NASSAU COUNTY AND FDOT STANDARD SPECIFICATION LATEST EDITION.

10. REMOVING PAVEMENT MARKINGS WITHIN NASSAU COUNTY ROW SHALL BE:
    A. GRINDING OR HYDRO-BLASTING ON WEATHERED ASPHALT SURFACES.
    B. HYDRO-BLASTING ONLY ON NEW ASPHALT SURFACES.
    C. PAINT BLACKOUT IS PROHIBITED.

11. PER ORDINANCE 99-17 SECTION 8.5.5, ANY DAMAGE TO PAVEMENT RESULTING FROM CONSTRUCTION OR PAVEMENT MARKING REMOVAL WITHINPUBLIC ROW NOT PLANNED AS PART OF THE PROJECT SHALL BE MILLED AND OVERLAID FOR ENTIRE WIDTH OF ROADWAY AND LENGTH OF DAMAGE PLUS 50' IN EACH DIRECTION.

12. ALL UNDERGROUND UTILITIES, OR APPROPRIATE CONDUIT SLEEVES, THAT ARE TO BE INSTALLED UNDER PAVEMENT MUST BE INSTALLED PRIOR TO PREPARATION OF THE SUBGRADE FOR PAVEMENT.

13. SINGLE VERTICAL JOINTS IN ROADWAY CONSTRUCTION SHALL BE AVOIDED IN NASSAU COUNTY RIGHT-OF-WAY USING NASSAU COUNTY STANDARD DETAIL #26.

14. ALL DRAINAGE STRUCTURES SHALL HAVE TRAFFIC BEARING GRATES THAT MEET OR EXCEED THE RATING FOR THE FACILITIES EXPECTED TRAFFIC.

15. ALL CONCRETE SHALL BE A MINIMUM OF 3000 PSI WITHIN PUBLIC RIGHT-OF-WAY.

DRAINAGE NOTES:

1. EXISTING DITCH BLOCKS ALONG THE CURRENT YULEE HIGH SCHOOL DRIVEWAY (STA. 83+00 TO STA. 103+00) TO BE REMOVED.

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REVISIONS

REV	DATE	BY	DESCRIPTION

gai consultants
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12574 Flagler Center Blvd, Suite 202
Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

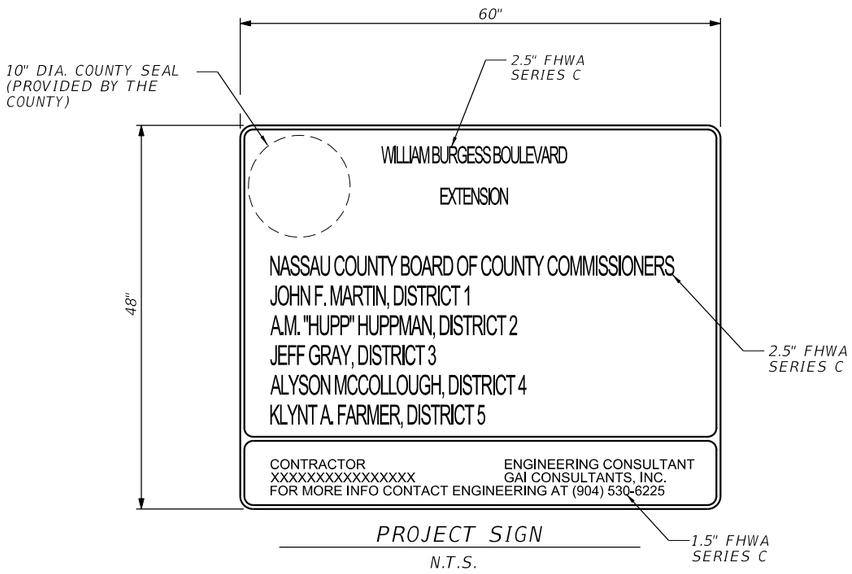
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GENERAL NOTES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 24

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PROJECT SIGN

N.T.S.

NOTES:

1. WHITE LETTERING ON BLUE INFORMATION SIGN TO BE PROVIDED BY CONTRACTOR AT PROPOSED LOCATIONS PER NASSAU COUNTY.
2. ALL SIGN FONT SHALL BE FHWA SERIES C.
3. THE COST OF UPDATING AND INSTALLING TWO (2) IMPACT FEE SIGNS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM 102-1 MAINTENANCE OF TRAFFIC.

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PROJECT NO. / DASH NO.
B190839.00

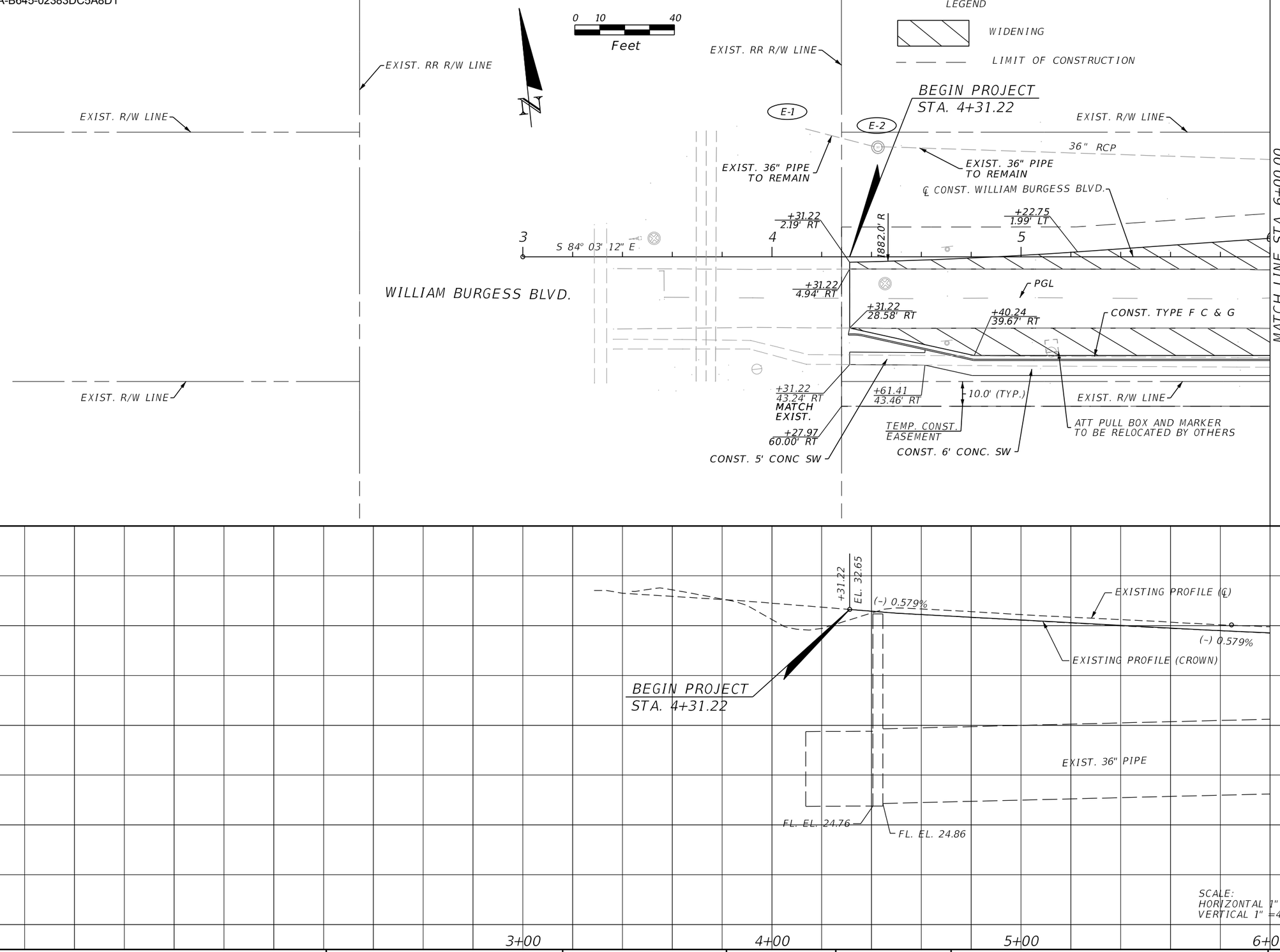
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GENERAL NOTES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
25

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
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DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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PLAN AND PROFILE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
26

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

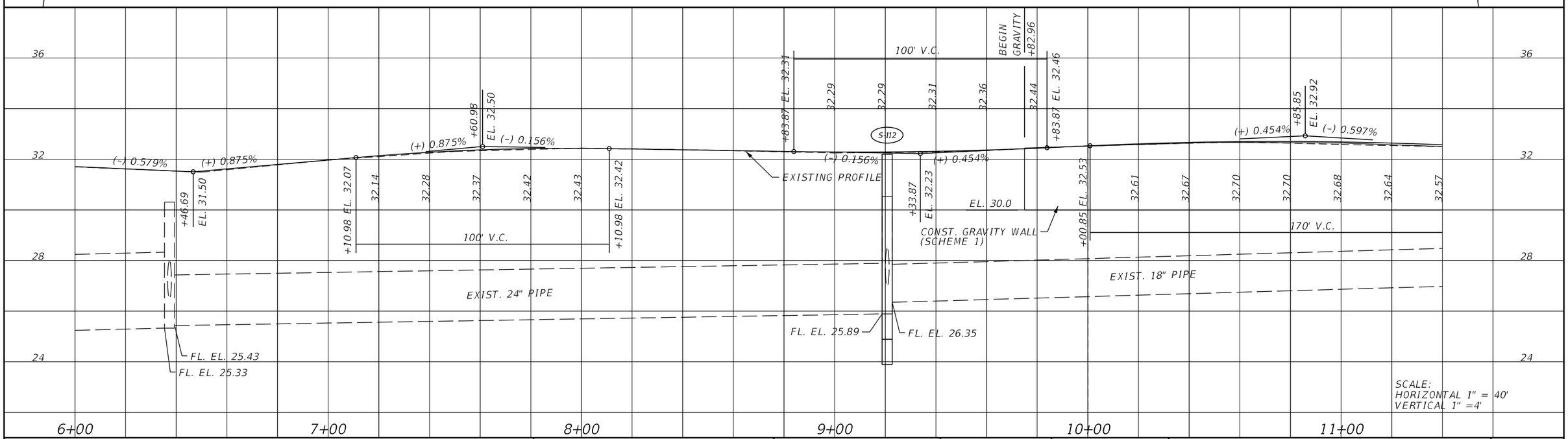
CURVE DATA CL100
PI STA. = 8+78.61
Δ = 14° 06' 25" (LT)
D = 4° 37' 29"
T = 153.29
L = 305.04
R = 1,238.93
PC STA. = 7+25.31
PT STA. = 10+30.35

LEGEND
WIDENING
LIMIT OF CONSTRUCTION

N
0 10 40
Feet

MATCH LINE STA. 6+00.00
MATCH LINE STA. 11+40.00
EXIST. 36" PIPE TO REMAIN
EXIST. FIRE HYDRANT TO REMAIN
EXIST. 24" PIPE TO REMAIN
EXIST. R/W LINE
CONST. STD. CURB FLARE (TYP.)
CONST. GRAVITY WALL PER FDOT INDEX 400-011 (SCHEME 1)
CONST. PIPE GUIDERAIL PER FDOT INDEX 515-080
CONST. 12' ASPHALT SHARED USE PATH
EXIST. 18" PIPE TO REMAIN
EXIST. 18" PIPE TO REMAIN
CONST. TYPE F C & G
CONST. TYPE F C & G
CONST. 6' CONC. SW
CONST. CONC. COLLAR WITH FLOWABLE CEMENT BACKFILL
PGL
CL100
CONST. TYPE E C & G
CONST. TYPE F C & G
CONST. 18" LE 18" PIPE
WILLIAM BURGESS BLVD.
℄ CONST. WILLIAM BURGESS BLVD.
CONST. 6' CONC. SW
CONST. 6' CONC. SW
PROPOSED R/W LINE
TEMP. CONST. EASEMENT
EXIST. R/W LINE
10.0' (TYP.)
CR D
S-113
S-112
S-112A
EX-4
24" RCP
18" RCP
18" RCP
18" RCP
2047.72' R
2080.7' R
1315.5' R
1115.3' R
35.0' R
35.0' R
2.7' R
2.7' R
2.0'
S 84° 03' 12" E
N 81° 50' 23" E
PC STA. 7+25.31
PT STA. 10+30.35
+63.67 11.66' LT
+87.87 10.41' RT
+03.60 27.40' LT
+82.96 35.12' LT
+69.54 7.47' LT
+09.64 29.65' LT
+70.67 2.08' LT
+88.04 15.90' RT
+00.97 14.73' RT
+93.41 26.34' RT
+40.00 39.78' RT
+21.80 31.14' RT
+25.32 47.52' RT
+55.62 60.00' RT
+55.62 80.00' RT
+74.90 74.78' RT
+15.94 60.00' RT
+98.93 63.87' RT
+98.90 74.85' RT
+15.88 80.00' RT
+57.96 44.75' RT
+13.26 34.83' RT EL. 31.80
+13.24 38.54' RT EL. 31.95
+30.35 50.00' RT
+30.35 60.00' RT
+13.33 31.12' RT EL. 31.90
+36.22 37.00' RT EL. 31.86

LEGEND
7" CONCRETE
2" MISC. ASPHALT



SCALE:
HORIZONTAL 1" = 40'
VERTICAL 1" =4'

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

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CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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PLAN AND PROFILE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
27

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CONST. PIPE GUIDERAIL PER FDOT INDEX 515-080
CONST. GRAVITY WALL PER FDOT INDEX 400-011 WETLAND LINE (SCHEME 1)
PROPOSED R/W LINE
CONST. 12' ASPHALT SHARED USE PATH
EXIST. R/W LINE
WETLAND LINE
18" RCP
CONST. TYPE F C & G
MATCH LINE STA. 11+40.00
N 81° 50' 23" E
EXIST. 15" PIPE TO REMAIN
CONST. 6' CONC. SW
** GAS VALVE TO BE ADJUSTED BY OTHERS (REQUIRES A TRAFFIC BEARING STRUCTURE)
US 17 / SR 15
℄ CONST. U.S. 17
PC STA. 13+42.41
CONST. 190 LF OF 14"X23" ELLIP. PIPE
POLE TO BE RELOCATE BY OTHERS
WILLIAM BURGESS BLVD.
℄ CONST. WILLIAM BURGESS BLVD.
CL102
CONST. DETECTABLE WARNINGS (TYP.)
CONST. 12' ASPHALT SHARED USE PATH
PROP. 16" WM
CONST. TYPE F C & G
CONST. 6' CONC. SW
CONST. 128 LF OF 30" PIPE
CONST. 137 LF OF 30" PIPE
MATCH LINE STA. 17+00.00
* STA. 13+18.27 ℄ CONST. WILLIAM BURGESS BLVD. = STA. 455+05.10 ℄ CONST. U.S. 17
** GAS VALVE TO BE ADJUSTED BY OTHERS (REQUIRES A TRAFFIC BEARING STRUCTURE)
NOTE: SEE PLAN AND PROFILE SHEET FOR US 17 FOR ADDITIONAL DETAILS.

CURVE DATA CL102
PI STA. = 15+33.15
Δ = 19° 04' 36" (RT)
D = 5° 02' 50"
T = 190.74
L = 377.96
R = 1,135.17
PC STA. = 13+42.41
PT STA. = 17+20.36
e = RC

LEGEND
WIDENING
LIMIT OF CONSTRUCTION

0 10 40
Feet

85.13' SUPERELEVATION TRANSITION (LT.)
271.76' SUPERELEVATION (LT.)
85.13' SUPERELEVATION TRANSITION (RT.)
END GRAVITY WALL +30.02
+34.87 MATCH EXIST. SLOPE
+35.05 EL. 31.48
+58.52 EL. 31.74
+19.87 RC
150' V.C.
+08.52 EL. 32.07
PI +12.12 EL. 33.57
+91.76 RC
200' V.C.
+34.87 MATCH EXIST. SLOPE
+70.85 EL. 32.41
+78.44 EL. 31.77
+00.00 EL. 32.01
+20.00 NC
PI +33.52 EL. 30.99
+12.12 EL. 32.13
(-) 0.597%
(-) 0.597%
(+) 1.141%
(-) 1.000%
(-) 1.000%
(+) 1.445%
(+) 1.445%
(+) 0.317%
PROPOSED PROFILE
EXISTING PROFILE
EL. 30.0
CONST. GRAVITY WALL (SCHEME 1)
EXIST 18" PIPE
FL. EL. 27.24
CONST. 30" PIPE
FL. EL. 25.40
FL. EL. 25.20
FL. EL. 25.20
CONST. 30" PIPE
FL. EL. 25.00
SCALE: HORIZONTAL 1" = 40' VERTICAL 1" =4'
12+00
13+00
14+00
15+00
16+00
17+00

REVISIONS			
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Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

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CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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PLAN AND PROFILE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
28

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

PI STA. = 15+33.15
Δ = 19° 04' 36" (RT)
D = 5° 02' 50"
T = 190.74
L = 377.96
R = 1,135.17
PC STA. = 13+42.41
PT STA. = 17+20.36
e = RC

MATCH LINE STA. 17+00.00

MATCH LINE STA. 22+60.00

CONST. 12' ASPHALT SHARED USE PATH

PROPOSED R/W LINE

PROP. 16" WM

CONST. 136 LF OF 18" PIPE

S-10

+20.36
24.00' LT
EL. 34.21

CONST. 79 LF OF 18" PIPE

CONST. 93 LF OF 18" PIPE

S-4

S-6

S-8

B-1

CONST. TYPE F C & G

CONST VALLEY GUTTER

CONST. 1.5' C & G

+16.95
24.00' RT
EL. 33.42

+00.00
20.26' LT
EL. 33.98

18

℄ CONST. WILLIAM BURGESS BLVD.

19

20

CONST. 51 LF OF 18" PIPE

A-11

21

22

S 79° 05' 01" E

I-1

A-8

A-10

A-12

S-3

S-5

S-7

S-9

WILLIAM BURGESS BLVD.

CONST. TYPE F C & G

PT STA. 17+20.36

+11.95
25.07' RT
BOC

CR D

1092.61' R

CONST. 131 LF OF 36" PIPE

CONST. 79 LF OF 36" PIPE

CONST. 93 LF OF 36" PIPE

30.0' R

30.0' R

+11.95
25.07' RT
BOC

CONST. 6' CONC. SW

CONST. 6' CONC. SW

A-9

CONST. 282 LF OF 36" PIPE

+58.04
53.24' LT
EL. 34.30

+82.04
53.16' RT
EL. 34.54

+58.11
77.24' LT
EL. 34.18

+82.11
77.16' RT
EL. 34.18

0 10 40
Feet

NOTE:
FOR ADDITIONAL BULB-OUT & ISLAND INFORMATION SEE CONSTRUCTION DETAIL SHEET

LEGEND

EXIST. R/W LINE

LIMIT OF CONSTRUCTION

N

144.00' SUPERELEVATION TRANSITION (LT.)

+35.76
NC

231.00' SUPERELEVATION TRANSITION (LT.)

+62.74
NC

PROPOSED PROFILE

EXISTING PROFILE

(+) 0.317%

(+) 0.317%

+12.12 EL. 33.89

+00.00 EL. 35.43

35.49

35.52

35.54

200' V.C.

CONST. 18" PIPE

CONST. 36" PIPE

CONST. 36" PIPE

CONST. 36" PIPE

CONST. 36" PIPE

FL. EL. 25.65

FL. EL. 25.00

FL. EL. 24.80

FL. EL. 24.80

FL. EL. 24.70

FL. EL. 24.70

FL. EL. 24.60

FL. EL. 24.60

SCALE:
HORIZONTAL 1" = 40'
VERTICAL 1" =4'

36
32
28
24

17+00
18+00
19+00
20+00
21+00
22+00

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

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PLAN AND PROFILE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
29

thompr 10/24/2023 9:26:08 AM Default Z:\Infra\2019\B190839.00 - William Burgess Corridor\CAD\1908391520\roadway\PLPRRD03.dgn

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

LEGEND

LIMIT OF CONSTRUCTION

PROP. 16" WM

CONST. 12' ASPHALT SHARED USE PATH

CONST. TYPE F C & G

CONST. 1.5' C & G

+47.75
22.00' LT
EL. 36.21

+45.66
22.00' RT
EL. 34.46

S 79° 05' 01" E

℄ CONST. WILLIAM BURGESS BLVD.

WILLIAM BURGESS BLVD.

PC STA. 23+47.75

MATCH LINE STA. 22+60.00

MATCH LINE STA. 25+40.00

A-13 25

A-14

24 CL103

A-15 25

S-11

S-12A

S-12

CONST. 36" PIPE

CONST. 6' CONC. SW

CONST. 22 LF OF 18" PIPE

CONST. 191 LF OF 36" PIPE

CONST. 282 LF OF 42" PIPE

EXIST. R/W LINE

TYPE F CURB & GUTTER

CURVE DATA CL103
PI STA. = 27+90.99
Δ = 66° 08' 48" (RT)
D = 8° 25' 06"
T = 443.23
L = 785.75
R = 680.61
PC STA. = 23+47.75
PT STA. = 31+33.50
e = 0.05

0 10 40
Feet

231.00' SUPERELEVATION TRANSITION (LT.)

693.16' SUPER ELEVATION (LT.)

PI +00.00 EL. 35.75

+93.74 +0.05

+00.00 EL. 35.19

(+) 0.317%

(-) 0.563%

PROPOSED PROFILE

EXISTING PROFILE

35.55 35.53 35.50 35.45 35.38 35.29 35.19

200' V.C.

+67.54 NC

+67.54 -0.05

100.00' SUPER ELEVATION TRANSITION (RT.)

745.56' SUPER ELEVATION (RT.)

CONST. 18" PIPE

CONST. 36" PIPE

CONST. 36" PIPE

CONST. 42" PIPE

FL. EL. 24.40

FL. EL. 24.40

FL. EL. 25.20

FL. EL. 24.20

FL. EL. 24.20

36 32 28 24

23+00 24+00 25+00

SCALE:
HORIZONTAL 1" = 40'
VERTICAL 1" =4'

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PLAN AND PROFILE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
30

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

CURVE DATA CL103
PI STA. = 27+90.99
Δ = 66° 08' 48" (RT)
D = 8° 25' 06"
T = 443.23
L = 785.75
R = 680.61
PC STA. = 23+47.75
PT STA. = 31+33.50
e = 0.05

PROPOSED R/W LINE
EXIST. R/W LINE
FPL TRANSMISSION EASEMENT
LEGEND
LIMIT OF CONSTRUCTION
CONST. 12' ASPHALT SHARED USE PATH
PROP. 16" WM
MATCH LINE STA. 25+40.00
MATCH LINE STA. 29+40.00
CONST. TYPE F C & G
CONST. 1.5' C & G
A-17
CL103
A-18B
S-13A
28
A-18A
26
WILLIAM BURGESS BLVD.
℄ CONST. WILLIAM BURGESS BLVD.
29
A-18
CONST. TYPE F C & G
S-13
CONST. 22 LF OF 18" PIPE
A-16
A-19
CONST. 6' CONC. SW
EXIST. R/W LINE
CONST. 42" PIPE
CONST. 211 LF OF 42" PIPE

0 10 40
Feet

693.16' SUPER ELEVATION (LT.)
745.56' SUPER ELEVATION (RT.)
(-) 0.563%
(-) 0.563%
PROPOSED PROFILE
EXISTING PROFILE
+00.00 EL. 32.37
32.27
32.19
S-13
CONST. 42" PIPE
CONST. 18" PIPE
FL. EL. 24.90
FL. EL. 23.90
FL. EL. 23.90
CONST. 42" PIPE
SCALE:
HORIZONTAL 1" = 40'
VERTICAL 1" =4'
36
32
28
24
26+00
27+00
28+00
29+00

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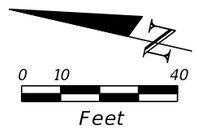
PLAN AND PROFILE

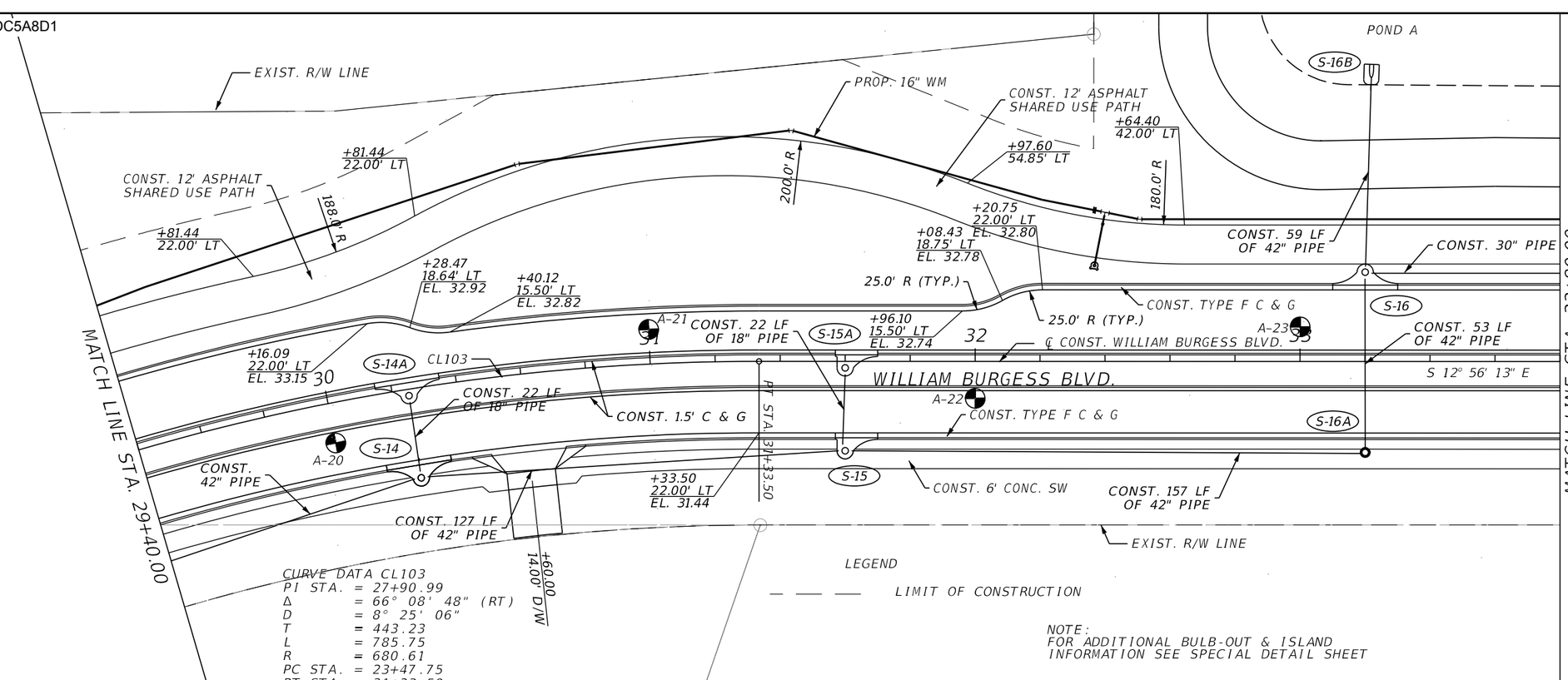
WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

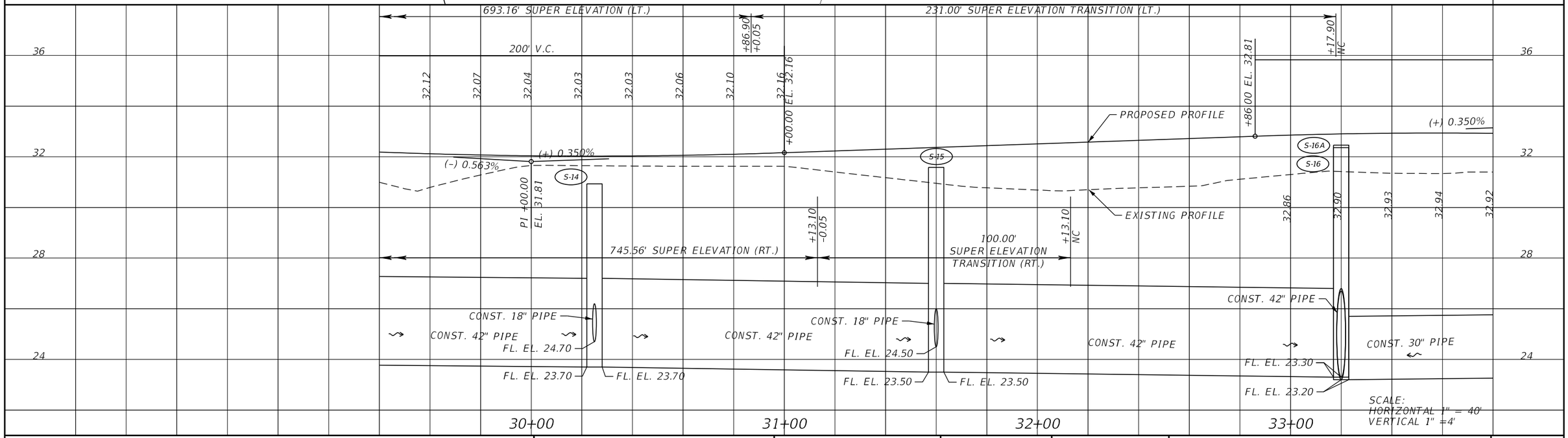
SHEET NO.
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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1







SCALE: HORIZONTAL 1" = 40'
VERTICAL 1" =4'

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CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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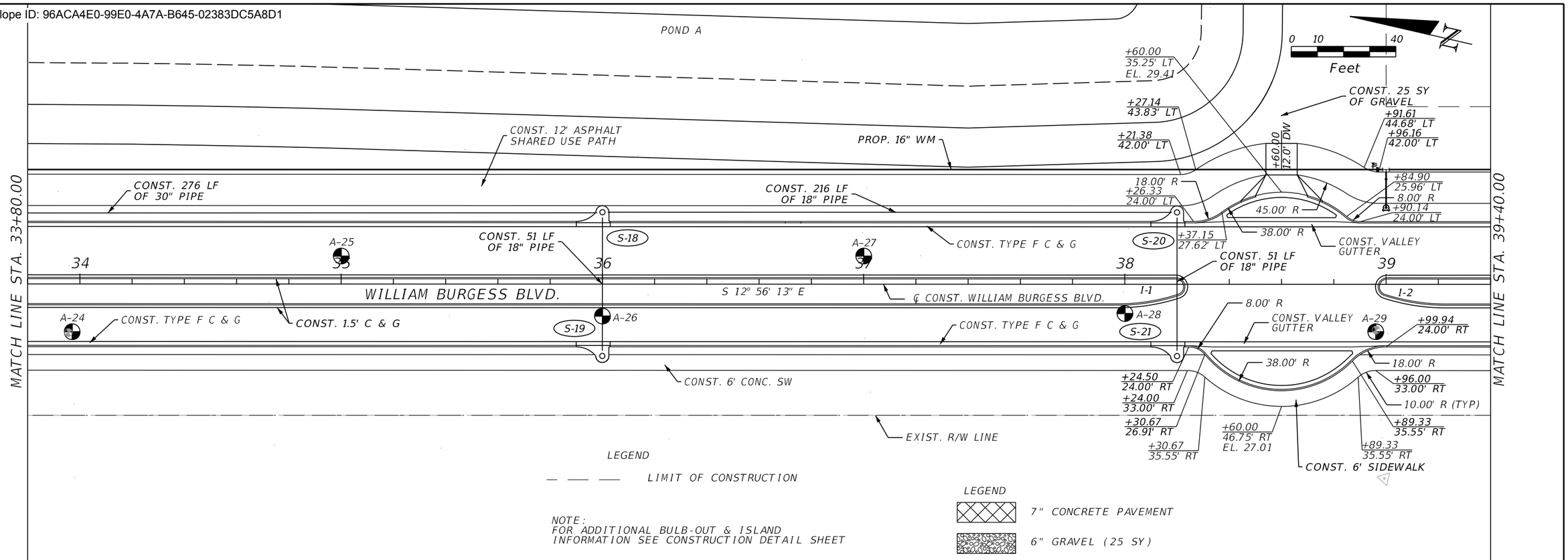
PLAN AND PROFILE

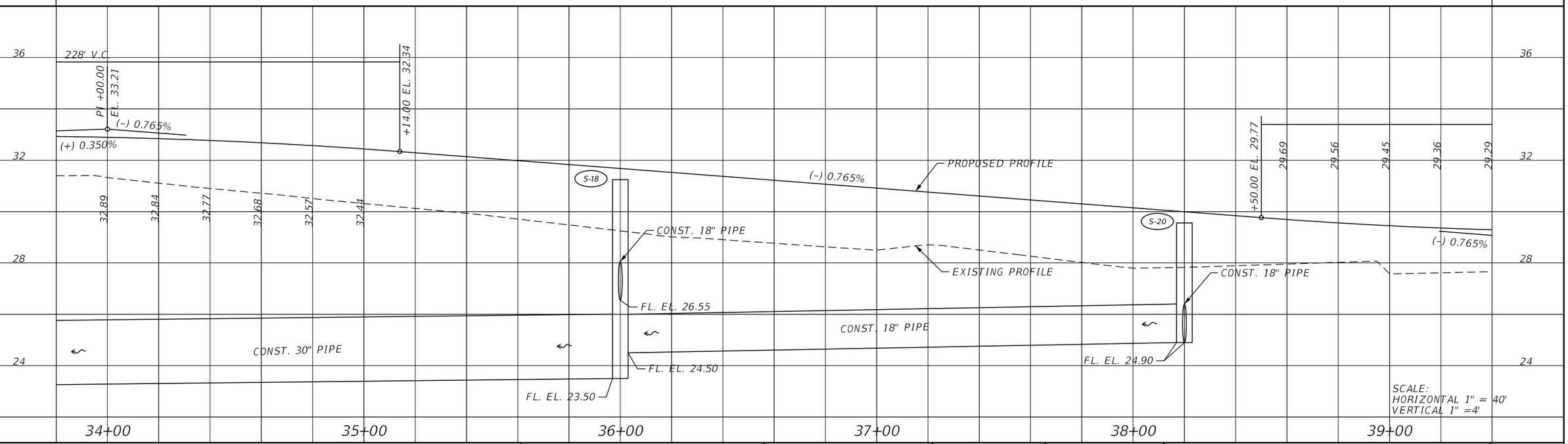
WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
32

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1





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904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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PLAN AND PROFILE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
33

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

CURVE DATA CL104
PI STA. = 45+24.14
Δ = 51° 14' 36" (LT)
D = 8° 04' 11"
T = 340.50
L = 635.00
R = 710.00
PC STA. = 41+83.64
PT STA. = 48+18.64
e = 0.048

LEGEND
LIMIT OF CONSTRUCTION

WETLAND LINE

0 10 40
Feet

MATCH LINE STA. 39+40.00

CONST. 147 LF OF 18" PIPE
CONST. 12' ASPHALT SHARED USE PATH
CONST. 189 LF OF 18" PIPE
PROP. 16" WM
CONST. 148 LF OF 18" PIPE
CONST. 24 LF OF 18" PIPE
CONST. 51 LF OF 18" PIPE
CONST. 28 LF OF 18" PIPE
CONST. TYPE F C & G
CONST. WILLIAM BURGESS BLVD.
CL104
CONST. 1.5' C & G
CONST. TYPE F C & G
CONST. 6' CONC. SW
WILLIAM BURGESS BLVD.
PC STA. 41+83.64
S 12° 56' 13" E
B-2
I-2
S-22
S-23
S-24
S-24A
S-24B
S-25
S-25A
S-25B
S-25C
A-30
A-31
A-32
A-33
A-34
A-35
40
42
44

MATCH LINE STA. 45+00.00

NOTE:
FOR ADDITIONAL BULB-OUT & ISLAND INFORMATION SEE CONSTRUCTION DETAIL SHEET

EXIST. R/W LINE

LEGEND
6" GRAVEL (36 SY)

200' V.C.
100.00' SUPER ELEVATION TRANSITION (LT.)
594.80' SUPER ELEVATION (LT.)
224.40' SUPER ELEVATION TRANSITION (RT.)
545.04' SUPER ELEVATION (RT.)
PROPOSED PROFILE
EXISTING PROFILE
(-) 0.765%
(+) 0.300%
(+) 0.300%
(-) 0.700%
(-) 0.700%
PI +50.00 EL. 29.00
PI +50.00 EL. 30.20
+50.00 EL. 29.30
+50.00 EL. 29.90
+50.00 EL. 29.50
+03.71 NC
+03.71 -0.048
+04.19 NC
+04.19 +0.048
29.25
29.22
29.22
29.23
29.27
29.93
29.97
29.99
29.99
29.97
29.93
29.87
29.79
29.69
29.57
CONST. 18" PIPE
CONST. 18" PIPE
CONST. 18" PIPE
CONST. 18" PIPE
CONST. 24" PIPE
FL. EL. 24.10
FL. EL. 23.70
FL. EL. 23.70
FL. EL. 23.40
FL. EL. 23.00
FL. EL. 20.90
FL. EL. 20.40
SCALE:
HORIZONTAL 1" = 40'
VERTICAL 1" =4'
32
28
24
20
40+00
41+00
42+00
43+00
44+00
45+00

REVISIONS			
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RONALD F. HOOGLAND, P.E. Lic. No. 45247

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PLAN AND PROFILE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
34

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

CURVE DATA CL104
PI STA. = 45+24.14
Δ = 51° 14' 36" (LT)
D = 8° 04' 11"
T = 340.50
L = 635.00
R = 710.00
PC STA. = 41+83.64
PT STA. = 48+18.64
e = 0.048

LEGEND
LIMIT OF CONSTRUCTION

0 10 40 Feet

253.4' R

+18.50 80.00' LT

PROPOSED R/W LINE

MATCH LINE STA. 45+00.00

MATCH LINE STA. 50+60.00

CONST. 283 LF OF 24" PIPE

CONST. 12' ASPHALT SHARED USE PATH

PROP. 16" WM

CONST. 277 LF OF 18" PIPE

CONST. 54 LF OF 18" PIPE

CONST. 57 LF OF 18" PIPE

CONST. 32 LF OF 24" PIPE

CONST. 116 LF OF 30" PIPE

CONST. 42 LF OF 24" PIPE

CONST. TYPE F C & G

CONST. 28 LF OF 18" PIPE

CONST. 27 LF OF 18" PIPE

CONST. 116 LF OF 30" PIPE

CONST. 1.5' C & G

CONST. TYPE F C & G

WILLIAM BURGESS BLVD.

℄ CONST. WILLIAM BURGESS BLVD.

CL104

PI STA. 48+18.64

B-3

I-3

S 64° 10' 49" E

CONST. 65 LF OF 24" PIPE

WETLAND LINE

CONST. 96 LF OF 36" PIPE

+86.46 63.30' RT

CONST. 115 LF OF 36" PIPE

722.4' R

+97.48 60.34' RT

PROPOSED R/W LINE

CONST. 6' CONC. SW

POND B

1:4

6" GRAVEL

NOTE:
FOR ADDITIONAL BULB-OUT & ISLAND INFORMATION SEE CONSTRUCTION DETAIL SHEET

S-25 S-25A S-25C S-25D S-26 S-26A S-27 S-27A S-28 S-29 S-101 S-102

CD-1A CD-1B CD-2A CD-2B CD-1 CD-2

A-36 A-37 A-37A A-38 A-39 A-40

PB-4

46 47 48 49 50

594.80' SUPER ELEVATION (LT.)

100.00' SUPER ELEVATION TRANSITION (LT.)

+98.51 NC

219' V.C.

+98.51 -0.048

+90.50 EL. 27.12

27.05 26.94 26.85 26.78 26.74 26.72 26.73 26.76 26.82 26.90 27.01

+09.50 EL. 27.07

(-) 0.700%

(+) 0.658%

PROPOSED PROFILE

EXISTING PROFILE

CONST. 24" PIPE

CONST. 24" PIPE

FL. EL. 20.40

CONST. 18" PIPE

CONST. 18" PIPE

CONST. 18" PIPE

FL. EL. 20.90

FL. EL. 21.40

FL. EL. 21.60

PI +00.00 EL. 26.35

FL. EL. 22.85

CONST. 18" PIPE

FL. EL. 22.60

CONST. 30" PIPE

FL. EL. 18.97

CONST. 18" PIPE

+04.19 +0.048

545.04' SUPER ELEVATION (RT.)

224.40' SUPER ELEVATION TRANSITION (RT.)

+98.03 NC

SCALE:
HORIZONTAL 1" = 40'
VERTICAL 1" =4'

32 28 24 20

45+00 46+00 47+00 48+00 49+00 50+00

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

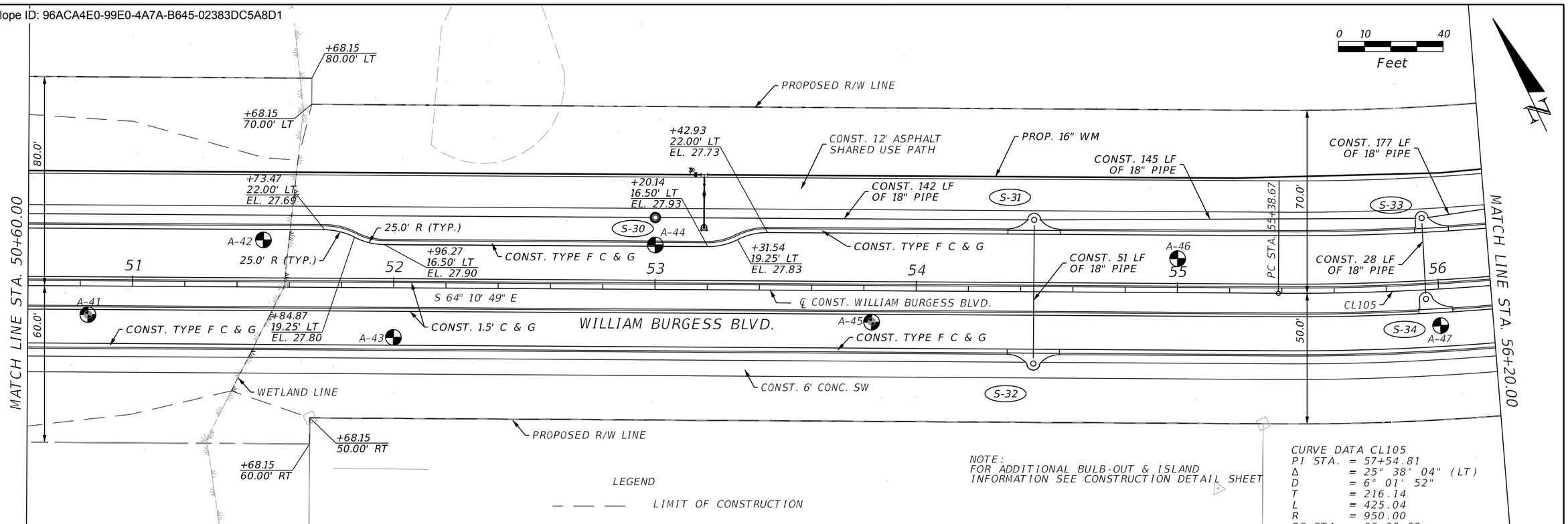
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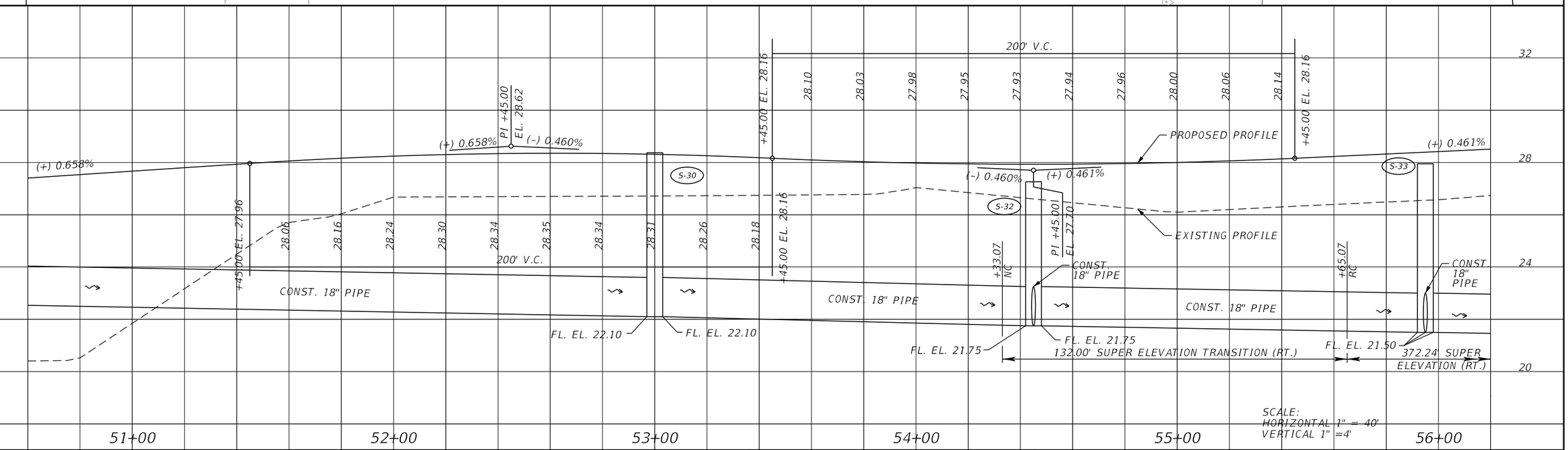
PLAN AND PROFILE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
35

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1





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RONALD F. HOOGLAND, P.E. Lic. No. 45247

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DATE:	10/24/2023
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CHECKED:	RT
APPROVED:	RH

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PLAN AND PROFILE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
36

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

PI STA. = 57+54.81
Δ = 25° 38' 04" (LT)
D = 6° 01' 52"
T = 216.14
L = 425.04
R = 950.00
PC STA. = 55+38.67
PT STA. = 59+63.71
e = RC

NOTE:
FOR ADDITIONAL BULB-OUT & ISLAND INFORMATION SEE CONSTRUCTION DETAIL SHEET

LEGEND
— — — LIMIT OF CONSTRUCTION

0 10 40
Feet

N

MATCH LINE STA. 56+20.00

70.0'

50.0'

PROPOSED R/W LINE

+63.71
70.00' LT

+63.71
60.00' LT

PROP. 16" WM

CONST. 18" PIPE

CONST. 12' ASPHALT SHARED USE PATH

CONST. 232 LF OF 24" PIPE

CONST. 176 LF OF 24" PIPE

60.0'

MATCH LINE STA. 61+80.00

S-34A

B-4

PT STA. 59+63.71

S-35

CONST. 27 LF OF 18" PIPE

A-52

61

57

58

59

60

S 89° 48' 53" E

CONST. TYPE F C & G

CL105

℄ CONST. WILLIAM BURGESS BLVD.

WILLIAM BURGESS BLVD.

A-51

S-36

CONST. 1.5' C & G

A-49

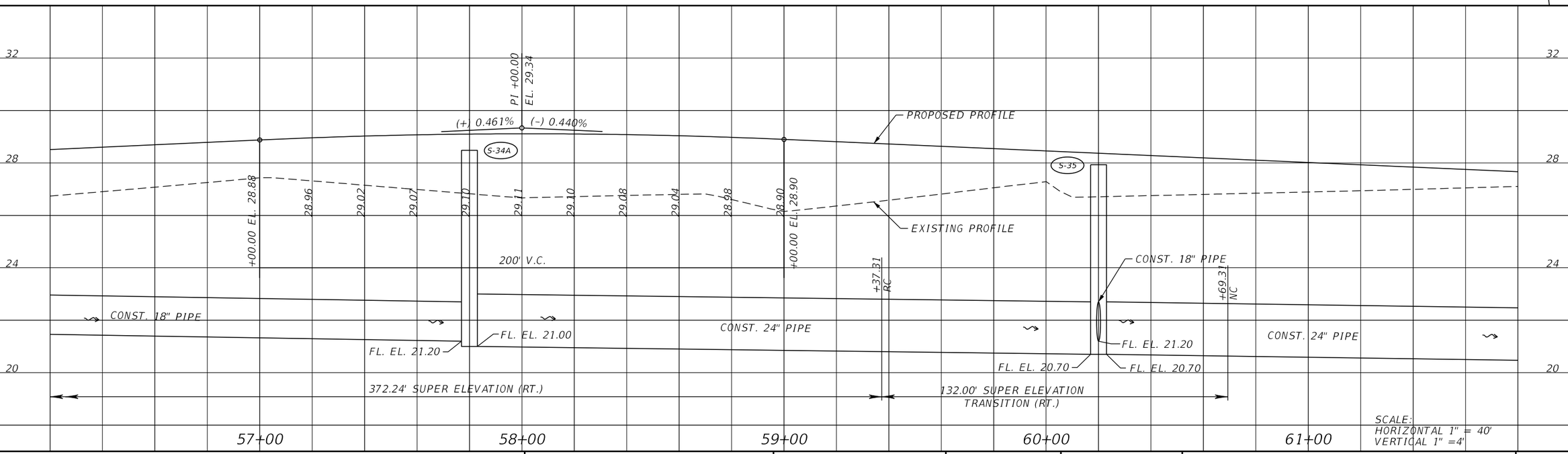
A-50

CONST. TYPE F C & G

CONST. 6' CONC. SW

PROPOSED R/W LINE

+63.71
50.00' RT



SCALE:
HORIZONTAL 1" = 40'
VERTICAL 1" =4'

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PROJECT NO. / DASH NO.
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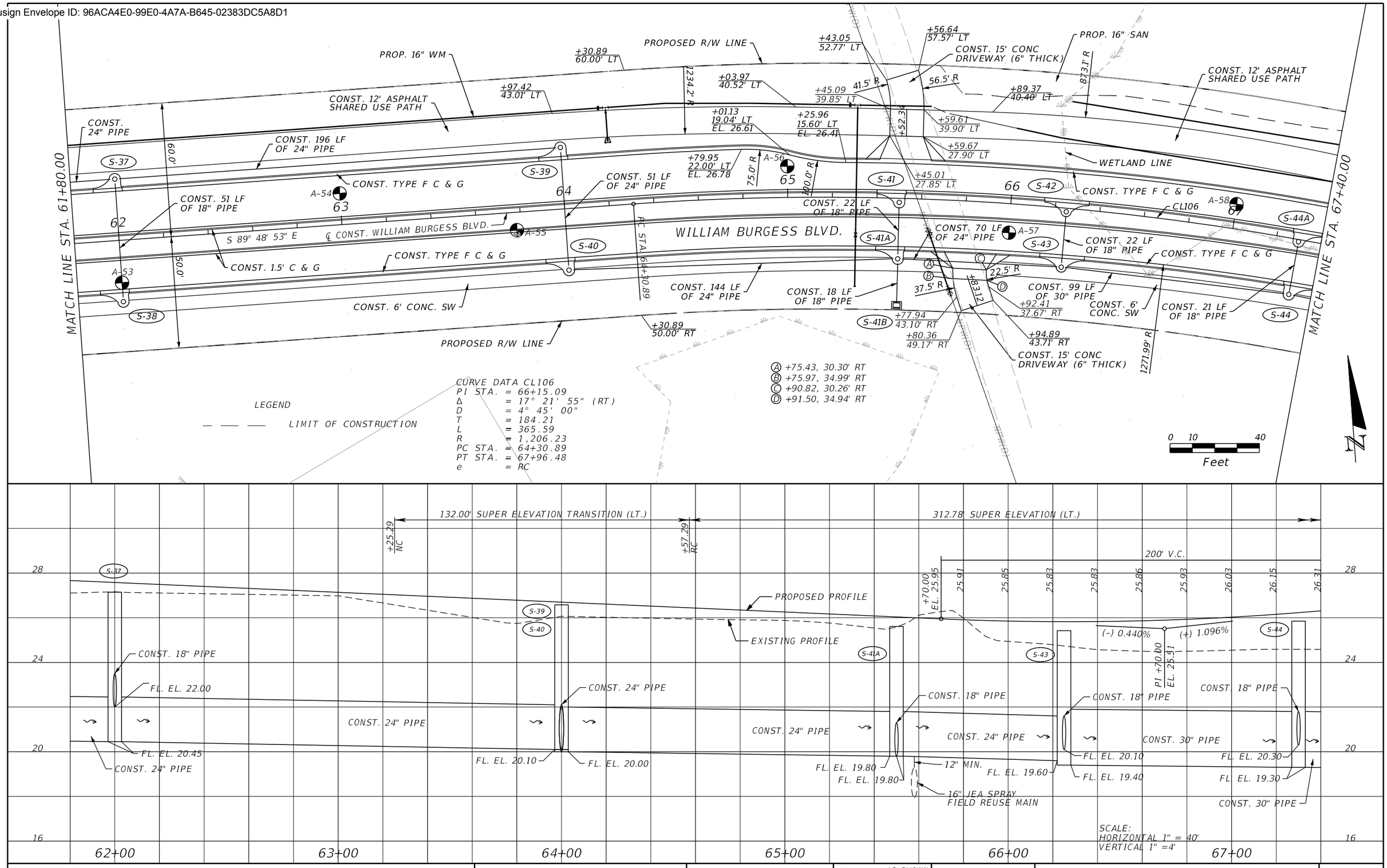
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PLAN AND PROFILE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
37

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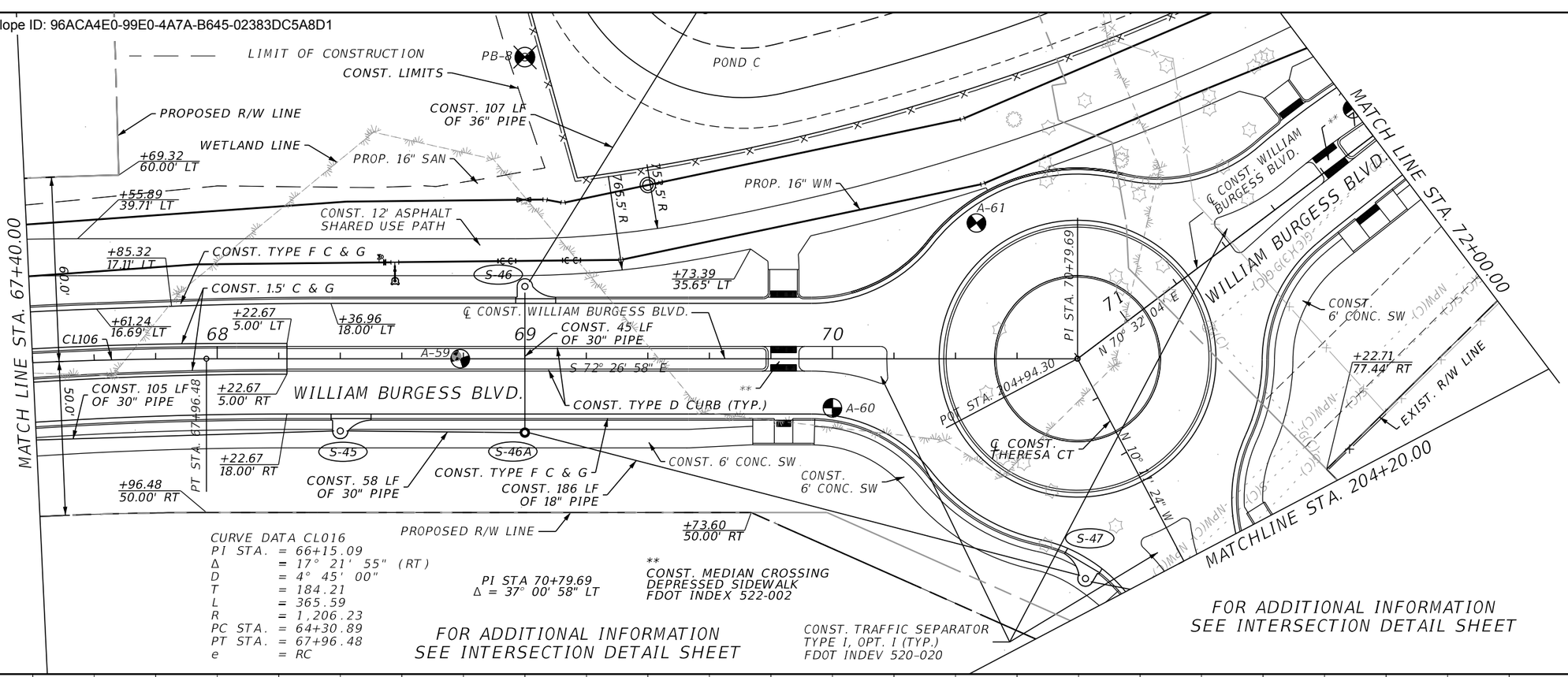
PLAN AND PROFILE

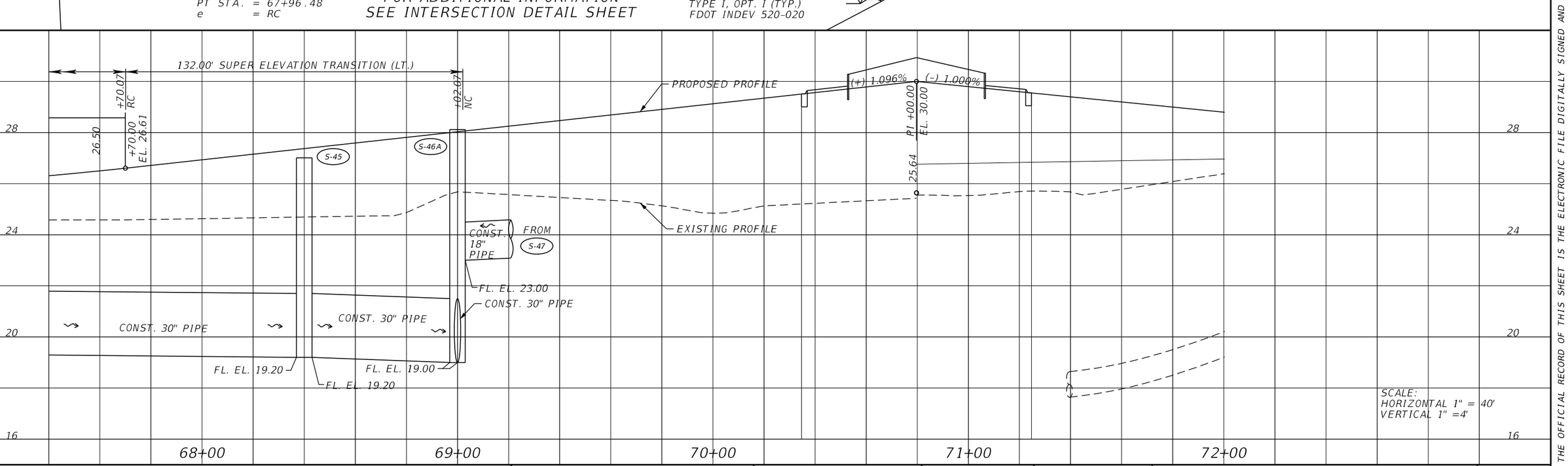
WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
38

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PLAN AND PROFILE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO. 39

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PI STA. = 74+00.58
Δ = 7° 36' 04" (LT)
D = 5° 23' 42"
T = 70.55
L = 140.89
R = 1,062.00
PC STA. = 73+30.03
PT STA. = 74+70.92
e = RC

PB-12 PB-11 POND C SCHOOL BOARD R/W LINE S-62A

MATCH LINE STA. 72+00.00 MATCH LINE STA. 77+60.00

1050.0' R 765.5' R 751.5' R

+12.98 18.46' LT +13.75 18.46' LT 3.00' R +12.72 1.52' RT

CONST. 12' ASPHALT SHARED USE PATH

S-60 VVH1 S-61 S-62 S-63 S-64 S-61A VVH2 VVH3

POT STA. 73+30.03 PT STA. 74+70.92

+30.03 12.00' LT +86.31 18.00' LT +86.31 30.00' LT +58.48 12.00' RT +80.37 40.00' LT +97.92 12.00' LT

PROP. 16" SAN EXIST. GAS PROPOSED R/W LINE PROP. FENCE PROP. GATE

CONST. 21 SY OF GRAVEL SEE FDOT STANDARD INDEX 522-003 +45.87 15.0' DW

CONST. 257 LF OF 18" PIPE CONST. TYPE F C & G CONST. 55 LF OF 18" PIPE CONST. 94 LF OF 24" PIPE

CL122 A-63 A-64 A-65 A-66 G-8

74 76

N 70° 32' 04" E N 62° 56' 00" E

** CONST. TYPE D CURB (TYP.)

CONST. 29 LF OF 18" PIPE CONST. 124 LF OF 18" PIPE CONST. 28 LF OF 18" PIPE CONST. 88 LF OF 18" PIPE

WILLIAM BURGESS BLVD. ℄ CONST. WILLIAM BURGESS BLVD.

40.00' 40.00'

CONST. 6' CONC. SW EXIST. FORCE MAIN EXIST. RECLAIMED WATER PROP. 16" WM EXIST. R/W LINE

LEGEND

— — — LIMIT OF CONSTRUCTION

LEGEND

6" GRAVEL (21 SY)

0 10 40 Feet

200' V.C.

+85.04 EL. 27.95 27.81 27.64 27.51 27.40 27.32 27.27 27.25 27.25 27.29 27.35 +85.04 EL. 27.38

EXISTING PROFILE PROPOSED PROFILE

(-) 1.000% (+) 0.428%

PI +85.04 EL. 26.95

CONST. 18" PIPE FL. EL. 23.60 CONST. 18" PIPE FL. EL. 22.30 CONST. 18" PIPE FL. EL. 22.10 CONST. 18" PIPE FL. EL. 21.50 CONST. 18" PIPE FL. EL. 19.90 CONST. 18" PIPE CONST. 24" PIPE FL. EL. 18.00

+76.52 NC 12" GM

+24.43 NC PROP. 16" WM +56.43 RC +44.52 RC

132.00' SUPER ELEVATION TRANSITION (RT.) 88.09' SUPER ELEVATION (RT.) 132.00' SUPER ELEVATION TRANSITION (RT.)

28 24 20 16

72+00 73+00 74+00 75+00 76+00 77+00

SCALE: HORIZONTAL 1" = 40' VERTICAL 1" =4'

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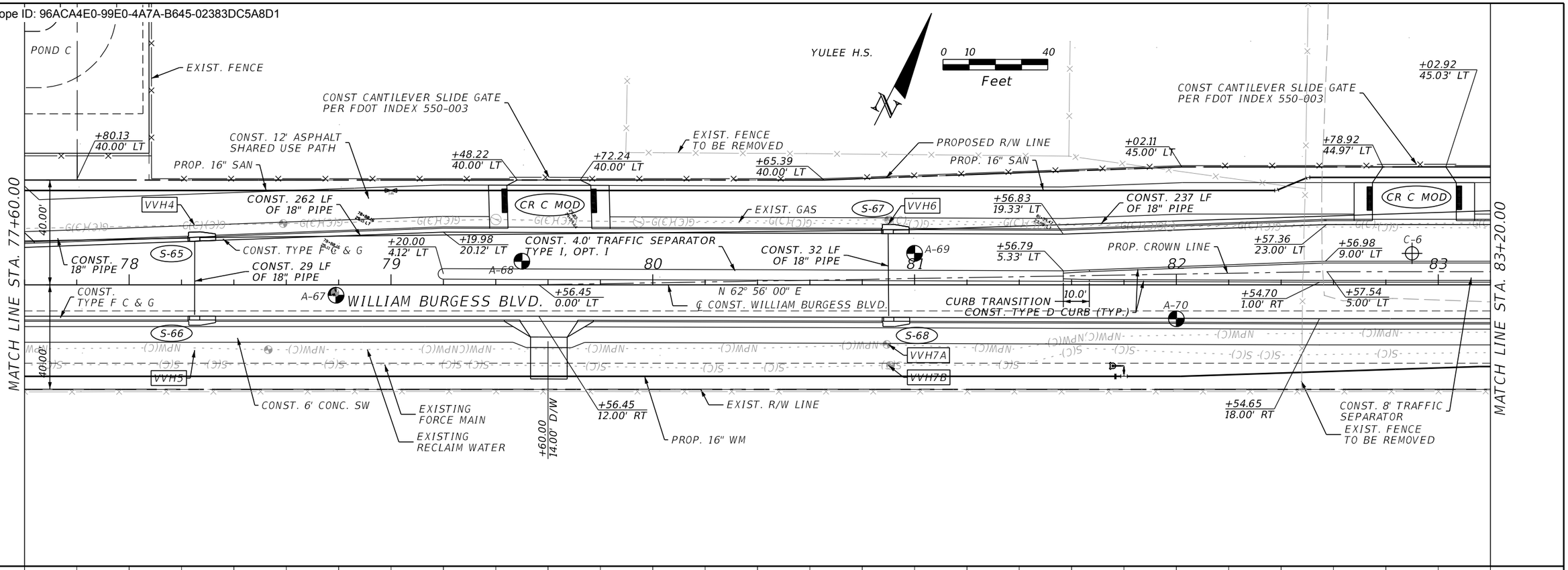
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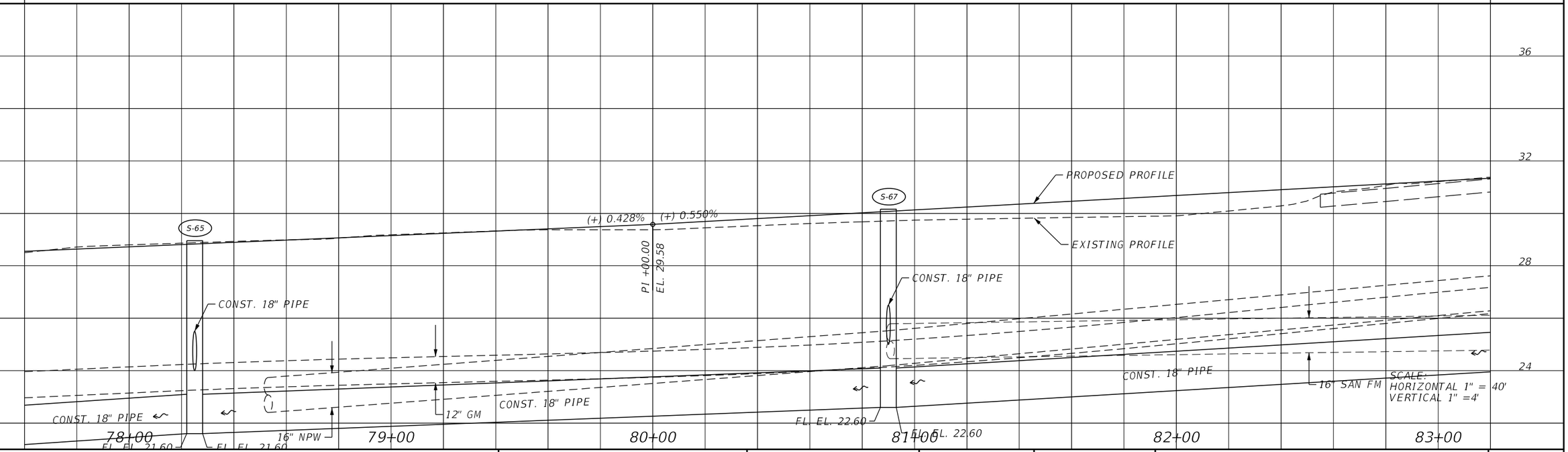
PLAN AND PROFILE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO. 40

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1





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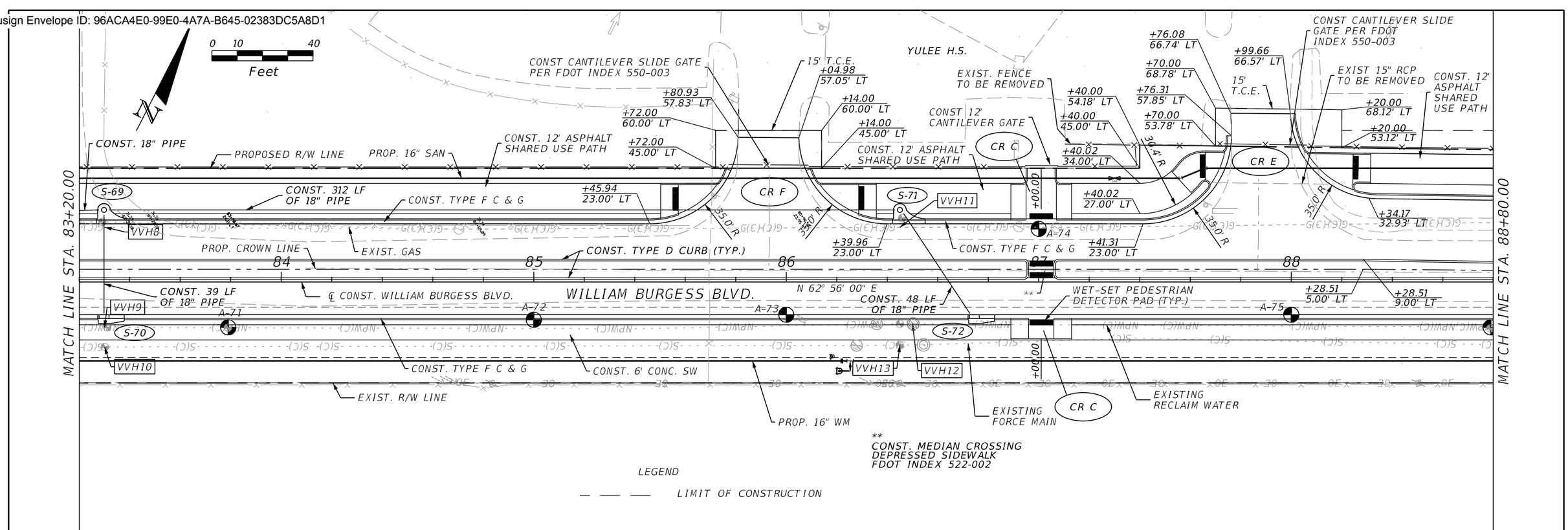
PLAN AND PROFILE

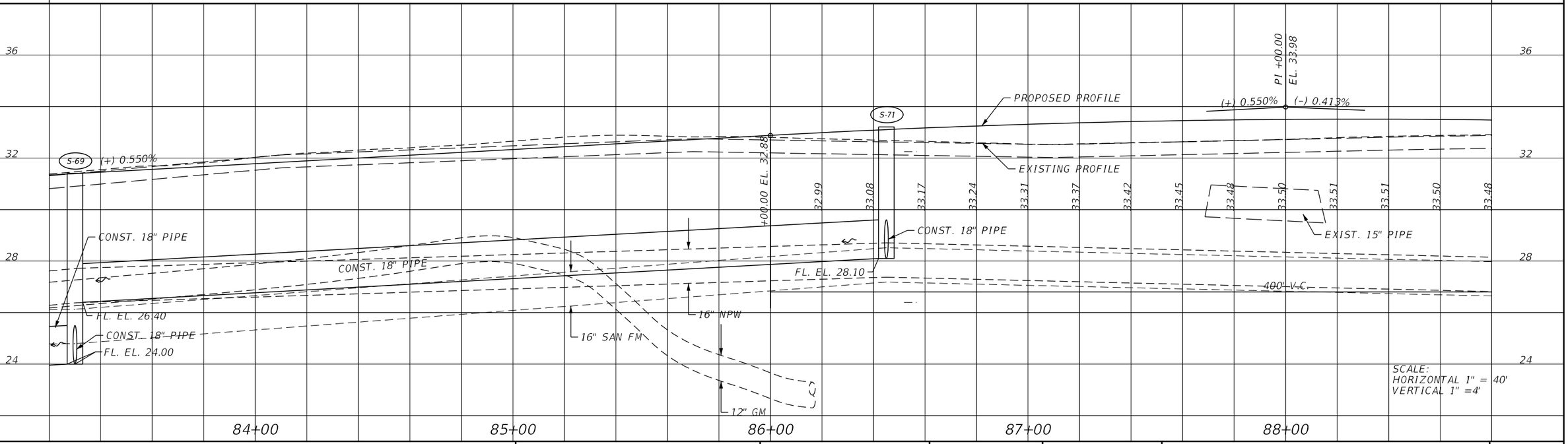
WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
41

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B190839.00

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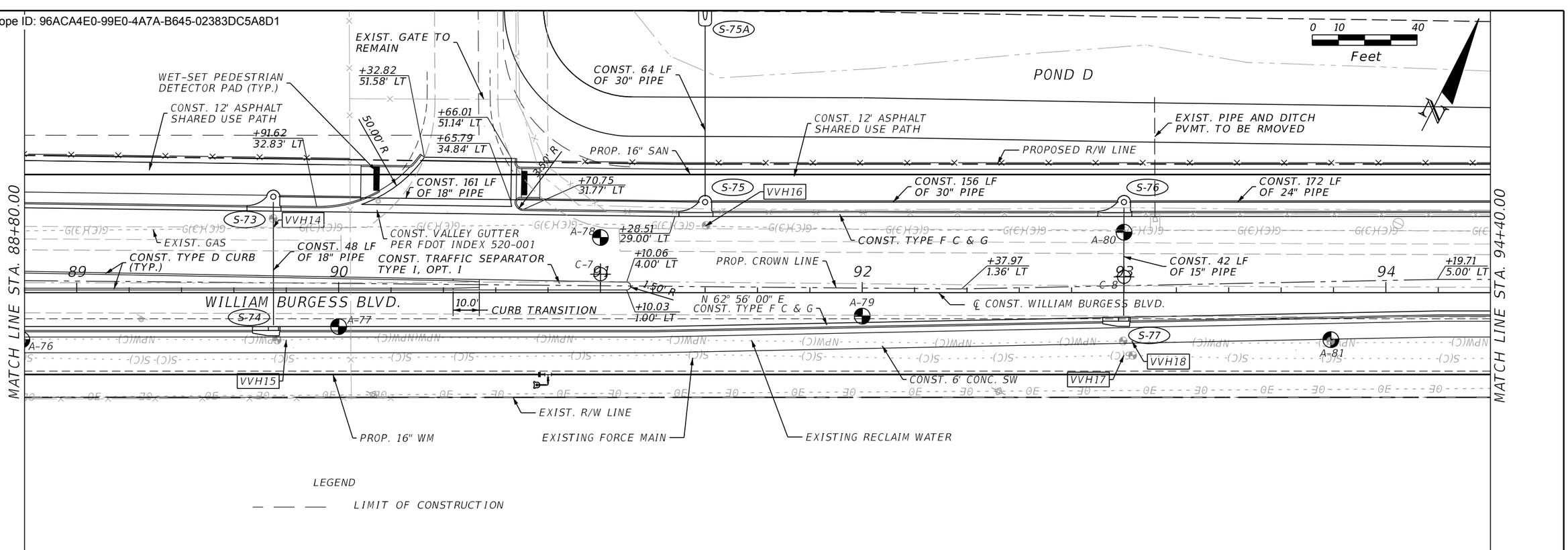
PLAN AND PROFILE

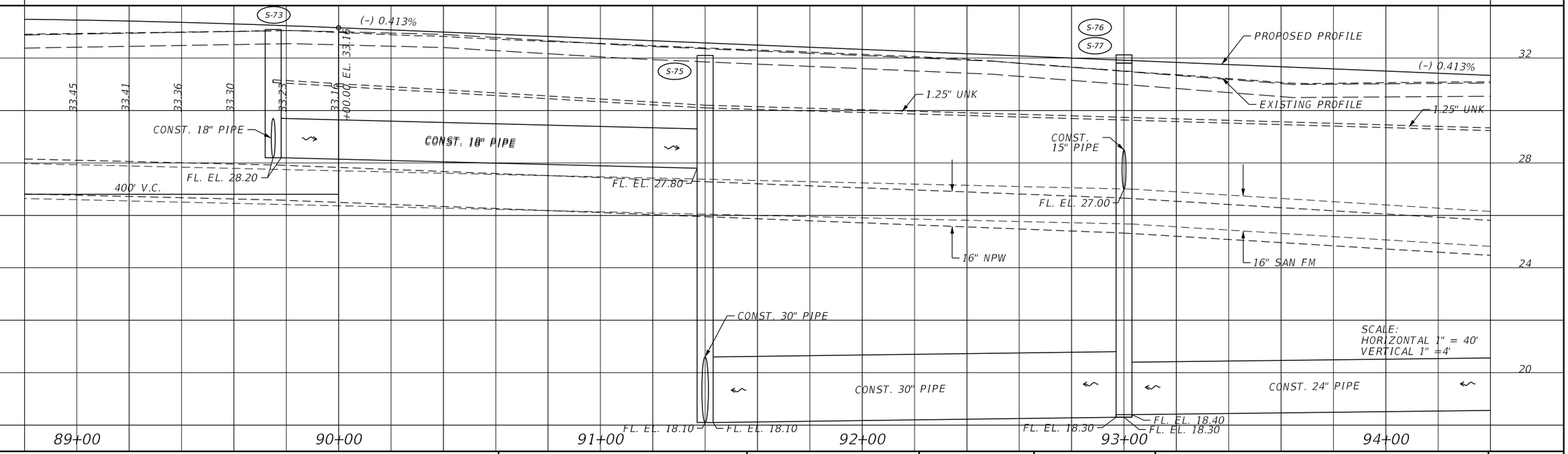
WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
42

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1





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REV	DATE	BY	DESCRIPTION

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12574 Flagler Center Blvd, Suite 202
Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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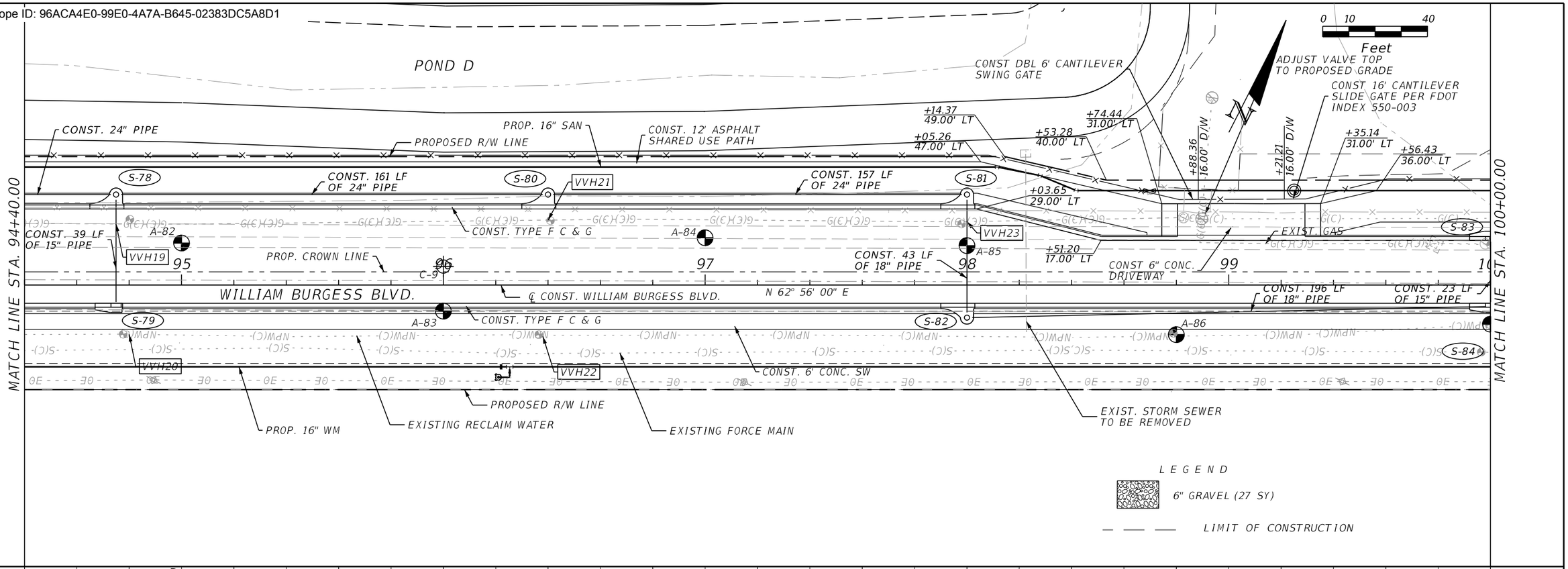
PLAN AND PROFILE

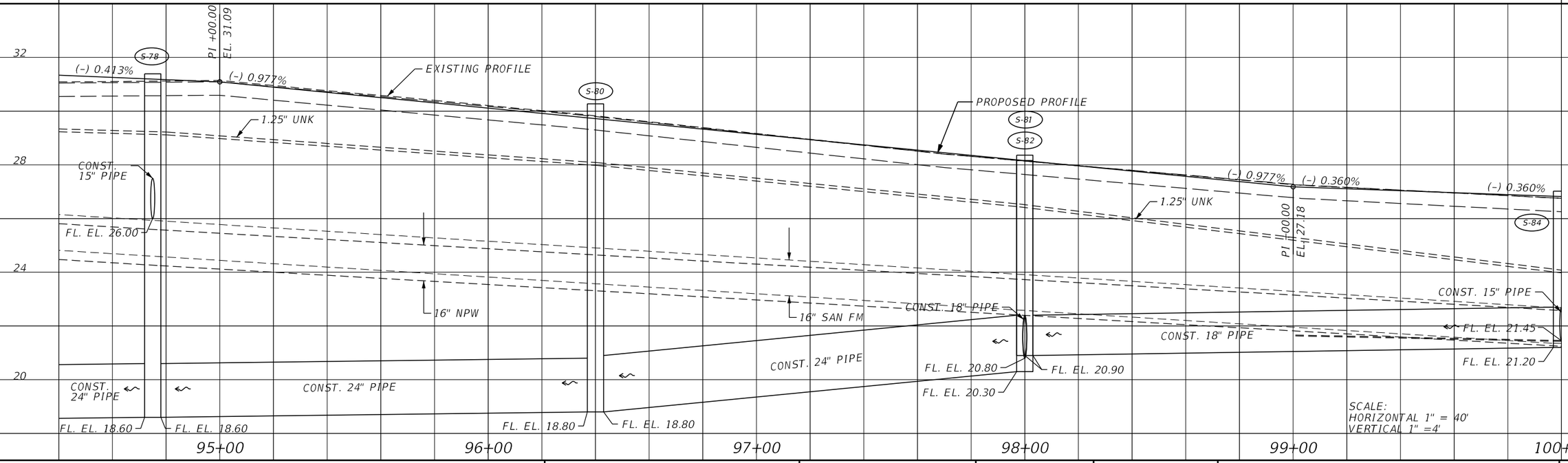
WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
43

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
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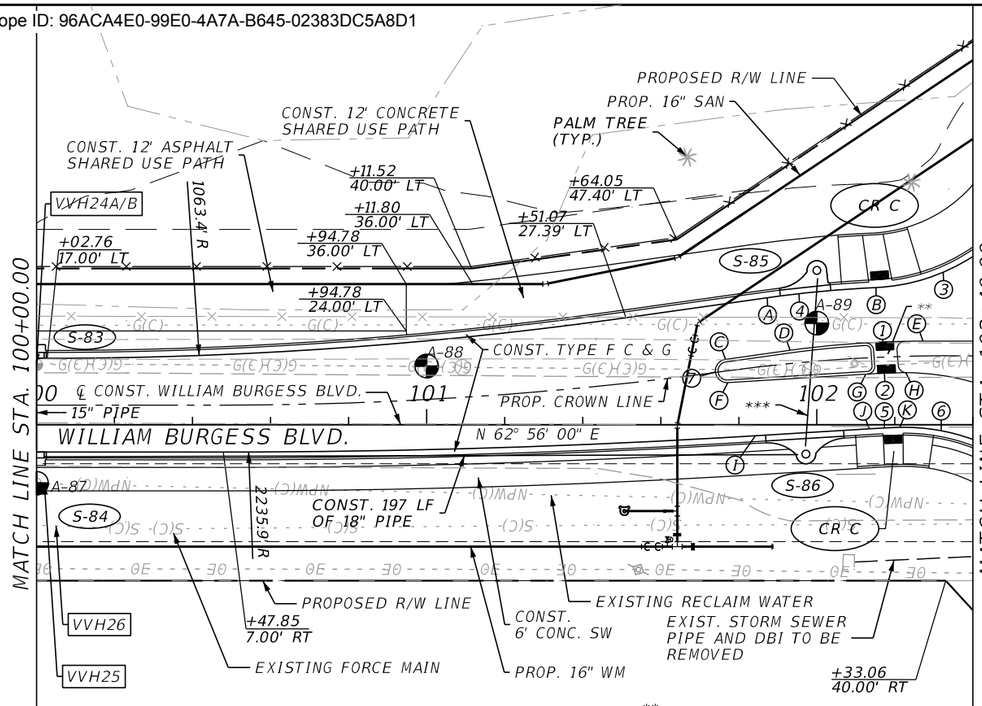
PLAN AND PROFILE

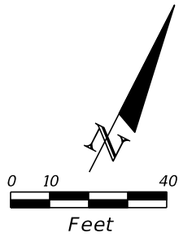
WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

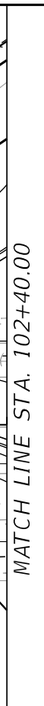
SHEET NO.
44

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LEGEND

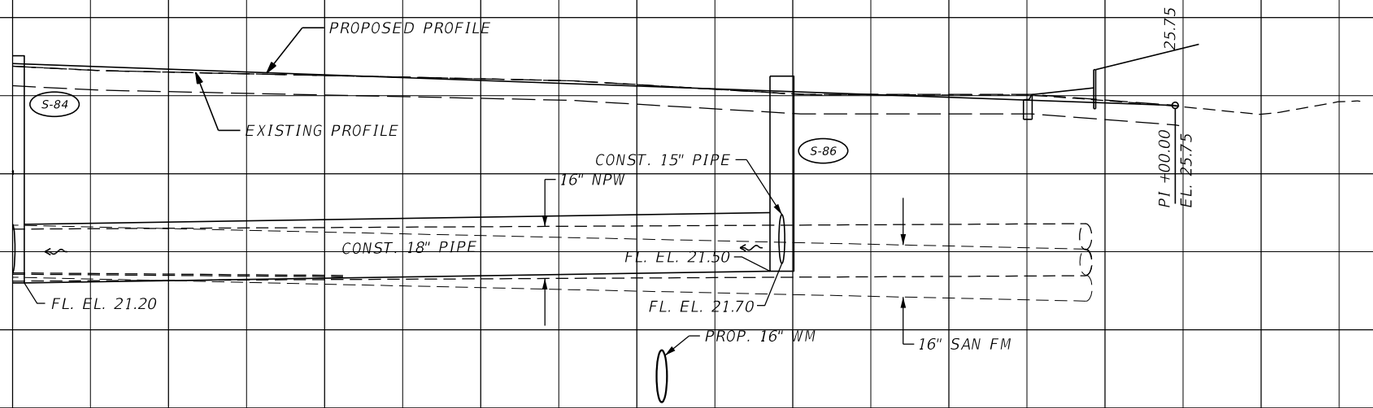
— — — — LIMIT OF CONSTRUCTION

** CONST. MEDIAN CROSSING DEPRESSED SIDEWALK FDOT INDEX 522-002

*** CONST. 43 LF OF 15" PIPE

Ⓐ +87.28, 32.49' LT
Ⓑ +15.12, 35.09' LT
Ⓒ +76.59, 16.72' LT
Ⓓ +93.16, 19.02' LT
Ⓔ +27.20, 21.37' LT
Ⓕ +77.18, 10.76' LT
Ⓖ +12.55, 12.92' LT
Ⓗ +27.20, 13.37' LT
Ⓘ +84.27, 2.83' RT
Ⓙ +13.41, 1.05' RT
Ⓚ +21.26, 0.71' RT

① 248.0' R
② 240.0' R
③ 50.0' R
④ 298.17' R
⑤ 226.0' R
⑥ 50.0' R
⑦ 3.0' R



SCALE:
HORIZONTAL 1" = 40'
VERTICAL 1" =4'

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

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APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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PLAN AND PROFILE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
45

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

1 EXISTING ELECTRONIC SIGN TO BE RELOCATED TO THE LOCATION OF THE YULEE HIGH SCHOOL SIGN AT THE FRONT OF THE SCHOOL.

LEGEND
LIMIT OF CONSTRUCTION

MATCH LINE STA. 102+40.00

EXIST. ℄
EXIST. FORCE MAIN
EXIST. RECLAIMED WATER
CONST. 6' CONC. SW
EXIST. 18" STORM SEWER PIPE, DBI, AND MH TO BE REMOVED
PROPOSED R/W LINE
CONST. 40 LF OF 15" PIPE
+77.52 30.00' LT
END MILLING & RESURFACING BEGIN CONSTRUCTION STA 303+76.57
EXIST. R/W LINE
+76.31 12.26' LT
℄ CONST. MINER RD.
N 22° 56' 01" W
MINER ROAD
LIMITS OF MILLING & RESURFACING
+77.08 23.74' RT
EXIST. R/W LINE
EXIST. 15" PIPE
WET-SET PEDESTRIAN DETECTOR PAD (TYP.)
CONST. 6' CONC. SW
CONST. TYPE D CURB (TYP.)
PGL/EOP
CONST. TRAFFIC SEPARATOR TYPE I, OPT. 1 (TYP.) FDOT INDEX 520-020
85°52'1"
℄ CONST. WILLIAM BURGESS BLVD
CONST. 244 LF OF 15" PIPE
CONST. 22 LF OF GRAVITY WALL (SCHEME 1) W/ HANDRAIL
CONST. 25 LF OF GRAVITY WALL (SCHEME 1) W/ HANDRAIL
** CONST. MEDIAN CROSSING DEPRESSED SIDEWALK FDOT INDEX 522-002
PROP. 16" WM
PROPOSED R/W LINE
PROP. 16" SAN.
CONST. 12' CONCRETE SHARED USE PATH
PROP. 16" SAN.
PROP. 18" NPW
EXIST. 18" PIPE AND DBI TO BE REMOVED
CONST. 24 LF OF 18" PIPE
+81.97 51.24' LT
+37.74 51.24' LT
EXIST. R/W LINE
+32.74 19.89' LT
+81.97 30.00' LT
CONST. 14 LF OF 18" PIPE
CONST. TYPE D CURB (TYP.)
+89.66 19.05' LT
CONST. 64 LF OF 15" PIPE
PGL/EOP
306+90.37 16.94' RT
EXIST. R/W LINE
DESILT EXIST. 15" PIPE AND MES
+33.51 16.10' RT
15" PIPE
END CONSTRUCTION BEGIN MILLING & RESURFACING STA 307+33.16
FOR ADDITIONAL INFORMATION SEE INTERSECTION DETAIL SHEET

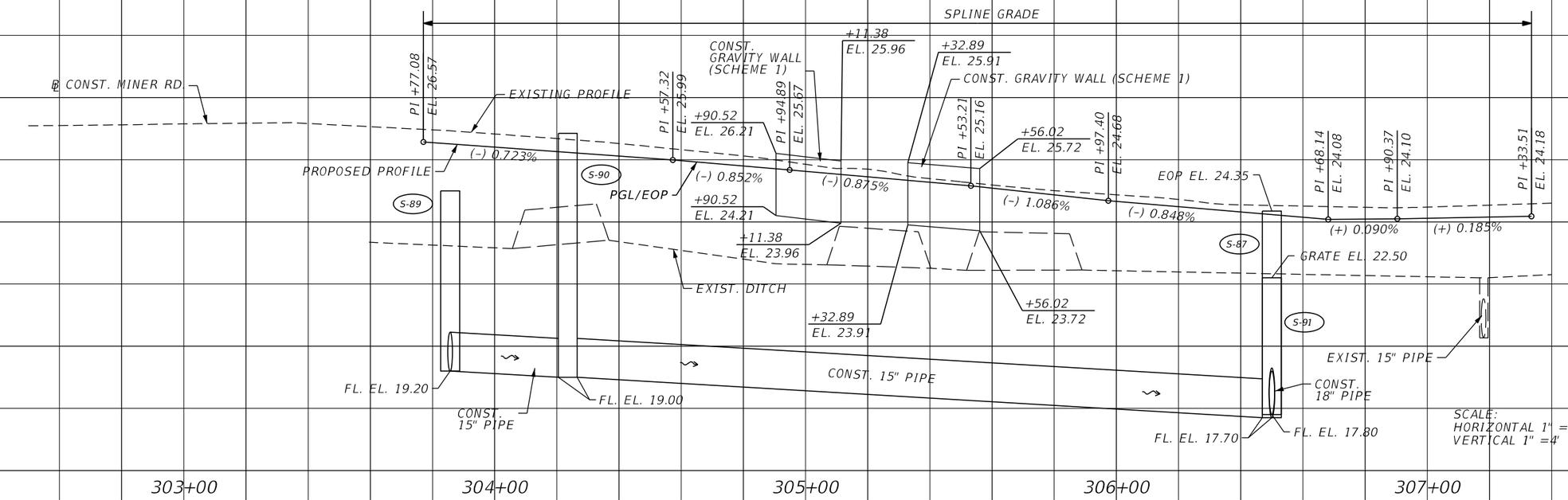
Ⓐ 102+40.24, 10.82' LT
Ⓑ 102+42.77, 13.07' LT
Ⓒ 102+42.03, 19.49' LT
Ⓓ 102+40.03, 21.37' LT

END PROJECT
STA. 305+00.00 BL CONST. MINER RD = STA. 103+45.40 CL CONST. WILLIAM BURGESS BLVD.

MATCH LINE STA. 302+50.00
MATCH LINE STA. 307+40.00

0 10 40 Feet

S-87 S-88 S-89 S-90 S-91 S-92
A-90 A-91 C-10
VVH27 VVH28
303 304 305 306 307
103



SCALE: HORIZONTAL 1" = 40' VERTICAL 1" =4'

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

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PLAN AND PROFILE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO. 46

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

CURVE DATA CLT03
PI STA. = 203+58.83
Δ = 44° 38' 50" (RT)
D = 39° 48' 07"
T = 59.11
L = 112.17
R = 143.95
PC STA. = 202+99.72
PT STA. = 204+11.90

CURVE DATA CLT02
PI STA. = 202+50.15
Δ = 28° 38' 11" (LT)
D = 38° 11' 50"
T = 38.29
L = 74.97
R = 150.00
PC STA. = 202+11.86
PT STA. = 202+86.83

① 203+61.72, 24.35' RT
② 203+68.63, 27.09' RT
RJ 8.0'

0 10 40
Feet

NOTE:
REMOVAL OF EXISTING GUARDRAIL TO BE PAID FOR UNDER CLEARING & GRUBBING

RADIO AVE.
RADIO CT.
THERESA RD.
THERESA CT.
200
201
202
203
204
C-11
C-12
A-92
A-93
A-94
A-95
A-22
S-49
S-50
S-51
S-52
S-53
CLT02
CLT03
BEGIN CONSTRUCTION
BEGIN MILLING & RESURFACIING
STA. 200+08.47 ℄ CONST. THERESA CT.
+08.04
24.41' LT
PROPOSED R/W LINE
EXIST. R/W LINE
MILLING & RESURFACING
℄ CONST. THERESA CT.
N 26° 12' 03" W
+35.74
10.00' RT
CONST STRAIGHT CURB FLARE
30.0' R
+10.60
23.83' RT
+08.95
26.81' RT
EXIST. R/W LINE
END MILLING & RESURFACIING
BEGIN NEW PAVEMENT
STA. 200+89.00 ℄ CONST. THERESA CT.
EXIST. 15" PIPE TO BE REMOVED
30' OF 15" PIPE
+74.11
12.0'
+59.13
10.00' LT
+89.10
10.00' LT
+41.93
18.00' RT
+60.00
18.0'
+79.94
18.00' RT
EXIST. 15" PIPE TO BE REMOVED
CONST CURVED CURB FLARE
PC STA. 202+11.86
CONST. 46 LF OF 24" PIPE
CONST. 6' CONC. SW
EXIST. DBI TO REMAIN
EXIST. GUARDRAIL TO BE REMOVED
EXIST. PAVEMENT TO BE REMOVED
PROPOSED R/W LINE
PT STA. 202+86.83
203
197.3' R
N 54° 50' 14" W
10.0'
10.0'
+84.35
10.00' RT
PC STA. 202+99.72
150.0' R
+49.18
RJ
+83.74
17.37' RT
+99.98
17.40' RT
419.8' R
PT STA. 204+11.90
50.0' R
CONST. TYPE D CURB (TYP.)
+16.32
20.78' LT
+69.25
CONST. 71 LF OF 18" PIPE
204
EXIST. GUY WIRES TO REMAIN
DESILT EXIST. PIPE TO REMAIN
MATCHLINE STA. 204+20.00
** CONST. MEDIAN CROSSING DEPRESSED SIDEWALK FDOT INDEX 522-002
NOTE:
REFER TO CROSS SECTIONS FOR DITCH RELOCATION AND GRADING.

EXISTING DITCH (RT)
EXISTING DITCH (LT)
EXISTING PROFILE
PROPOSED PROFILE
PROPOSED DITCH (RT)
PROPOSED DITCH (LT)
CONST. 15" PIPE
CONST. 24" PIPE
PI +89.00 EL. 30.88
PI +87.38 EL. 30.94
PI +34.07 EL. 30.55
+87.04 EL. 30.70
+84.07 EL. 29.85
+89.26 EL. 29.82
+49.26 EL. 29.53
+94.30
PI +69.26 EL. 28.69
(+) 0.300%
(-) 0.300%
(-) 1.408%
(+) 1.048%
100' V.C.
160' V.C.
29.67
29.46
29.30
29.20
29.17
29.20
29.29
29.44
30.00
30.65
30.55
30.89
30.19
29.94
32
28
24
20
200+00
201+00
202+00
203+00
204+00

SCALE:
HORIZONTAL 1" = 40'
VERTICAL 1" =4'

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

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DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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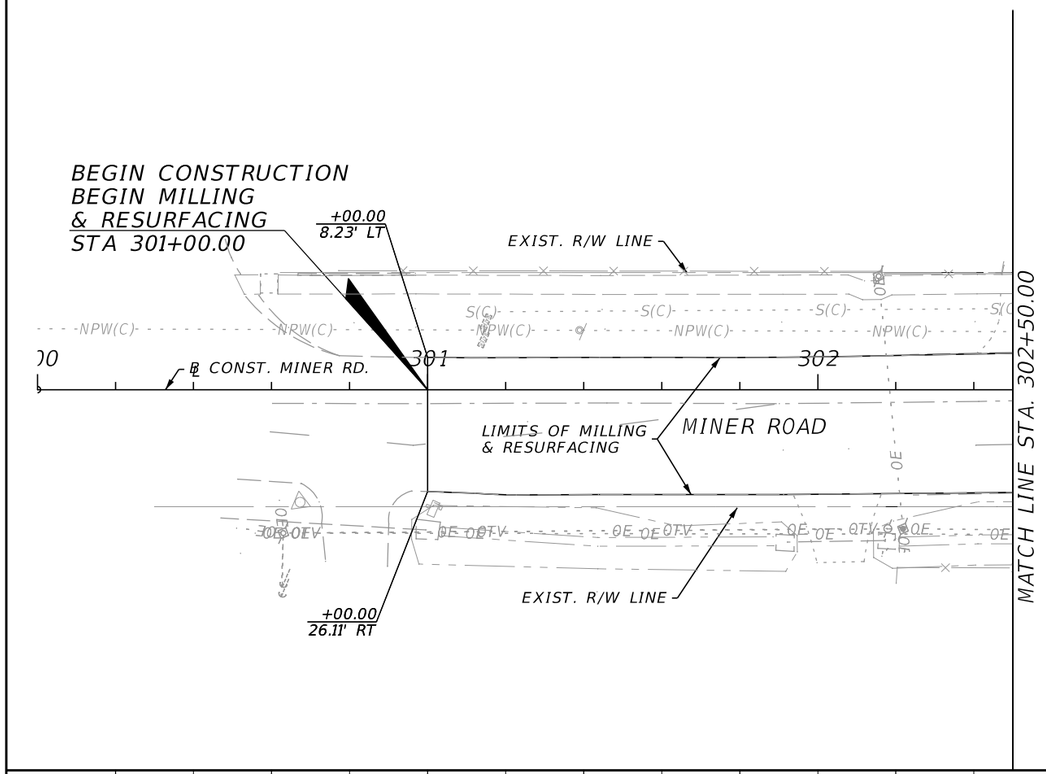
PLAN AND PROFILE

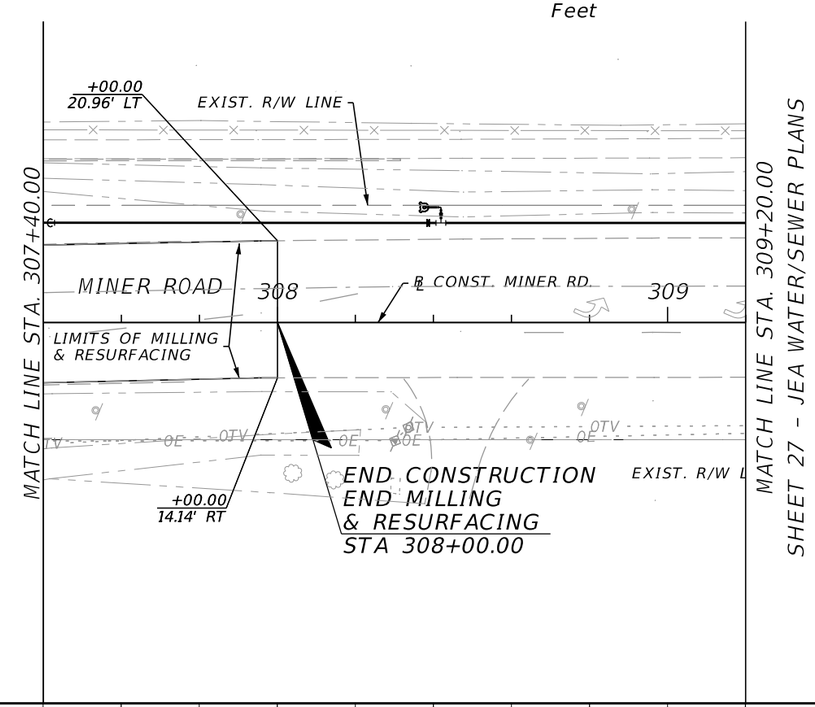
WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

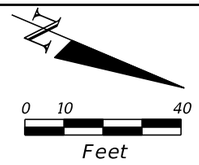
SHEET NO.
47

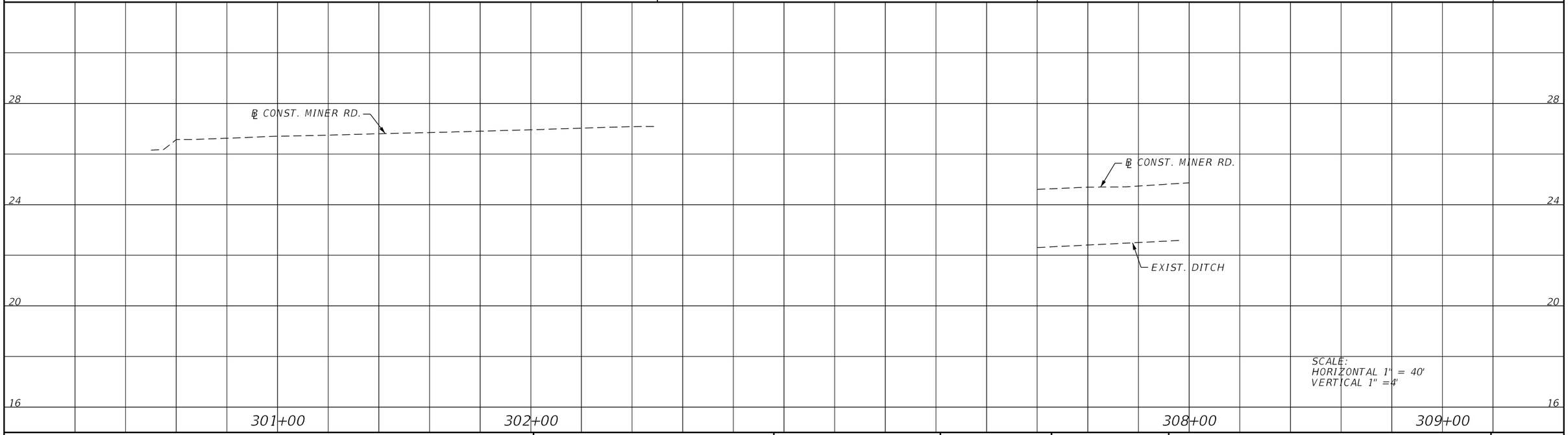
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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1









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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
48

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

CURVE DATA CL1702
PI STA = 447+30.76
Δ = 14° 09' 30" (LT)
D = 2° 00' 01"
T = 355.73
L = 707.84
R = 2864.49
PC STA = 443+75.03
PT STA = 450+82.87

BEGIN CONSTRUCTION
BEGIN MILLING & RESURFACING
STA. 448+80.00

N

0 10 40
Feet

448+80.00
13.67' LT

448+80.00
11.50' RT

448+80.00
16.50' RT

EXIST. R/W LINE

PT STA. 450+82.87

MILLING & RESURFACING

℄ CONST US 17/SR 15
N 8° 09' 07" W

US 17 / SR 15

451+34.80
17.61' RT

451+34.80
22.61' RT

450+35.00
17.14' RT

450+34.84
22.14' RT

EXIST. R/W LINE

453+40.00
37.50' LT

453+39.18
24.52' LT

453+39.18
19.52' LT

448 449 450 451 452 453

MATCHLINE – STA. 453+40.00

LEGEND

WIDENING

BEGIN CONSTRUCTION
BEGIN MILLING & RESURFACING
STA. 448+80.00

EXISTING PROFILE

EXIST. 18" PIPE

EXIST. DICTH PROFILE (RT)

36 32 28 24

448+00 449+00 450+00 451+00 452+00 453+00

SCALE:
HORIZONTAL 1" = 40'
VERTICAL 1" =4'

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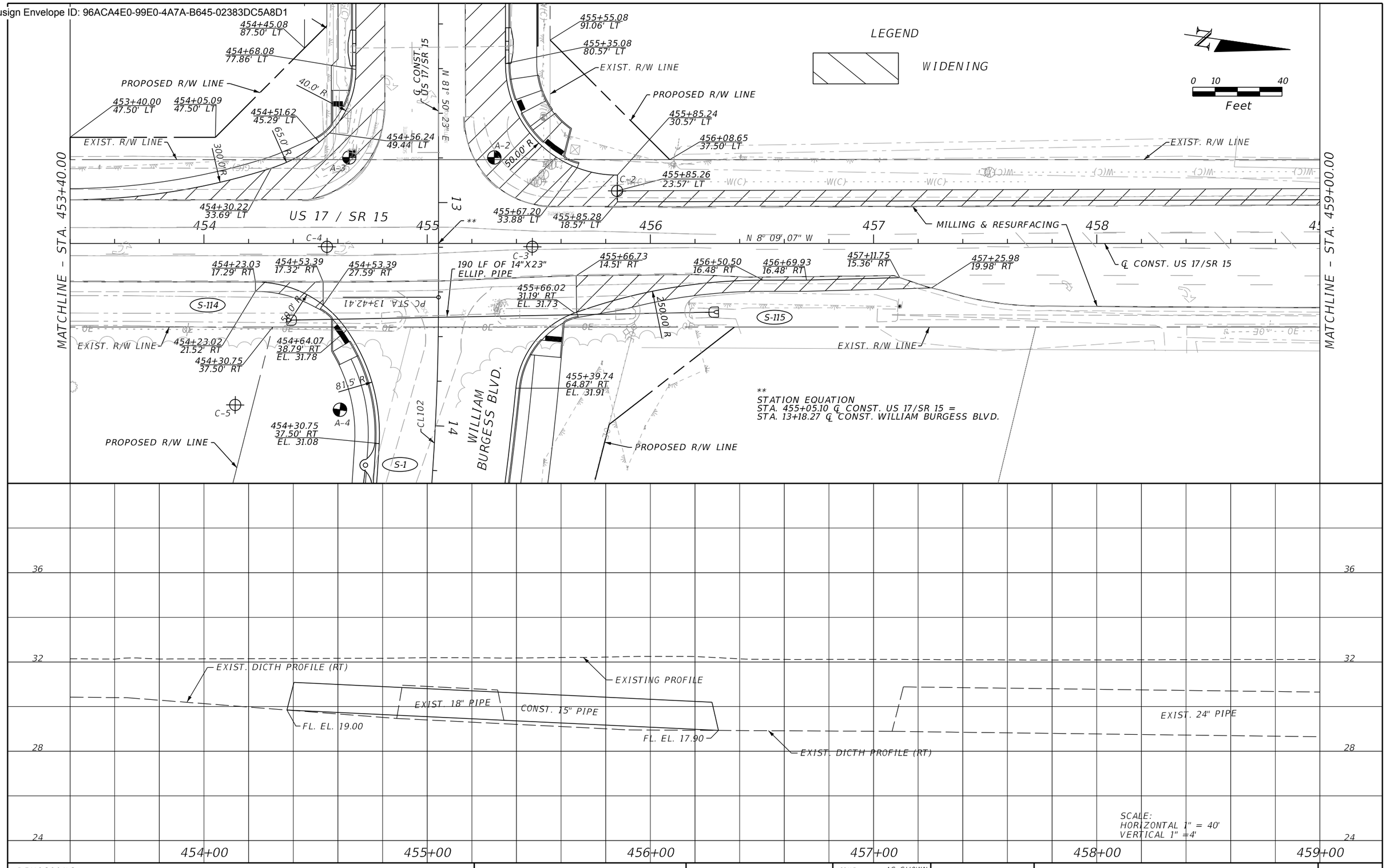
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
49

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SCALE:
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VERTICAL 1" =4'

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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
50

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

LEGEND

WIDENING

END CONSTRUCTION
END MILLING & RESURFACING
STA. 461+00.00

459+69.85
24.78' LT

459+69.83
19.78' LT

461+00.00
23.24' LT

MATCHLINE - STA. 459+00.00

59 460 461 462 463 464

N 8° 09' 07" W

℄ CONST US 17/SR 15

MILLING & RESURFACING

US 17 / SR 15

461+00.00
35.41' RT

0 10 40
Feet

BEGIN CONSTRUCTION
BEGIN MILLING & RESURFACING
STA. 461+00.00

EXISTING PROFILE

36 32 28 24

459+00 460+00 461+00 462+00 463+00 464+00

SCALE:
HORIZONTAL 1" = 40'
VERTICAL 1" =4'

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DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

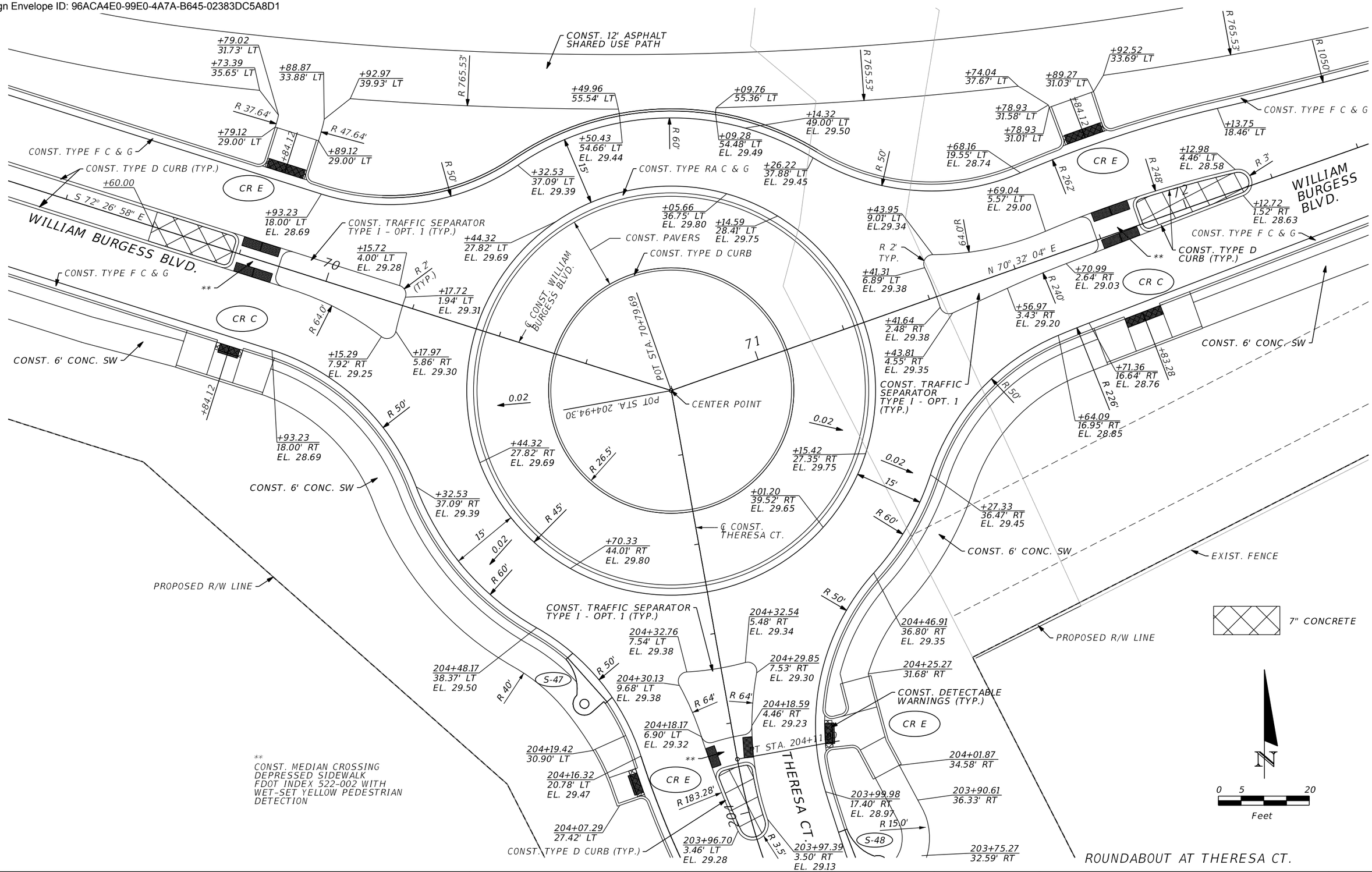
This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

PLAN AND PROFILE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY FLORIDA

SHEET NO.
51

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



** CONST. MEDIAN CROSSING DEPRESSED SIDEWALK FDOT INDEX 522-002 WITH WET-SET YELLOW PEDESTRIAN DETECTION

ROUNDABOUT AT THERESA CT.

REVISIONS			
REV	DATE	BY	DESCRIPTION

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904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

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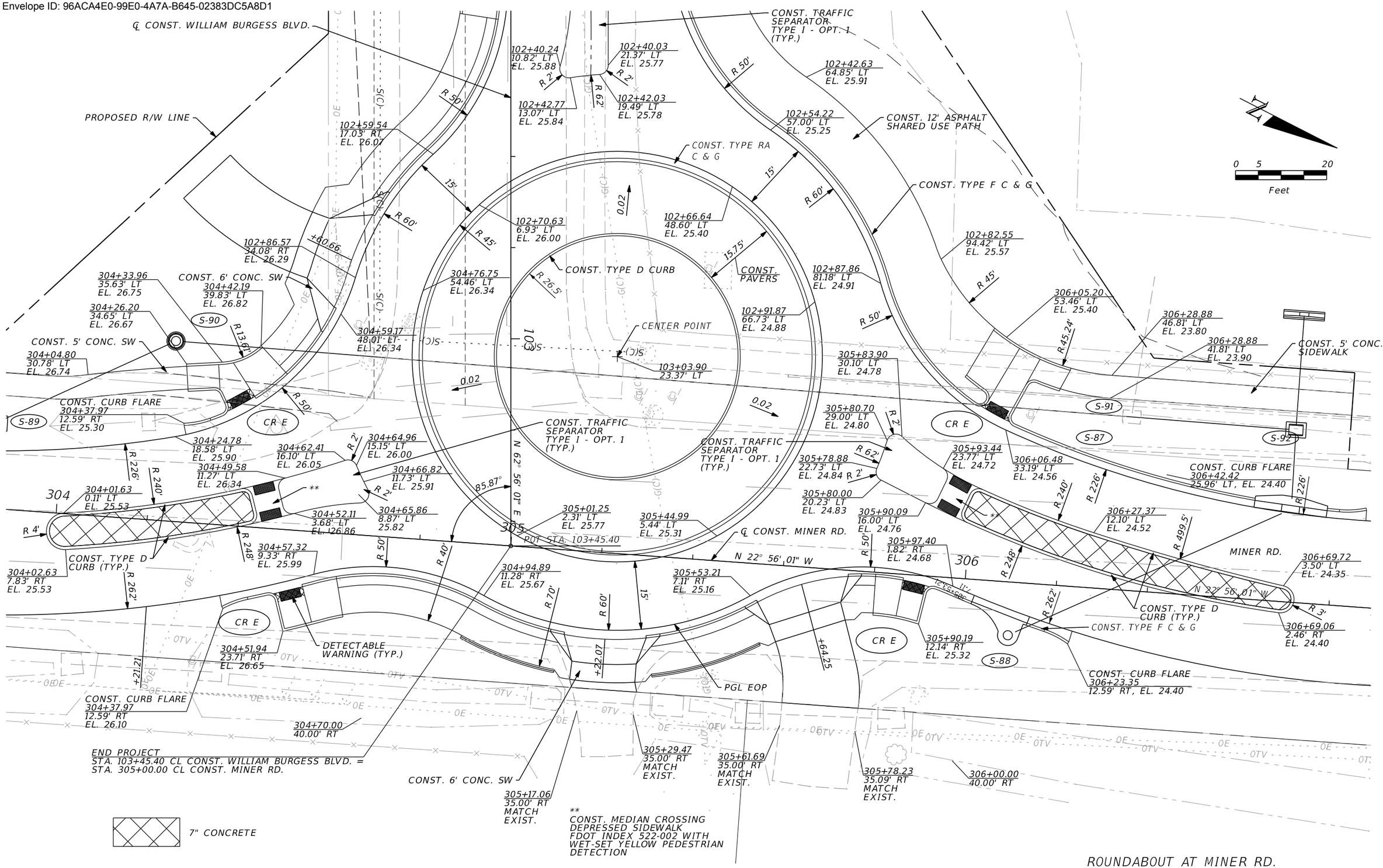
INTERSECTION DETAIL

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 52

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ROUNDABOUT AT MINER RD.

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

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INTERSECTION DETAIL

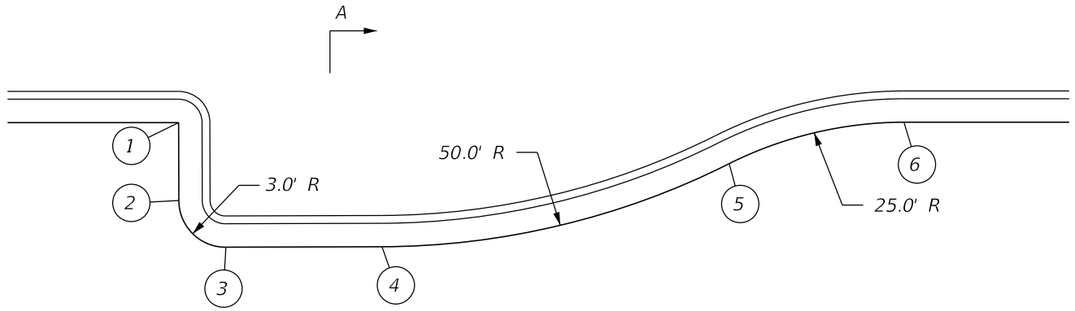
WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

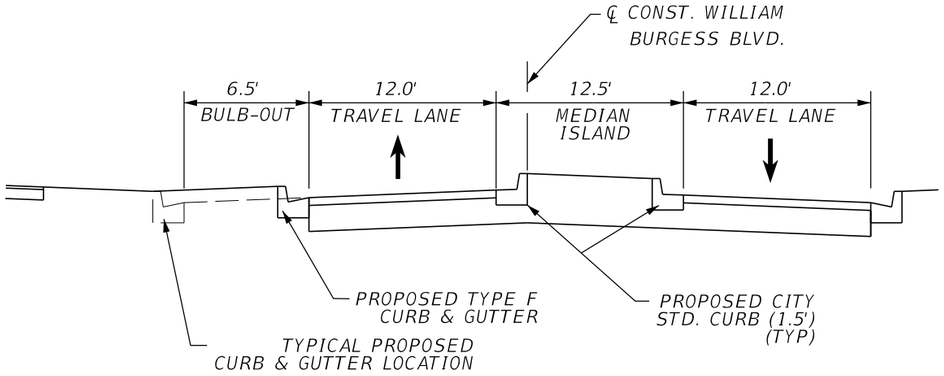
SHEET NO.
53

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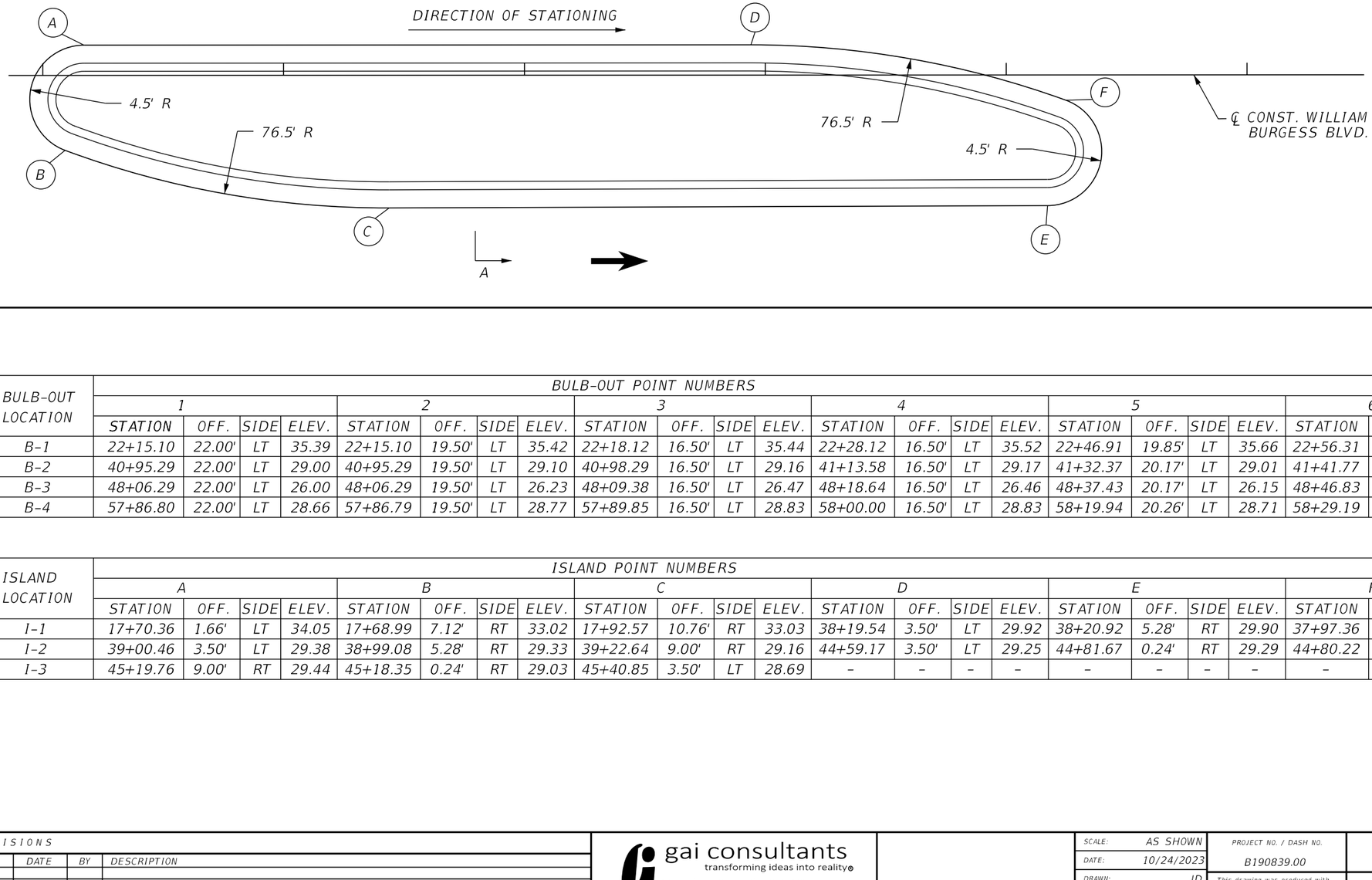
TYPICAL BULB-OUT LAYOUT
NTS





SECTION A-A - NTS

TYPICAL ISLAND LAYOUT
NTS



BULB-OUT LOCATION	BULB-OUT POINT NUMBERS																							
	1				2				3				4				5				6			
	STATION	OFF.	SIDE	ELEV.	STATION	OFF.	SIDE	ELEV.	STATION	OFF.	SIDE	ELEV.	STATION	OFF.	SIDE	ELEV.	STATION	OFF.	SIDE	ELEV.	STATION	OFF.	SIDE	ELEV.
B-1	22+15.10	22.00'	LT	35.39	22+15.10	19.50'	LT	35.42	22+18.12	16.50'	LT	35.44	22+28.12	16.50'	LT	35.52	22+46.91	19.85'	LT	35.66	22+56.31	22.00	LT	35.74
B-2	40+95.29	22.00'	LT	29.00	40+95.29	19.50'	LT	29.10	40+98.29	16.50'	LT	29.16	41+13.58	16.50'	LT	29.17	41+32.37	20.17'	LT	29.01	41+41.77	22.00'	LT	28.91
B-3	48+06.29	22.00'	LT	26.00	48+06.29	19.50'	LT	26.23	48+09.38	16.50'	LT	26.47	48+18.64	16.50'	LT	26.46	48+37.43	20.17'	LT	26.15	48+46.83	22.00'	LT	26.09
B-4	57+86.80	22.00'	LT	28.66	57+86.79	19.50'	LT	28.77	57+89.85	16.50'	LT	28.83	58+00.00	16.50'	LT	28.83	58+19.94	20.26'	LT	28.71	58+29.19	22.00'	LT	28.66

ISLAND LOCATION	ISLAND POINT NUMBERS																							
	A				B				C				D				E				F			
	STATION	OFF.	SIDE	ELEV.	STATION	OFF.	SIDE	ELEV.	STATION	OFF.	SIDE	ELEV.	STATION	OFF.	SIDE	ELEV.	STATION	OFF.	SIDE	ELEV.	STATION	OFF.	SIDE	ELEV.
I-1	17+70.36	1.66'	LT	34.05	17+68.99	7.12'	RT	33.02	17+92.57	10.76'	RT	33.03	38+19.54	3.50'	LT	29.92	38+20.92	5.28'	RT	29.90	37+97.36	9.00'	RT	30.00
I-2	39+00.46	3.50'	LT	29.38	38+99.08	5.28'	RT	29.33	39+22.64	9.00'	RT	29.16	44+59.17	3.50'	LT	29.25	44+81.67	0.24'	RT	29.29	44+80.22	9.00'	RT	29.71
I-3	45+19.76	9.00'	RT	29.44	45+18.35	0.24'	RT	29.03	45+40.85	3.50'	LT	28.69	-	-	-	-	-	-	-	-	-	-	-	-

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

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CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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CONSTRUCTION DETAILS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
54

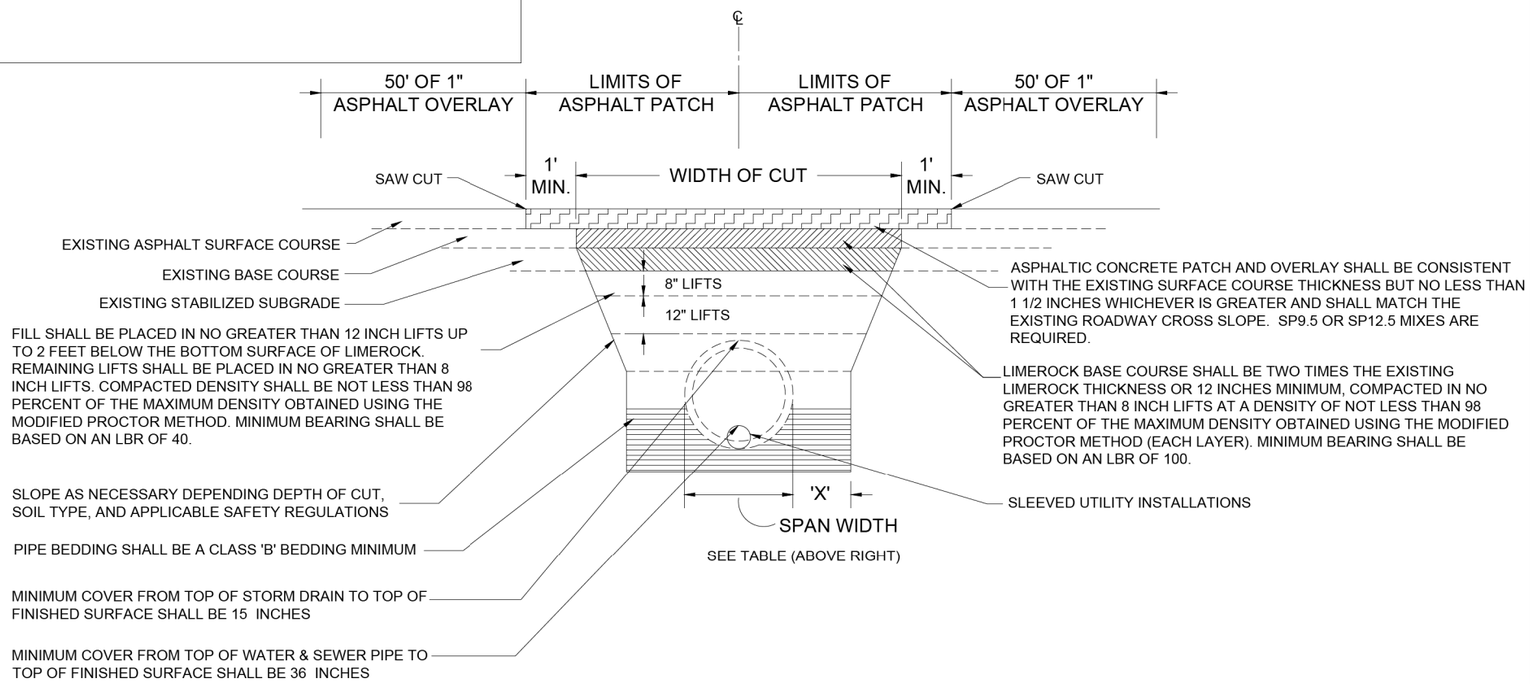
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NOTES:

1. TEST REPORTS FOR DENSITY AND BEARING SHALL BE REQUIRED FOR ALL COMPACTED LIFTS.
2. SOIL BEARING MAY BE DETERMINED BY A STATIC CONE PENETROMETER.
3. FLOWABLE FILL IS THE PREFERRED ALTERNATIVE FOR ALL BACKFILL REQUIREMENTS. (SEE OPEN ROADWAY CUT DETAIL NO. 15 FOR USE OF FLOWABLE FILL.)
4. PUBLIC SAFETY SHALL BE MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH THE RPOVISIONS OF PART 6, TEMPORARY TRAFFIC CONTROL, OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE NASSAU COUNTY ROAD CLOSURE POLICY.
5. ALL OPEN ROADWAY CUTS SHALL REQUIRE A 24 HOUR ADVANCE NOTICE TO THE ENGINEERING SERVICES DEPARTMENT INSPECTION STAFF PRIOR TO COMMENCEMENT OF CONSTRUCTION. A REPRESENTATIVE FROM THE HIGHWAY INSPECTION STAFF MUST BE PRESENT AT THE TIME OF INSTALLATION OF THE UTILITY.
6. 1" ASPHALT OVERLAY LONGITUDINALLY, TO BE 50' EACH WAY FROM LIMITS OF PATCH / REPAIR (OR VARIED BY THE ENGINEERING SERVICES DEPARTMENT)

PIPE DIAMETER OR SPAN WIDTH	'X'
≤ 12"	12 INCHES
≤ 30"	24 INCHES
≤ 42"	30 INCHES
≤ 48"	36 INCHES
≤ 60"	42 INCHES
> 60"	48 INCHES



ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY PUBLIC WORKS ENGINEERING SERVICES DEPARTMENT	REVISION DATES	OPEN ROAD CUTS / COMPACTED FILL	DETAIL NO. 16 DWG: ADOPTED:

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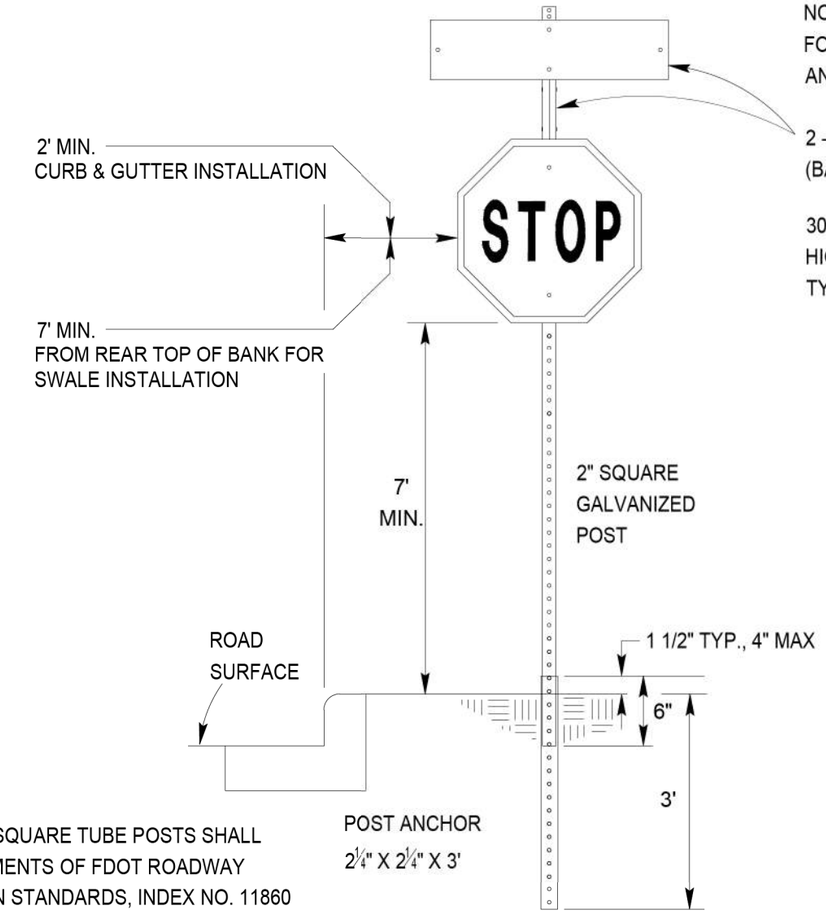
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CONSTRUCTION DETAILS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 55

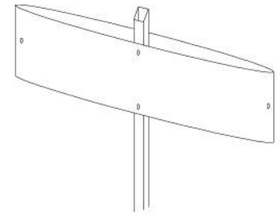
Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



NOTE: LEAVE 2 HOLES FROM TOP OF POST FOR THE INSTALLATION OF CAPS, DEAD END AND NO OUTLET SIGN IF NEEDED.

2 - 9" STREET MARKER BLADES
(BACK TO BACK)

30" X 30" STOP SIGN (MIN.)
HIGH INTENSITY PRISMATIC SHEETING
TYP.

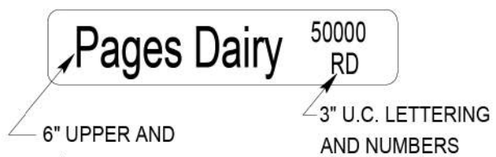


SIGN BLANKS ARE RIVETED TOGETHER AND RIVETED TO THE POST.

NOTES:

GALVANIZED STEEL SQUARE TUBE POSTS SHALL MEET THE REQUIREMENTS OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 11860

SIGN PLACEMENT SHALL MEET THE REQUIREMENTS OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 17302.



6" UPPER AND
4½" LOWER CASE

3" U.C. LETTERING
AND NUMBERS

SHEETING - GREEN E C FILM OVER HIGH INTENSITY PRISMATIC, SILVER (PRIVATE- BLUE SHEETING)
SIGN BLANKS - 0.080 ALUMINUM
9"X42" TYP.

ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY PUBLIC WORKS ENGINEERING SERVICES DEPARTMENT	REVISION DATES	STOP AND STREET MARKER COMBINATION TYPICAL INSTALLATION	DETAIL NO. 21 DWG: ADOPTED:

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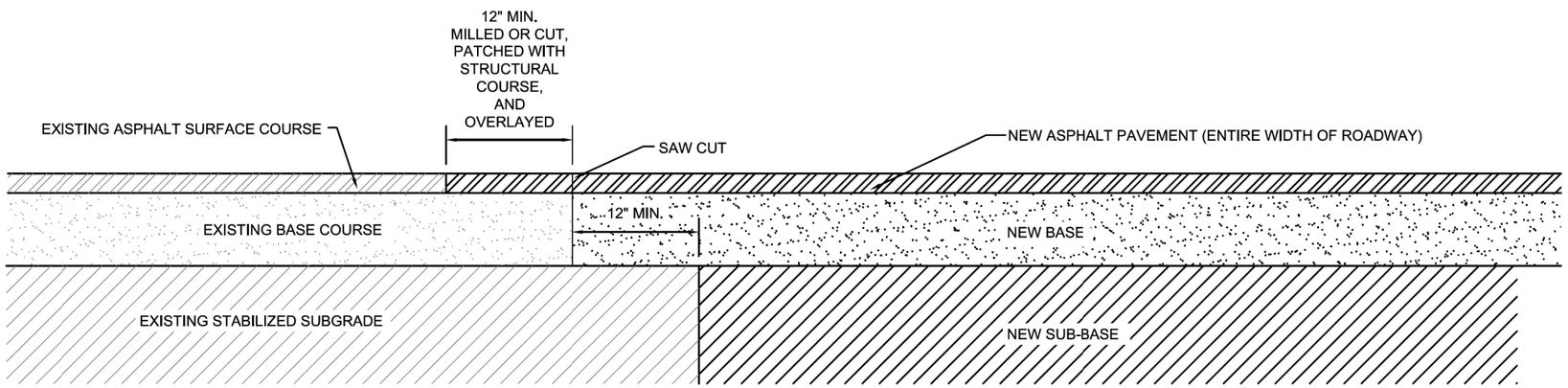
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CONSTRUCTION DETAILS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
56

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NOTES:

1. ENTIRE WIDTH OF THE ROADWAY SHALL BE OVERLAYED.
2. MILLING AND OVERLAY OF THE ENTRIE ROADWAY WIDTH MAY BE REQUIRED AS DETERMINED BY THE ENGINEERING SERVICES DEPARTMENT

ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY ENGINEERING SERVICES DEPARTMENT	REVISION DATES	SAWCUT DETAIL	DETAIL NO. 26 DWG: ADOPTED:

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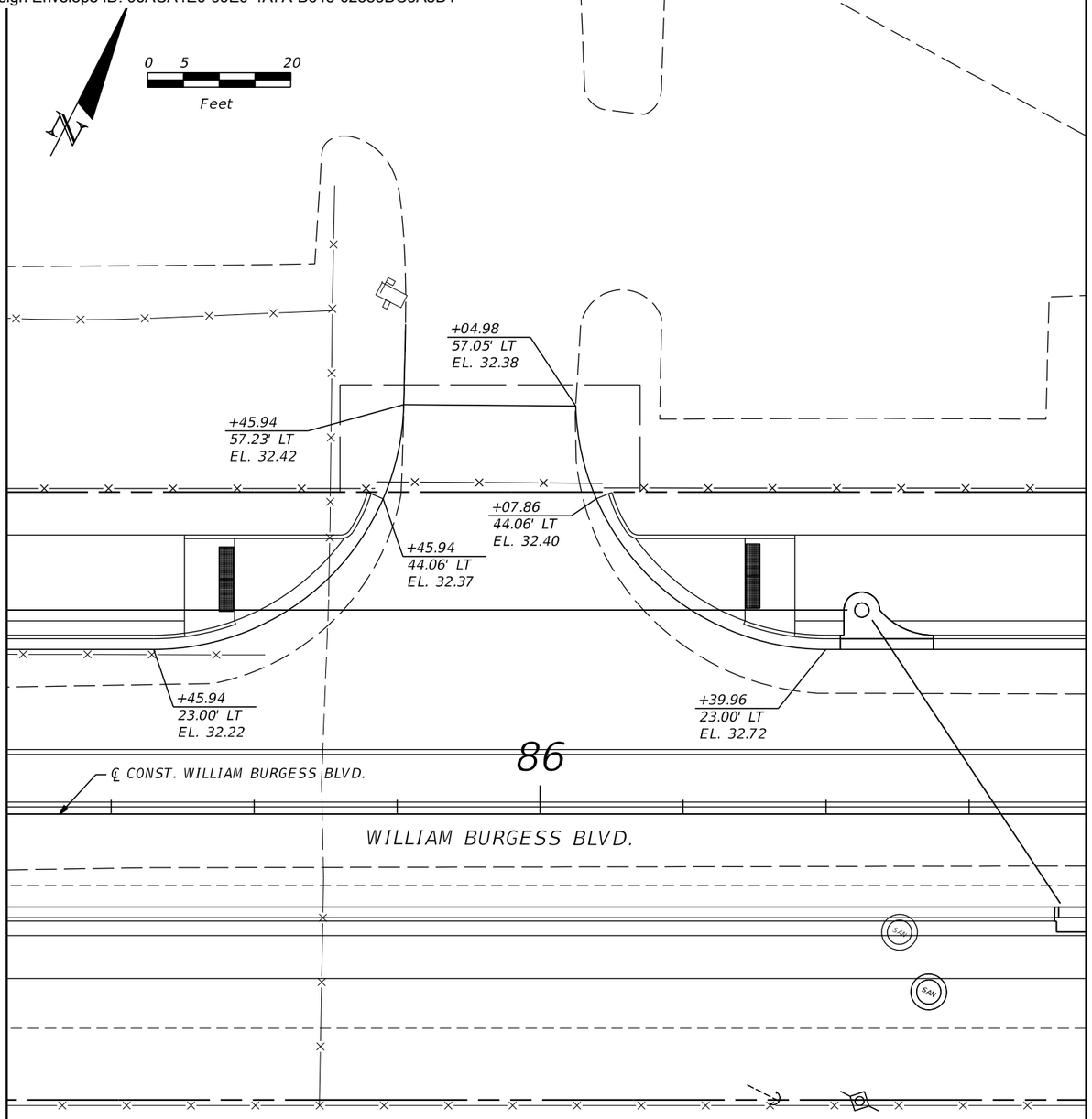
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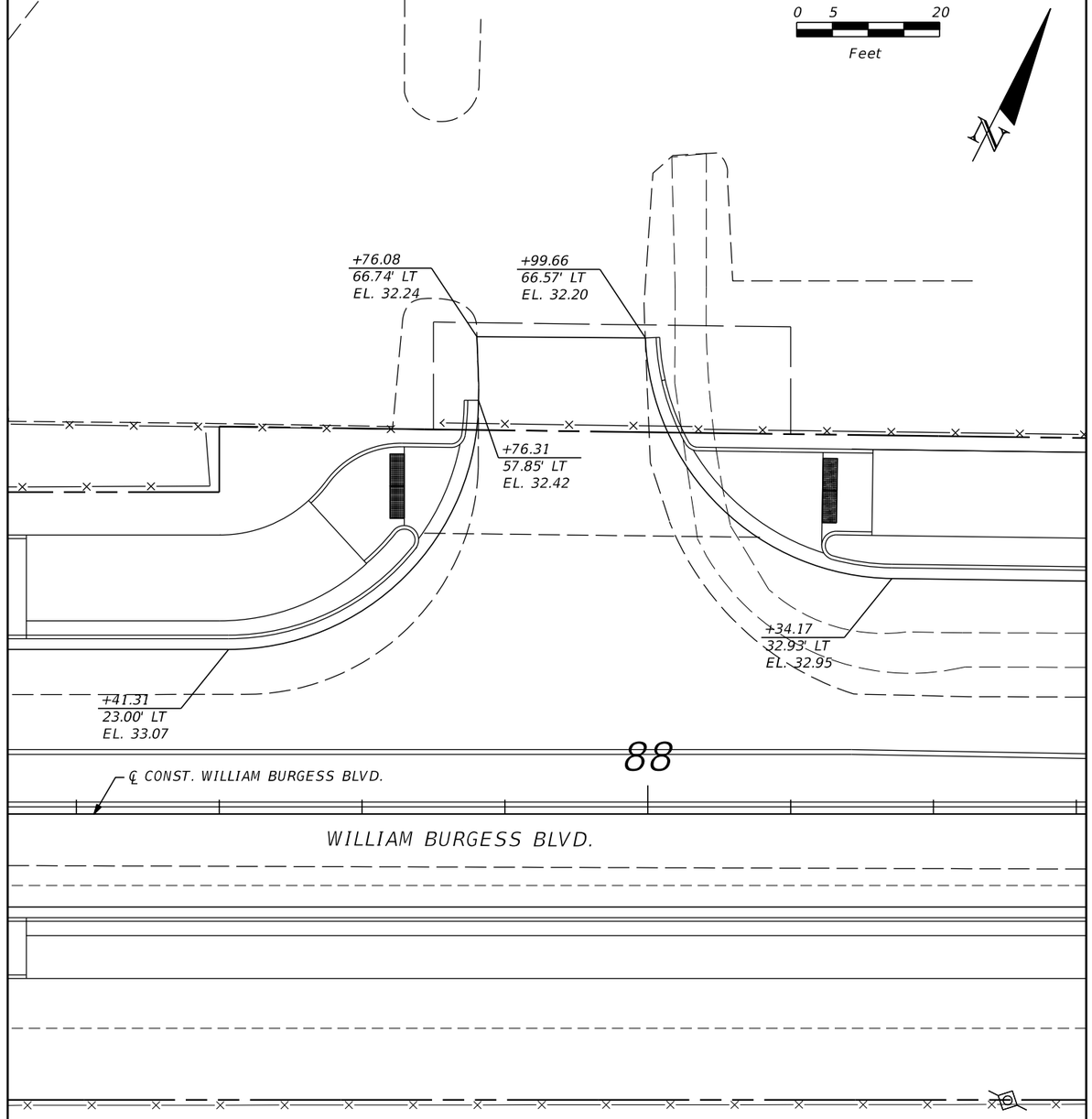
CONSTRUCTION DETAILS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
57

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1





SCHOOL DRIVEWAY GRADING

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CONSTRUCTION DETAILS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
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0 5 20
Feet

+32.82
51.58' LT
EL. 32.63

+91.62
32.83' LT
EL. 32.33

+66.01
51.14' LT
EL. 32.50

+65.79
34.84' LT
EL. 32.36

+91.62
30.83' LT
EL. 32.65

+08.69
33.60' LT
EL. 32.58

+66.18
32.83' LT
EL. 32.35

+70.72
29.77' LT
EL. 32.33

+70.75
31.77' LT
EL. 32.71

90

91

92

℄ CONST. WILLIAM BURGESS BLVD.

WILLIAM BURGESS BLVD.

SCHOOL BUS EXIT GRADING

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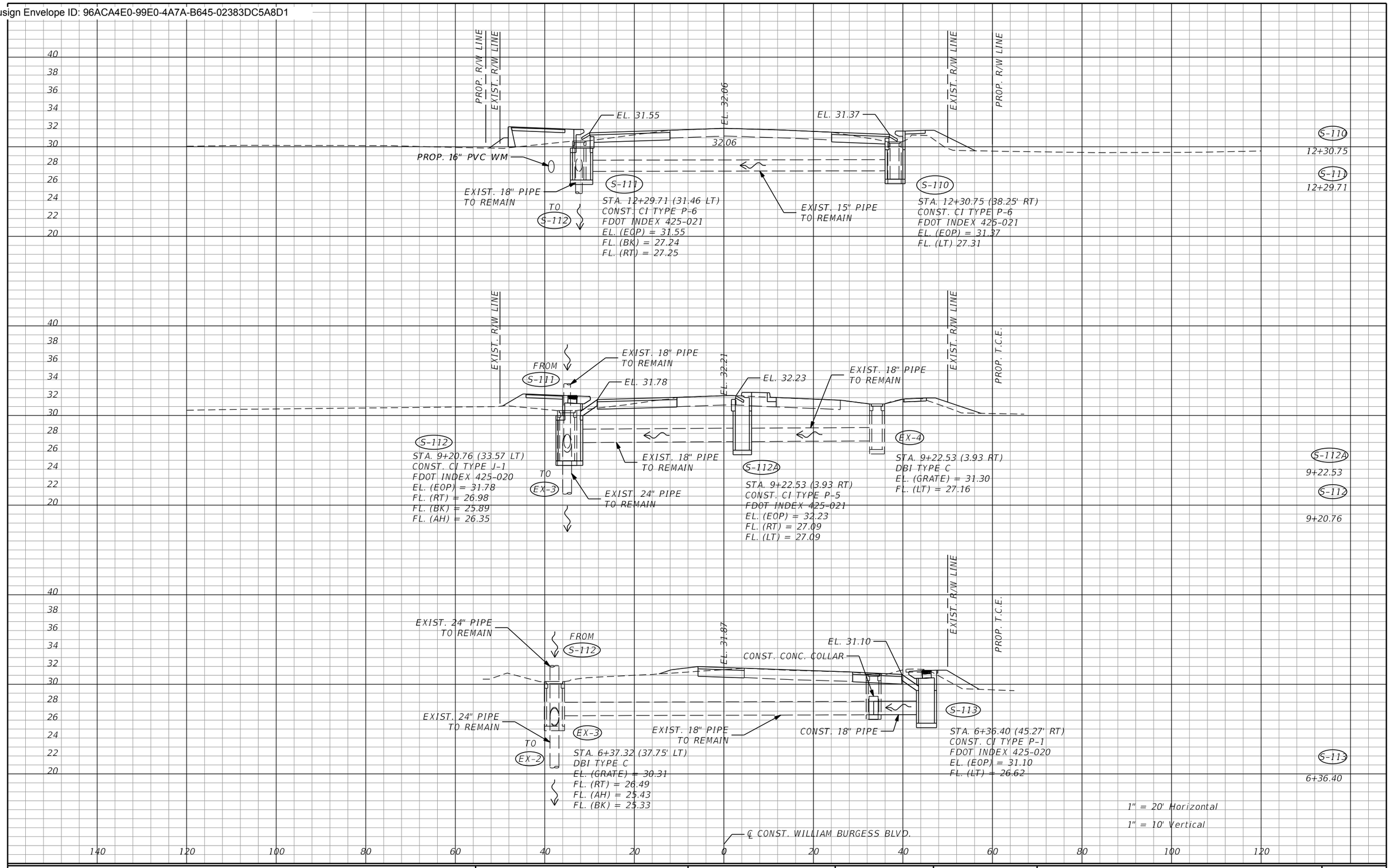
CONSTRUCTION DETAILS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

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LAURA S. PHILLIPS, P.E. Lic. No. 54972

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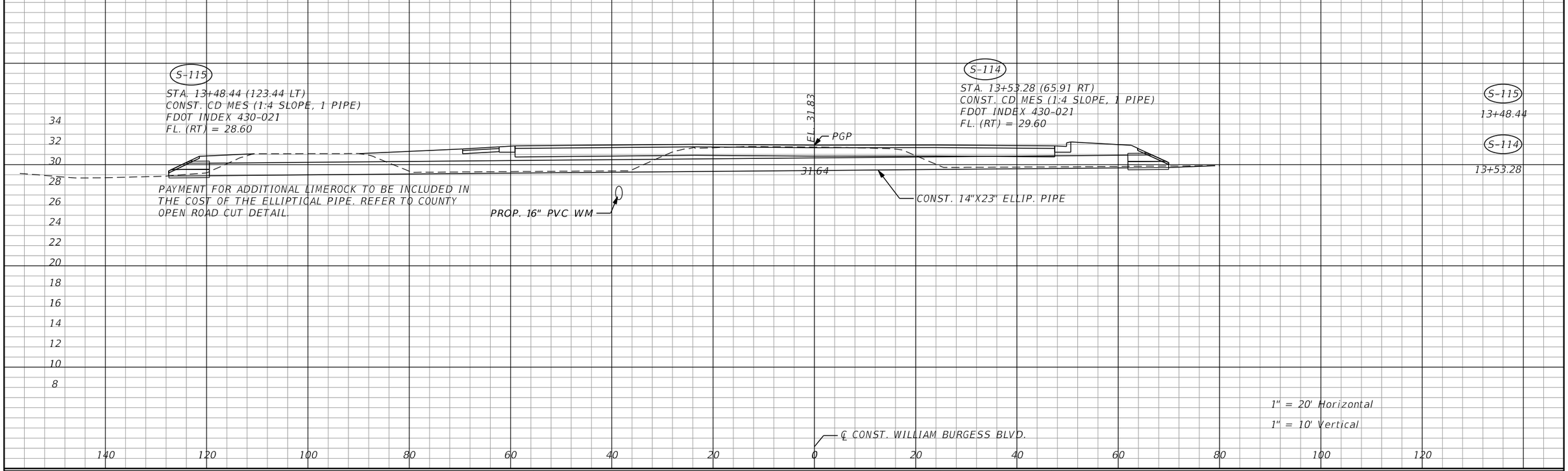
DRAINAGE STRUCTURES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
60

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LAURA S. PHILLIPS, P.E. Lic. No. 54972

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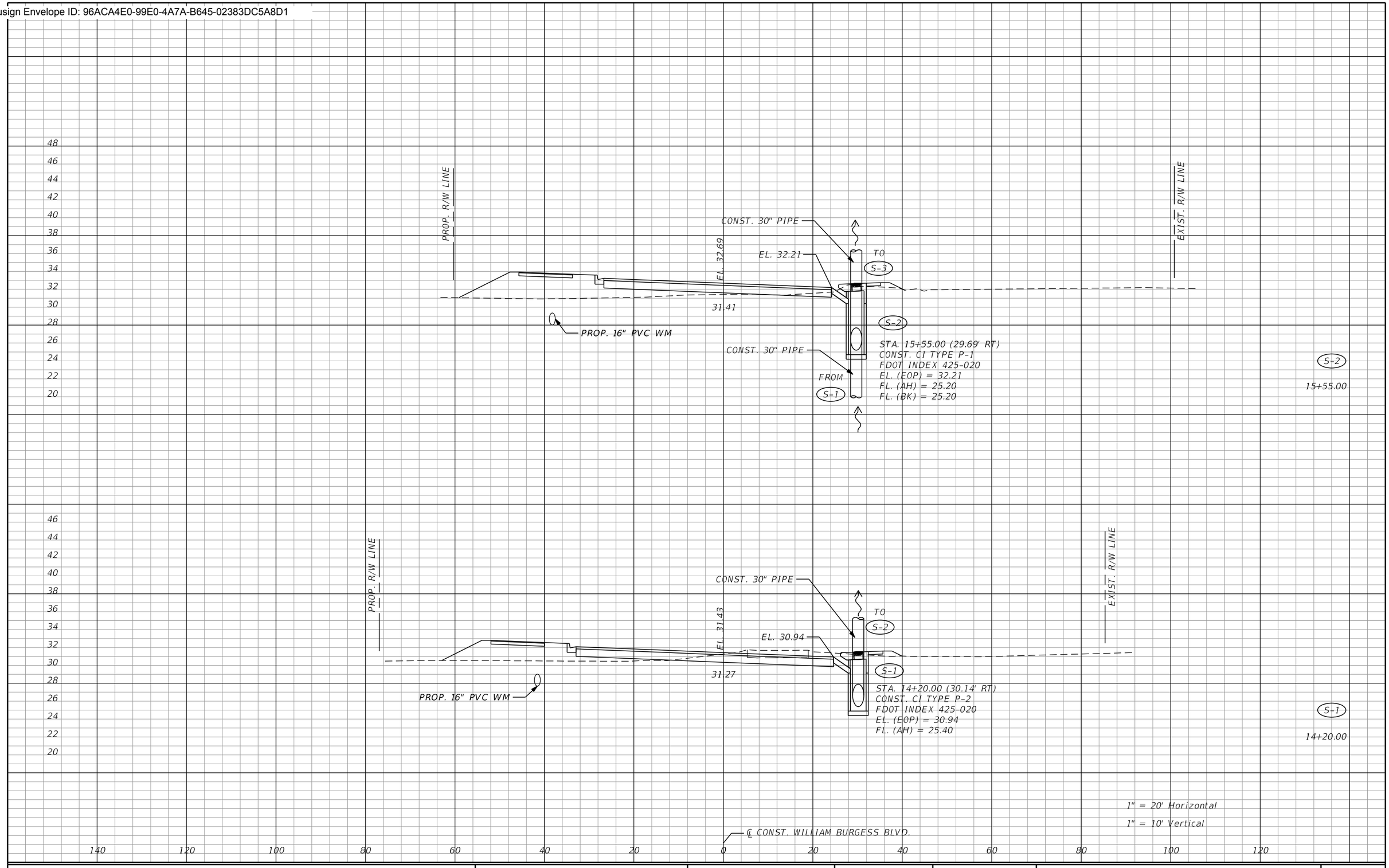
DRAINAGE STRUCTURES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 61

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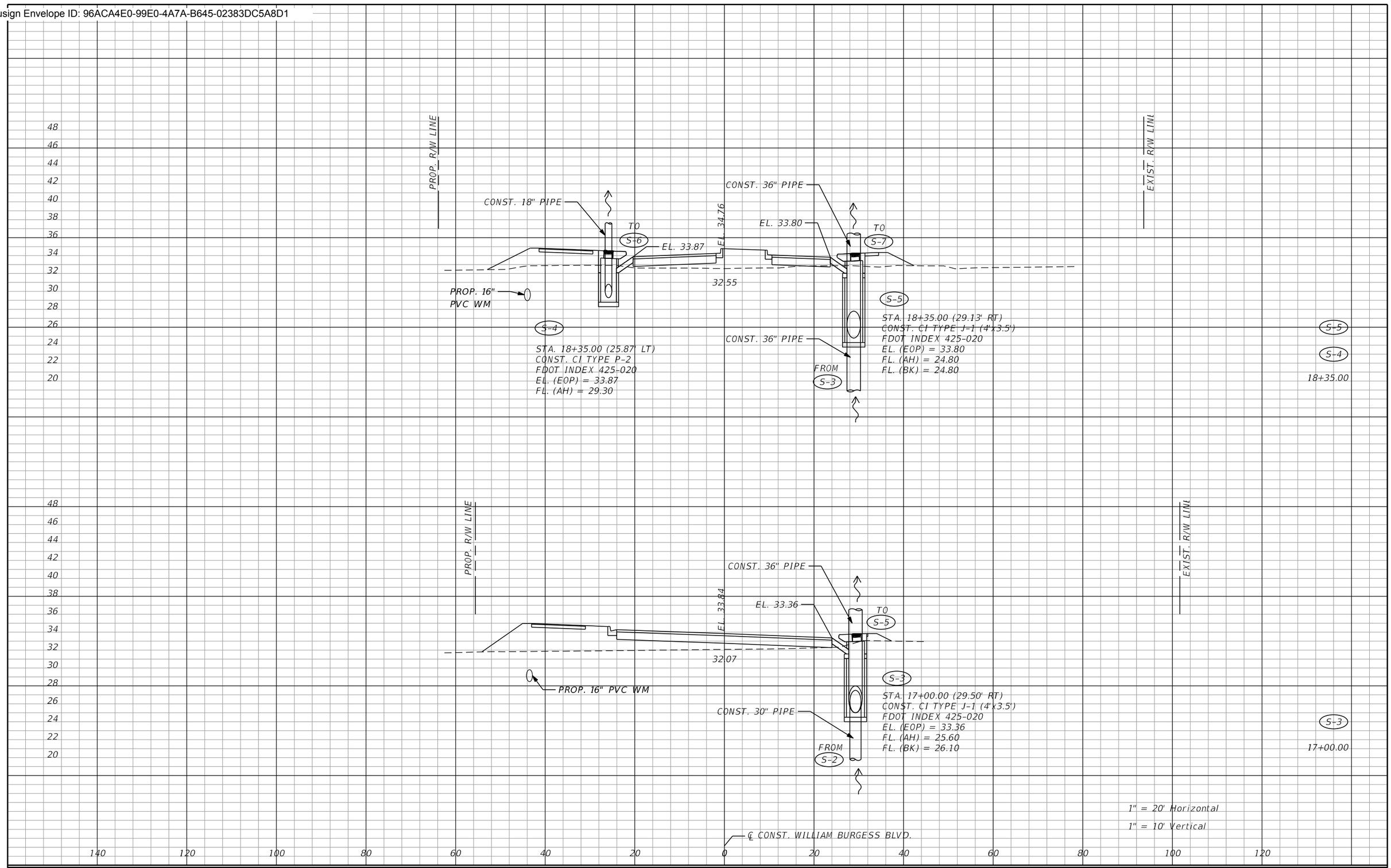
DRAINAGE STRUCTURES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
62

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DRAWN:	JD
CHECKED:	LP
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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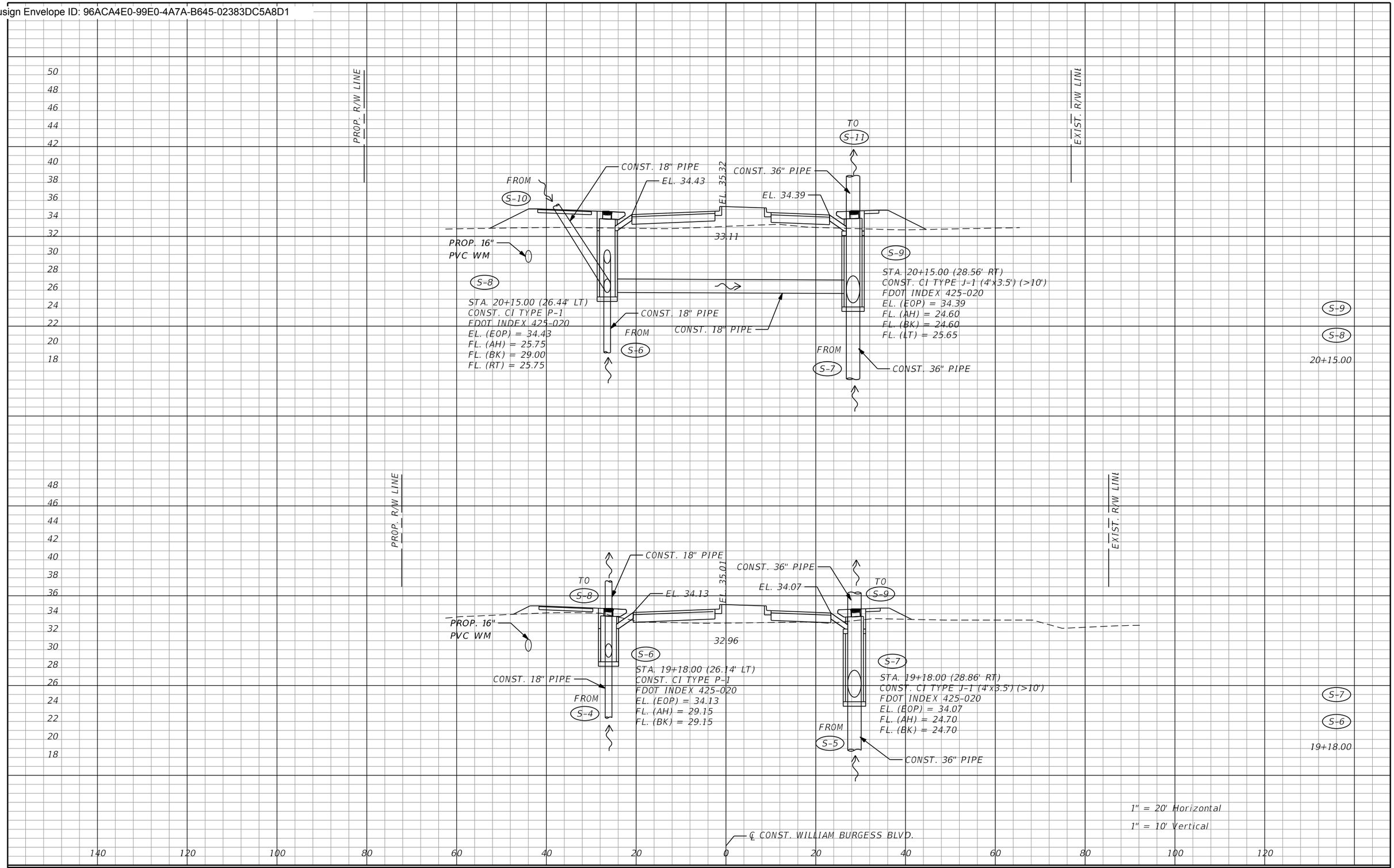
DRAINAGE STRUCTURES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
63

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LAURA S. PHILLIPS, P.E. Lic. No. 54972

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	LP
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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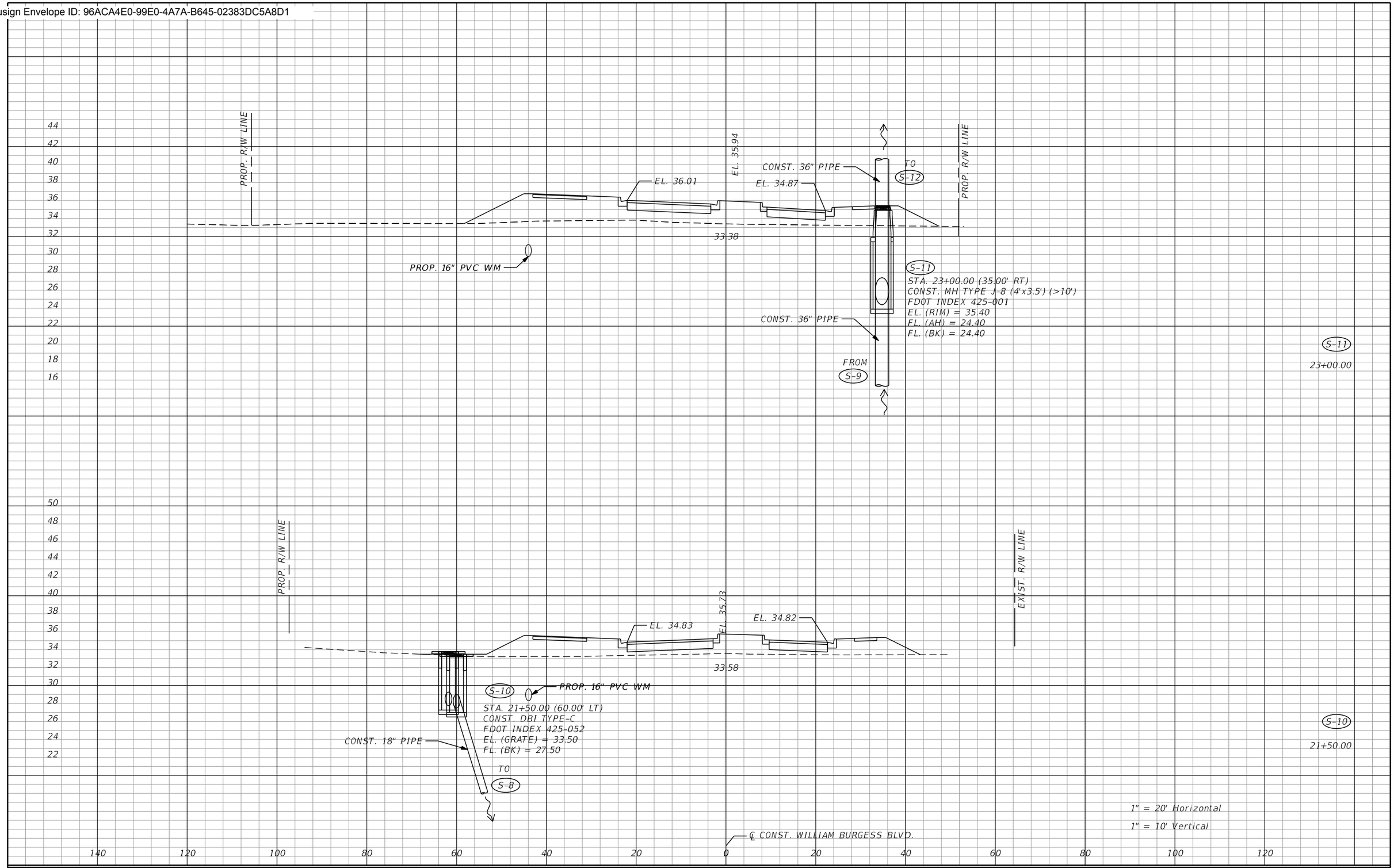
DRAINAGE STRUCTURES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
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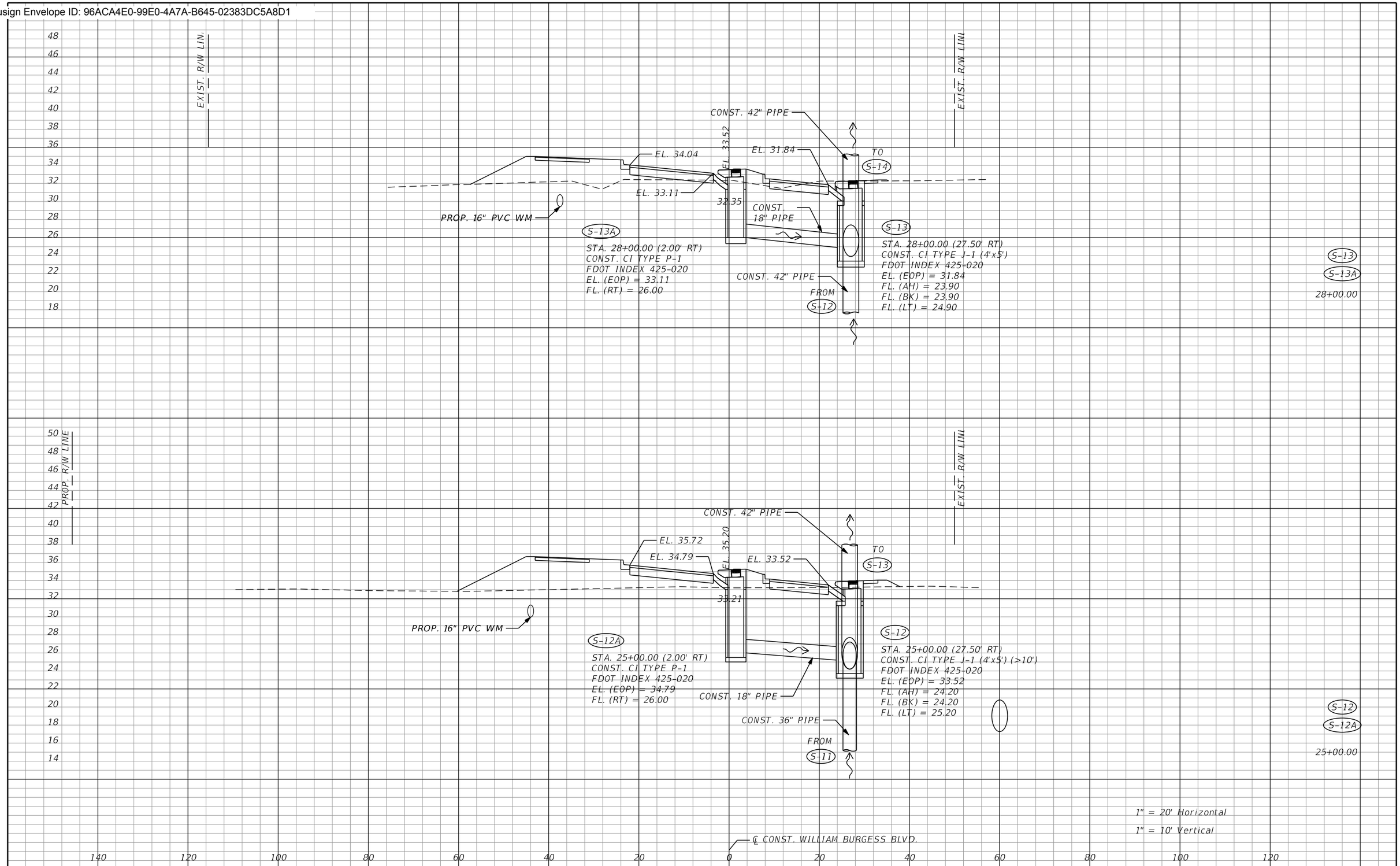
DRAINAGE STRUCTURES

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APPROVED:	RH

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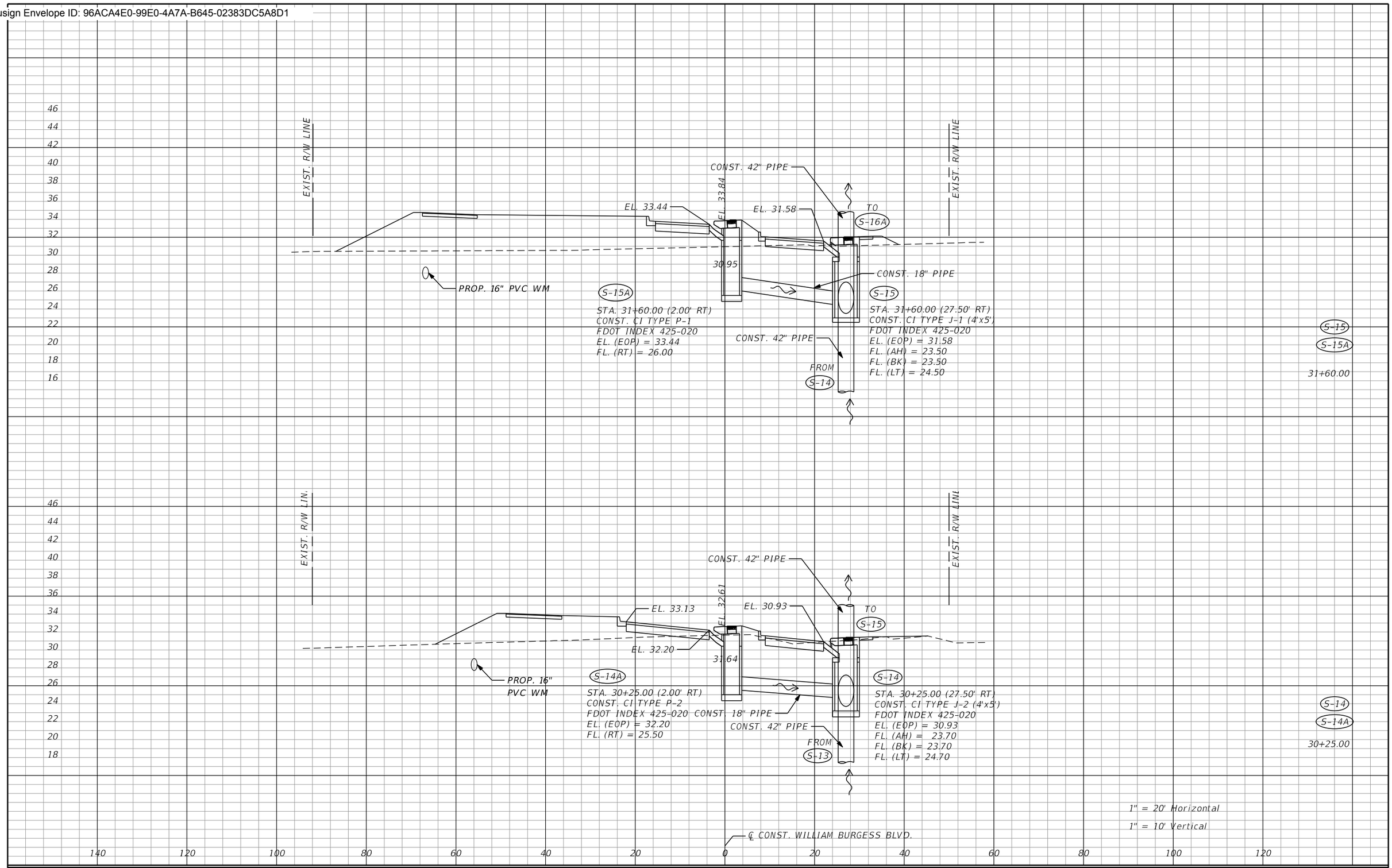
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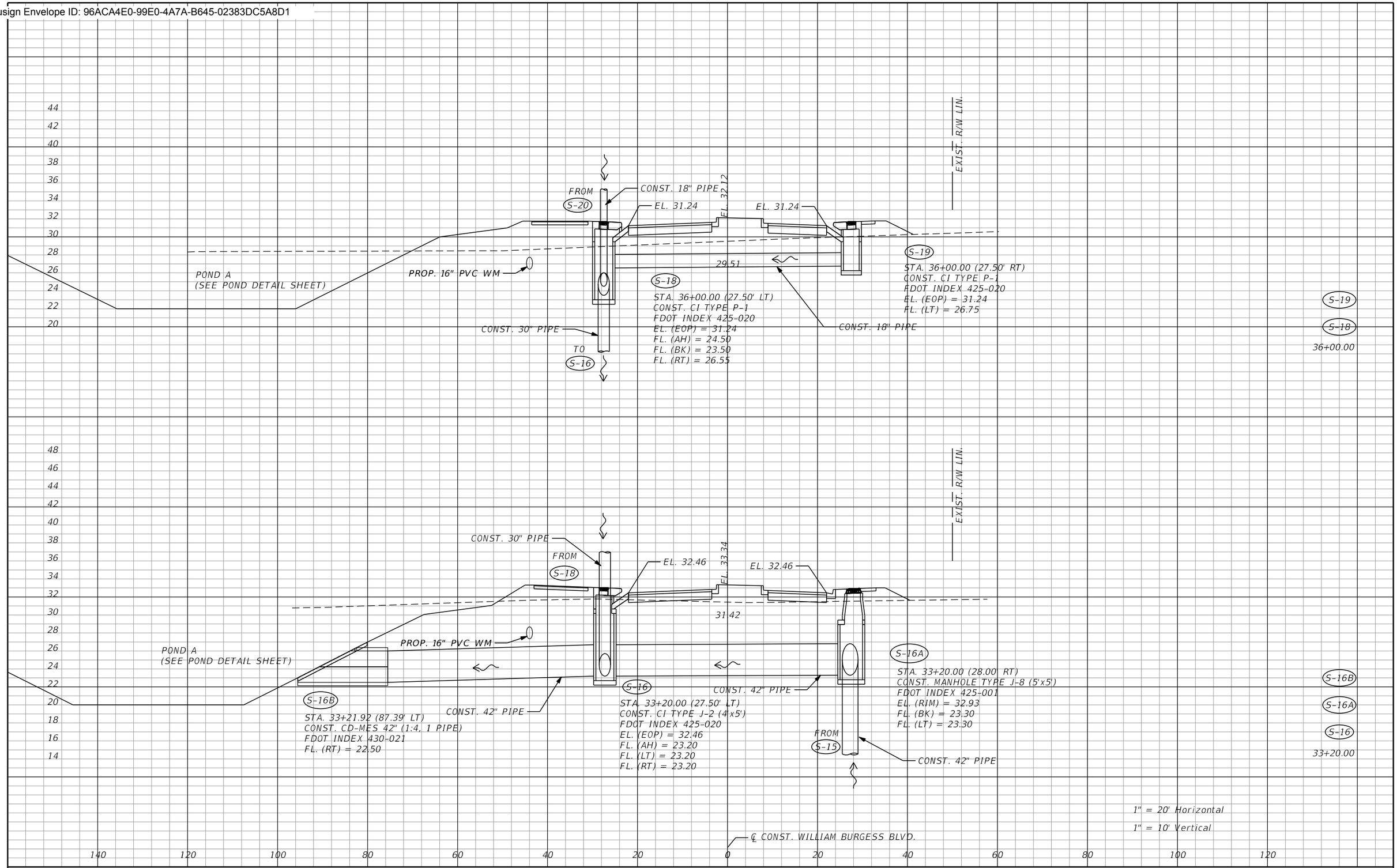
DRAINAGE STRUCTURES

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67

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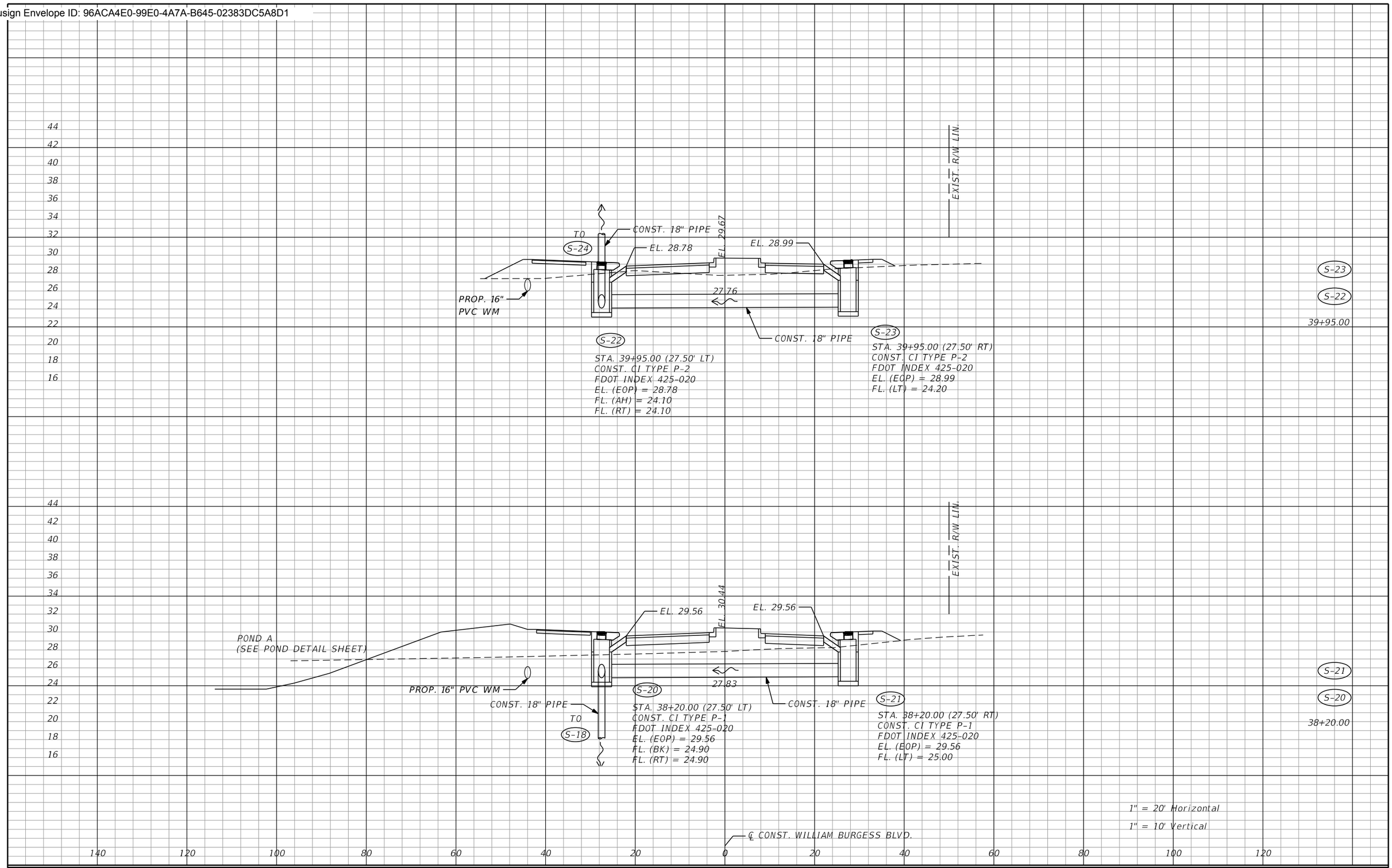
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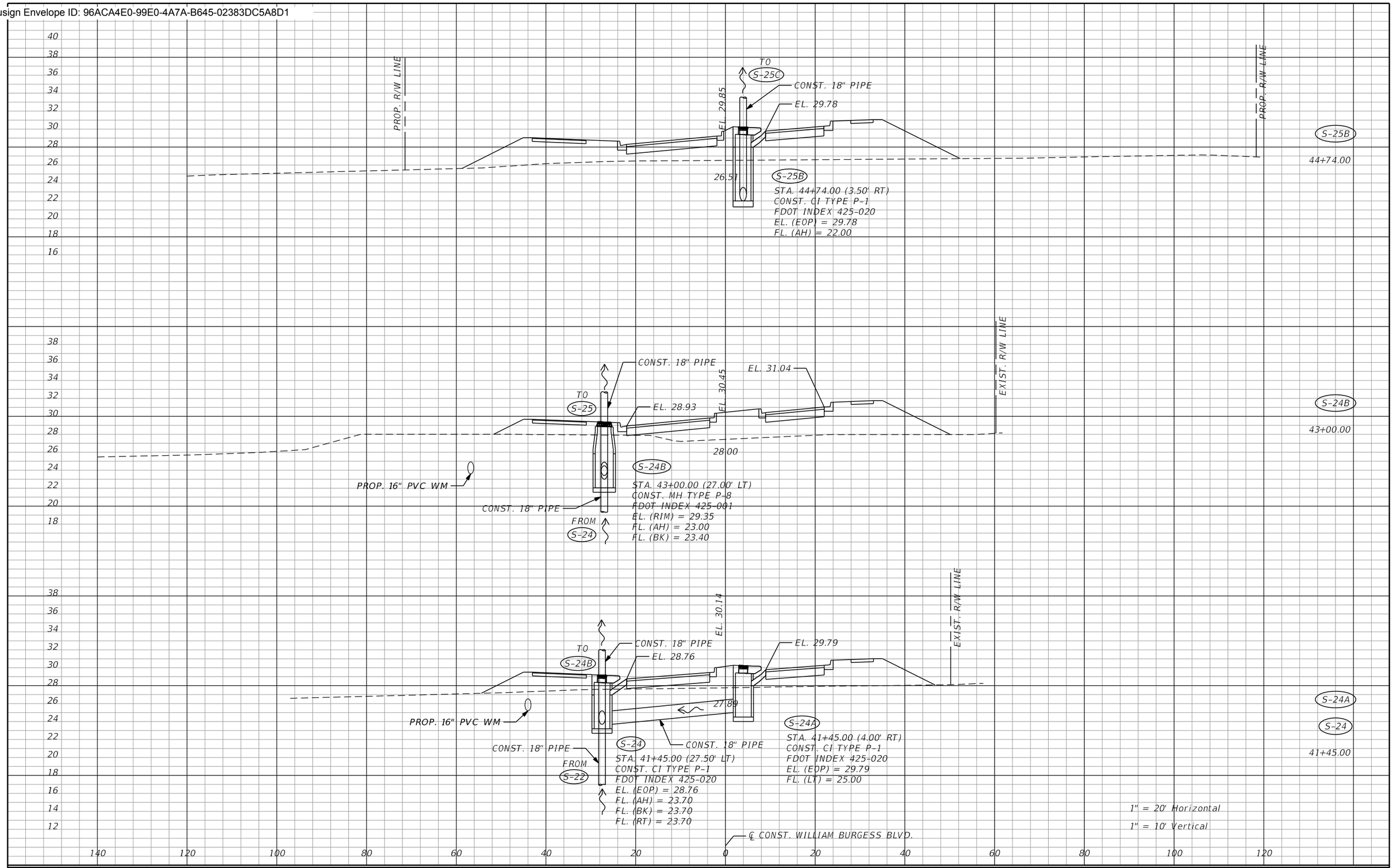
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69

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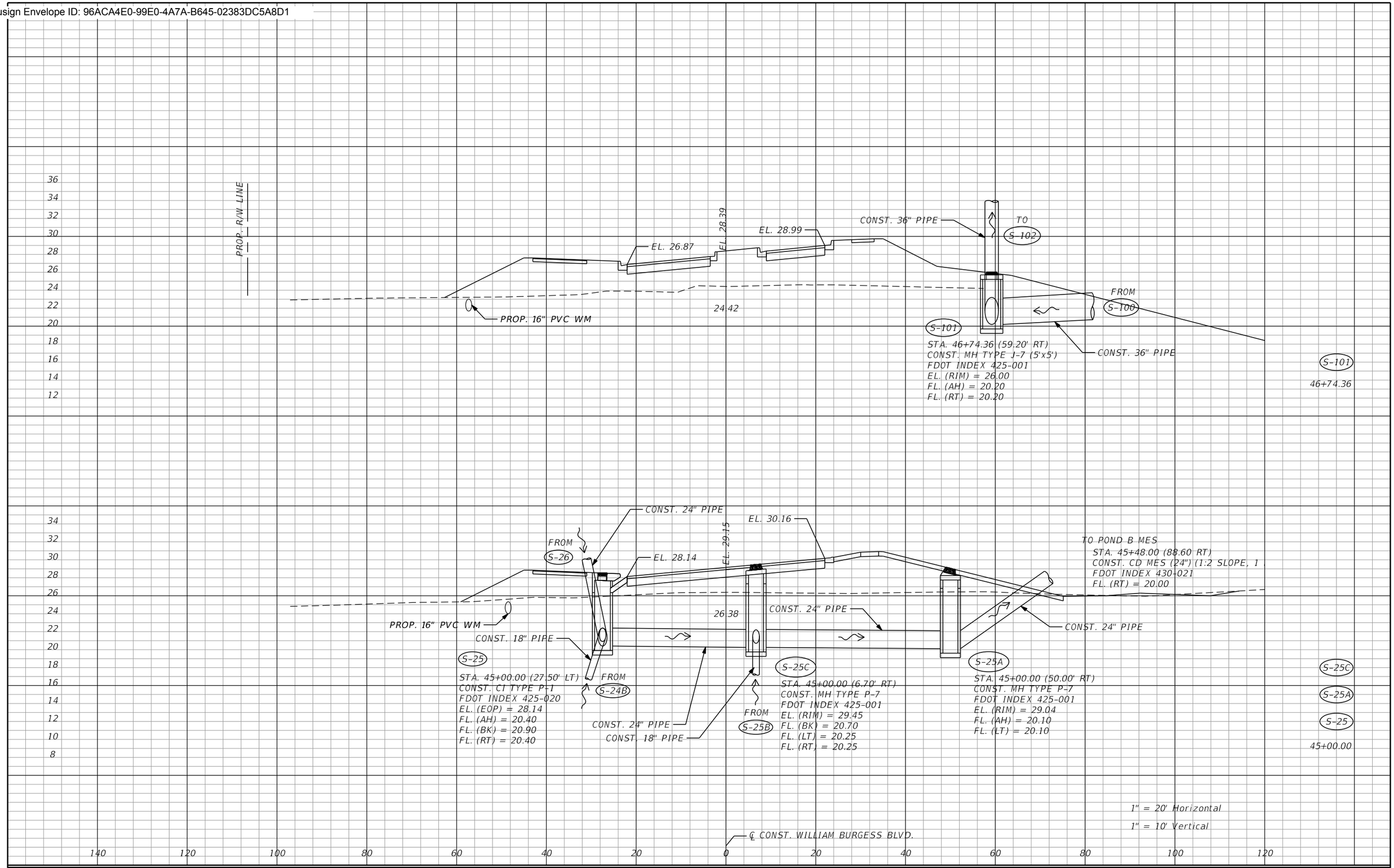
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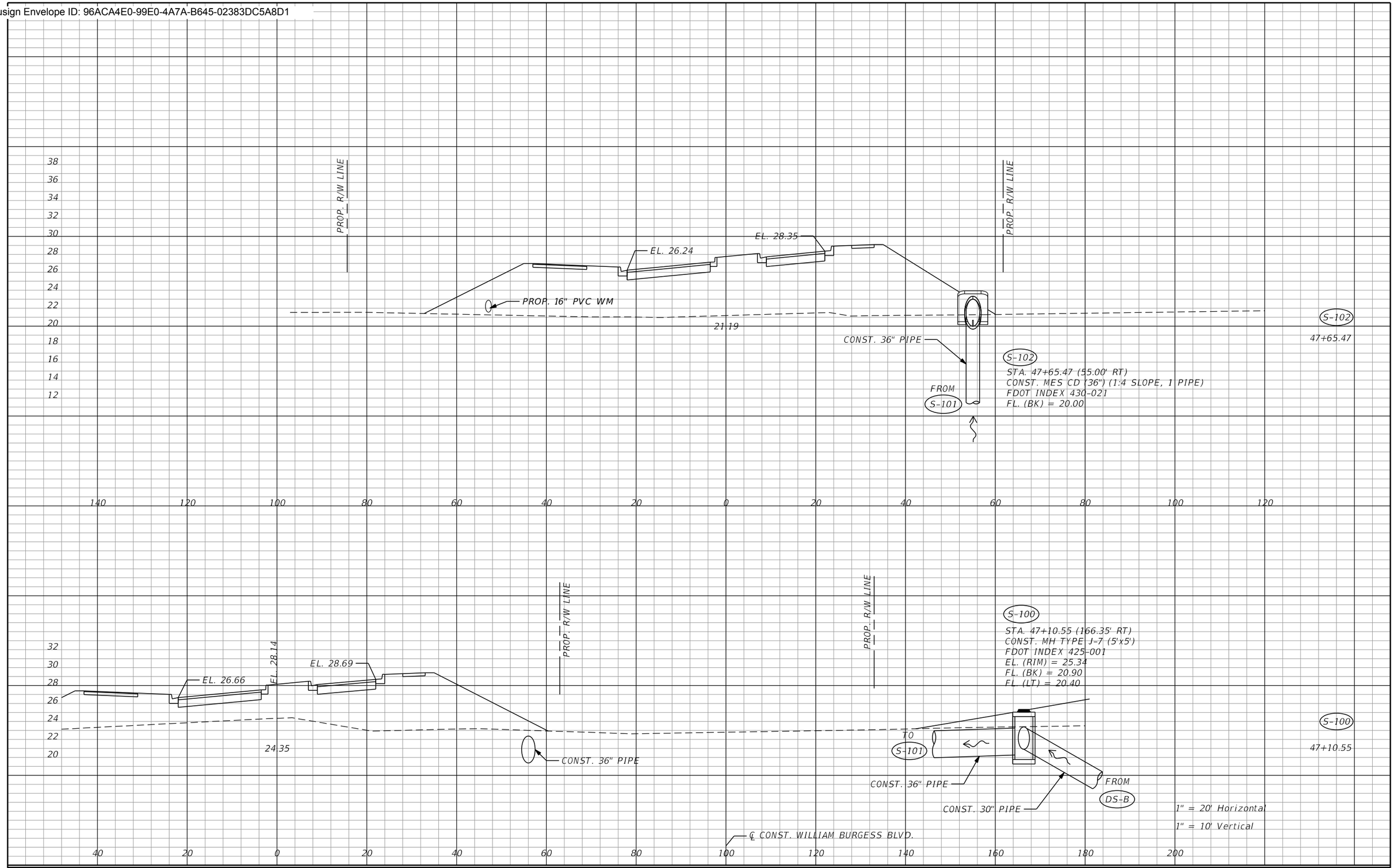
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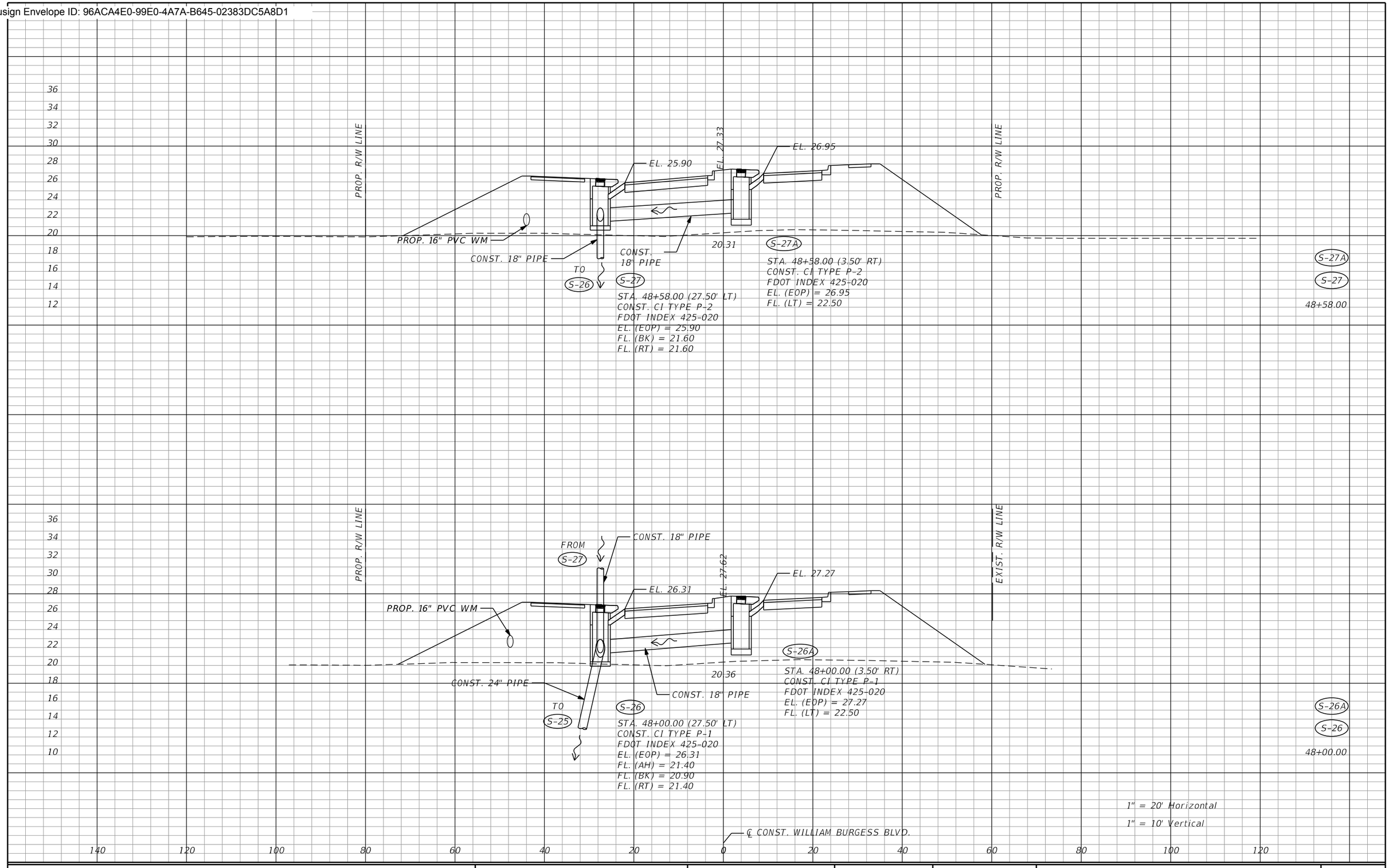
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72

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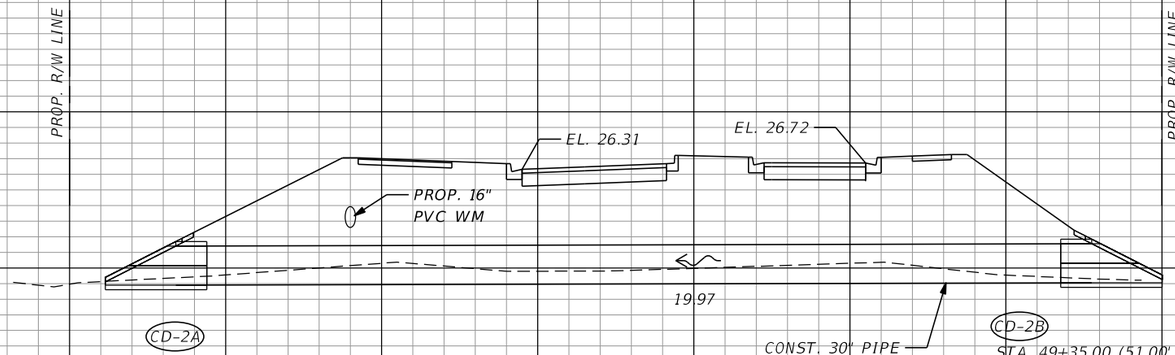
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73

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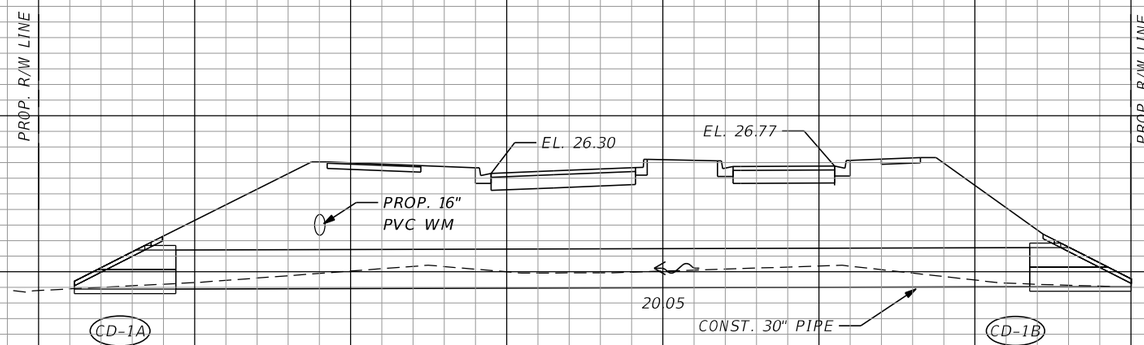
CD-2A

STA. 49+35.00 (66.38' LT)
CONST. CD-MES (1:4 SLOPE, 1 PIPE)
FDOT INDEX 430-021
FL. (RT) = 18.90

CD-2B

STA. 49+35.00 (51.00' RT)
CONST. CD-MES (1:4 SLOPE, 1 PIPE)
FDOT INDEX 430-021
FL. (LT) = 19.05 (LT)

CD-2B
CD-2A
49+35.00



CD-1A

STA. 49+25.00 (66.38' LT)
CONST. CD-MES (1:4 SLOPE, 1 PIPE)
FDOT INDEX 430-021
FL. (RT) = 18.90

CD-1B

STA. 49+25.00 (51.00' RT)
CONST. CD-MES (1:4 SLOPE, 1 PIPE)
FDOT INDEX 430-021
FL. (LT) = 19.05

CD-1B
CD-1A
49+25.00

1" = 20' Horizontal
1" = 10' Vertical

℄ CONST. WILLIAM BURGESS BLVD.

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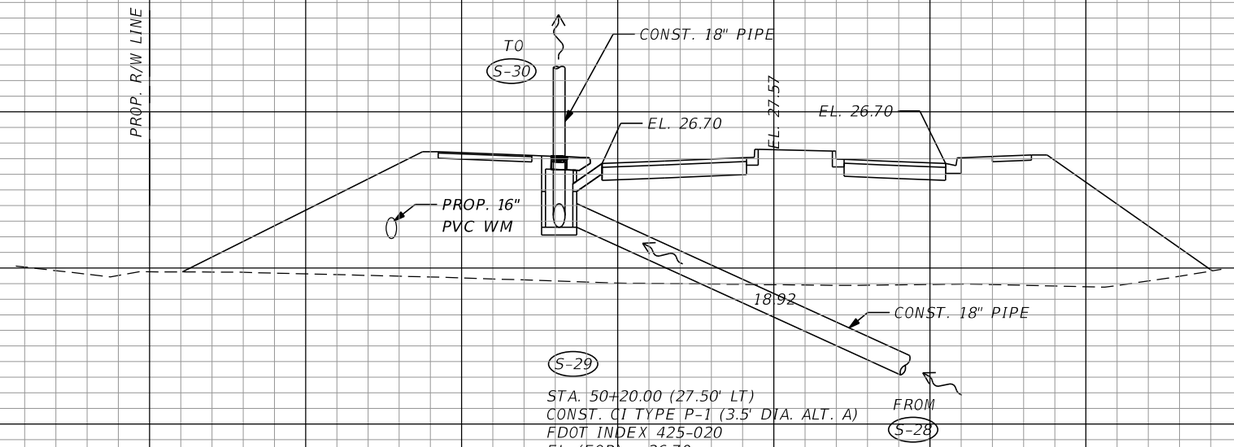
DRAINAGE STRUCTURES

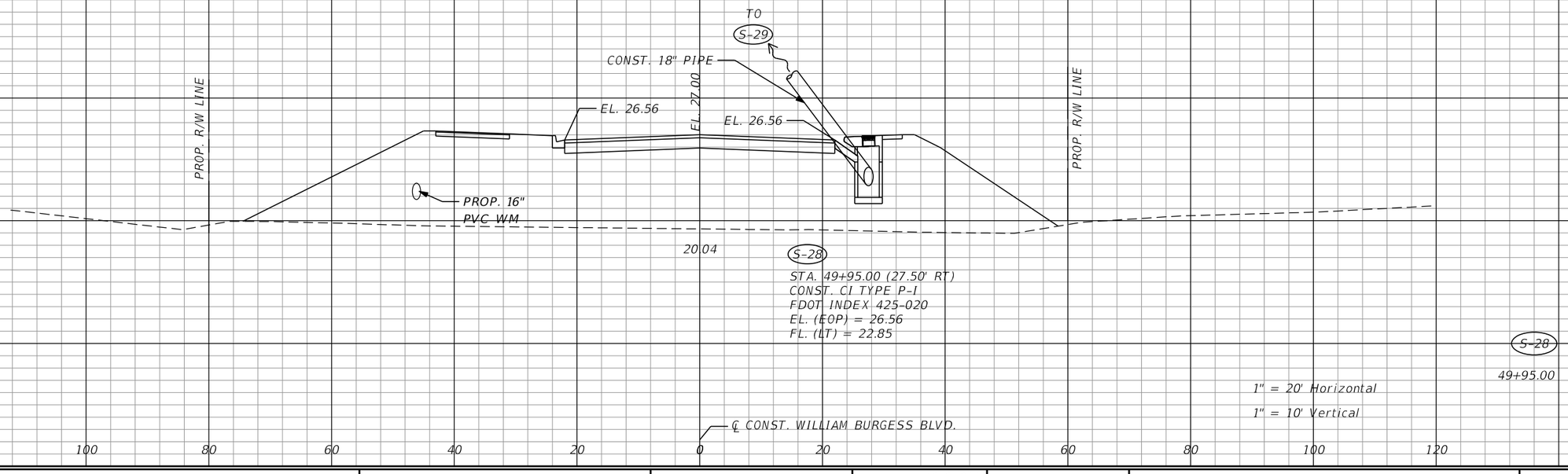
WILLIAM BURGESS BLVD. EXTENSION
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SHEET NO.
74

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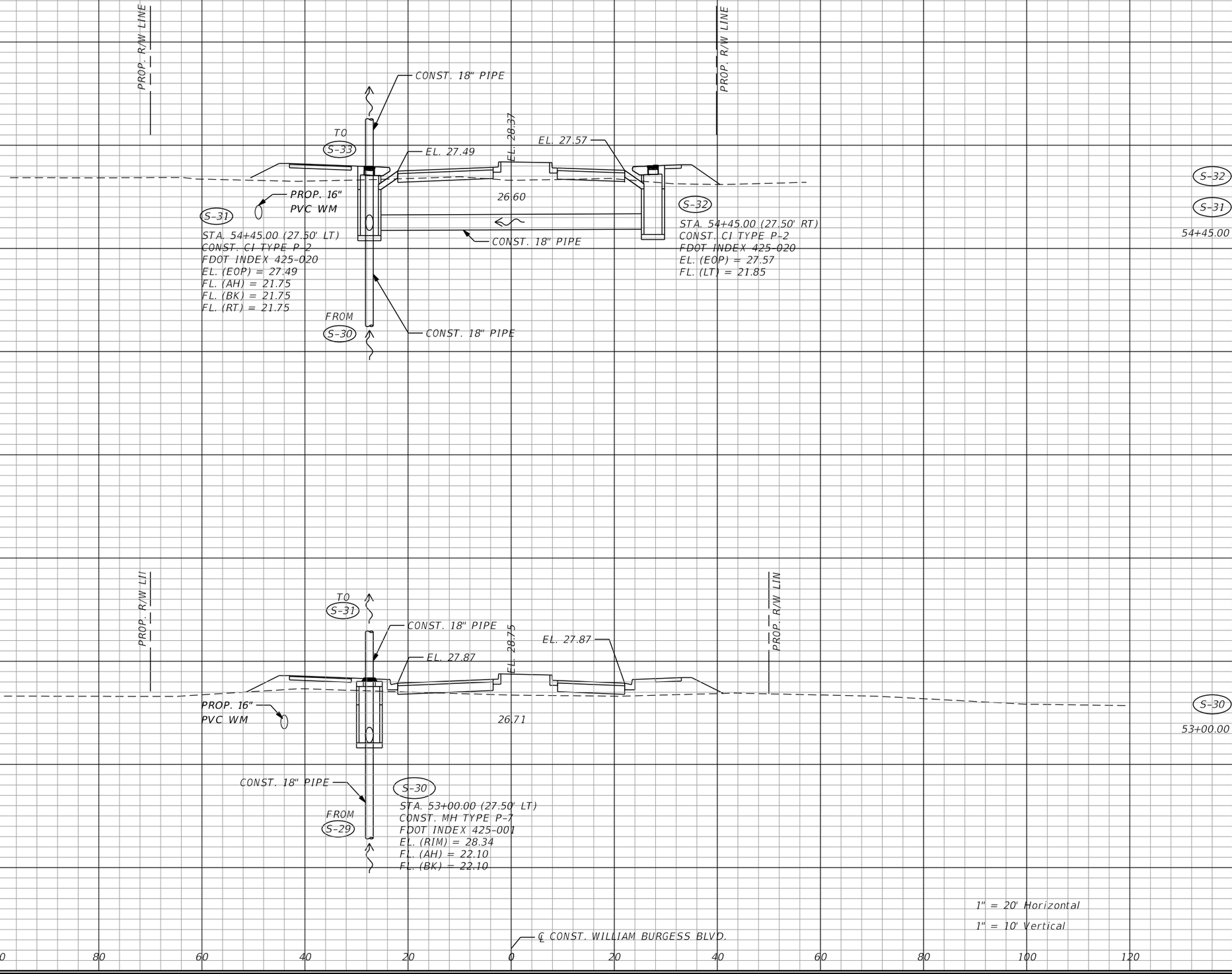
DRAINAGE STRUCTURES

WILLIAM BURGESS BLVD. EXTENSION
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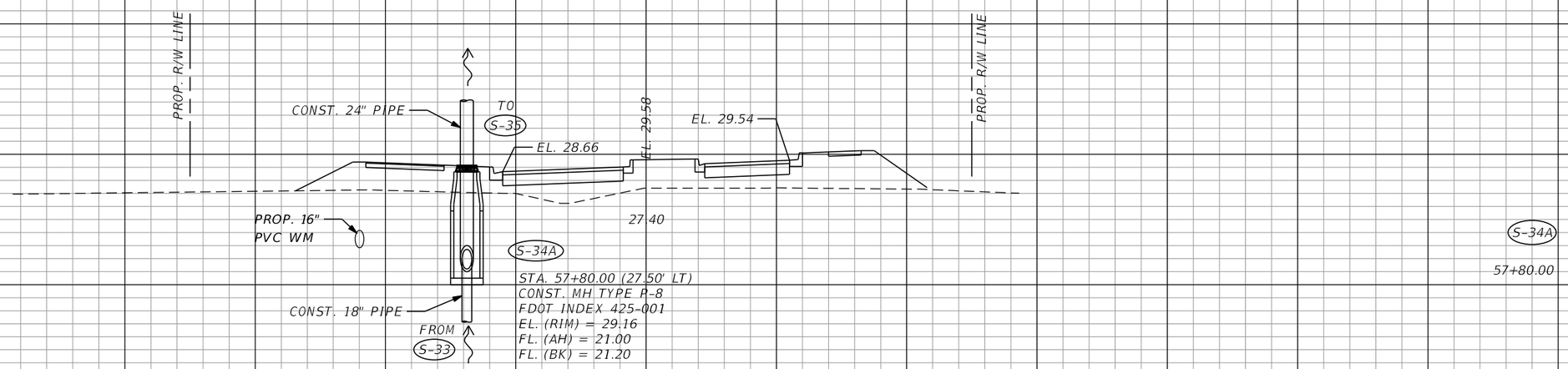
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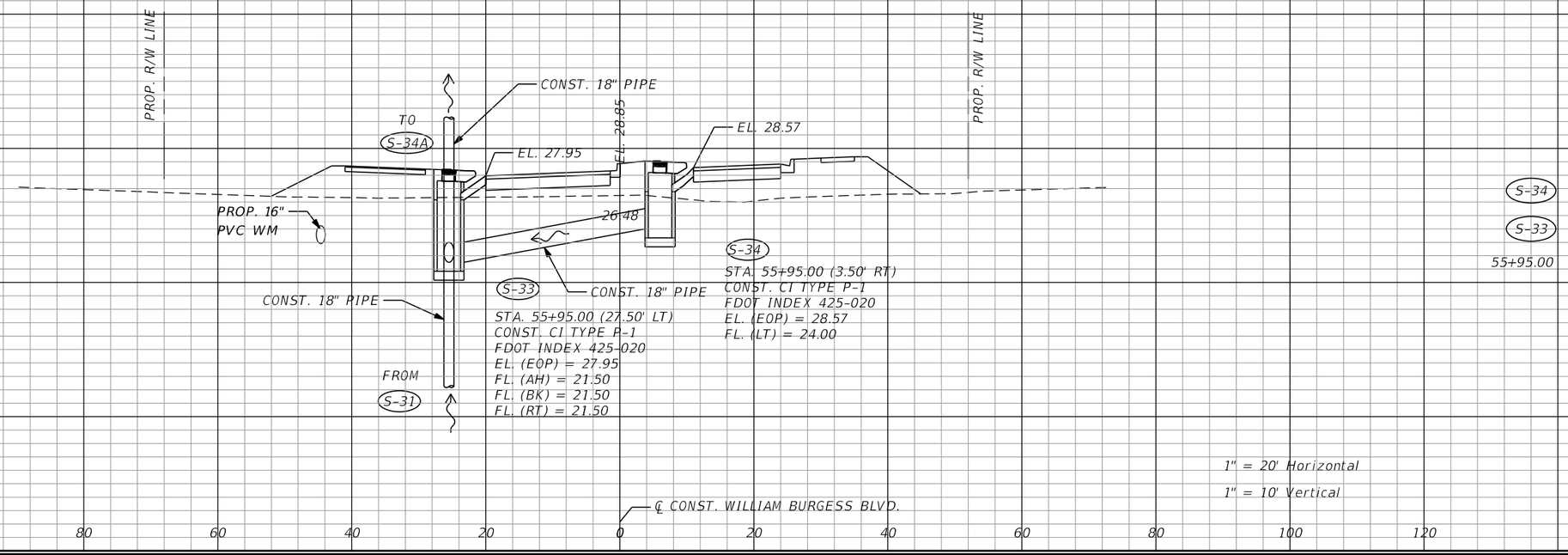
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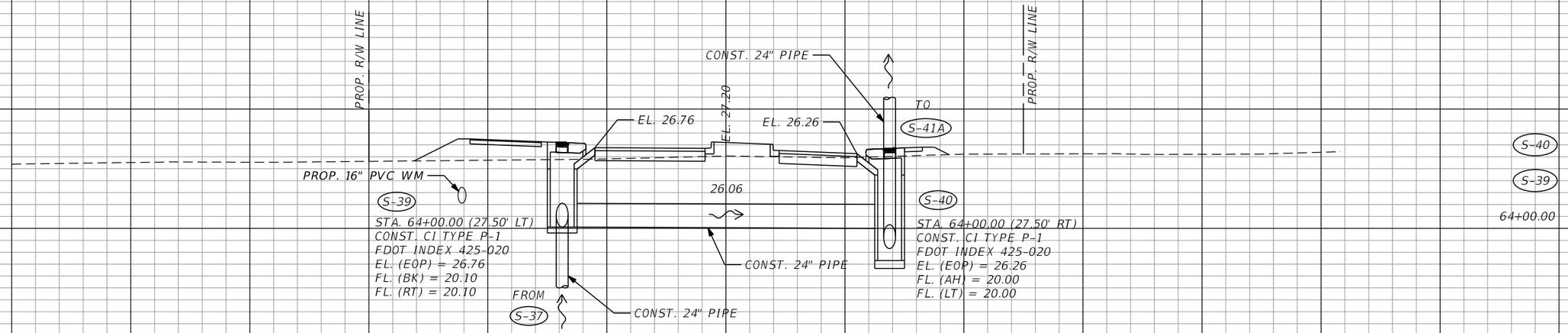
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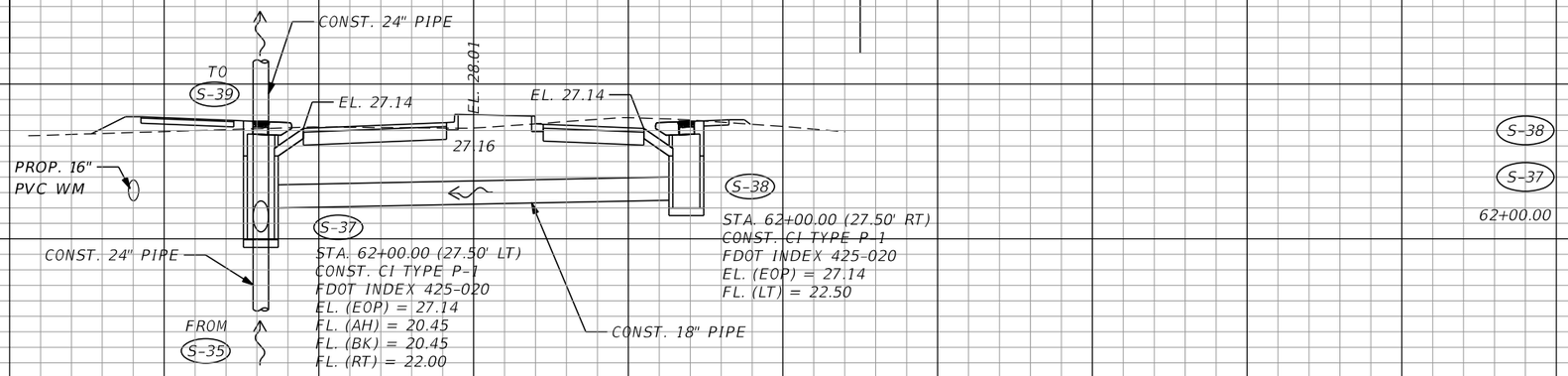
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1" = 20' Horizontal

1" = 10' Vertical

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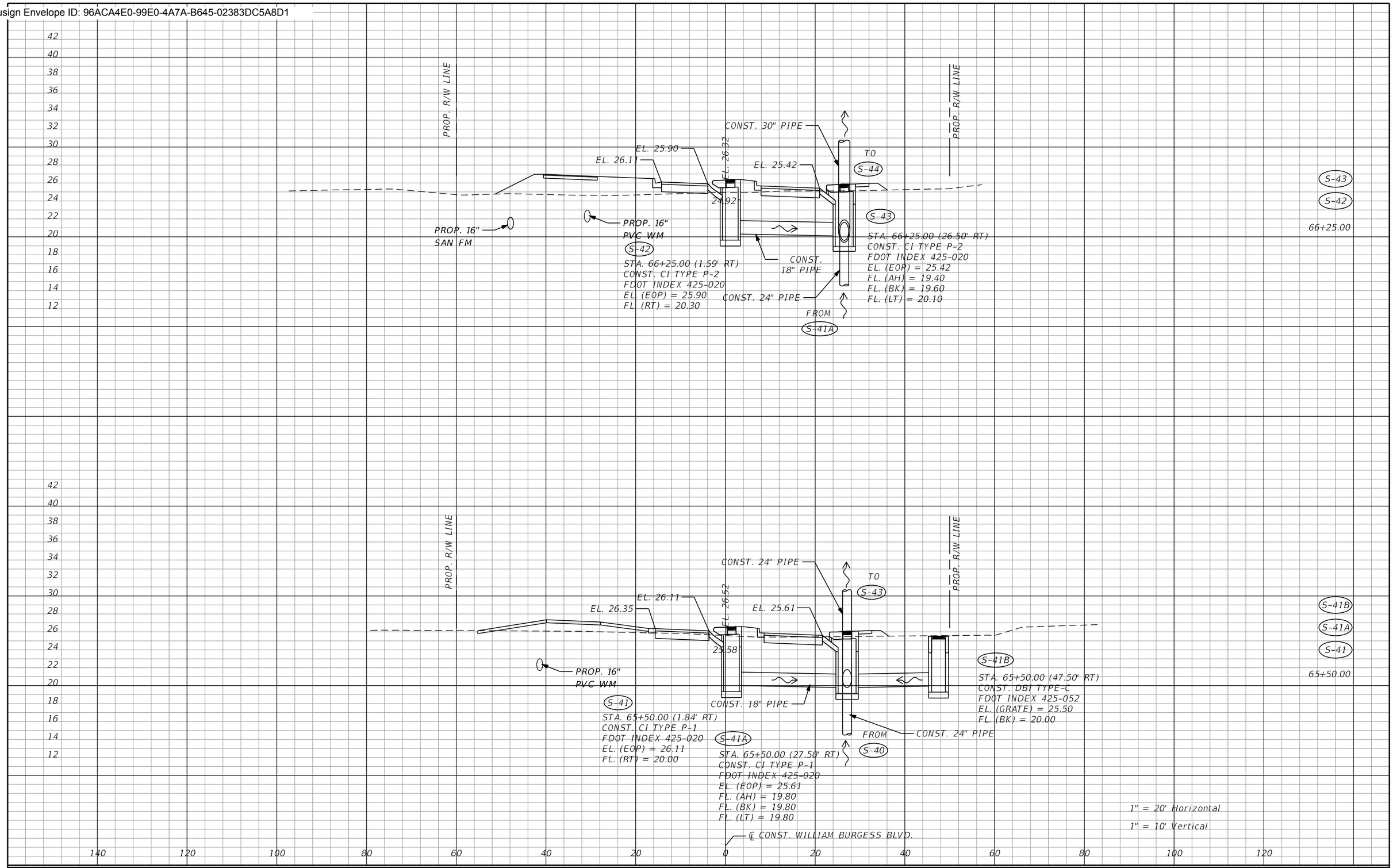
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904.363.1110
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LAURA S. PHILLIPS, P.E. Lic. No. 54972

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	LP
APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

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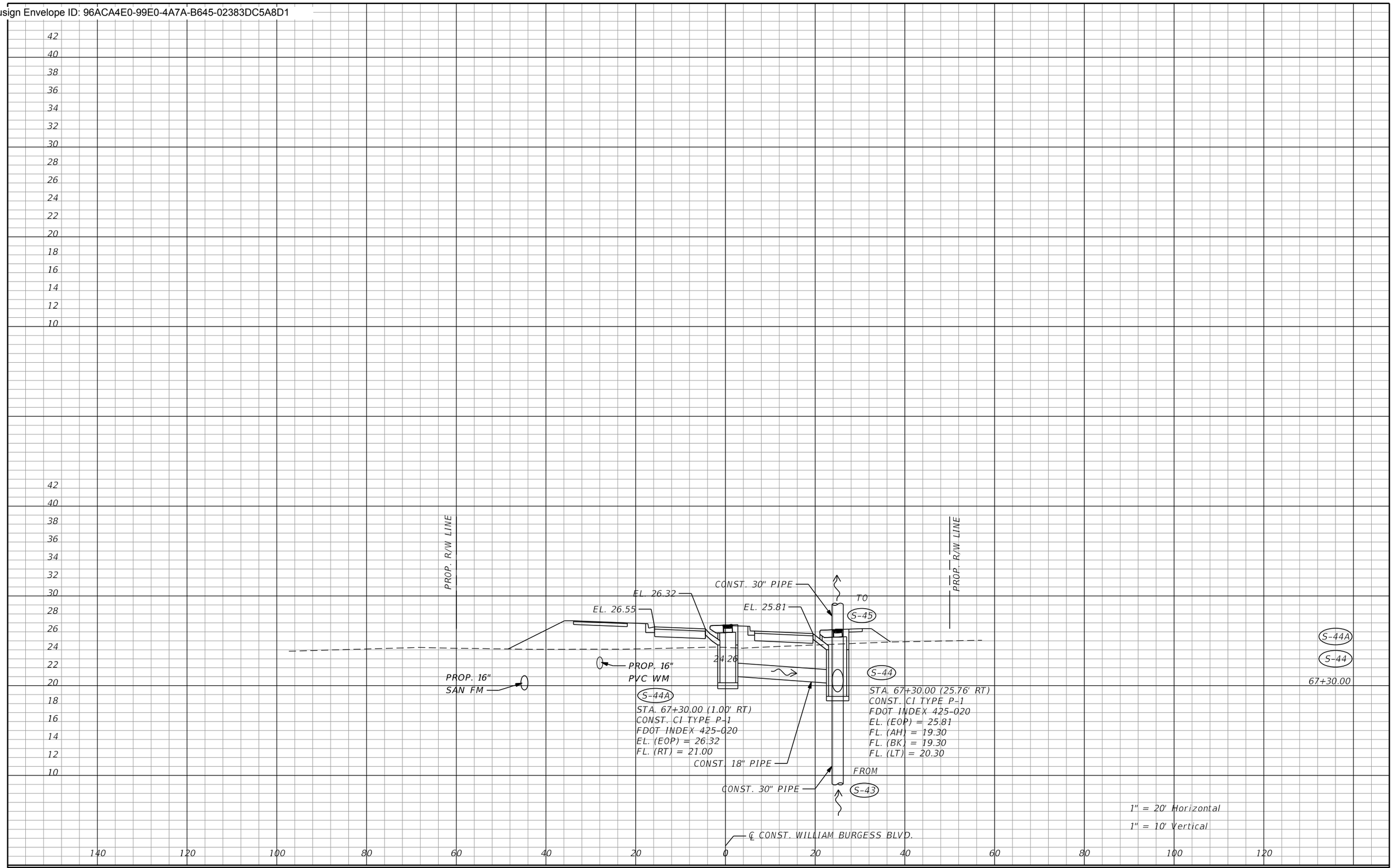
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 80

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PROJECT NO. / DASH NO.
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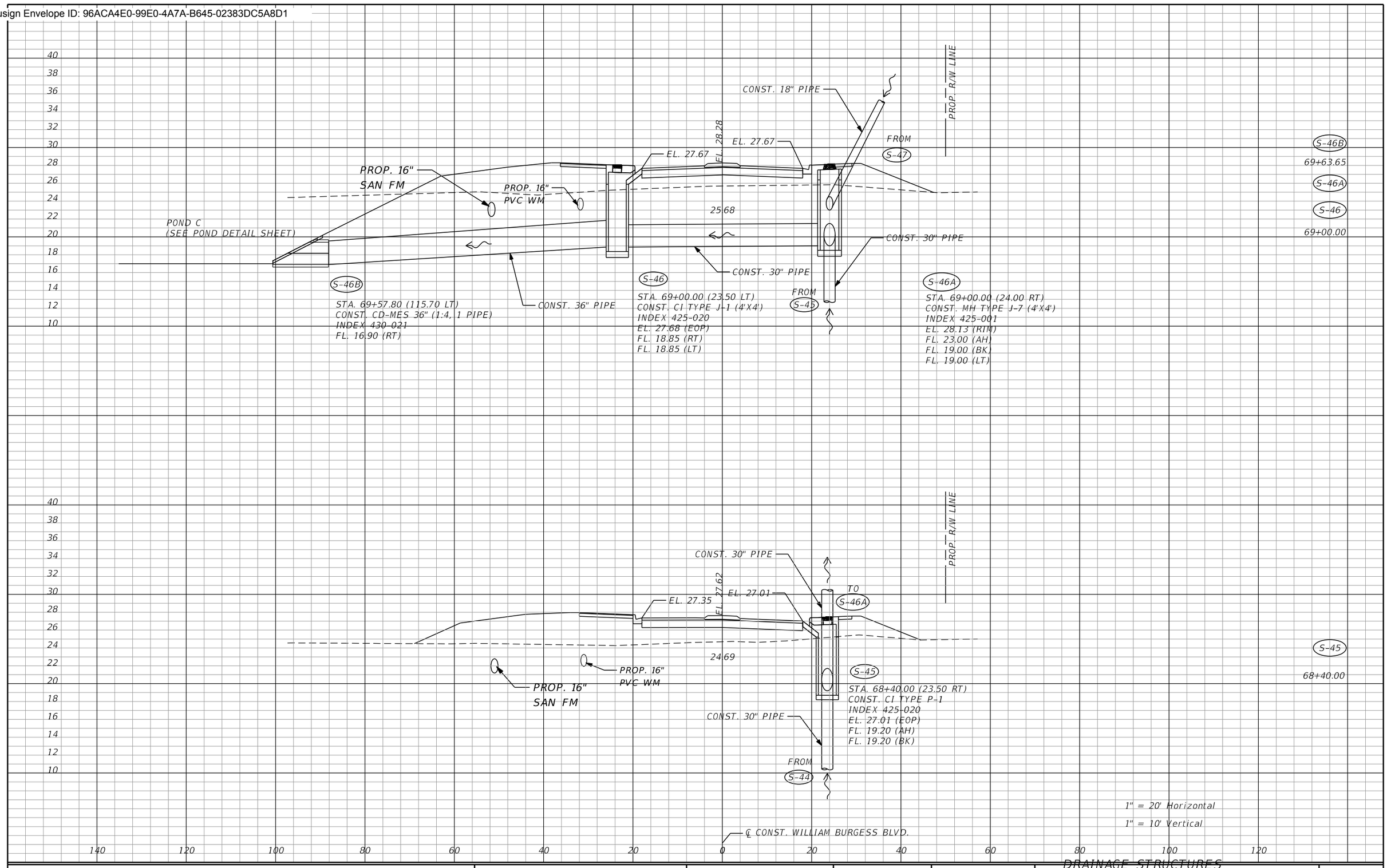
DRAINAGE STRUCTURES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
81

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APPROVED:	RH

PROJECT NO. / DASH NO.
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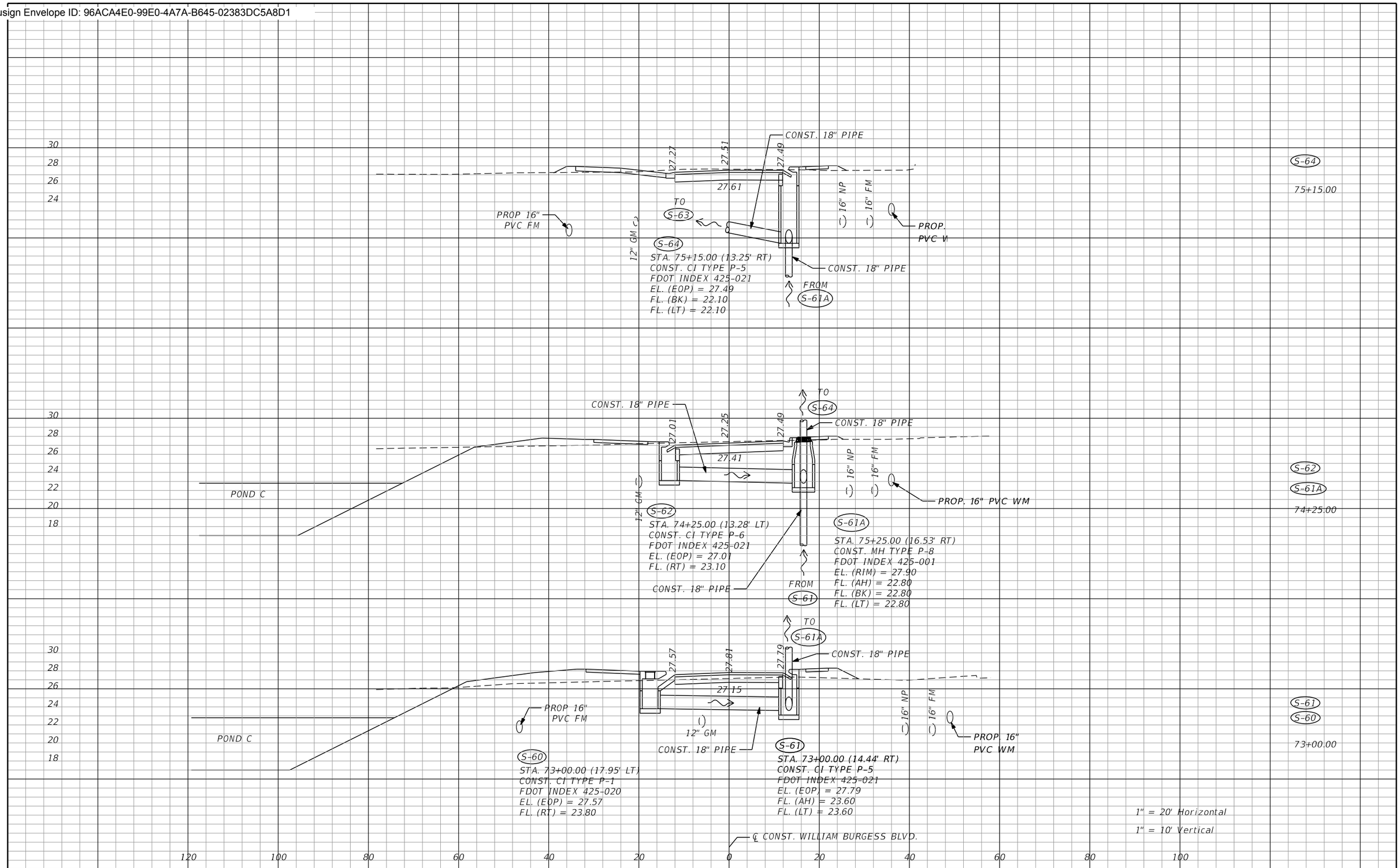
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DRAINAGE STRUCTURES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
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APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

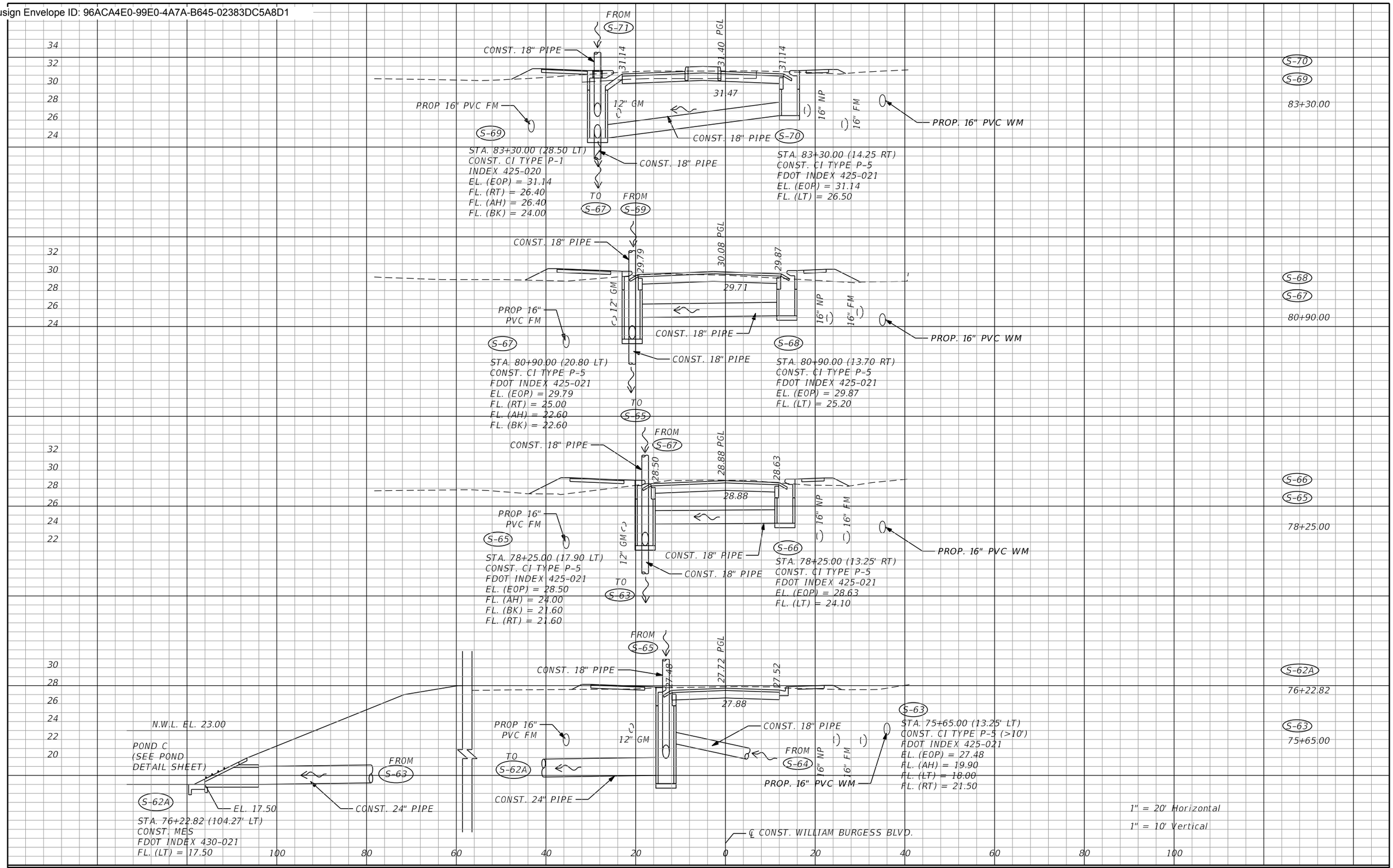
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APPROVED:	RH

PROJECT NO. / DASH NO.
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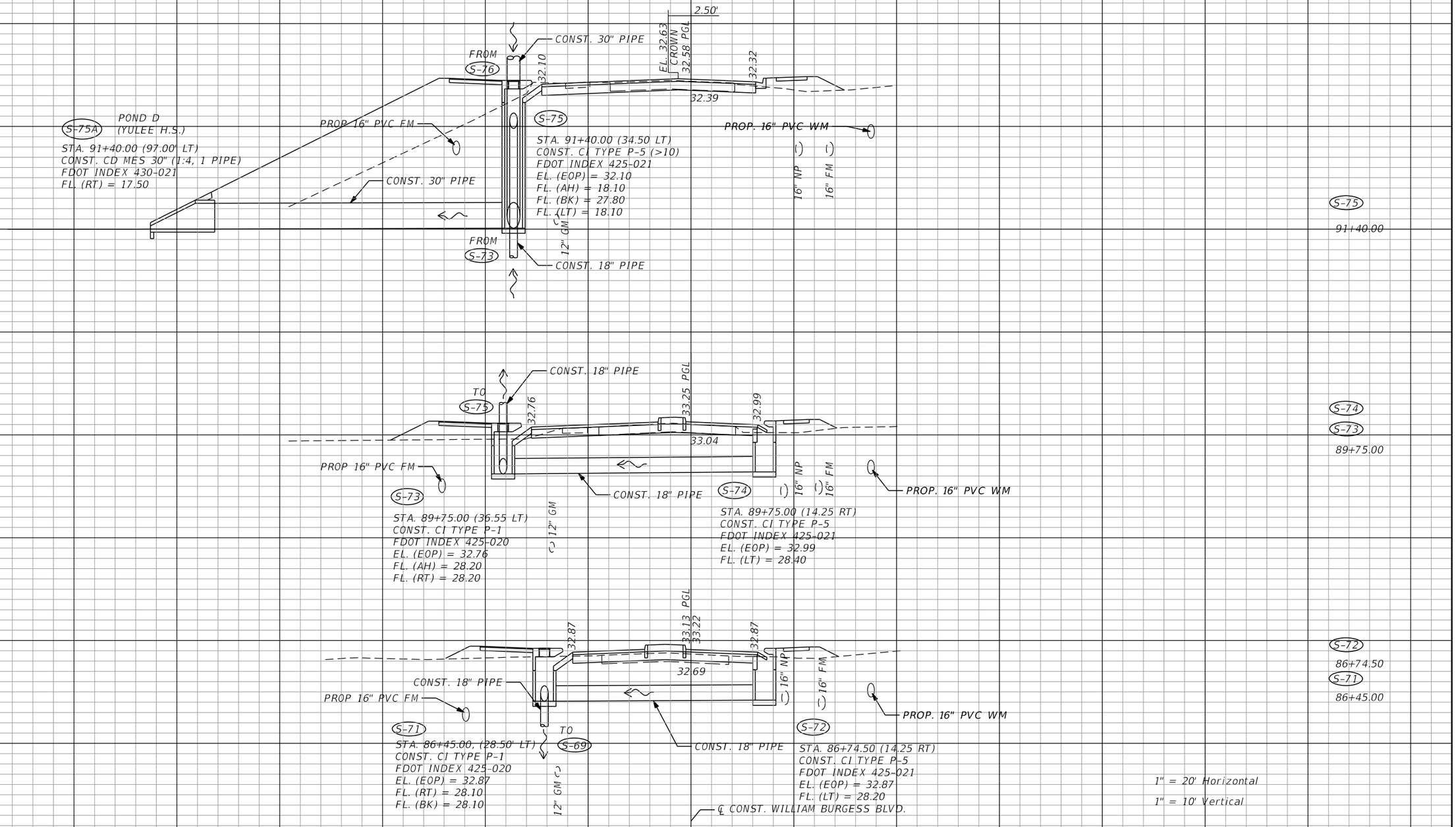
DRAINAGE STRUCTURES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
84

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APPROVED:	RH

PROJECT NO. / DASH NO.
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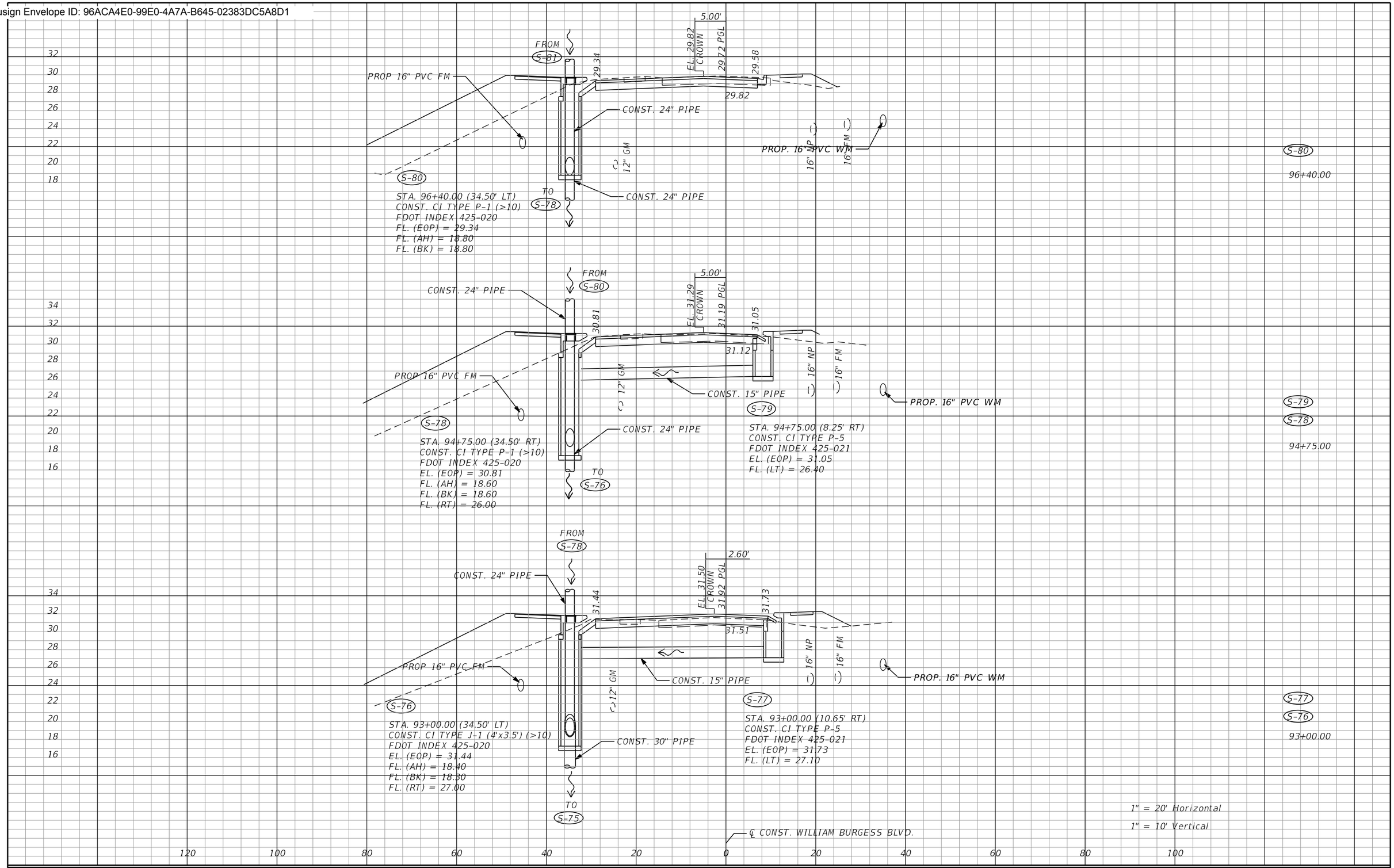
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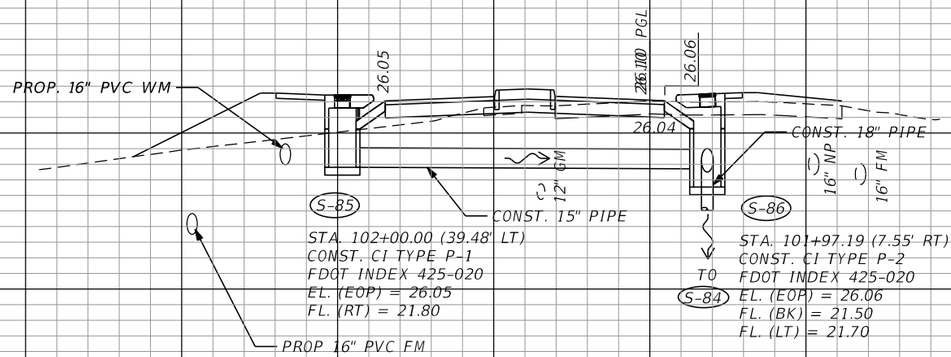
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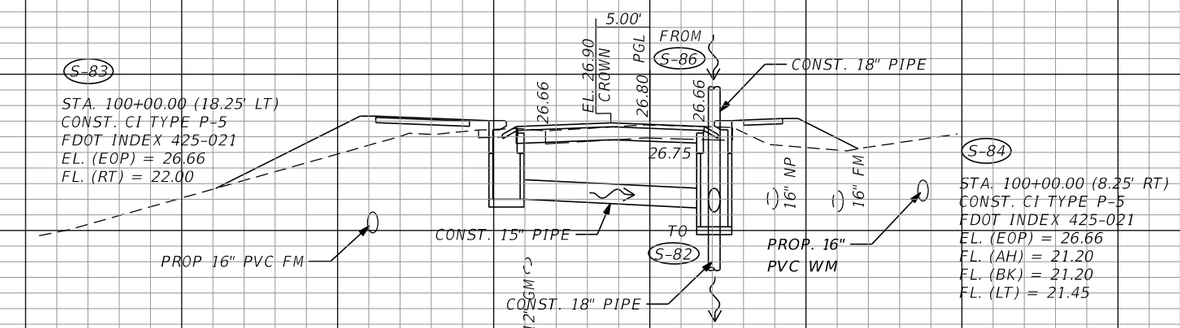
WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

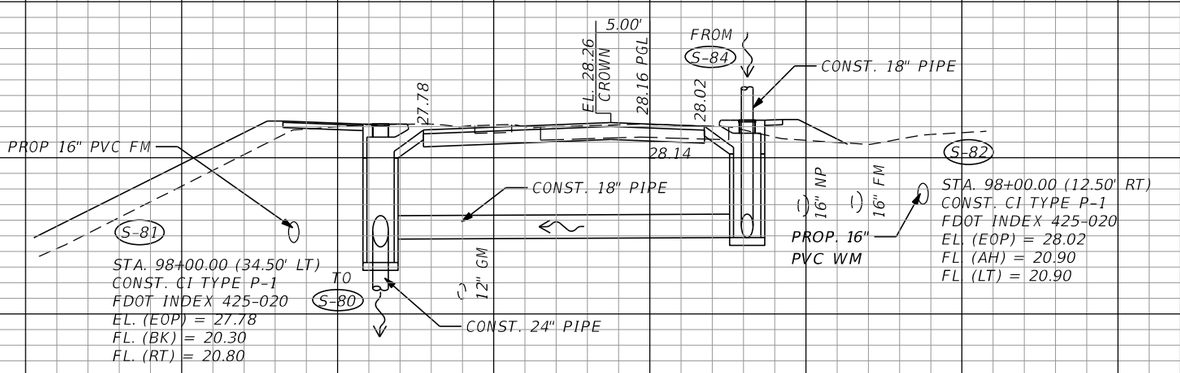
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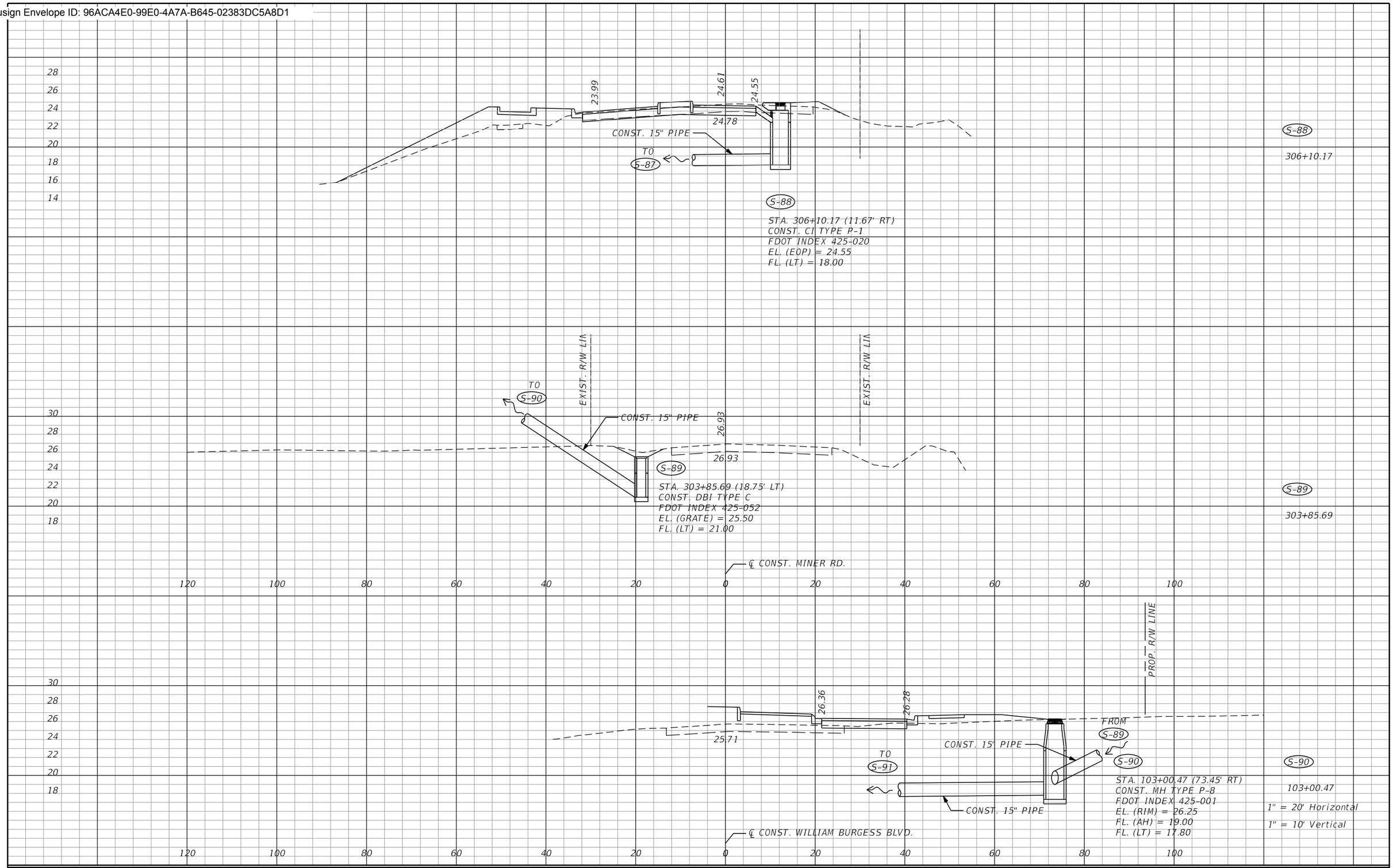
DRAINAGE STRUCTURES

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87

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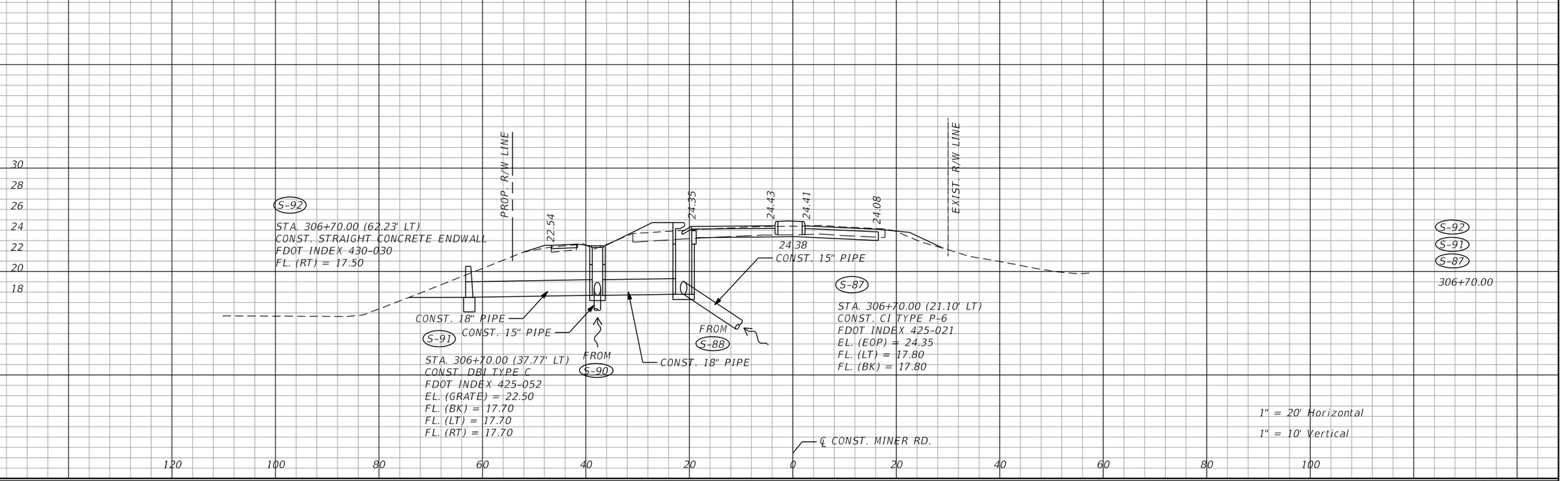
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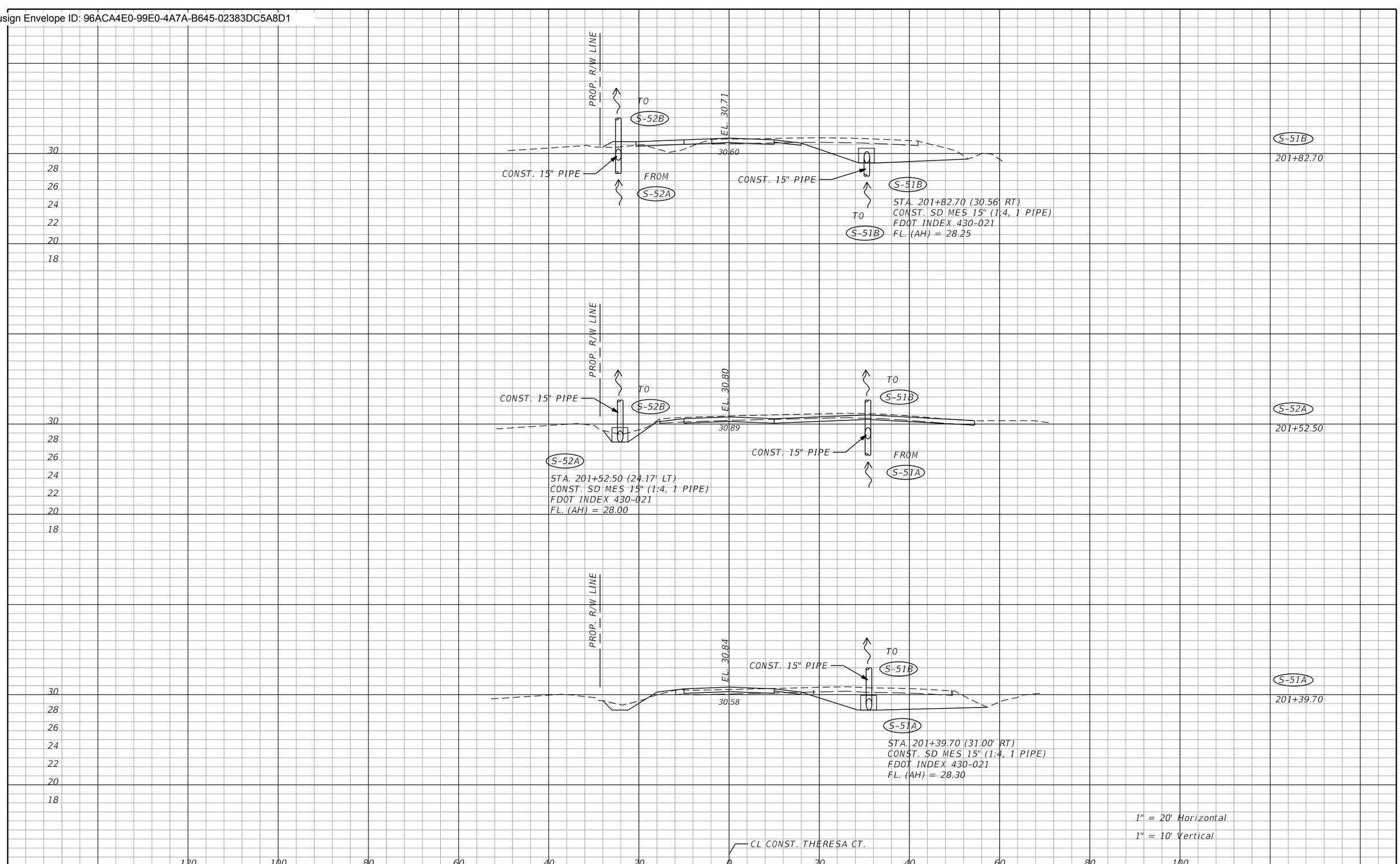
DRAINAGE STRUCTURES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

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89

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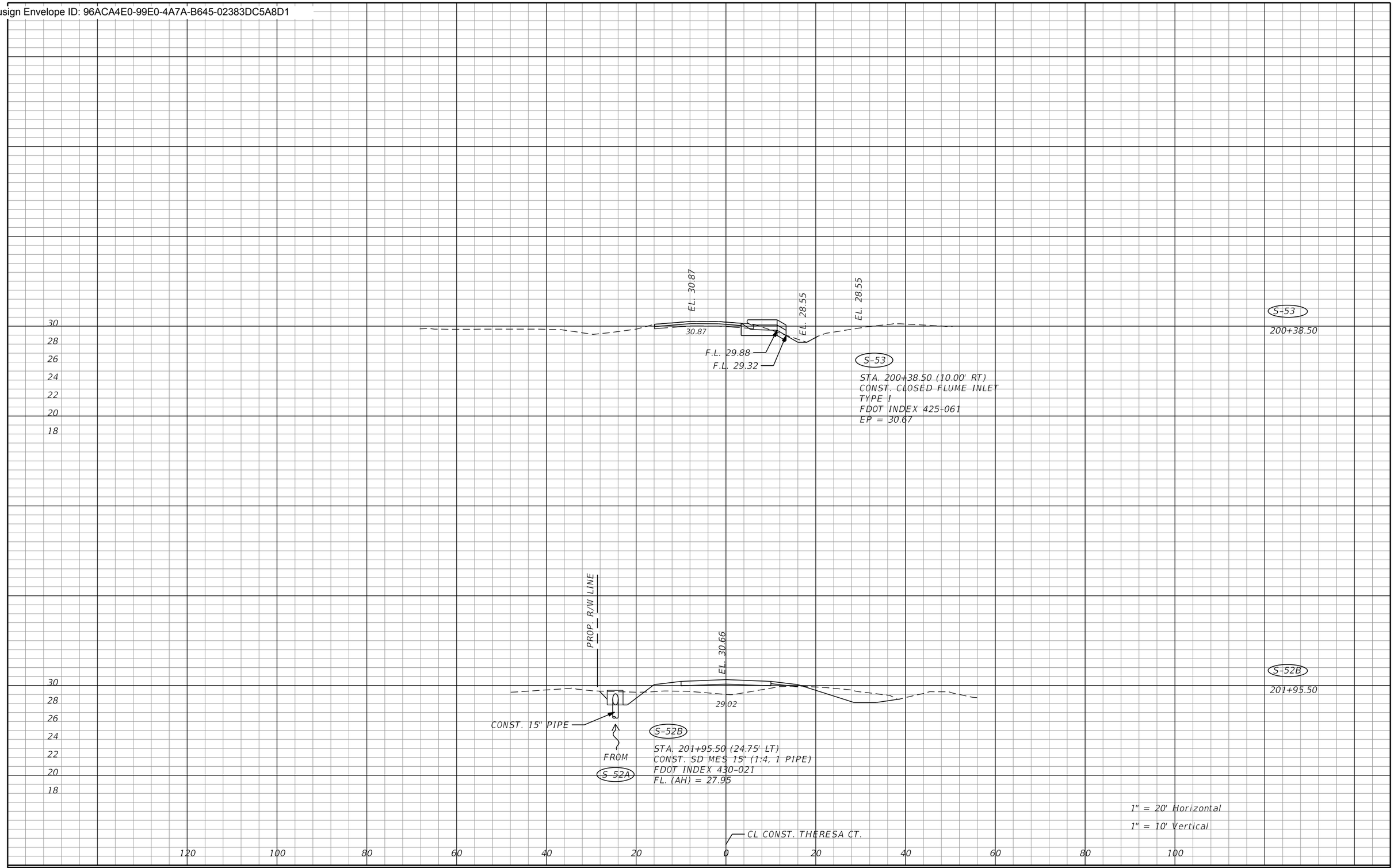
DRAINAGE STRUCTURES

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APPROVED:	RH

PROJECT NO. / DASH NO.
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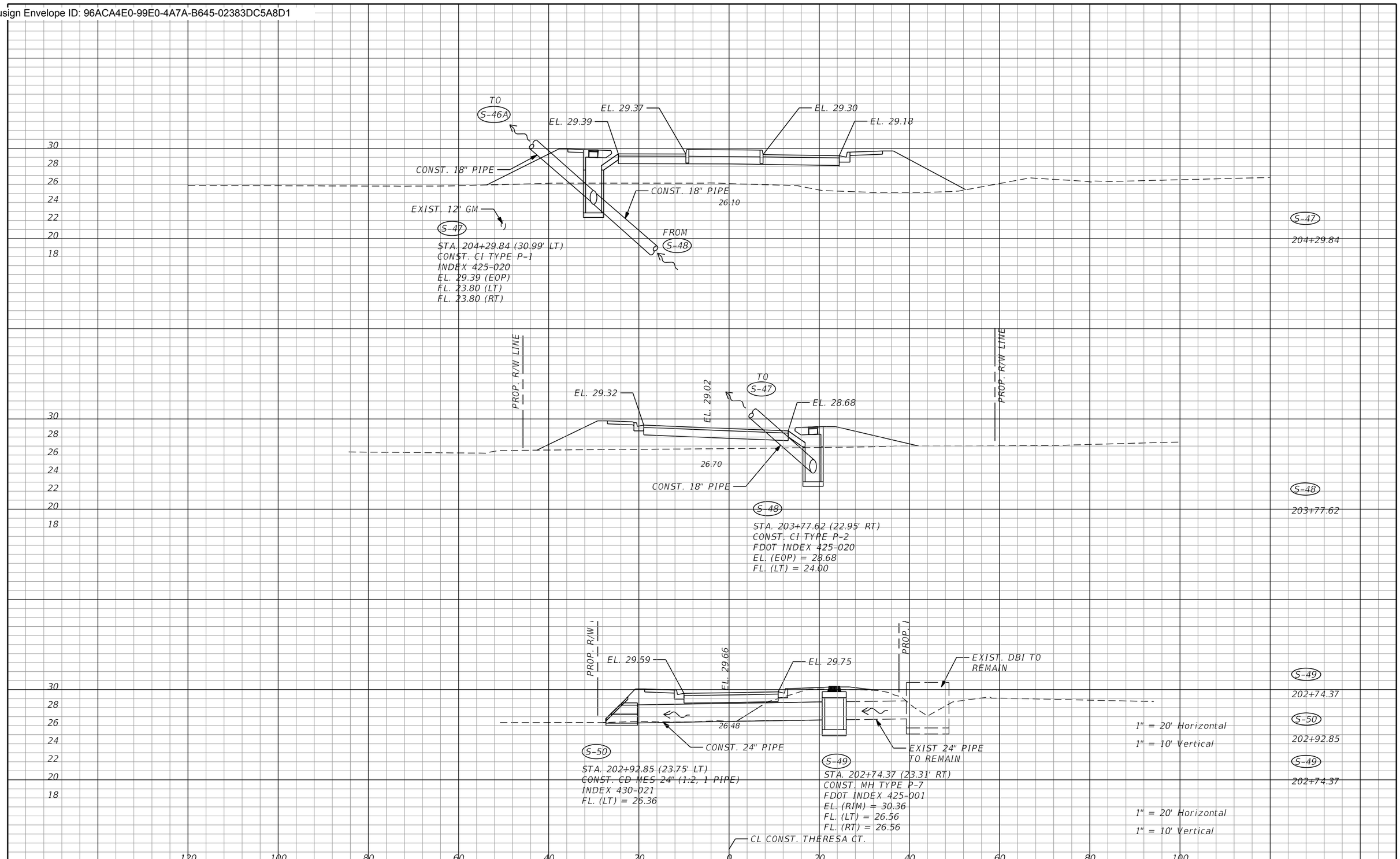
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SHEET NO.
91

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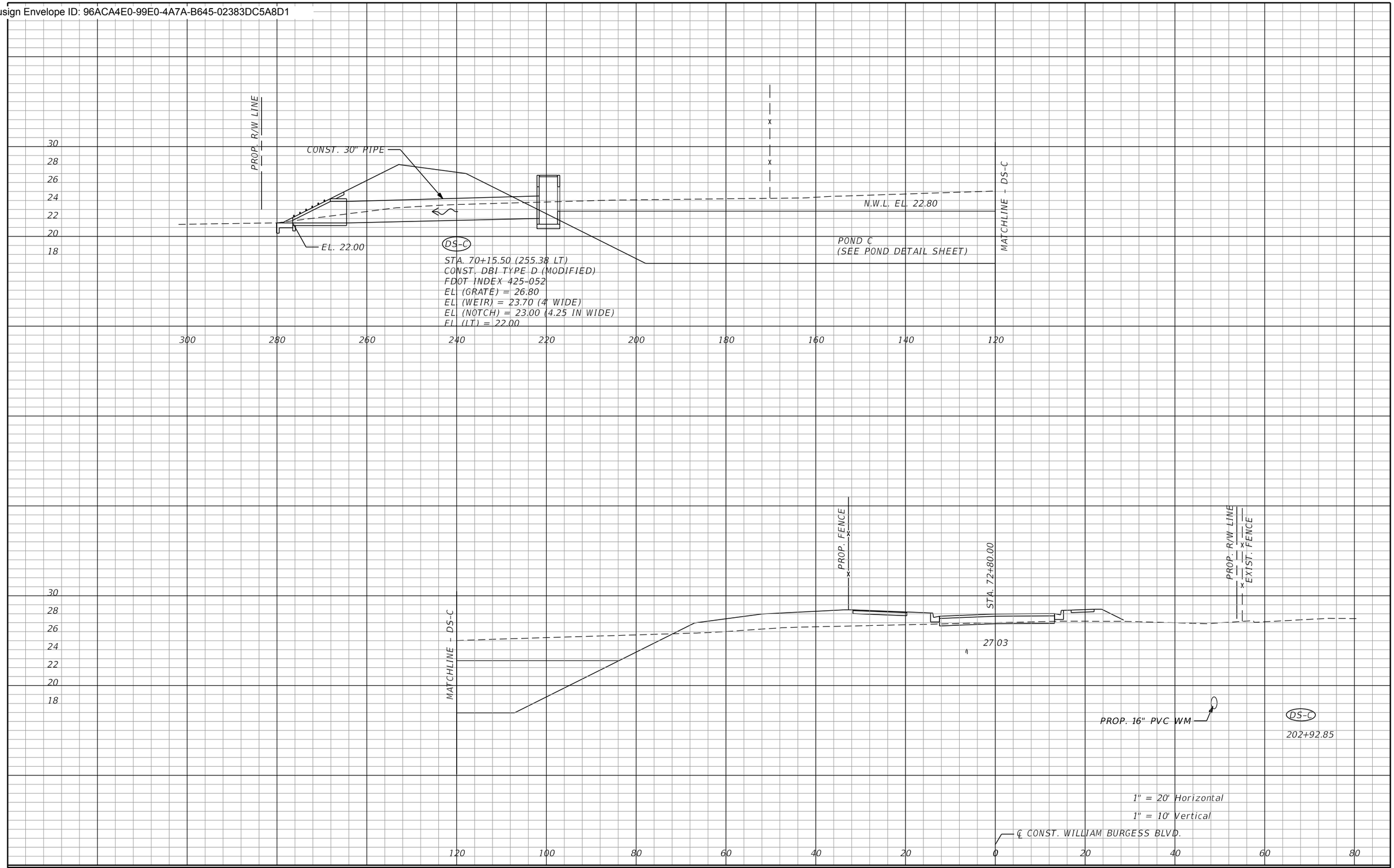
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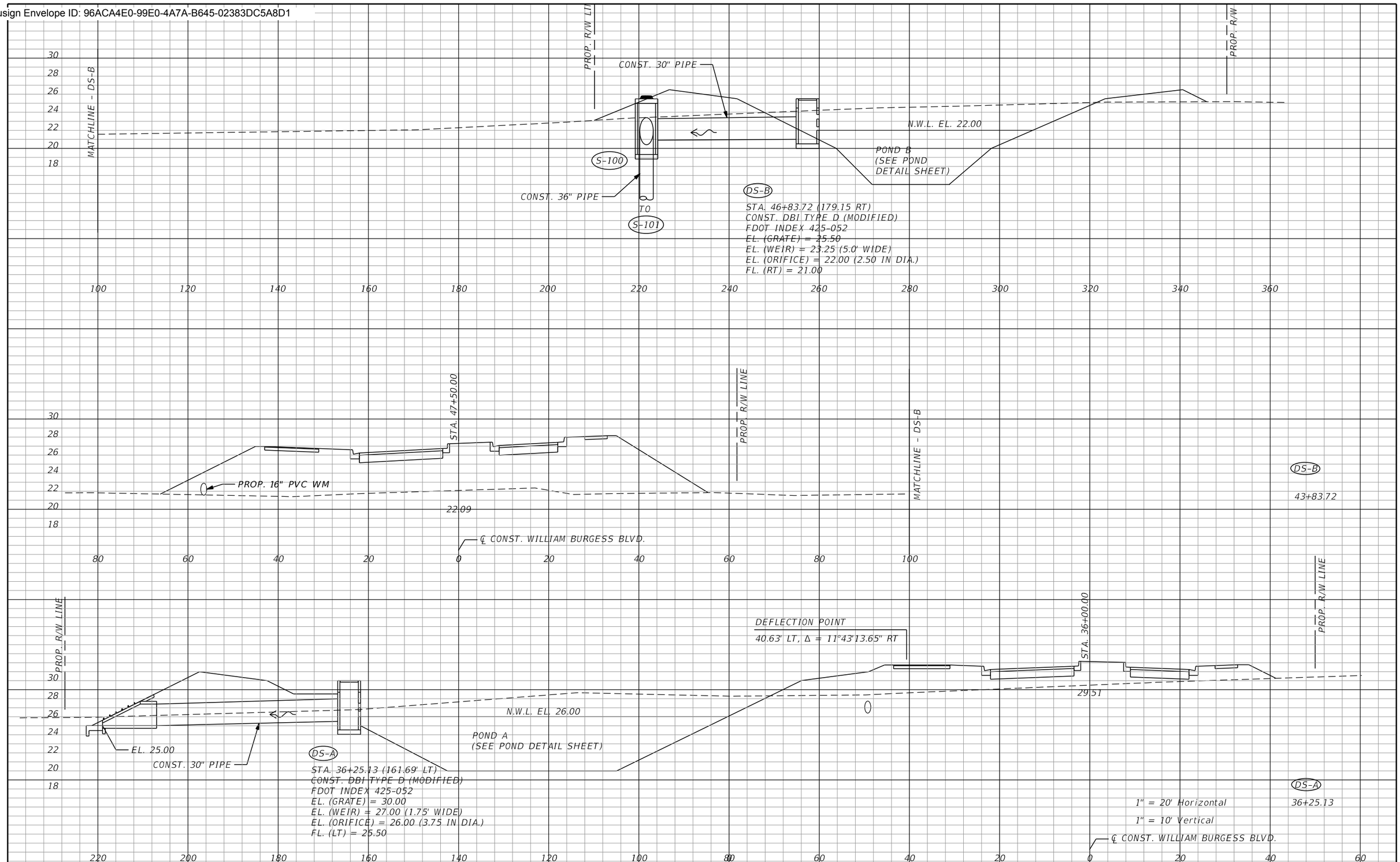
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NASSAU COUNTY, FLORIDA

SHEET NO.
93

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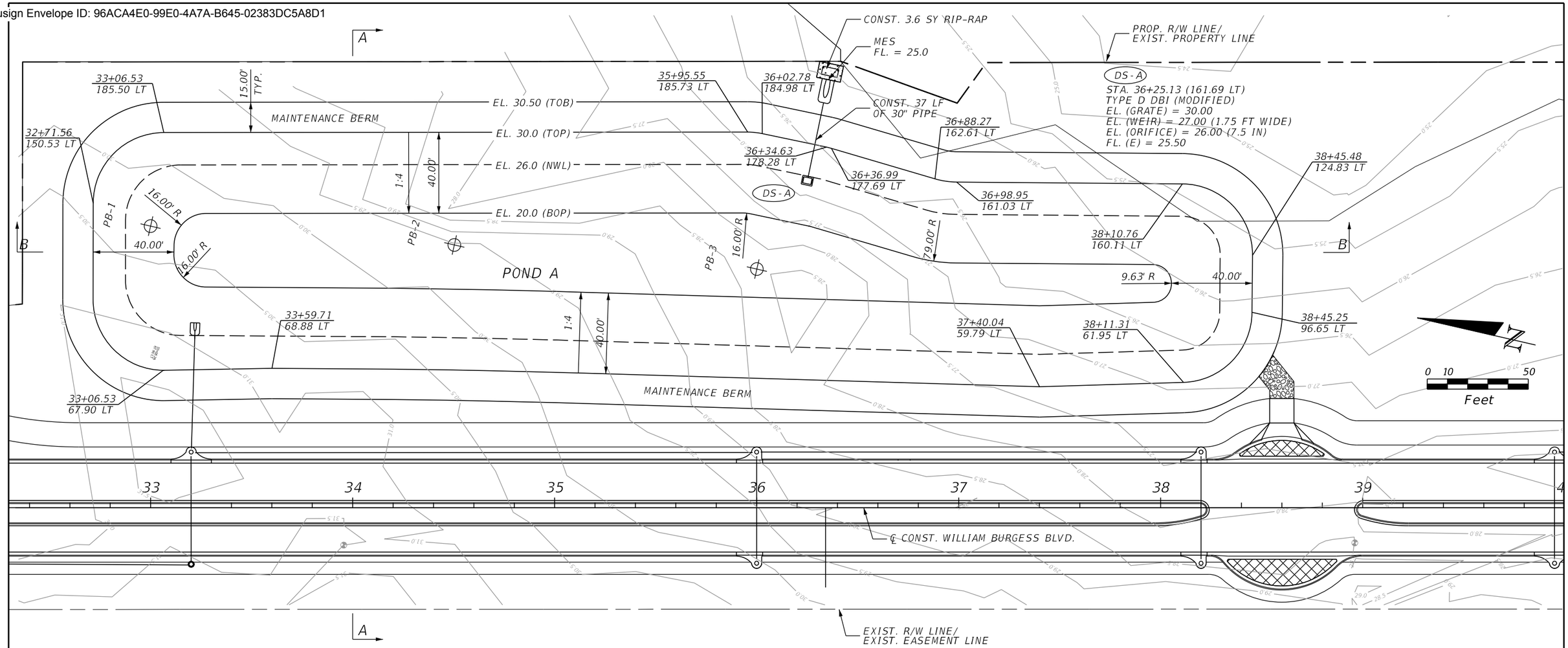
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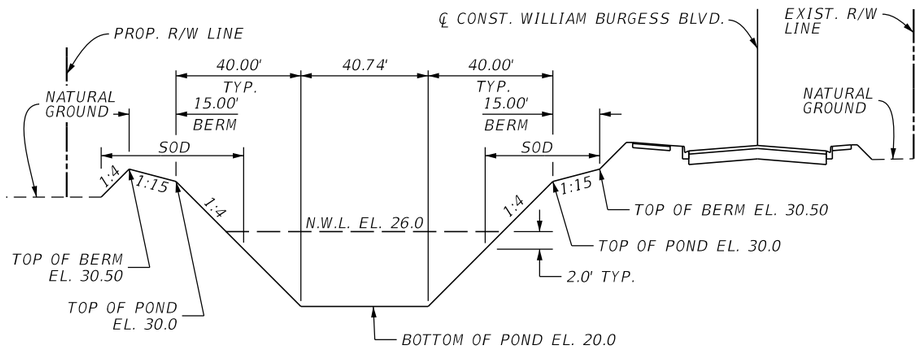
WILLIAM BURGESS BLVD. EXTENSION
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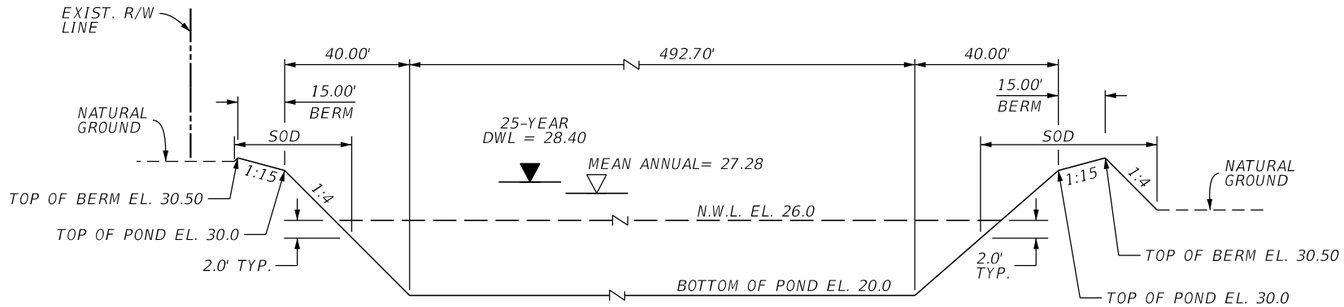
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POND SECTION A-A



POND SECTION B-B

POND A

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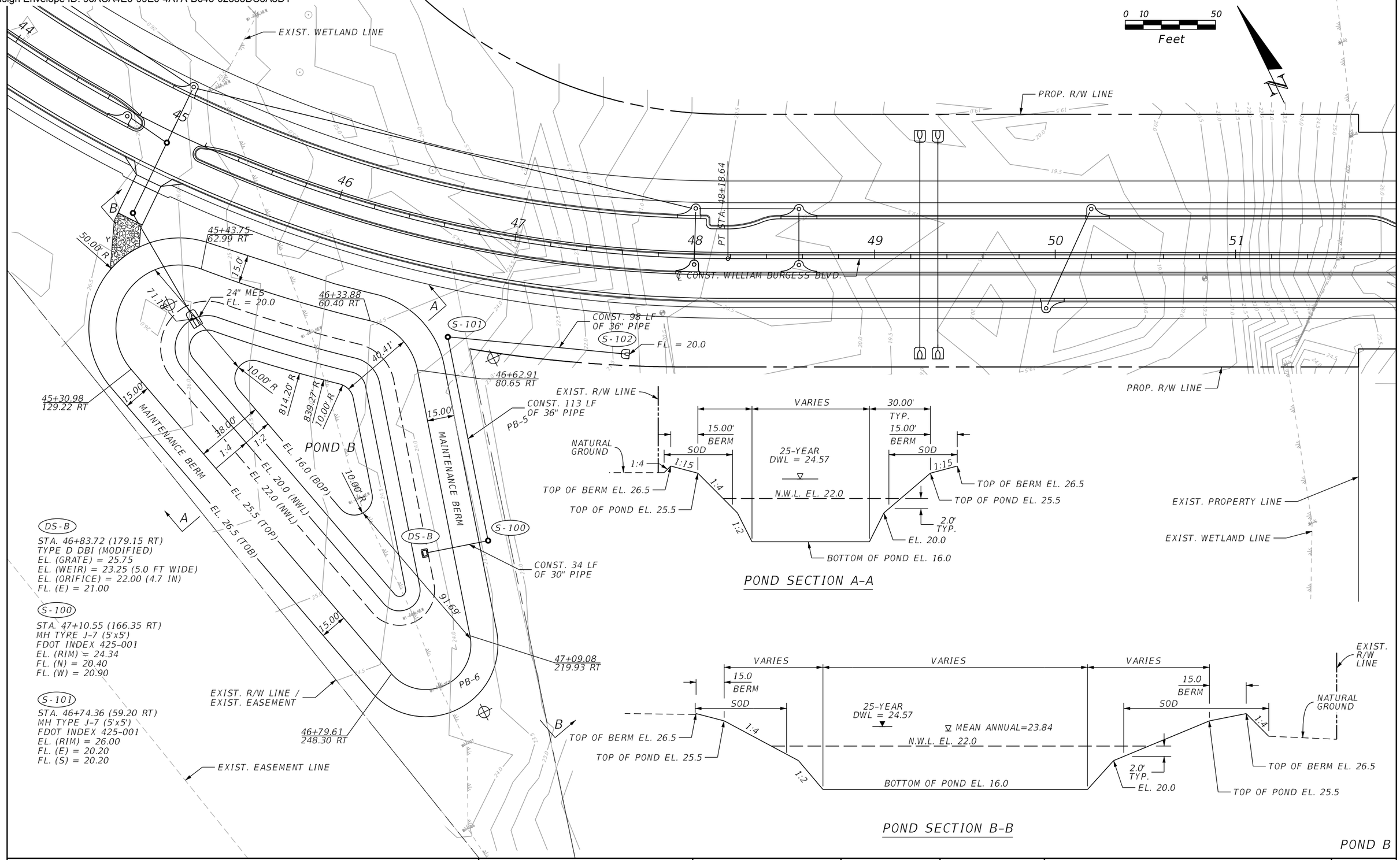
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

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0 20 100
Feet

DS-C
STA. 70+15.50 (255.38 LT)
TYPE D DBI (MODIFIED)
EL. (GRATE) == 26.80
EL. (WEIR) = 23.70 (4.0' WIDE)
EL. (NOTCH) = 22.80 (3.5 IN WIDE)
FL. (N) = 22.00

PROP. R/W LINE
69+35.03
238.87 LT
30" MES
FL. = 22.00
115' (TYP.)
69+02.14
168.18 LT
PB-7
PB-8
PB-9
PB-10
PB-11
PB-12
60.00' R
40.00'
1:4
40.00'
24.00
23.00
21.50
17.00
75' MAINTENANCE BERM
69+13.12
128.77 LT
B
A
PROPOSED FENCE
75+10.13
196.05 LT
74+69.04
196.22 LT
+04.14
233.29 LT
+80.37
205.68 LT
EXIST. POND OUTFALL TO BE REMOVED
76+18.82
224.08 LT
+45.79
178.10 LT
MATCH
EXIST.
PROP. EASEMENT LINE
+80.13
234.70 LT
EXIST. FENCE
S-46B
POND C
CONST. 43 LF
OF 30" PIPE
69+84.73
86.48 LT
118.33' R
EXIST.
FENCE
996.80' R
46.00'
+24.32
121.23 LT
MATCH
EXIST.
75+60.48
213.98 LT
+58.49
105.20 LT
60.00' R
100.00' R
29.42' R
+80.13
40.00 LT
PROP. R/W LINE
PROP. R/W LINE
℄ CONST. WILLIAM
BURGESS BLVD.
POT STA. 204+94.30
PT STA. 204+96.48
PC STA. 204+96.69
MAINTENANCE BERM
PC STA. 73+80.03
PT STA. 74+70.92
74+70.92
65.20 LT
70
75
80
A
PROP. FENCE
℄ CONST. WILLIAM BURGESS BLVD.
73+86.31
65.20 LT
EXIST. PROPERTY LINE /
PROP. R/W LINE
+80.37
40.00 LT
76+58.49
65.20 LT
77+18.35
75.22 LT
MATCH
EXIST.
76+78.00
68.46 LT
℄ CONST. THERESA CT.
PT STA. 202+86.69
PC STA. 202+11.86
PC STA. 202+99.72

POND SECTION A-A

PROP. R/W LINE
40.00'
TYP.
VARIES
40.00'
TYP.
℄ CONST.
WILLIAM
BURGESS
BLVD.
PROP. R/W LINE
15.00'
BERM
15.00'
BERM
PROP.
FENCE
EXIST. FENCE
SOD
1:15
SOD
1:15
NATURAL
GROUND
1:4
1:4
N.W.L. EL. 23.00
1:4
TOP OF BERM EL. 28.0
TOP OF POND EL. 27.0
TOP OF BERM EL. 28.0
TOP OF POND EL. 27.0
2.0'
TYP.
BOTTOM OF POND EL. 17.0

POND SECTION B-B

40.00'
671.70'
46.00'
EXIST. FENCE
15.00'
BERM
20.00'
BERM
SOD
1:15
NATURAL
GROUND
25-YEAR
DWL = 25.27
MEAN ANNUAL 24.22
FLAT
1:4
NATURAL
GROUND
1:4
1:4
N.W.L. EL. 23.00
TOP OF BERM EL. 28.0
TOP OF POND EL. 27.0
BOTTOM OF POND EL. 17.0
TOP OF BERM EL. 28.5
TOP OF POND EL. 28.5
VARIES
EXISTING POND (TO REMAIN)

POND C

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REVISIONS

REV	DATE	BY	DESCRIPTION

gai consultants
transforming ideas into reality
12574 Flagler Center Blvd, Suite 202
Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

LAURA S. PHILLIPS, P.E. Lic. No. 54972

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

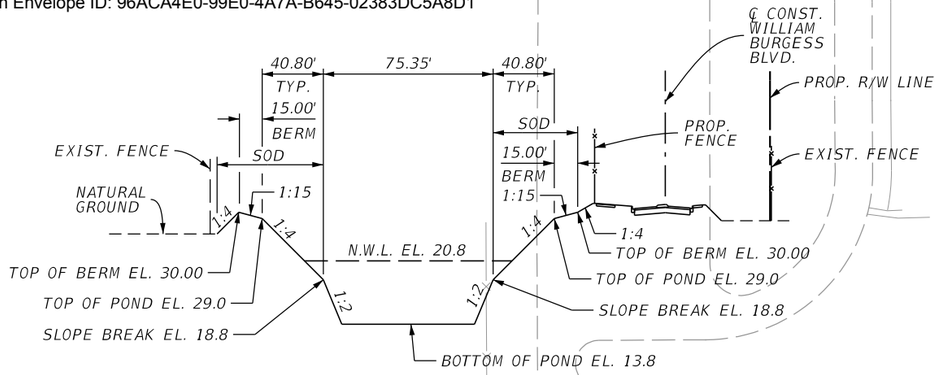
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RETENTION/DETENTION PONDS

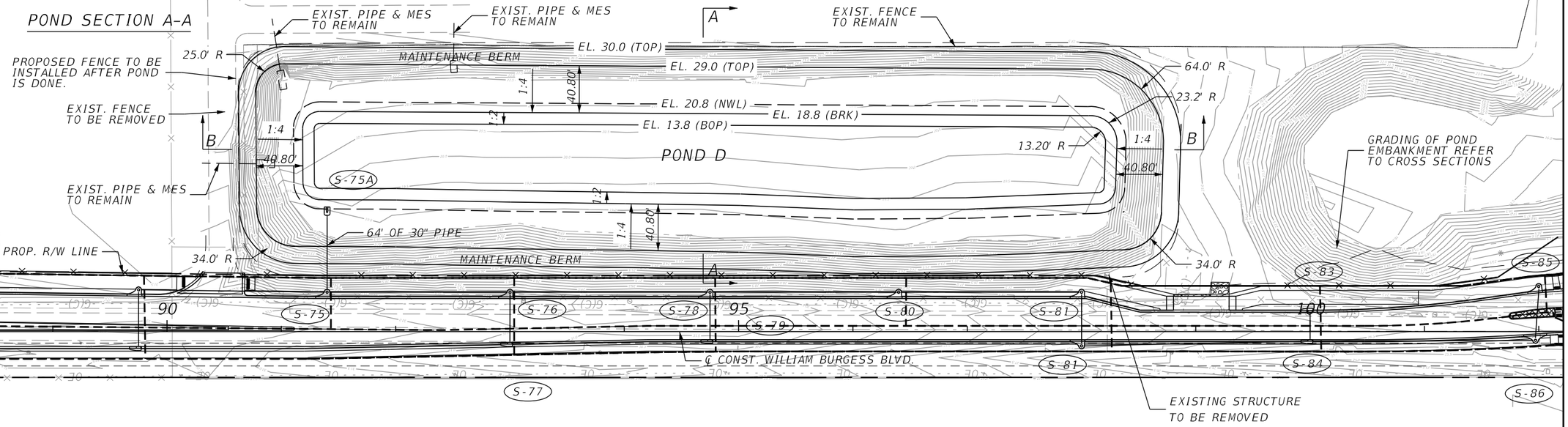
WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

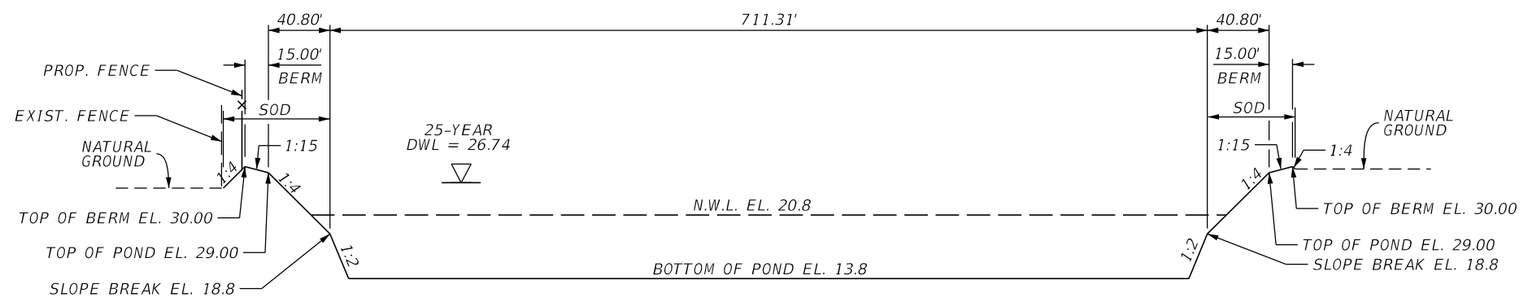
SHEET NO.
97

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POND SECTION A-A





POND SECTION B-B

POND D

REVISIONS			
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LAURA S. PHILLIPS, P.E. Lic. No. 54972

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APPROVED:	RH

PROJECT NO. / DASH NO.
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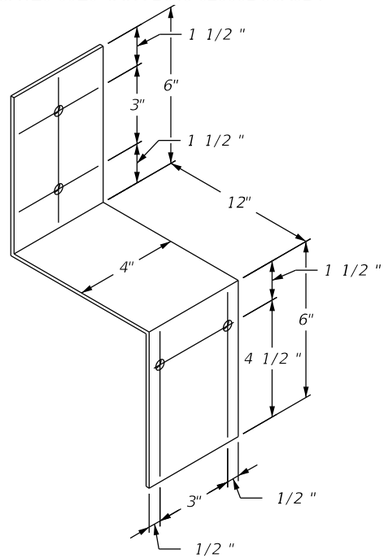
RETENTION/DETENTION PONDS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

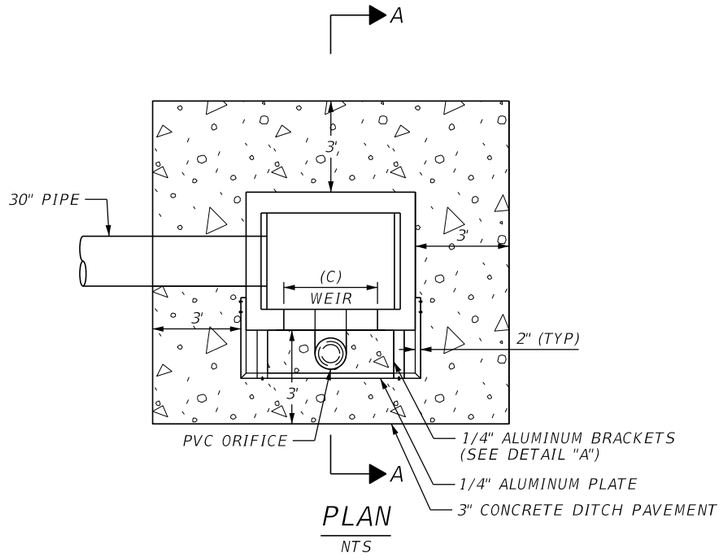
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DETAIL "A"
NTS

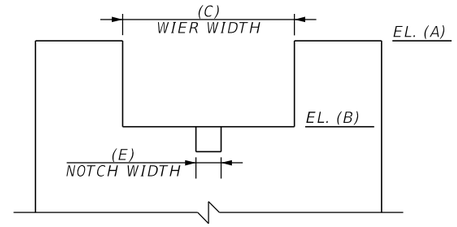


PLAN
NTS

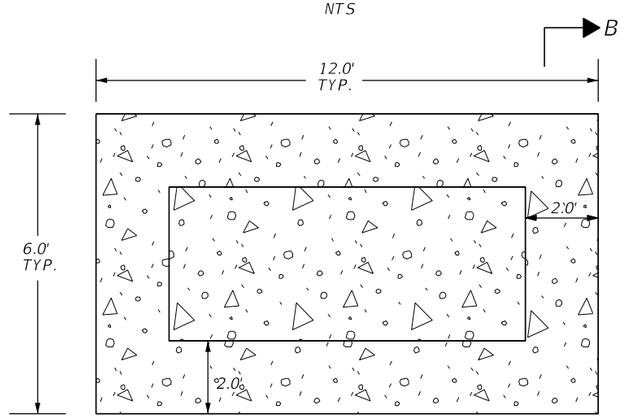
OUTFALL STRUCTURE NUMBER	STATION	OFFSET	SIDE	GRATE ELEVATION (A)	WEIR ELEVATION (B)	WEIR WIDTH (C)	DRAWDOWN ELEVATION (D)
DS-A	36+25.13	161.69'	LT	30.00	27.00	1.75'	26.00
DS-B	48+83.72	179.15'	RT	25.50	23.25	5.0'	22.00
DS-C	69+96.04	298.26'	LT	26.80	23.70	4.0"	23.00

OUTFALL STRUCTURE NUMBER	DRAWDOWN DIMENSION (E)	FLOW LINE ELEVATION (F)	SIDE	PIPE SIZE	STRUCTURE TYPE	FDOT INDEX NO.
DS-A	4.25" DIA.	25.50	RT	30"	DBI-D MODIFIED	425-052
DS-B	2.5" DIA.	21.00	RT	30"	DBI-H MODIFIED	425-052
DS-C	4.50" NOTCH	22.50	LT	30"	DBI-D MODIFIED	425-052

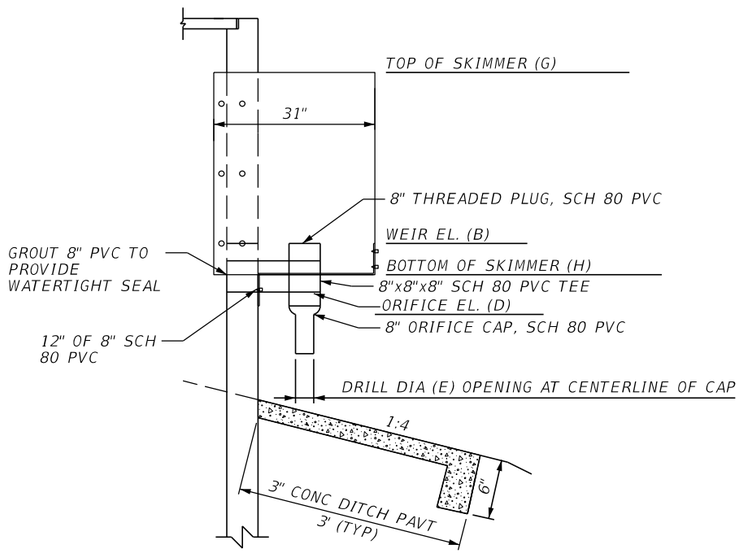
OUTFALL STRUCTURE NUMBER	SKIMMER ELEVATION TOP (G)	SKIMMER ELEVATION BOTTOM (H)
DS-A	28.50	26.50
DS-B	25.00	22.75
DS-C	25.50	22.30



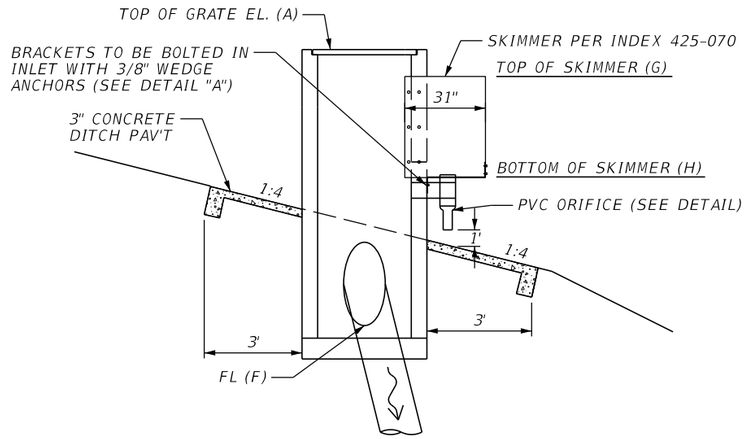
WEIR DETAIL
NTS



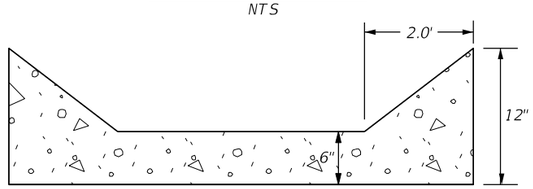
SPREADER SWALE DETAIL
NTS



ORIFICE DETAIL
NTS



SECTION "A-A"
NTS



SECTION "B-B"
NTS

OUTFALL STRUCTURE DETAILS

REVISIONS			
REV	DATE	BY	DESCRIPTION

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904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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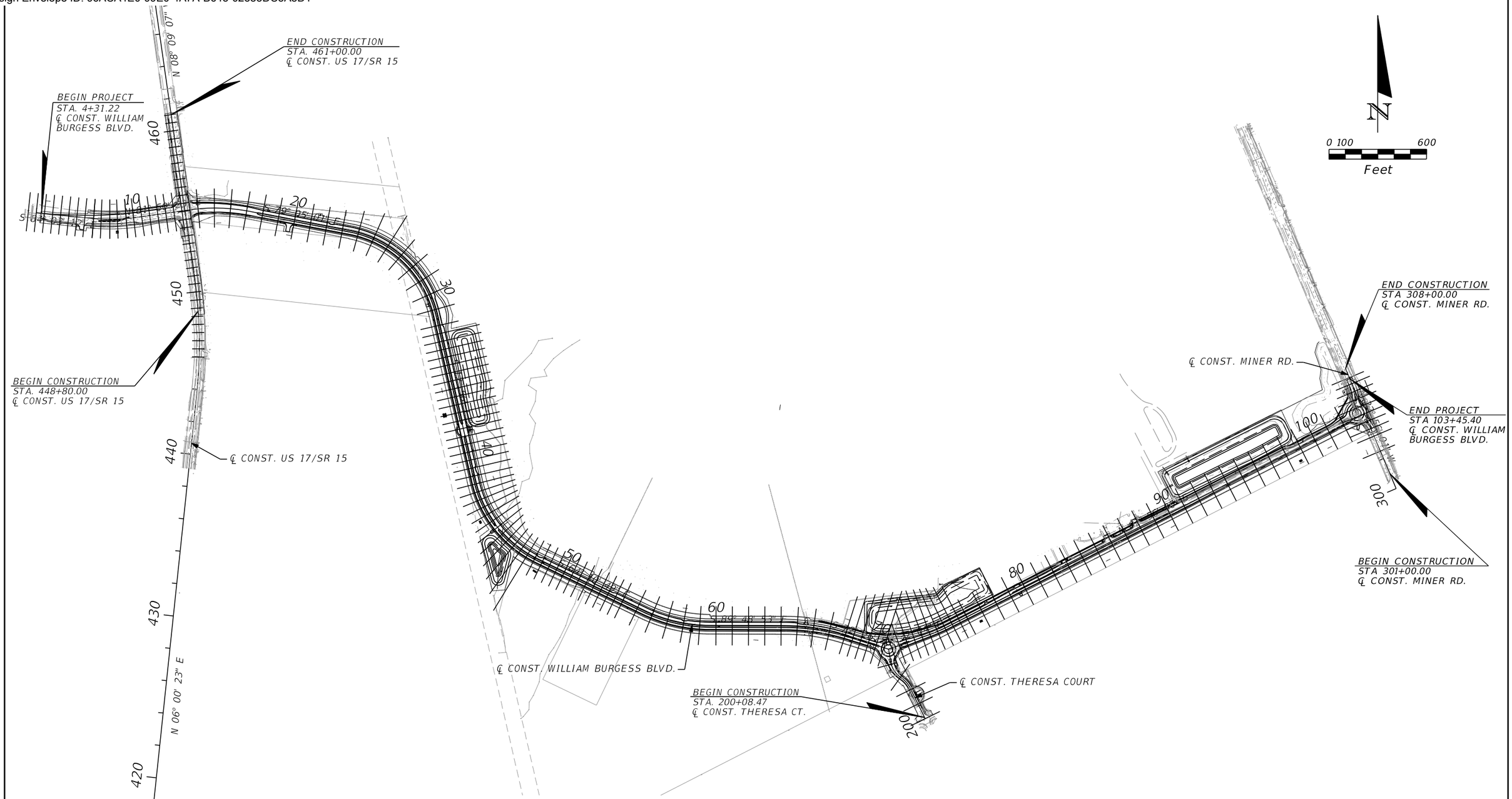
RETENTION/DETENTION PONDS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
99

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REVISIONS			
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Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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CROSS SECTION PATTERN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
100

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

DATE OF SURVEY: APRIL 2020 TO MAY 2020
SURVEY MADE BY: CSI GEO, INC.
SUBMITTED BY: JOHN A. IYA P.E.

NASSAU COUNTY
POND SOIL SURVEY

DISTRICT: 2
ROAD NO.: -
COUNTY: NASSAU

PROJECT NAME: WILLIAM BURGESS BOULEVARD EXTENSION

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF PONDS

SURVEY BEGINS STA. : 33+00 SURVEY ENDS STA. : 73+70 REFERENCE: ℄ CONST. WILLIAM BURGESS BLVD

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)						ATTERBERG LIMITS (%)					ENVIRONMENTAL CLASSIFICATION		CORROSION TEST RESULTS				
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	STEEL	CONCRETE	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
11	2	2.2-3.8	17	23-34	17	100	99	84-94	17-34	2-10	-	-	-	A-3	GRAY AND LIGHT BROWN TO DARK BROWN FINE SAND; SLIGHTLY SILTY FINE SAND; SLIGHTLY ORGANIC FINE SAND	EA	EA	4	19,670-45,520	10-25	U-6	3.5-4.7
12	-	-	1	30	1	100	99	88	34	14	-	-	-	A-2-4	DARK BROWN SILTY FINE SAND	-		-	-	-	-	-
13	-	-	1	62	1	-	-	-	-	76	1	58	28	A-7-6	GRAY AND BROWN CLAY WITH SAND	-		-	-	-	-	-

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▼ - WATER TABLE ENCOUNTERED

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL

B.T. - SPT BORING TERMINATION;

N. - STANDARD PENESTRATION RESISTANCE IN BLOWS PER FOOT; NUMBERS TO THE LEFT OF THE BORING INDICATE N-VALUES

U - COMPOUND TESTED FOR BUT NOT DETECTED;

EA - EXTREMELY AGGRESSIVE

NOTES:

1. THIS SOIL SURVEY APPLIES TO POND SOILS ONLY.
2. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH TEST HOLE LOCATION. ANY STRATUM CONNECTING LINES SHOWN ARE FOR DESIGN PURPOSES ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIANCE BETWEEN BORINGS MAY OCCUR AND SHOULD BE ANTICIPATED.
3. THE MATERIAL FROM STRATUM NO. 11 IS SELECT MATERIAL AND APPEARS SATISFACTORY FOR USE WHEN UTILIZED IN ACCORDANCE WITH APPLICABLE STANDARD SPECIFICATIONS.
4. THE MATERIAL FROM STRATUM NO. 12 IS SELECT MATERIAL AND APPEARS SATISFACTORY FOR USE WHEN UTILIZED IN ACCORDANCE WITH APPLICABLE STANDARD SPECIFICATIONS. HOWEVER, THIS MATERIAL MAY RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
5. THE MATERIAL FROM STRATUM NO. 13 SHALL BE REGARDED AS HIGHLY PLASTIC MATERIAL.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHN A. IYA, P.E.
P.E. LICENSE NO.: 77294
CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD S., SUITE 200
JACKSONVILLE, FLORIDA 32246

NASSAU COUNTY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
-	NASSAU	-

PONDS SOIL SURVEY

SHEET NO. 101

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

DATE OF SURVEY: APRIL 2020 TO MAY 2020
SURVEY MADE BY: CSI GEO, INC.
SUBMITTED BY: JOHN A. IYA P.E.

NASSAU COUNTY
ROADWAY SOIL SURVEY

DISTRICT: 2
ROAD NO.: -
COUNTY: NASSAU

PROJECT NAME: WILLIAM BURGESS BOULEVARD EXTENSION

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADWAY

SURVEY BEGINS STA. : 12+00 SURVEY ENDS STA. : 103+00 REFERENCE: ℄ CONST. WILLIAM BURGESS BLVD
SURVEY BEGINS STA. : 201+00 SURVEY ENDS STA. : 204+00 REFERENCE: ℄ CONST. THERESA CT

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)						ATTERBERG LIMITS (%)					L.B.R. TEST		ENVIRONMENTAL CLASSIFICATION		CORROSION TEST RESULTS				
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	NO. OF TESTS	L.B.R. RANGE	STEEL	CONCRETE	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	9	0.4-4.3	24	5-55	24	100	96-100	86-96	23-50	1-10	-	-	-	A-3	GRAY, REDDISH BROWN, AND LIGHT BROWN TO DARK BROWN FINE SAND; SLIGHTLY SILTY FINE SAND; SLIGHTLY ORGANIC FINE SAND; WITH TRACE OF ROOTS AND LIMEROCK FRAGMENTS	7	26-29	SA-EA	SA-EA	8	7,720-91,300	U	25-70	4.2-8.1
2	-	-	2	21-23	-	-	-	-	-	11	-	-	-	A-2-4	DARK BROWN AND BROWN SILTY FINE SAND	-	-	-	-	-	-	-	-	-
3	-	-	2	25-36	-	-	-	-	-	21-37	2	48-50	24-25	A-2-7/A-7-6	GRAY AND BROWN CLAYEY FINE SAND (LL<50)	-	-	-	-	-	-	-	-	-
4	-	-	2	34-55	-	-	-	-	-	53-61	2	58-97	37-72	A-7-6	GRAY AND BROWN SANDY CLAY (LL≥50)	-	-	-	-	-	-	-	-	-
5	5	5.0-11.1	5	29-50	5	100	98-99	90-94	31-34	5-7	-	-	-	A-3	DARK GRAY ORGANIC FINE SAND; ORGANIC SLIGHTLY SILTY FINE SAND (ORGANIC CONTENT = 5% - 20%)	-	-	-	-	-	-	-	-	-
6	1	24.7	1	64	-	-	-	-	-	11	-	-	-	A-8	TOPSOIL; DARK GRAY HIGHLY ORGANIC FINE SAND; HIGHLY ORGANIC SILTY FINE SAND (ORGANIC CONTENT = 20% - 75%)	-	-	-	-	-	-	-	-	-

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▼ - WATER TABLE ENCOUNTERED

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL

A.T. - AUGER BORING

U - COMPOUND TESTED FOR BUT NOT DETECTED

L.B.R. - LIMEROCK BEARING RATIO

SA - SLIGHTLY AGGRESSIVE; EA - EXTREMELY AGGRESSIVE

G.N.E. - GROUNDWATER NOT ENCOUNTERED

SH.N.E. - SEASONAL HIGH GROUNDWATER LEVEL NOT ENCOUNTERED

NOTES:

1. THIS SOIL SURVEY APPLIES TO ROADWAY SOILS ONLY.
2. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH TEST HOLE LOCATION. ANY STRATUM CONNECTING LINES SHOWN ARE FOR DESIGN PURPOSES ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIANCE BETWEEN BORINGS MAY OCCUR AND SHOULD BE ANTICIPATED.
3. THE MATERIAL FROM STRATUM NO. 1 IS SELECT MATERIAL AND APPEARS SATISFACTORY FOR USE WHEN UTILIZED IN ACCORDANCE WITH APPLICABLE STANDARD SPECIFICATIONS.
4. THE MATERIAL FROM STRATUM NO. 2 IS SELECT MATERIAL AND APPEARS SATISFACTORY FOR USE WHEN UTILIZED IN ACCORDANCE WITH APPLICABLE STANDARD SPECIFICATIONS. HOWEVER, THIS MATERIAL MAY RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
5. THE MATERIAL FROM STRATUM NO. 3 SHALL BE REGARDED AS PLASTIC MATERIAL.
6. THE MATERIAL FROM STRATUM NO. 4 SHALL BE REGARDED AS HIGHLY PLASTIC MATERIAL.
7. THE MATERIAL FROM STRATUM NO. 5 SHALL BE REGARDED AS ORGANIC MATERIAL.
8. THE MATERIAL FROM STRATUM NO. 6 SHALL BE REGARDED AS HIGHLY ORGANIC MATERIAL.
9. REMOVAL OF ORGANIC MATERIAL, HIGHLY ORGANIC MATERIAL, PLASTIC AND HIGHLY PLASTIC MATERIALS OCCURING WITHIN THE ROADWAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE STANDARD SPECIFICATIONS UNLESS OTHERWISE SHOWN IN THE PLANS. THE MATERIAL UTLIZED IN CONSTRUCTION SHALL BE PLACED IN ACCORDANCE WITH APPLICABLE STANDARD SPECIFICATIONS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHN A. IYA, P.E.
P.E. LICENSE NO.: 77294
CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD S., SUITE 200
JACKSONVILLE, FLORIDA 32246

NASSAU COUNTY

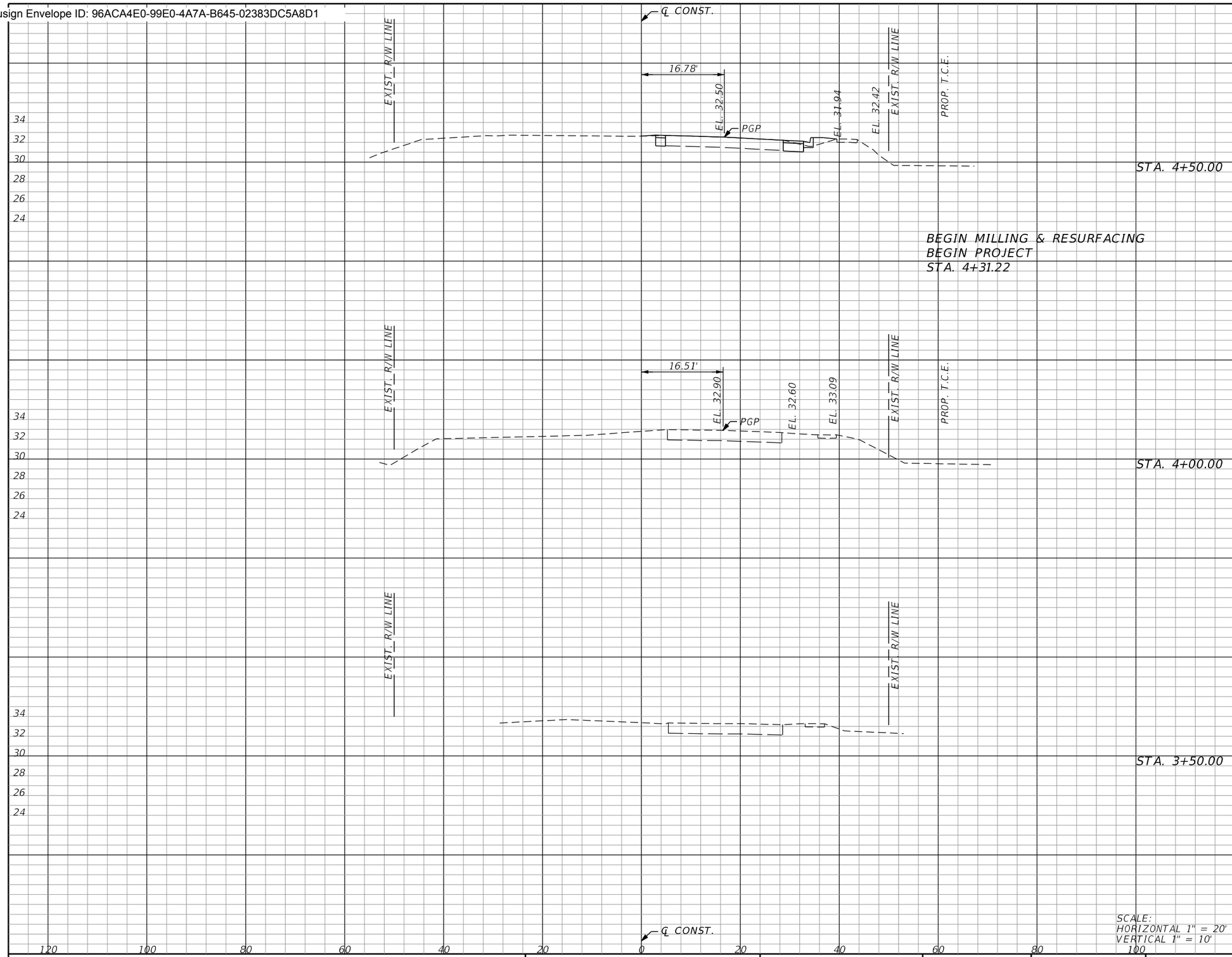
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
-	NASSAU	-

ROADWAY SOIL SURVEY

SHEET NO. 102

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
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0.0		13.8		18.9	
	0.0		12.8		17.5
0.0		0.0		0.0	
	0.0		0.0		0.0
0.0		0.0		0.0	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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REVISIONS

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transforming ideas into reality®
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Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

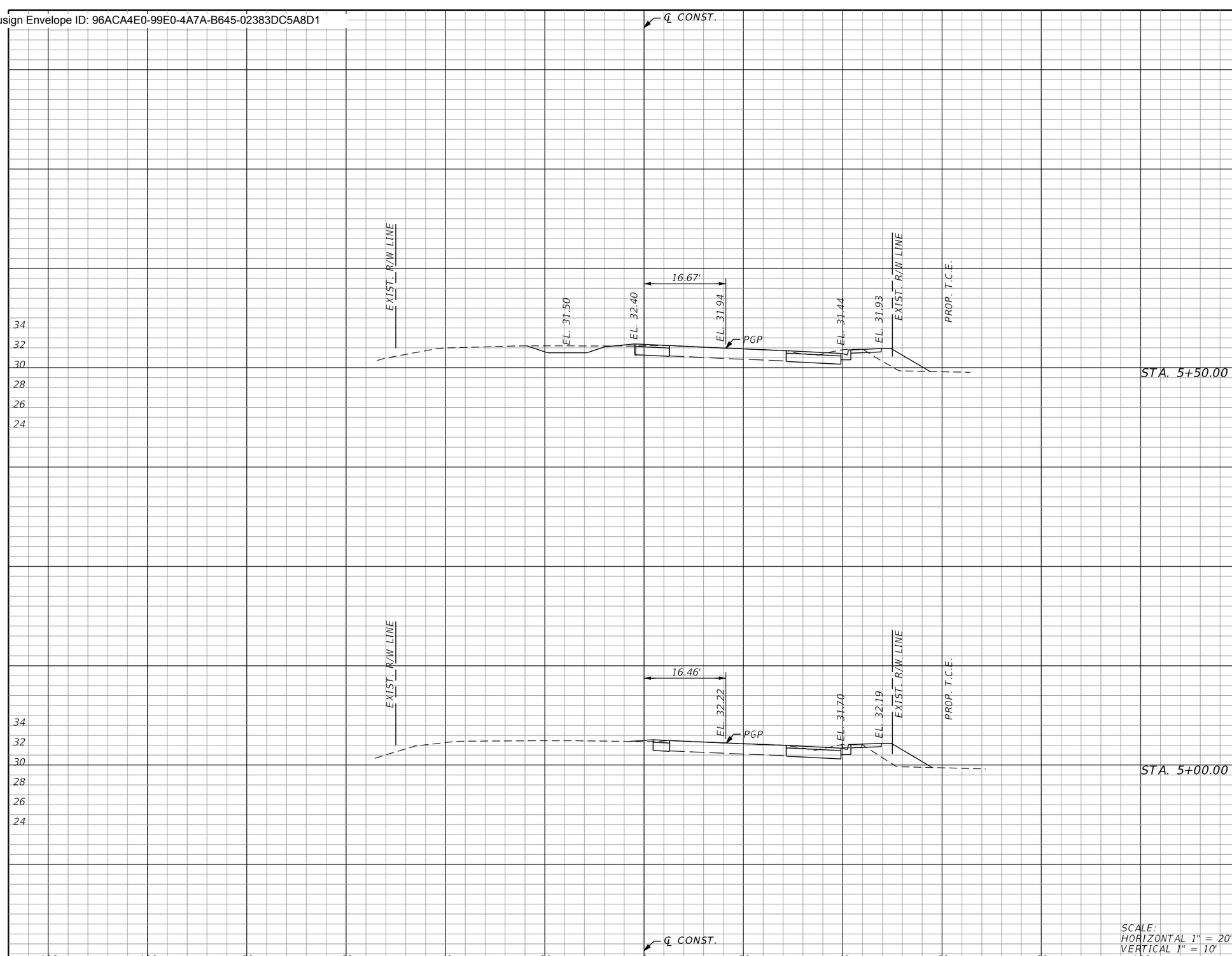
This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
103

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	29.3	55.4	13.1	22.2
0.0	0.0	15.8	41.7	15.0	26.0

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Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

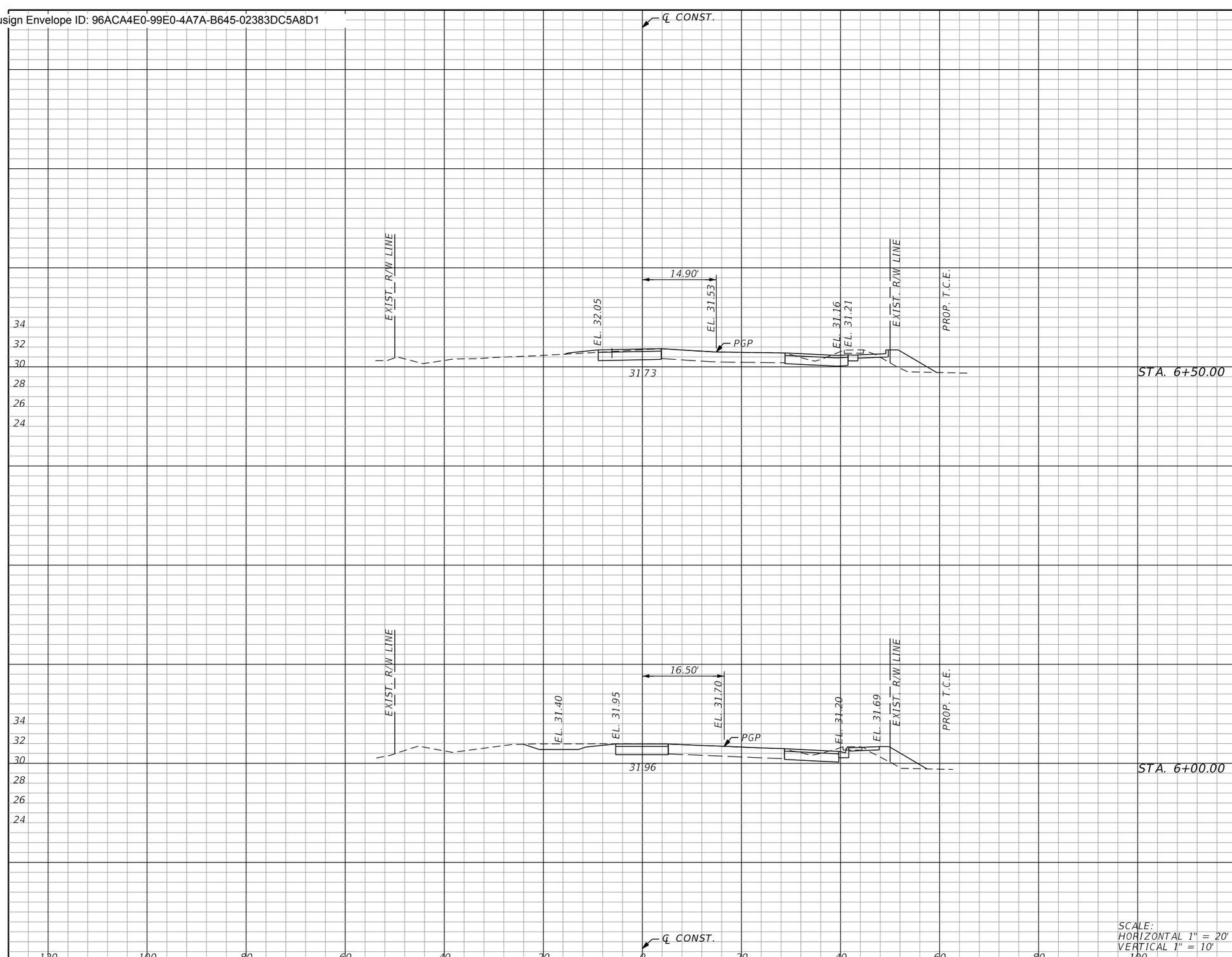
SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
104

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		56.6		42.4
0.0		27.0		12.5	
	0.0		53.3		21.6
0.0		30.6		10.9	

STA. 6+50.00

STA. 6+00.00

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

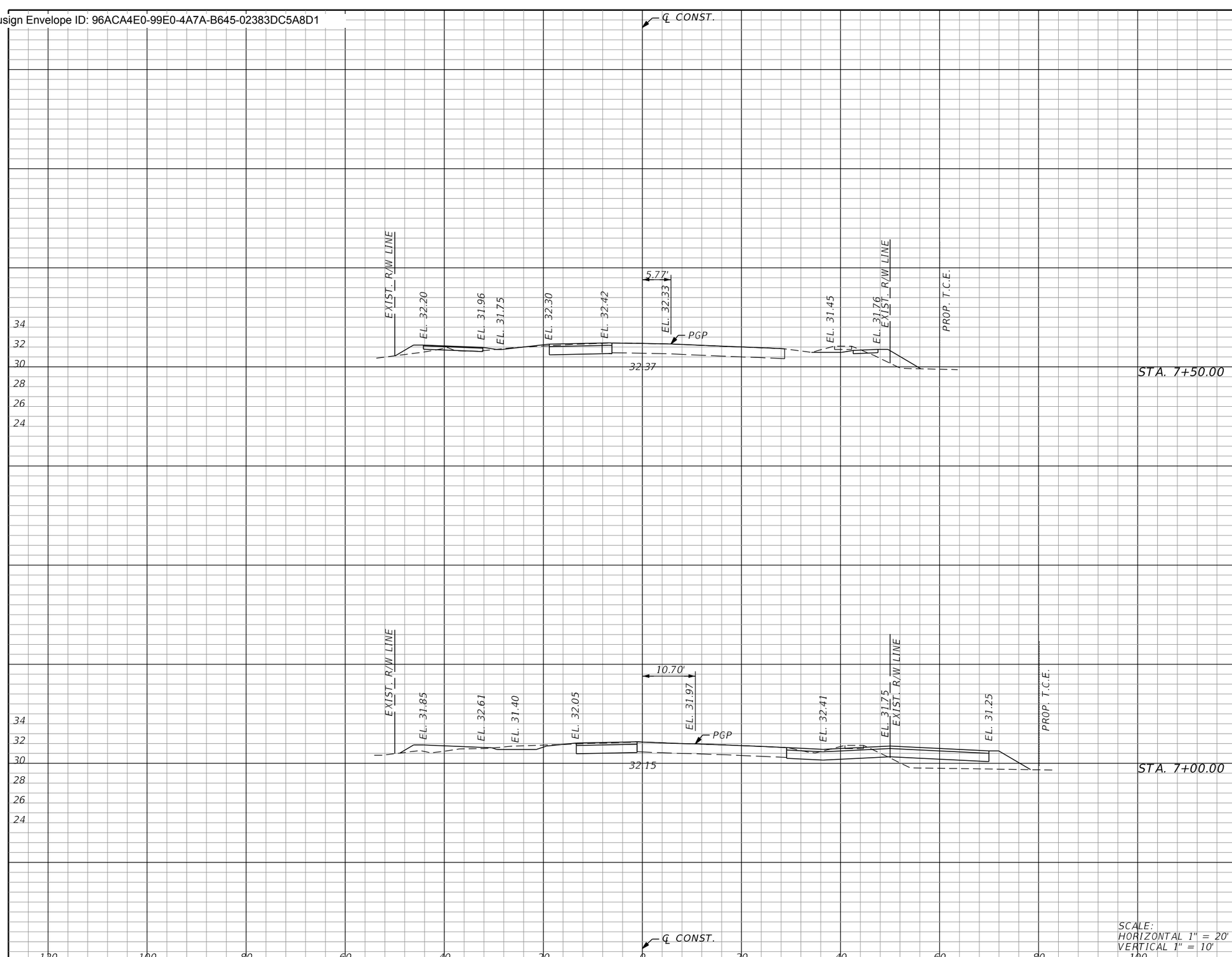
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
105

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment		
A	V	A	V	A	V	
	0.0		38.0		24.3	
0.0		16.8		12.4		STA. 7+50.00
	0.0		47.1		42.3	
0.0		34.1		33.3		STA. 7+00.00

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

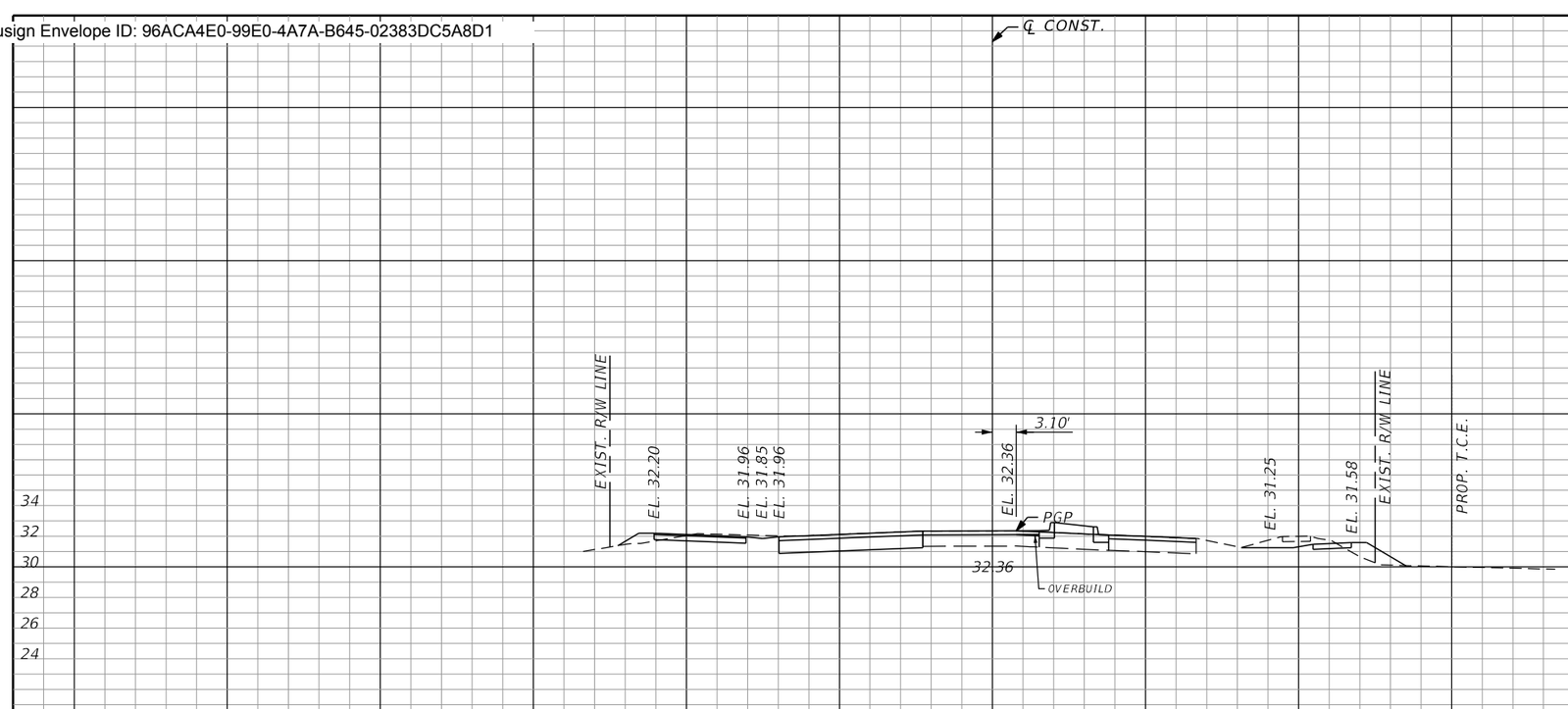
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

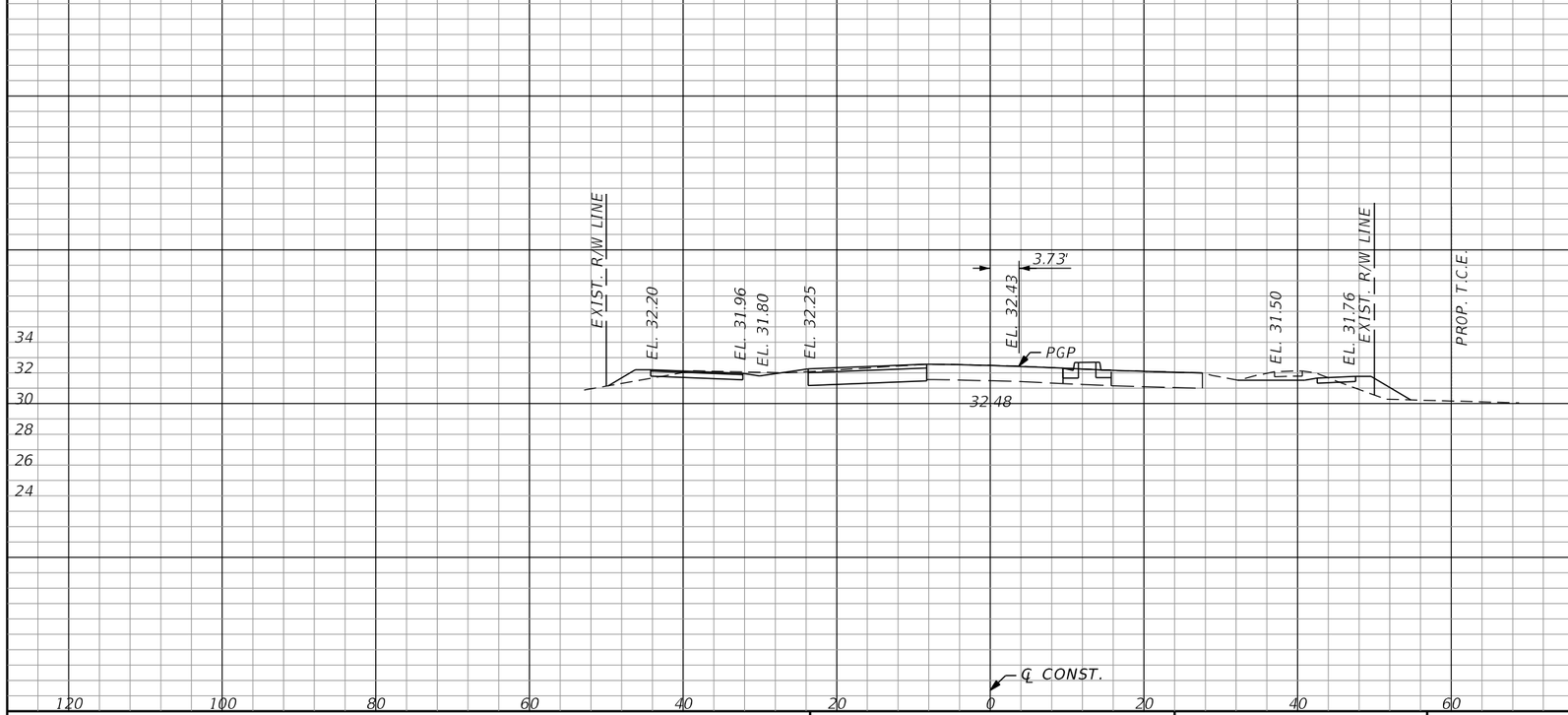
SHEET NO.
106

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



BEGIN OVERBUILD (RT)
STA 8+20.00

STA. 8+50.00



STA. 8+00.00

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	31.0	46.1	16.4	35.4
0.0	0.0	24.3	51.2	13.8	28.0

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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CROSS SECTIONS

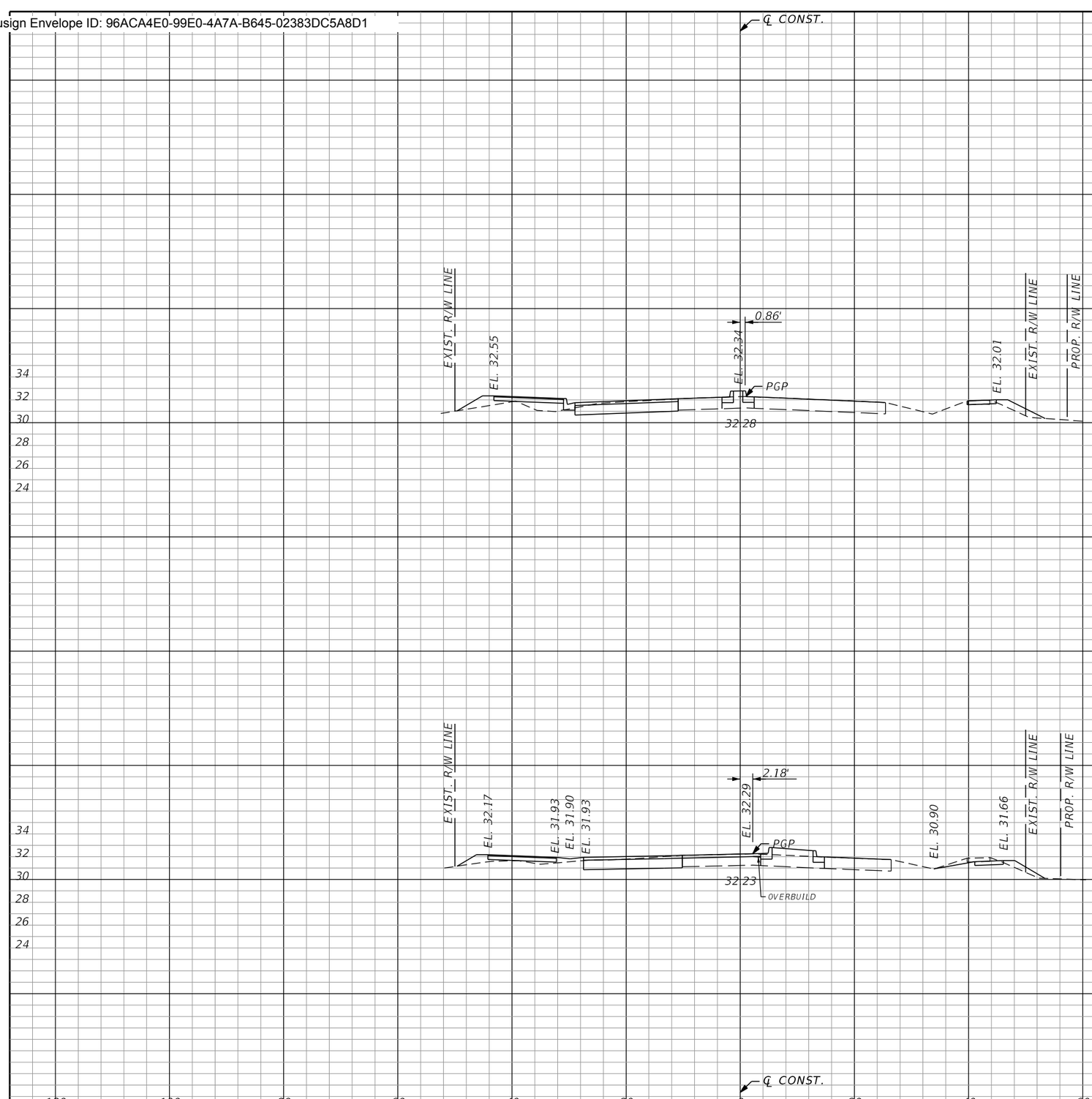
WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
107

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thompr 10/24/2023 9:29:03 AM Rdxsrd_shg Z:\Infra\2019\B190839.00 - William Burgess Corridor\CAD\19083915201\roadway\RDXSRD01.dgn

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



BEGIN OVERBUILD (LT)
STA 9+62.00

STA. 9+50.00

END OVERBUILD (RT)
STA 9+25.00

STA. 9+00.00

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		41.9		17.8
0.0		18.1		13.1	
	0.0		34.1		32.3
0.0		18.8		21.8	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

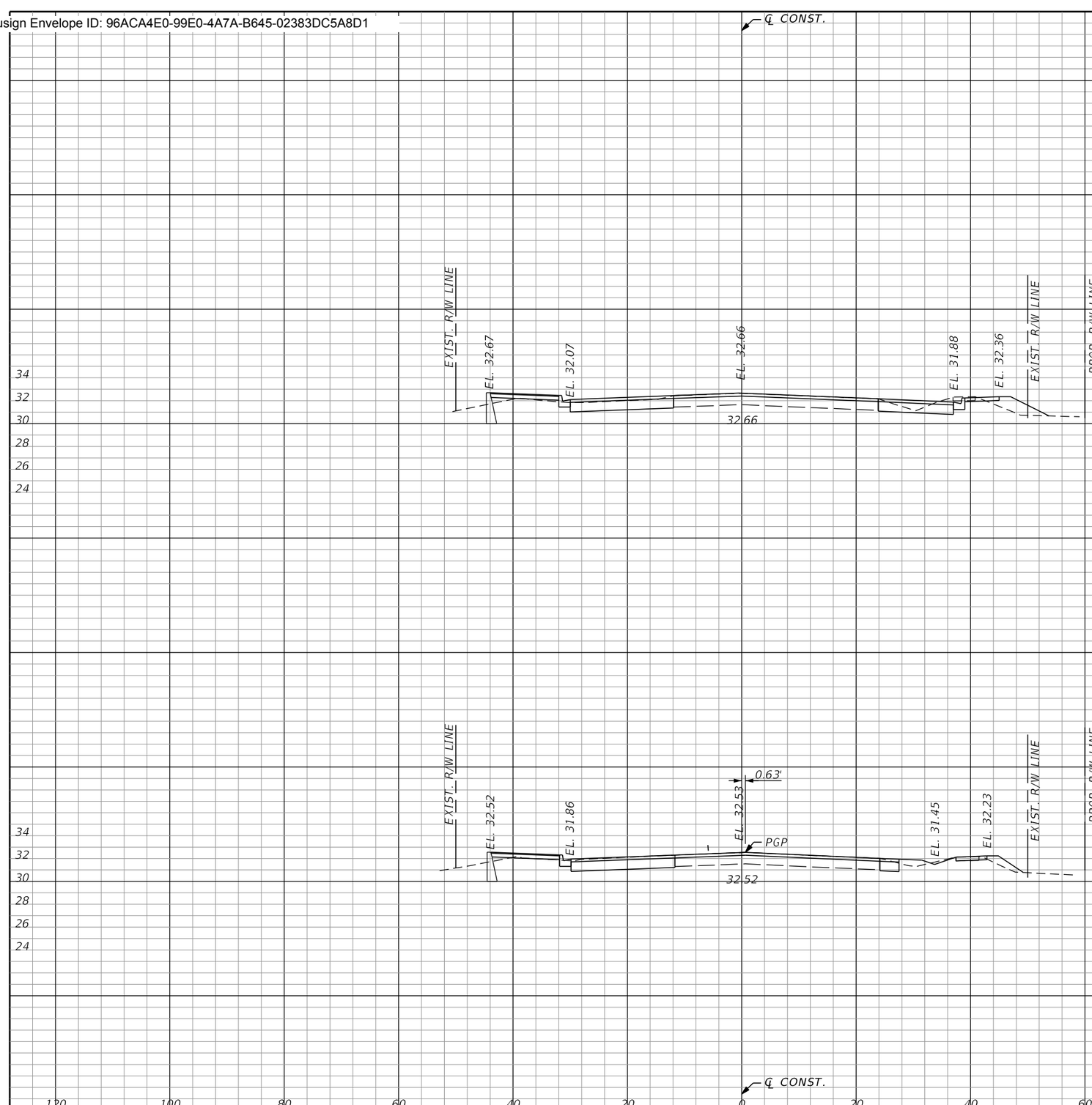
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
108

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		55.0		18.8
0.0		30.7		9.1	
	0.0		53.6		14.1
0.0		27.2		6.1	

STA. 10+50.00

STA. 10+00.00

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

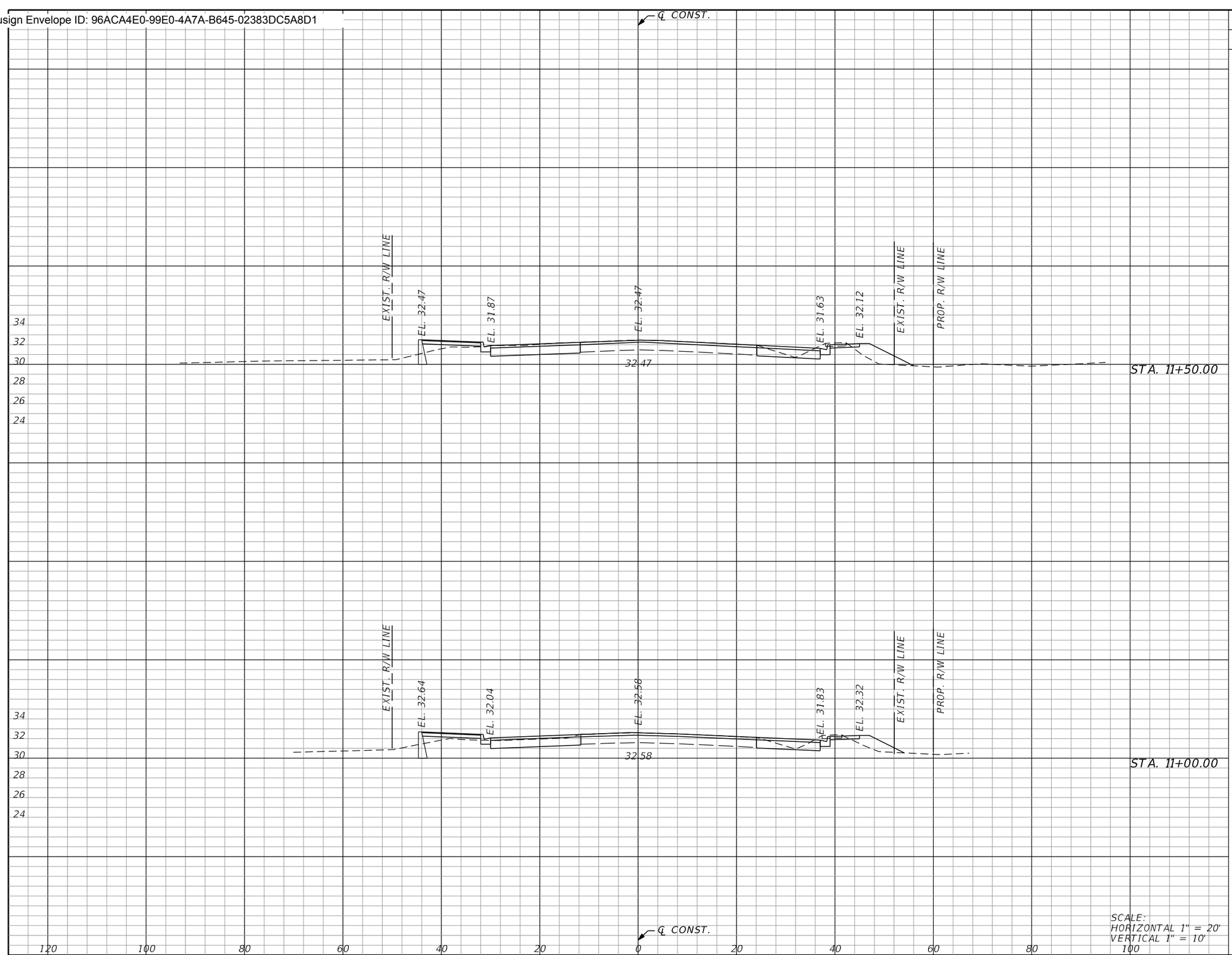
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
109

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	32.9	55.5	15.3	29.3
0.0	0.0	28.7	57.1	11.2	24.8

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

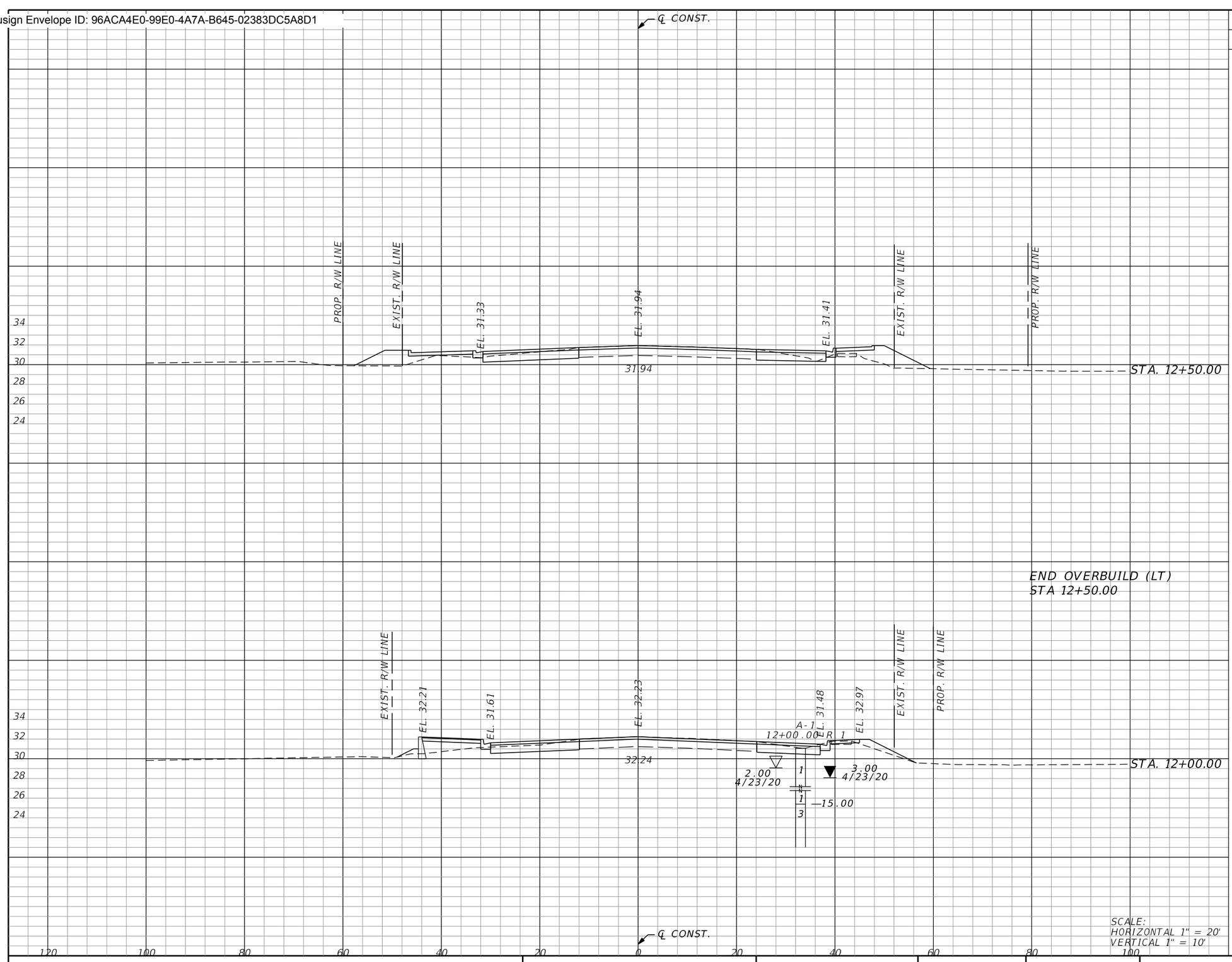
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
110

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	23.7	22.0	34.9	32.3
0.0	0.0	37.0	47.0	16.3	47.4

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
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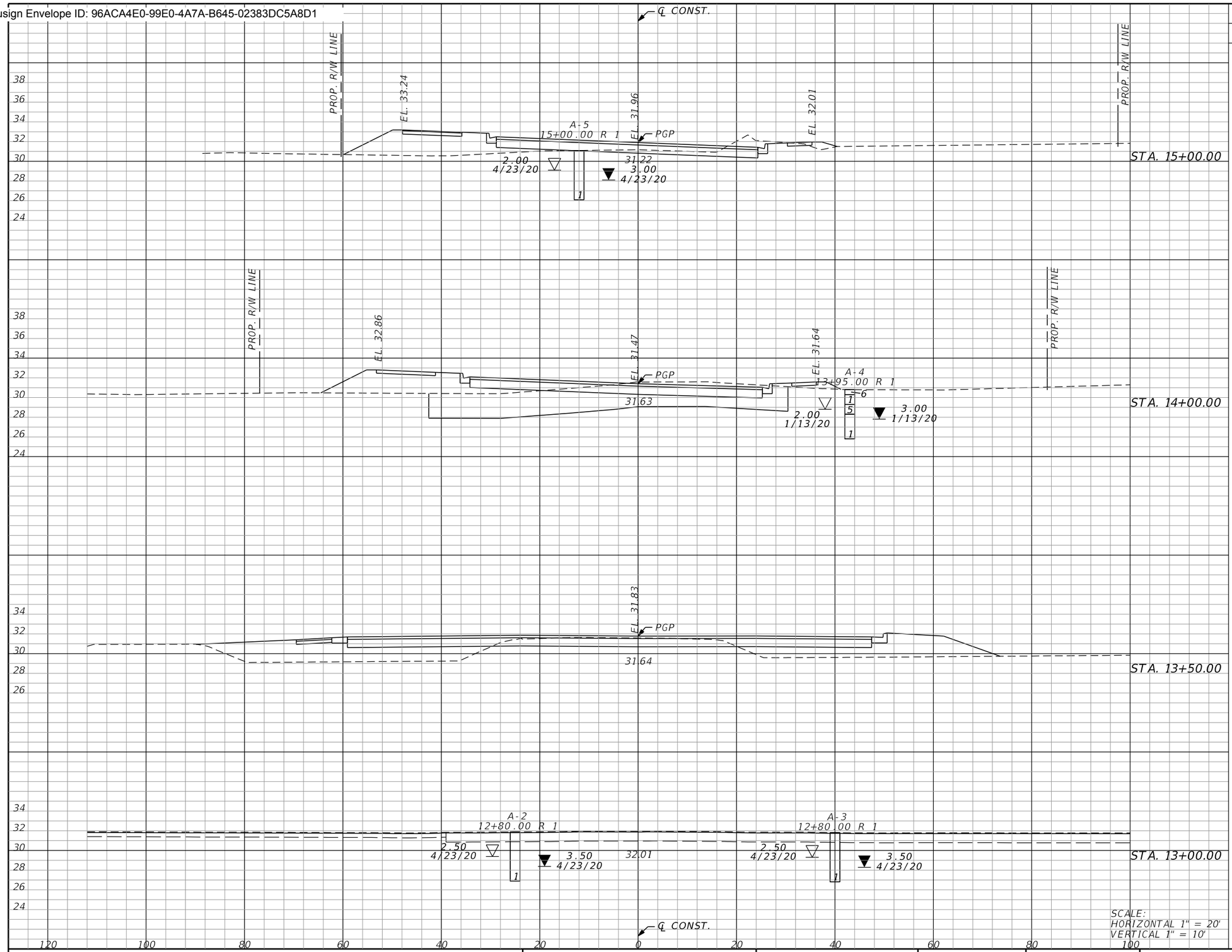
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
111

thompr 10/24/2023 9:29:03 AM Rdxsrd_shg Z:\Infra\2019\B190839.00 - William Burgess Corridor\CAD\19083915201\roadway\RDXSRD01.dgn

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	336.9	24.0	44.4	63.1	231.0
182.0	168.5	0.0	33.9	61.6	203.2
0.0	0.0	36.6	33.9	157.8	146.1
0.0		0.0		0.0	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

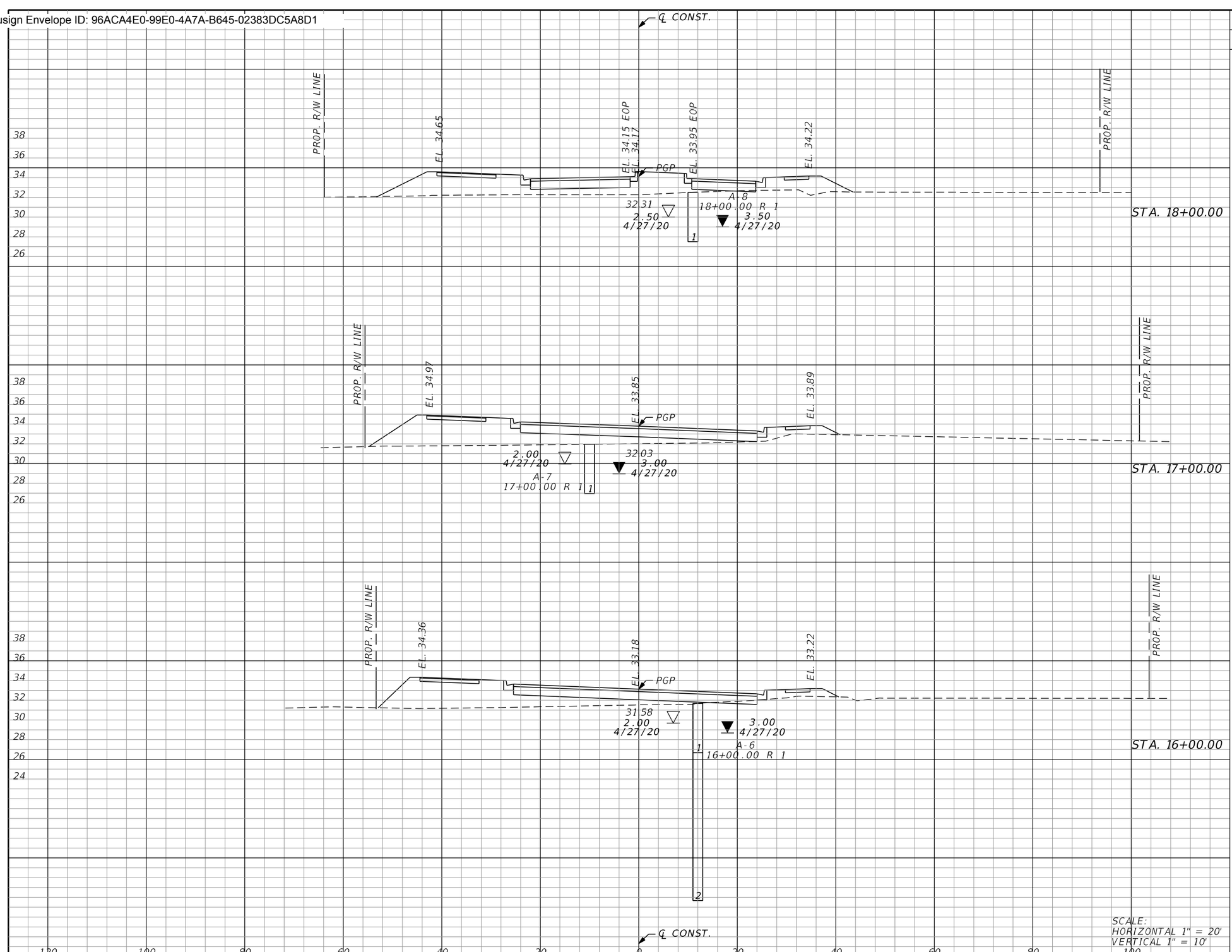
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
112

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	0.4	2.8	93.7	264.2
0.0	0.0	0.8	0.8	113.0	382.9
0.0	0.0	2.1	4.0	101.4	397.1
0.0	0.0	0.0	0.0	48.3	304.7

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
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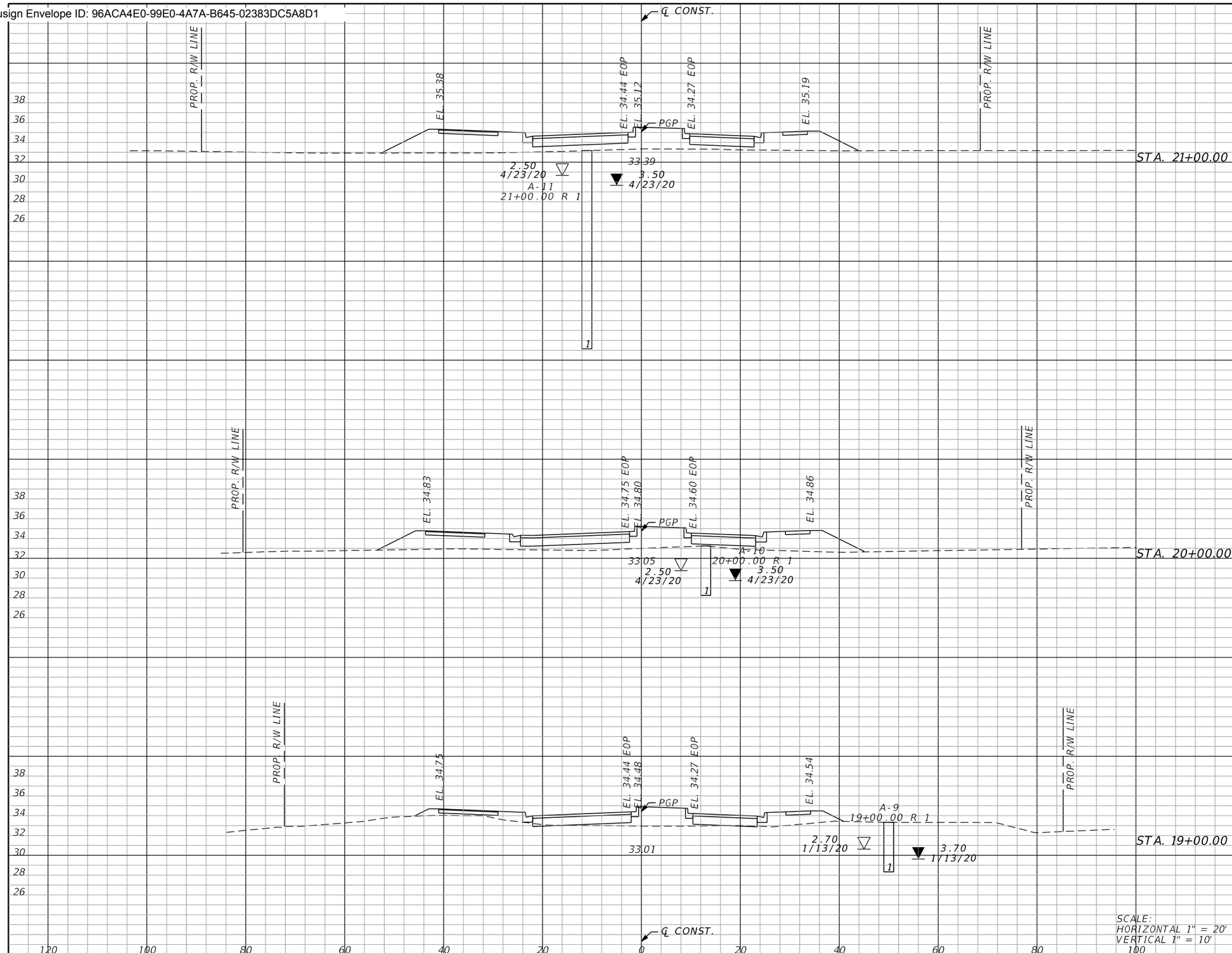
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
113

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	0.0	0.0	119.7	442.7
0.0	0.0	0.0	0.0	107.7	421.1
0.0	0.0	0.0	2.0	290.1	
0.0		1.1		49.0	

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

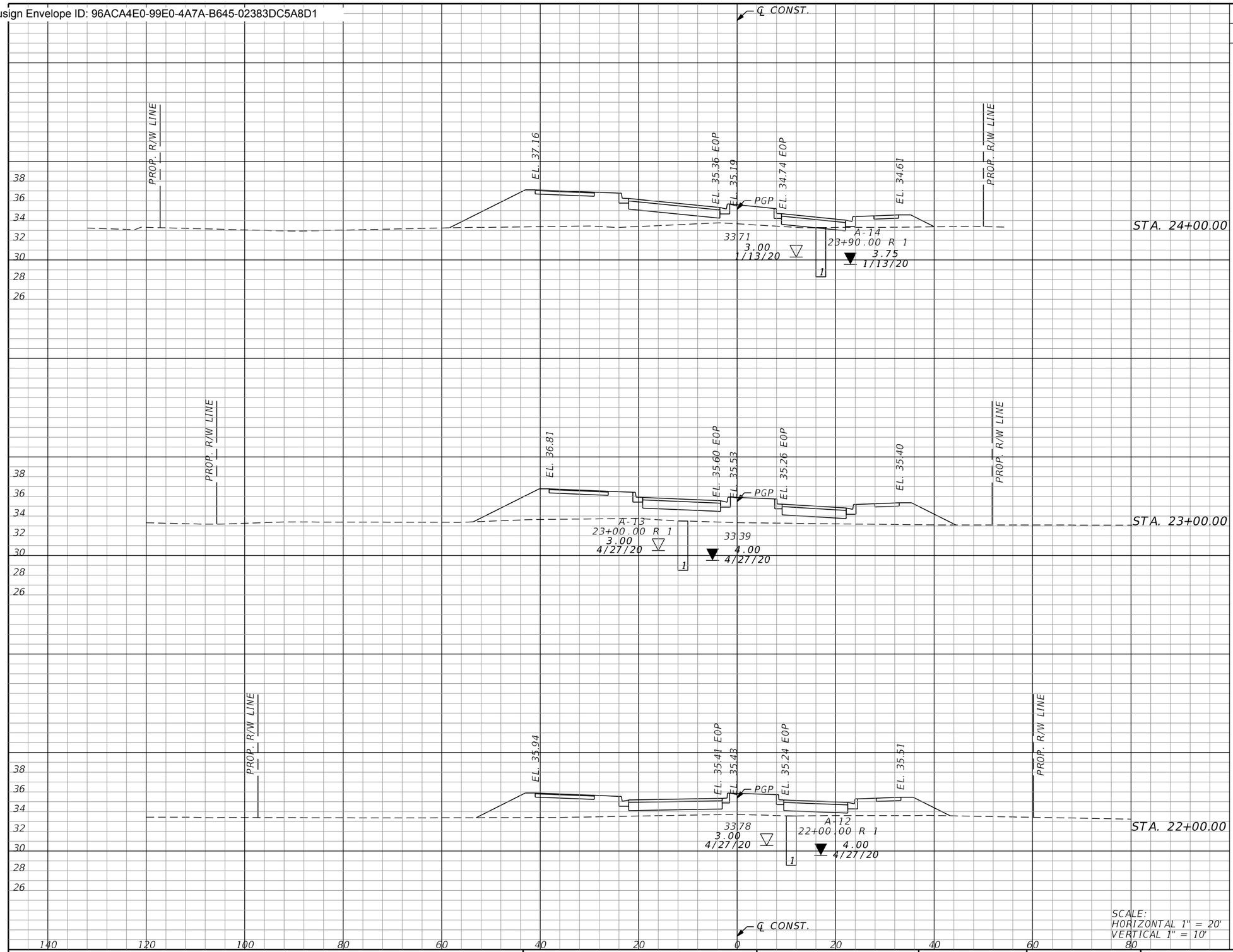
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
114

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	1.1	14.8	153.2	515.8
	0.0		2.1		585.3
0.0	0.0	0.0	0.0	162.8	522.6
0.0	0.0	0.0	0.0	119.4	

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APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

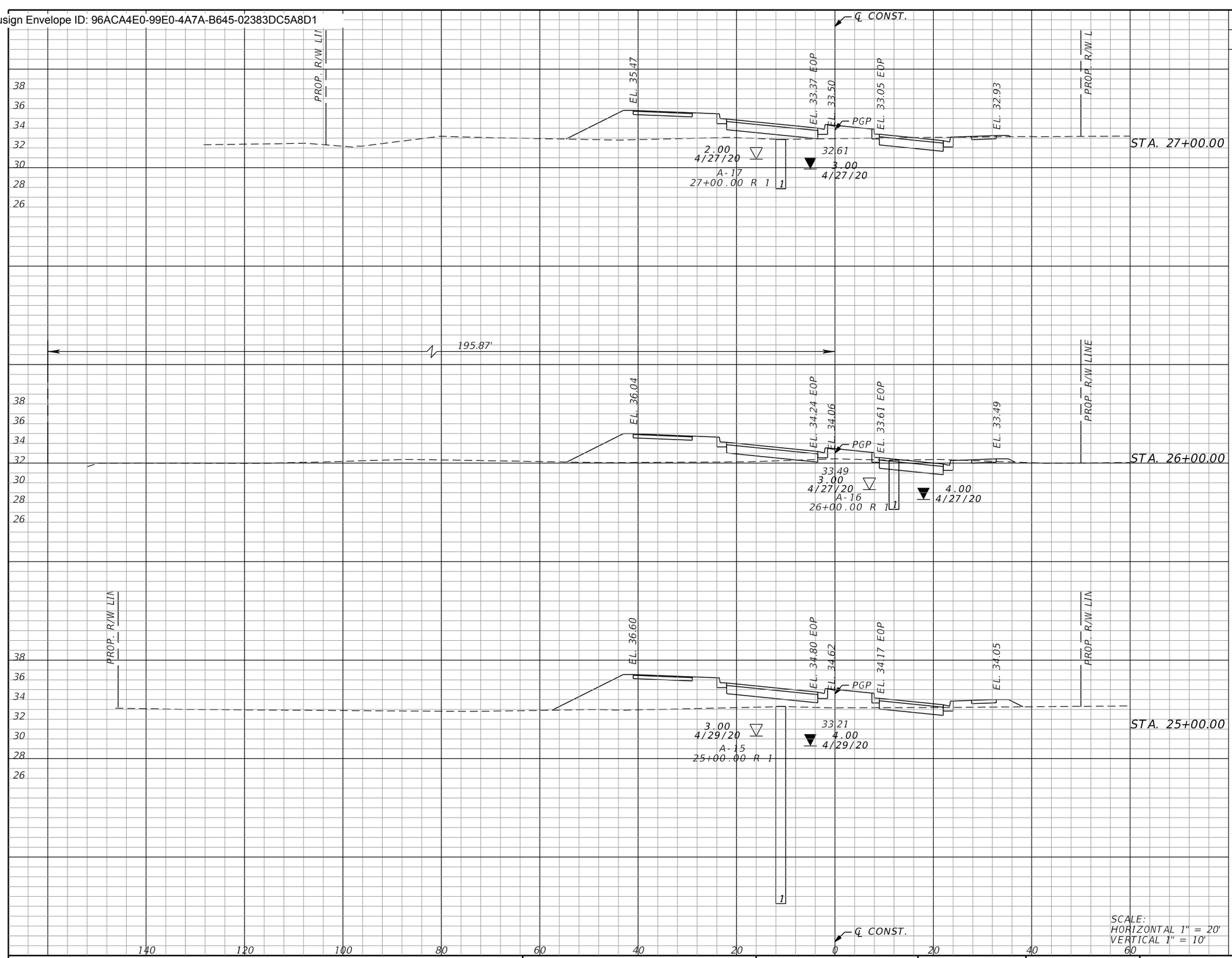
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
115

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0		17.1		82.4	
	0.0		66.6		297.5
0.0		18.9		78.2	
	0.0		47.6		376.9
0.0		6.9		125.3	

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
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B190839.00

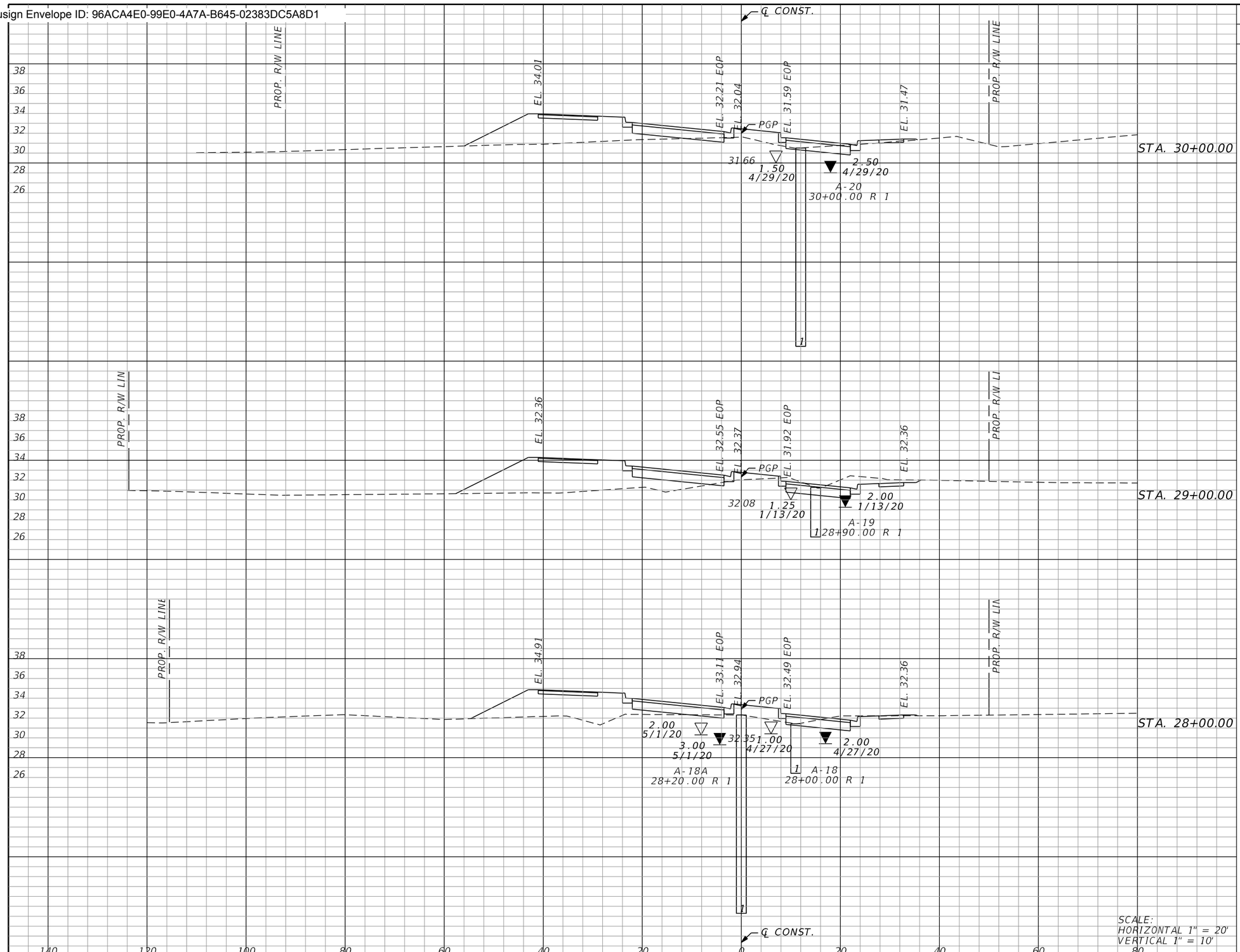
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
116

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		57.9		393.3
0.0		10.3		84.9	
	0.0		73.3		350.8
0.0		29.3		104.5	
	0.0		82.4		341.6
0.0		15.2		80.0	
	0.0		59.8		300.7

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

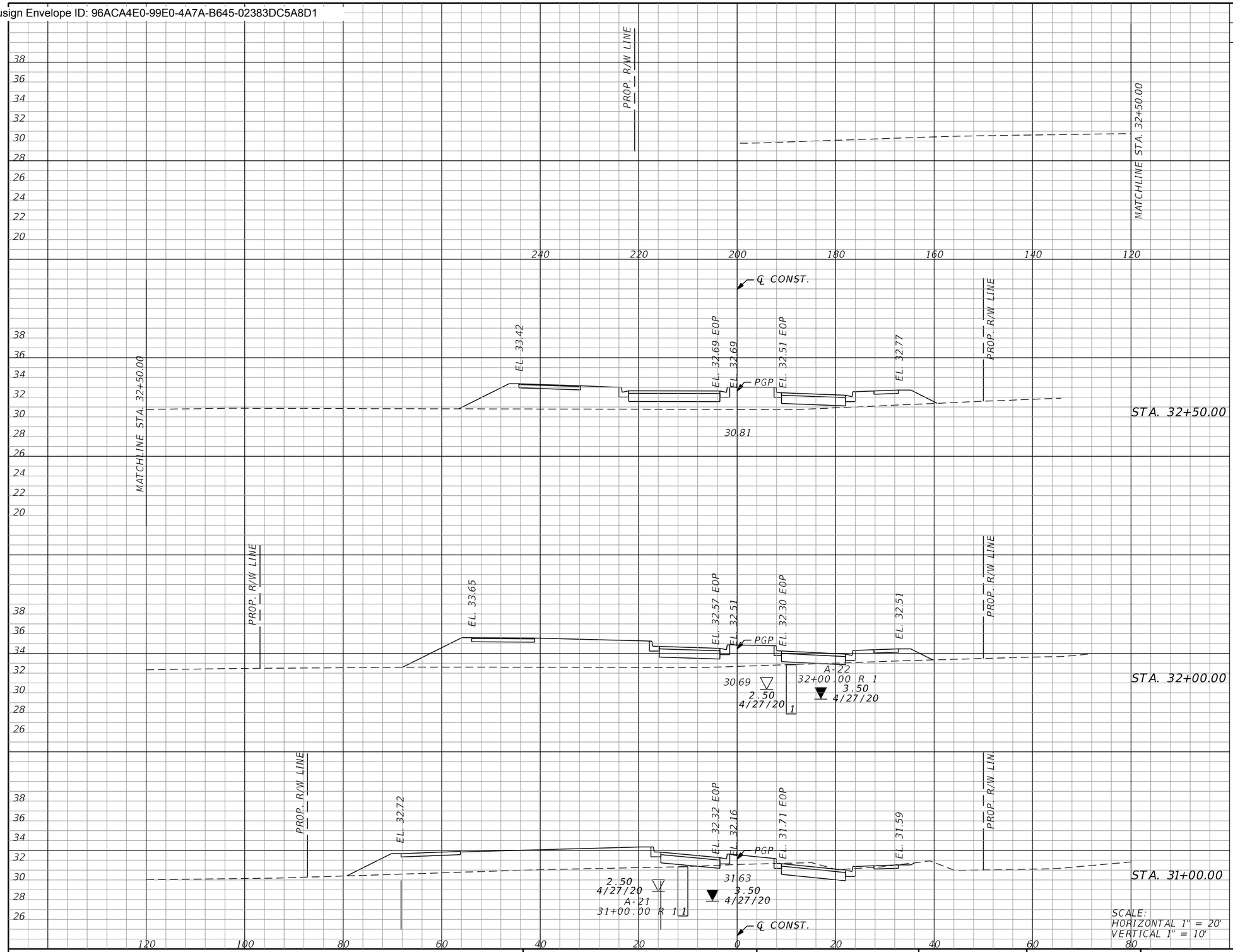
This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
117

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0		0.0		119.0	
	0.0		0.5		273.6
0.0		0.5		176.5	
	0.0		39.7		562.9
0.0		21.0		127.5	

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

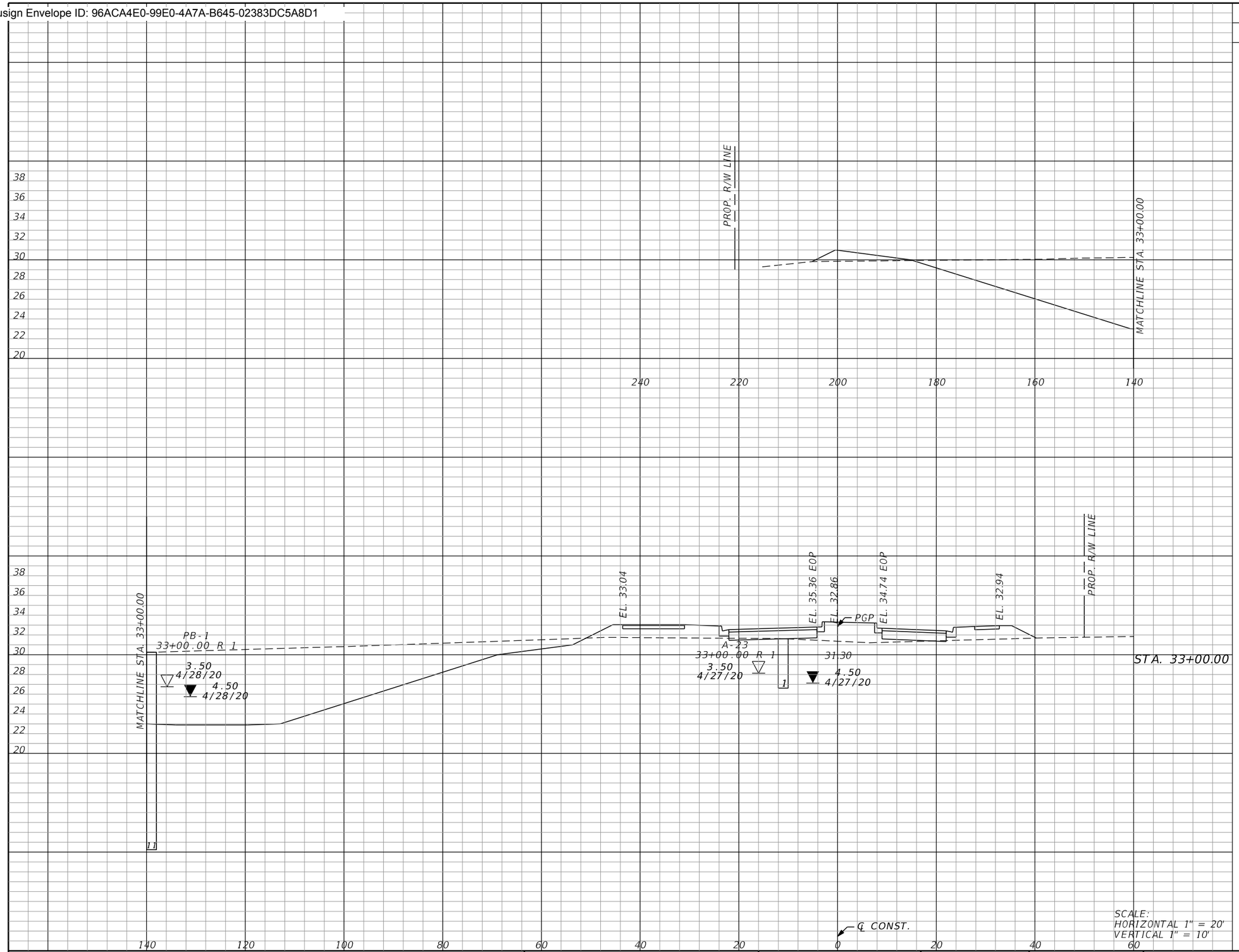
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 118

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	581.7	538.6	77.9	182.4

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

SCALE: AS SHOWN PROJECT NO / DRAWING NO.
B190839.00

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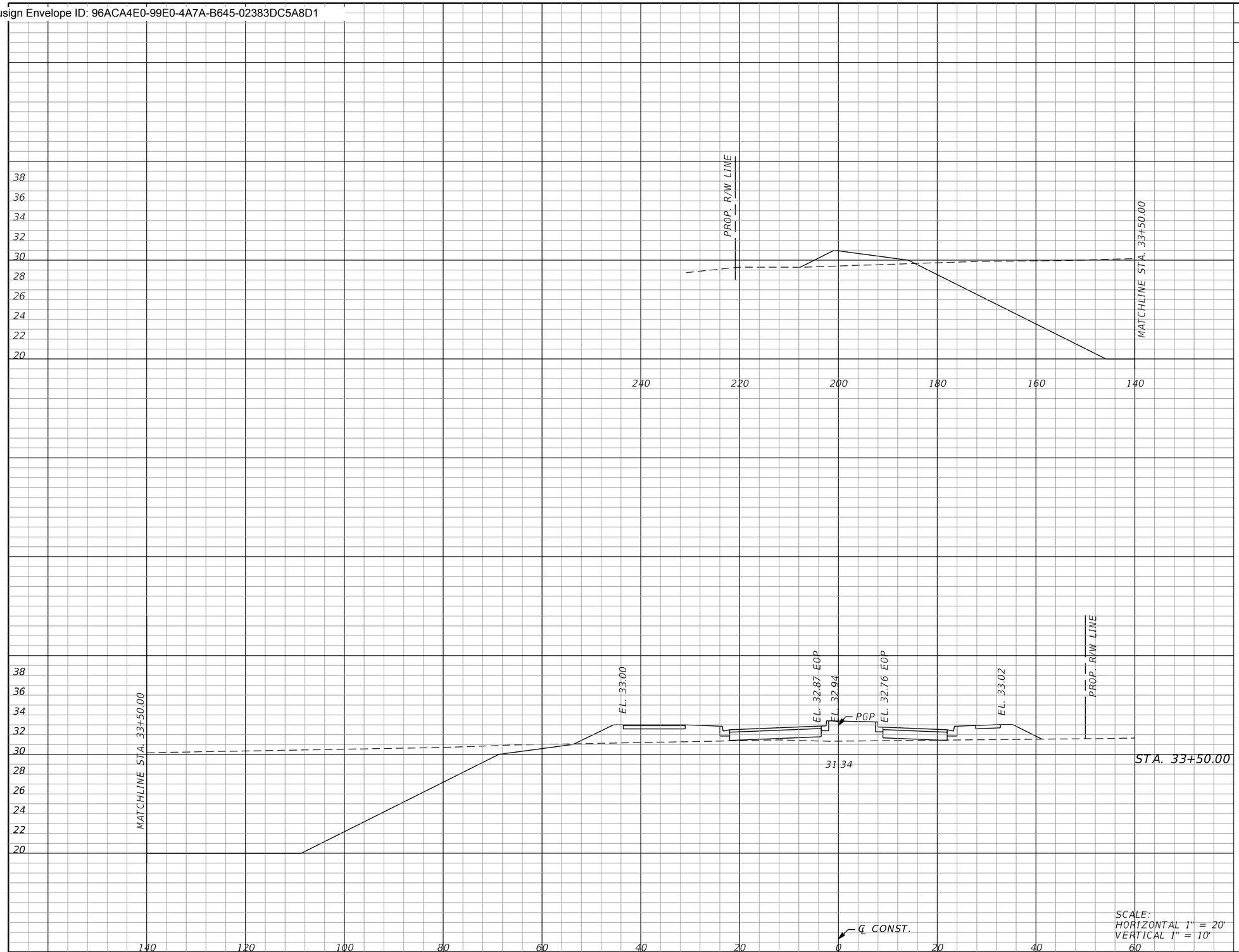
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 119

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		810.0		91.4
	0.0		1288.6		156.8

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

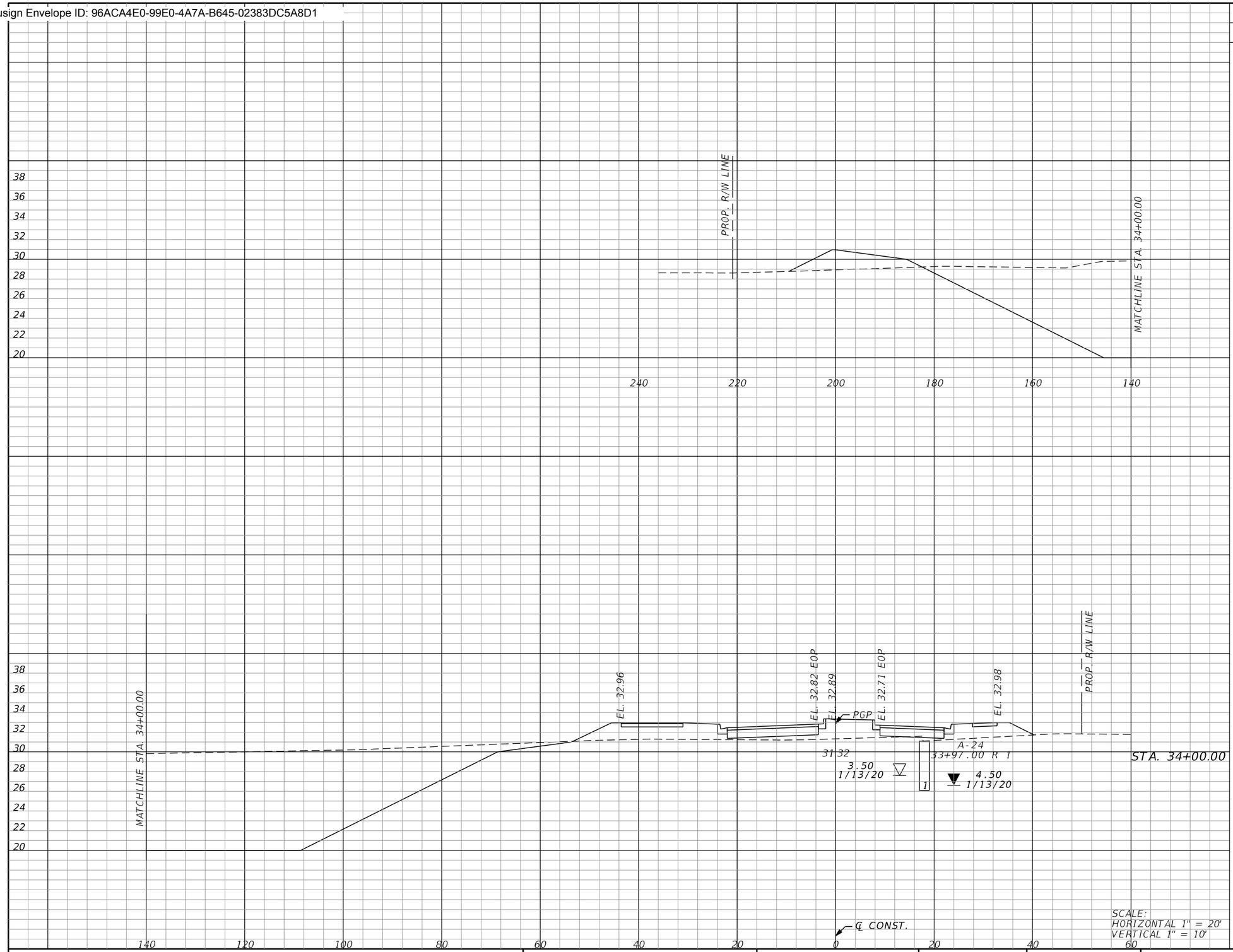
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
120

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	762.0	1455.6	119.5	195.3

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

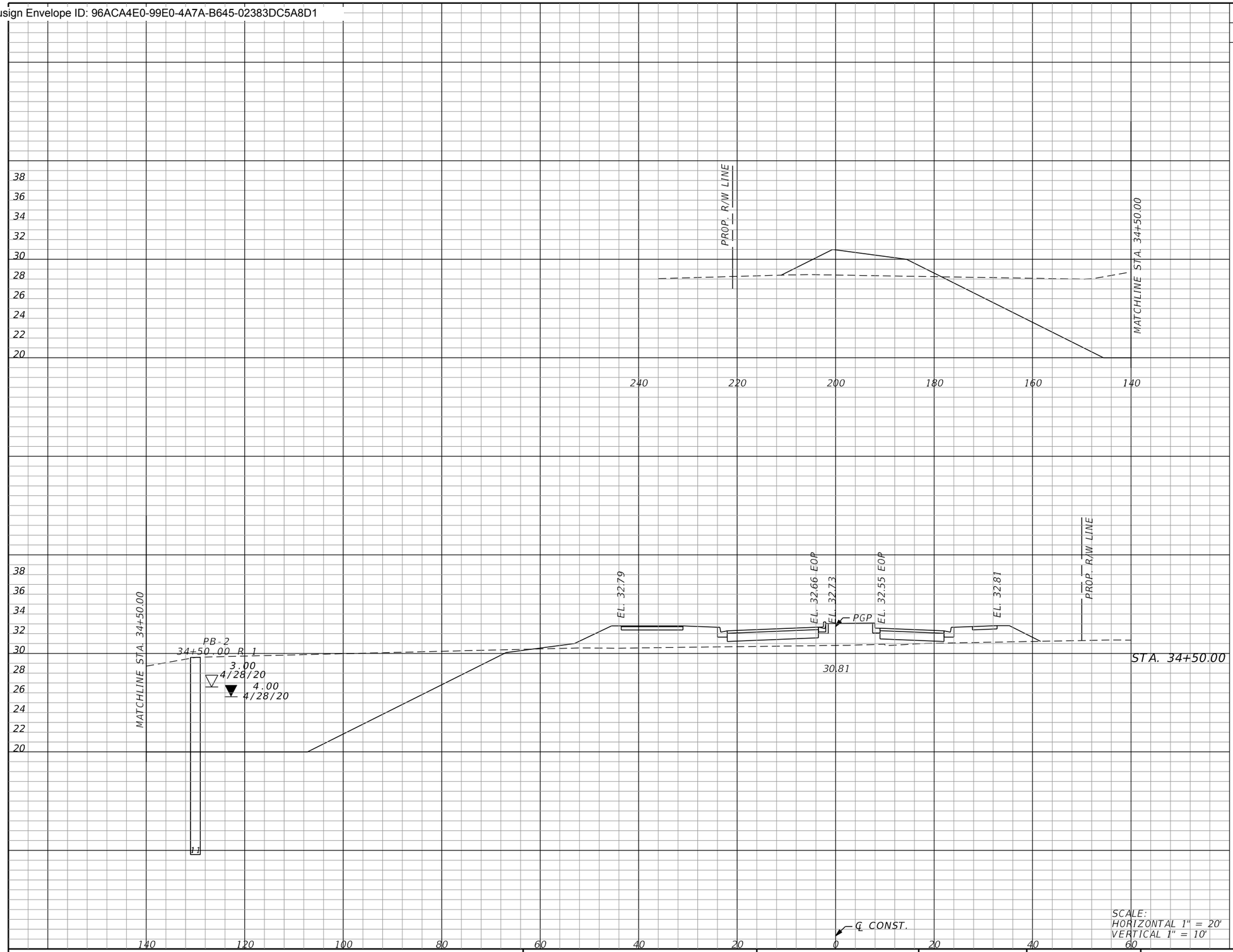
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
121

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	697.7	1351.6	173.8	271.6

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

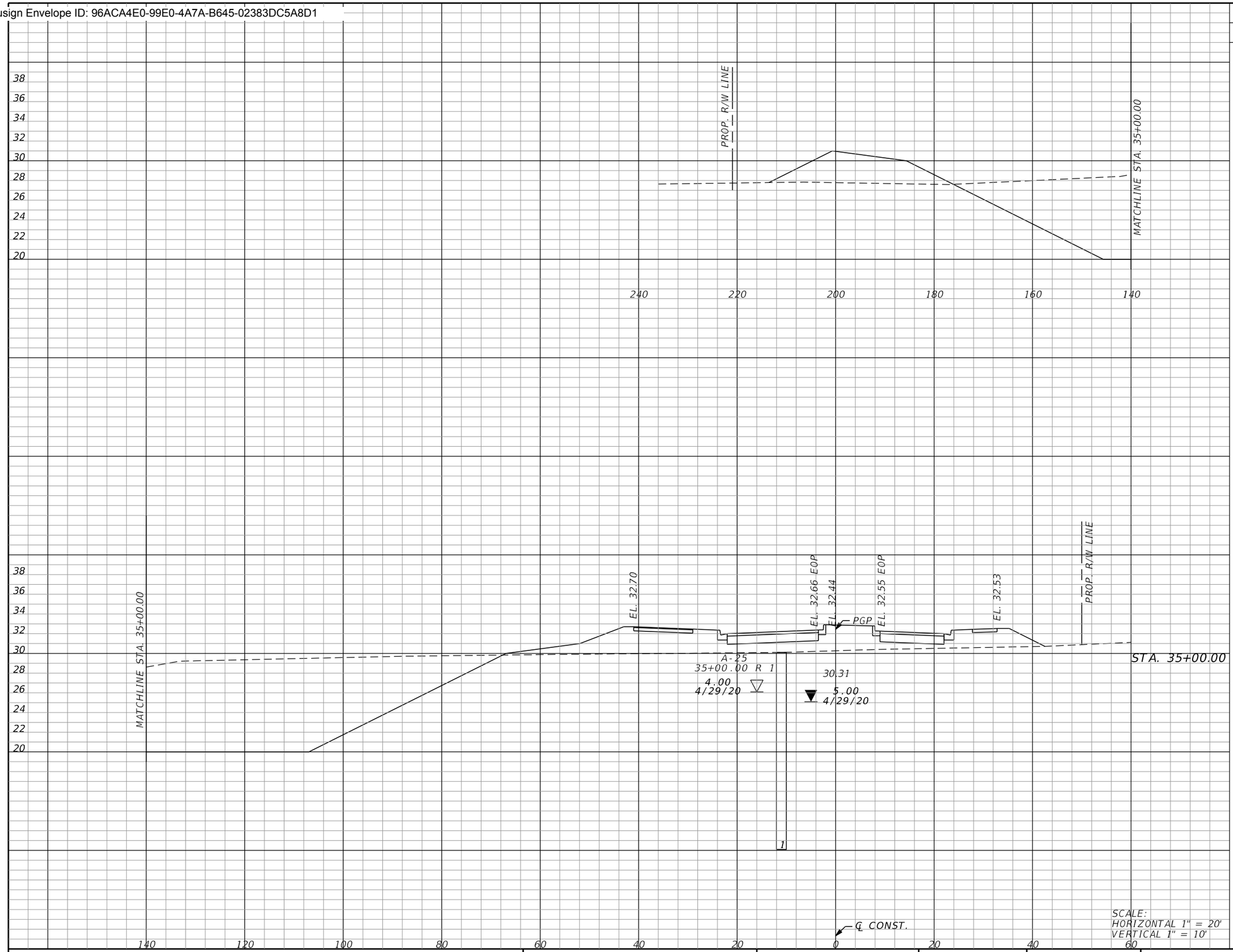
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
122

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		668.0		228.8
	0.0		1264.6		372.8

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

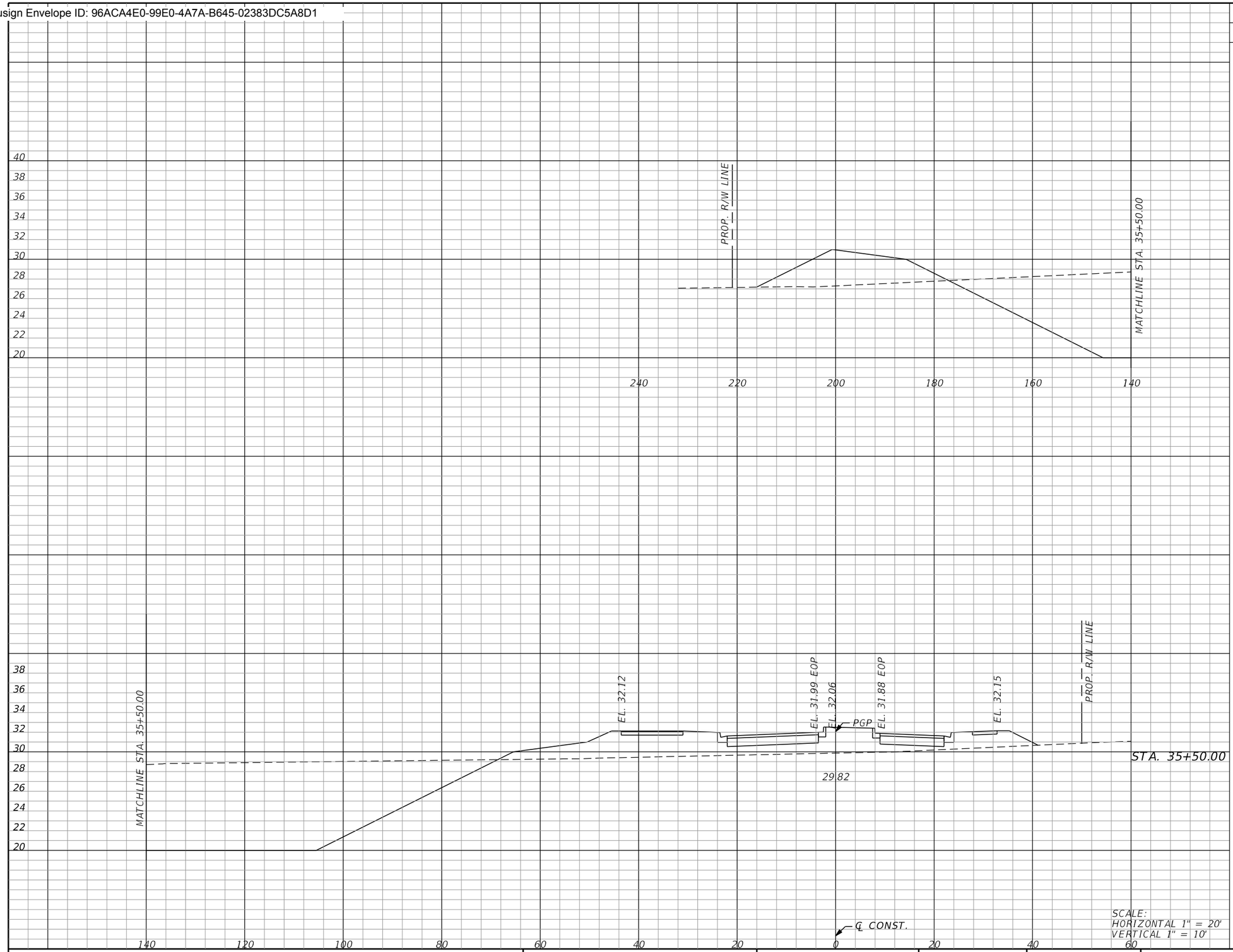
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
123

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		656.4		246.1
	0.0		1226.3		439.7

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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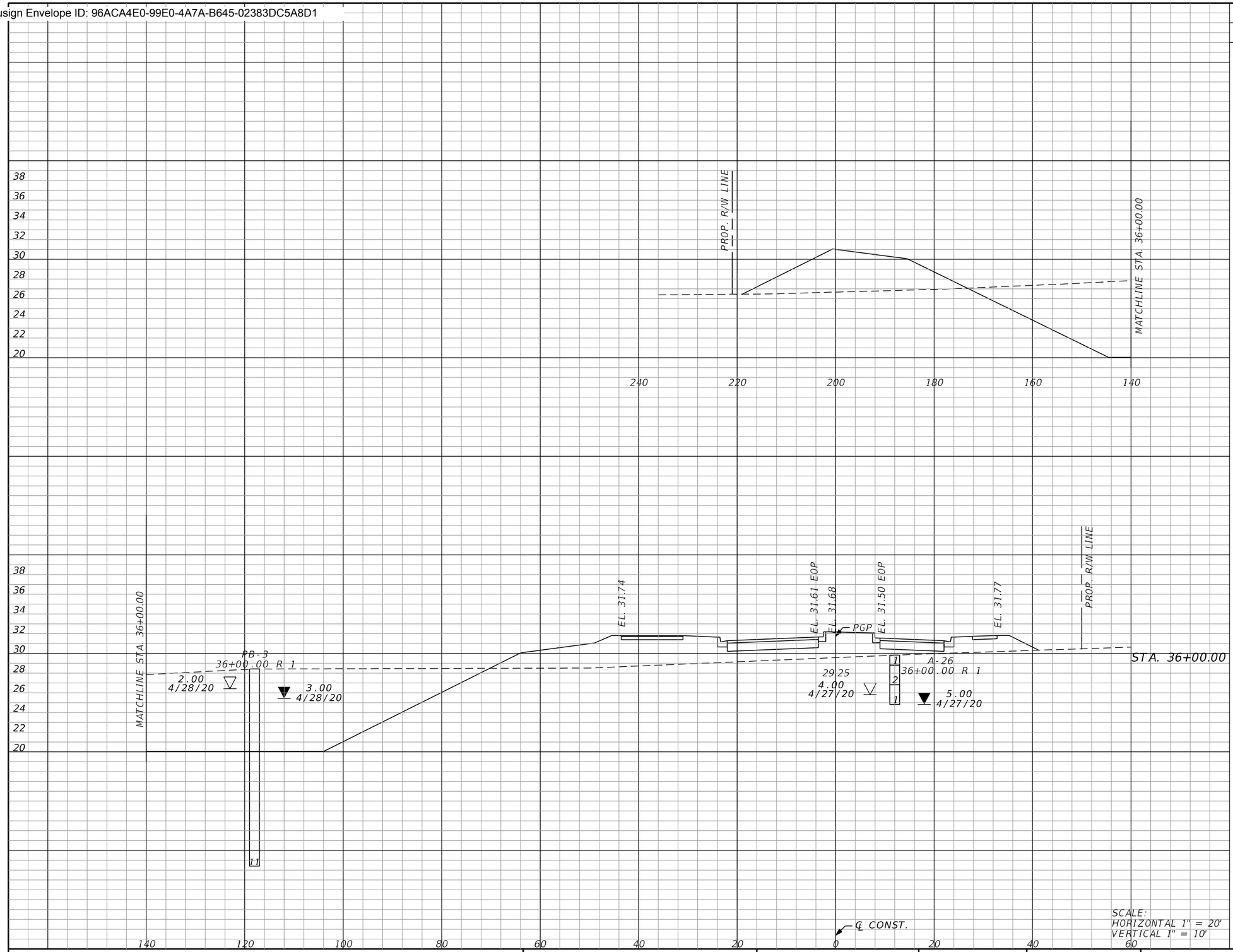
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NASSAU COUNTY, FLORIDA

SHEET NO.
124

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		581.9		301.6
	0.0		1146.6		507.1

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

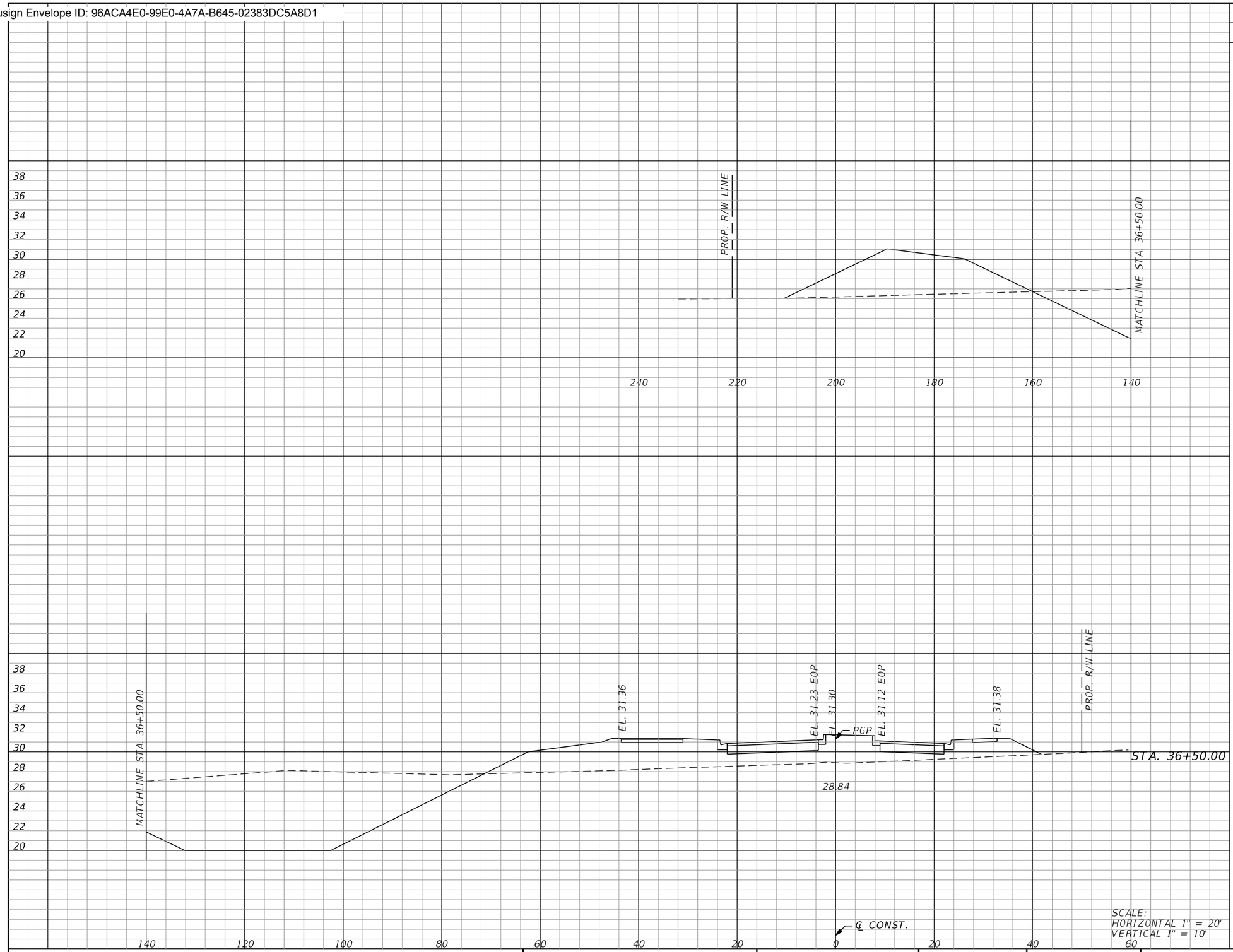
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
125

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		453.3		347.2
	0.0		958.5		600.7

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

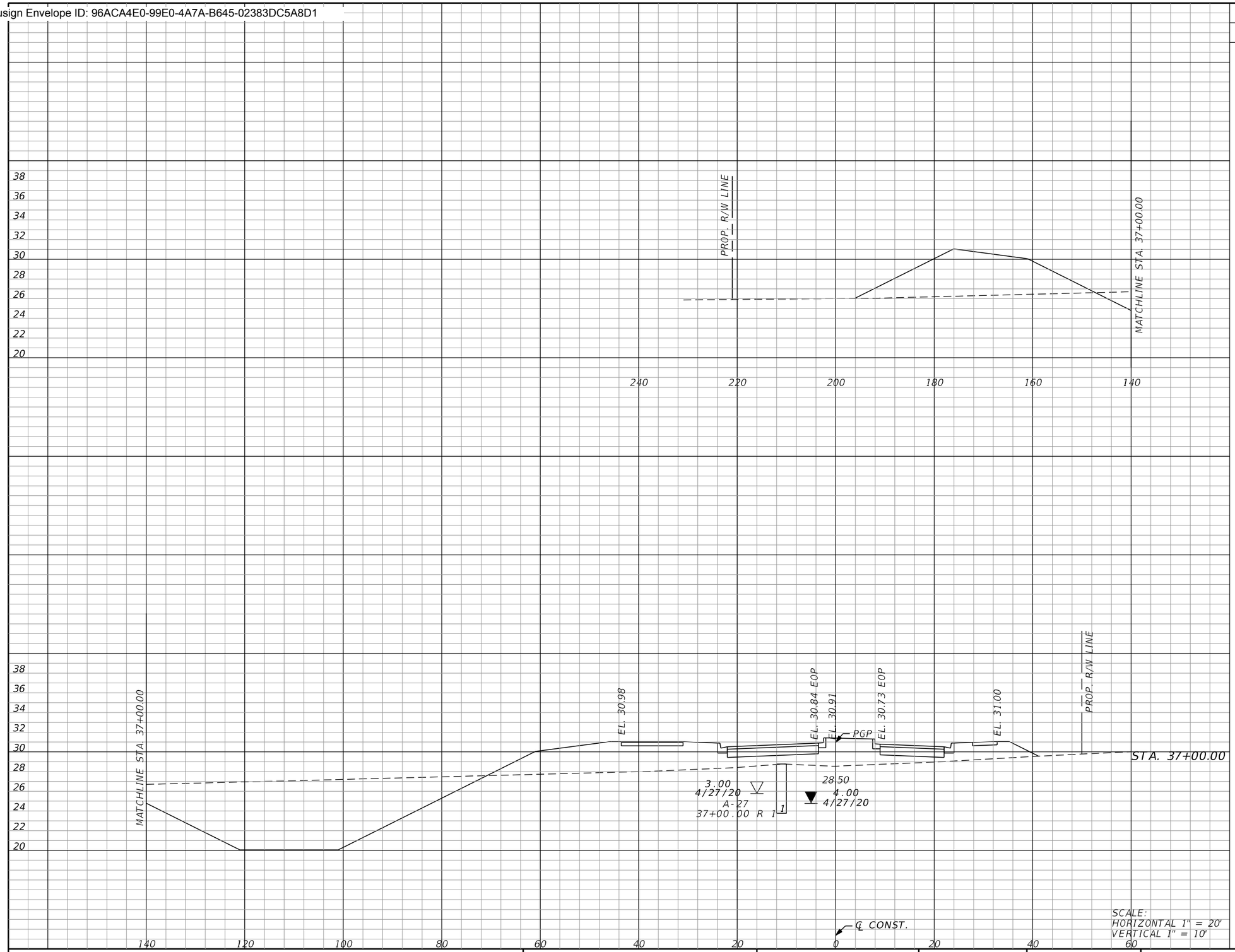
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
126

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	338.4	733.1	334.7	631.4

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

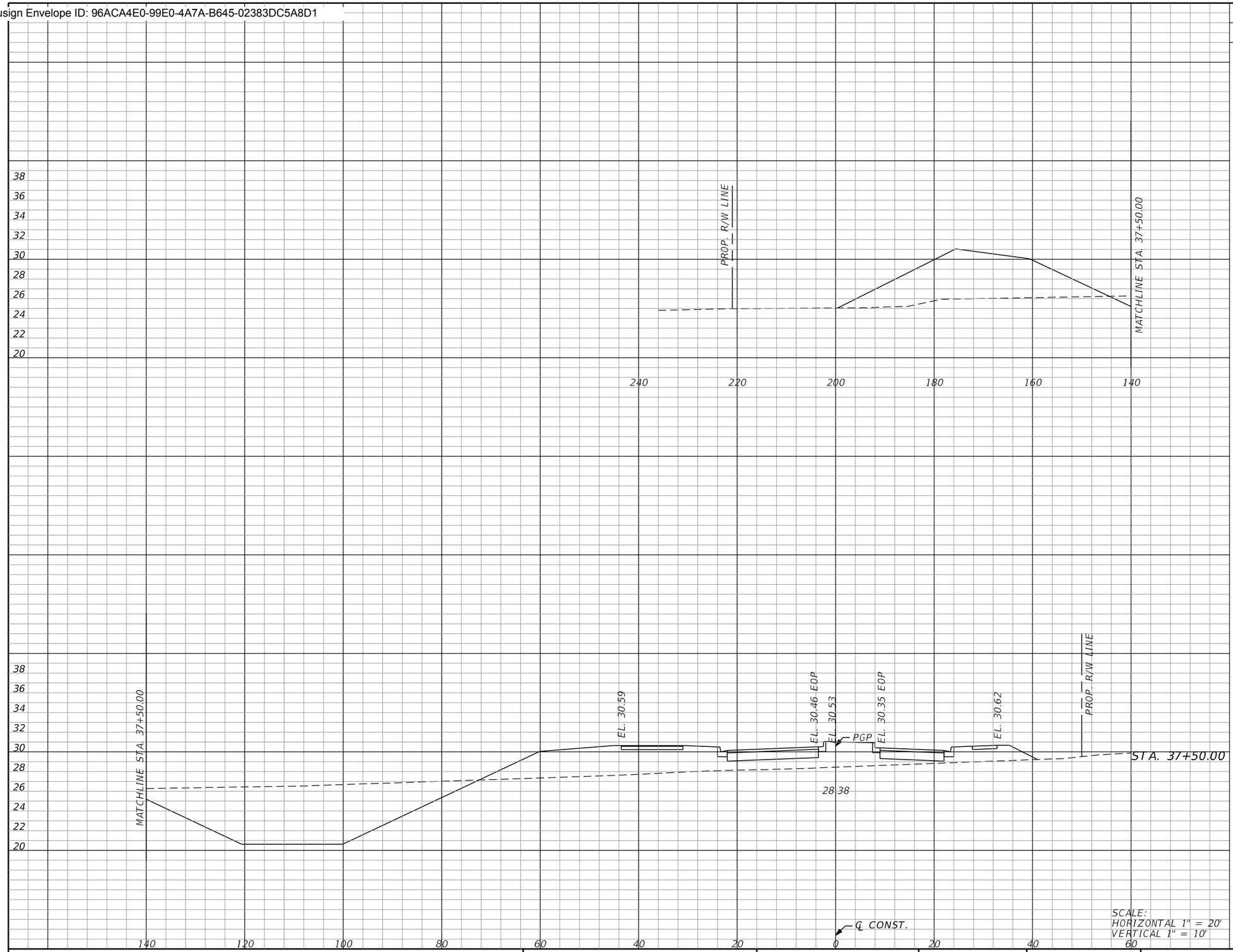
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
127

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		274.0		354.8
	0.0		567.1		638.4

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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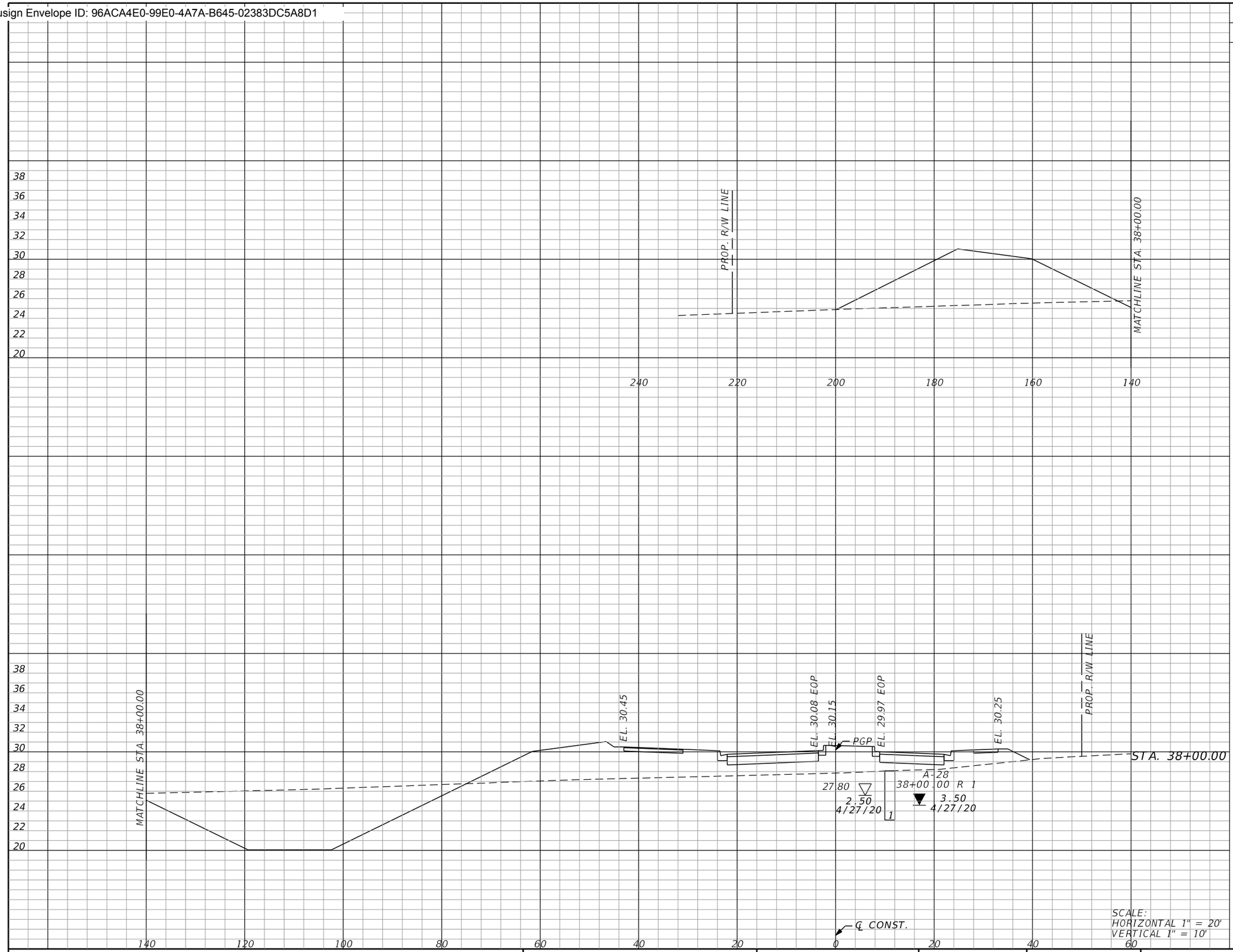
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
128

thompr 10/24/2023 9:29:06 AM Rdxsrd_shg Z:\Infra\2019\B190839.00 - William Burgess Corridor\CAD\19083915201\roadway\RDXSRD01.dgn

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		258.6		404.7
	0.0		493.1		703.3

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DATE:	10/24/2023
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APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

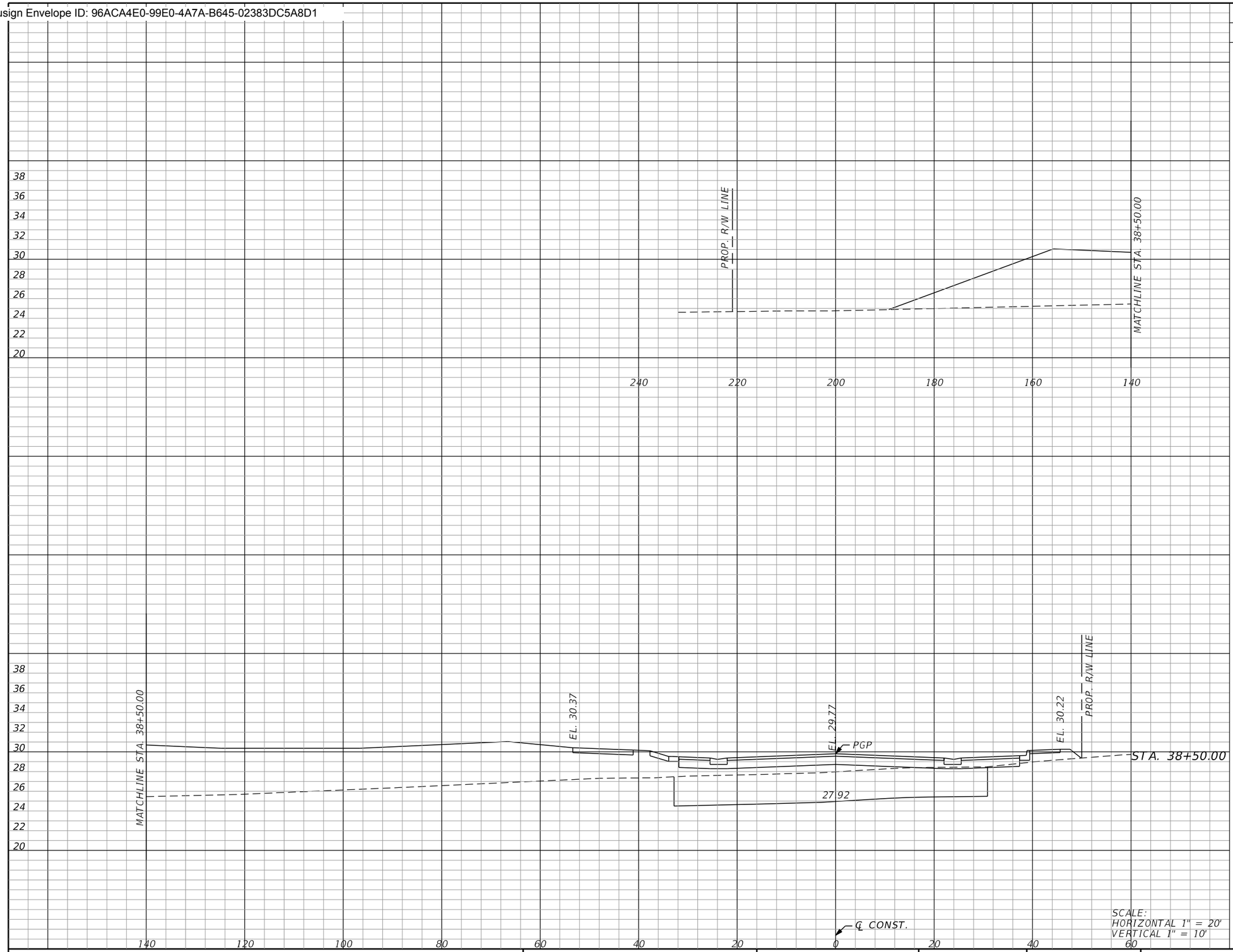
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
129

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	191.1		0.0		657.3
	176.9		239.4		983.4

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

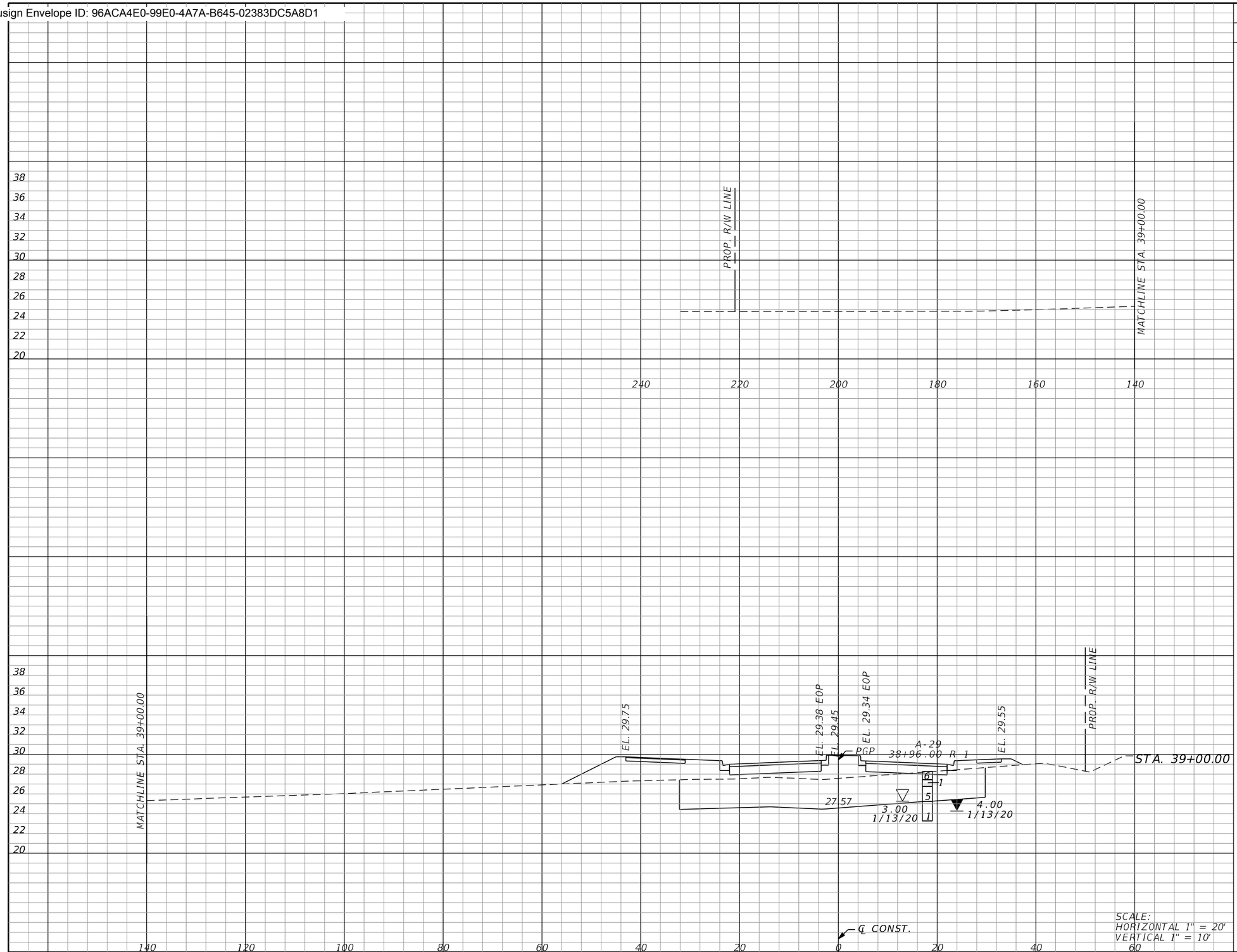
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
130

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	184.5		0.0		94.0
	347.7		0.0		695.7

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DATE:	10/24/2023
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APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

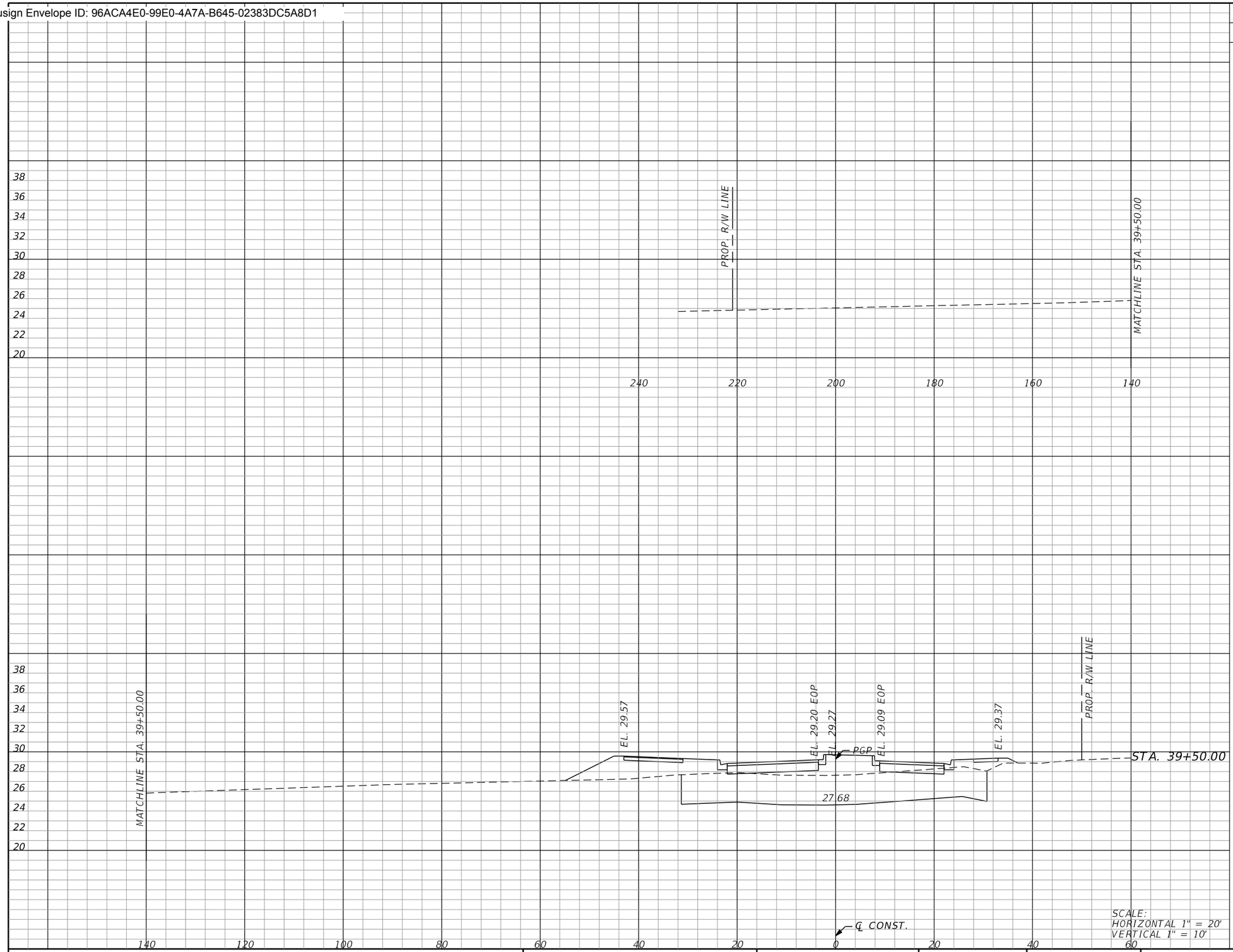
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
131

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	186.7		0.0		80.8
	343.7		0.0		161.9

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

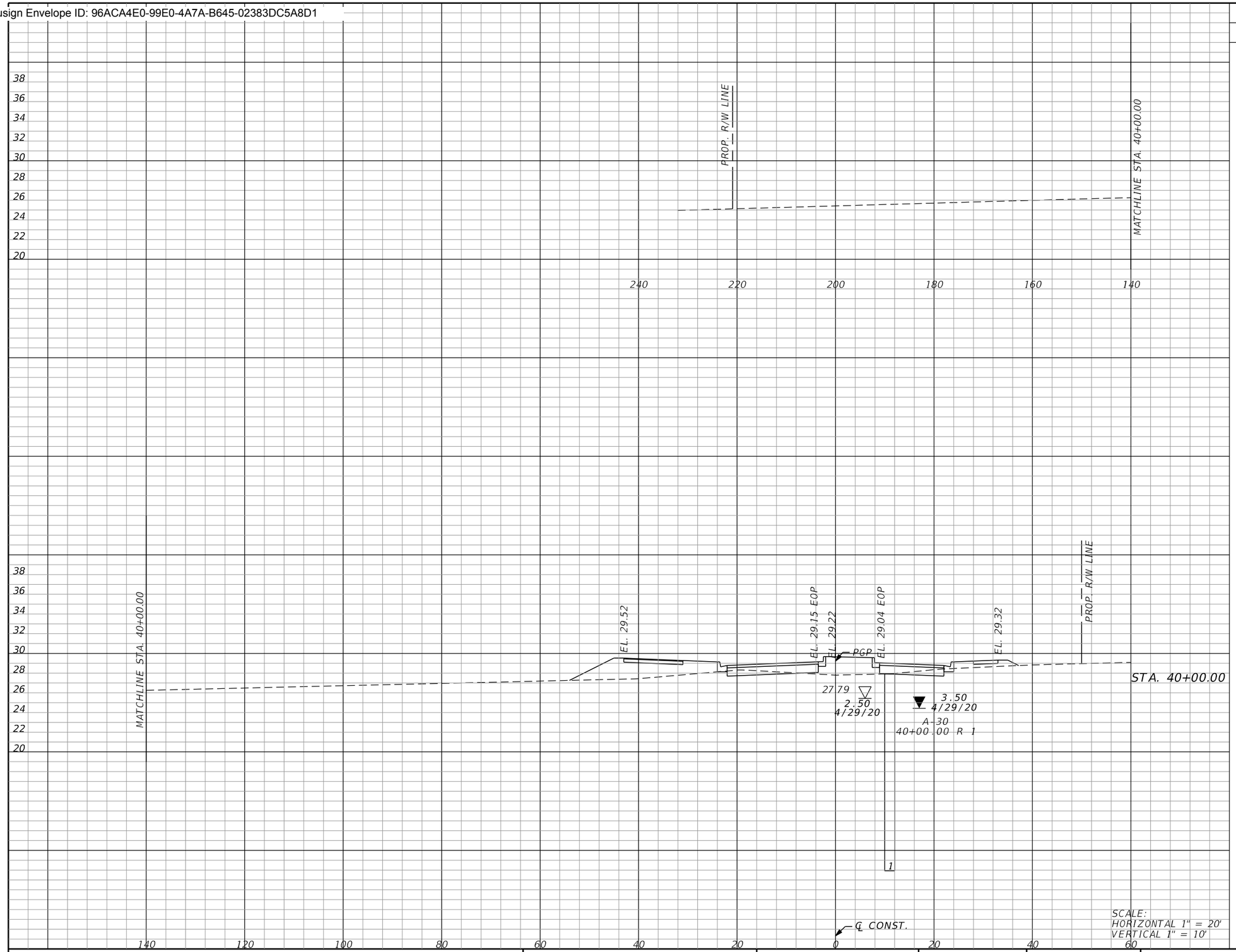
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
132

thompr 10/24/2023 9:29:06 AM Rdxsrd_shg Z:\Infra\2019\B190839.00 - William Burgess Corridor\CAD\19083915201\roadway\RDXSRD01.dgn

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		9.9		65.3
	172.9		9.1		135.3

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
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APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

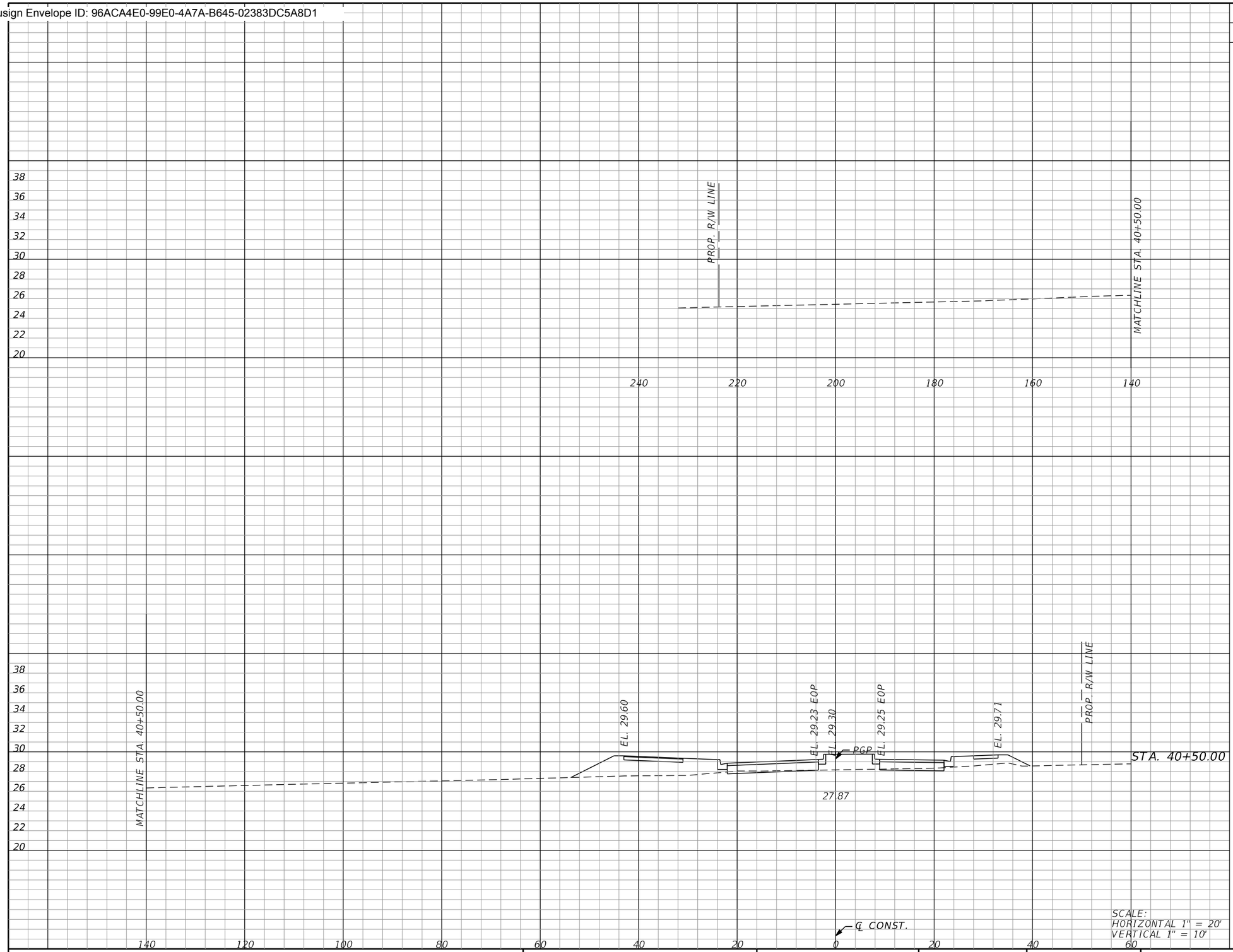
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
133

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		10.0		70.5
	0.0		18.4		125.7

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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PROJECT NO. / DASH NO.
B190839.00

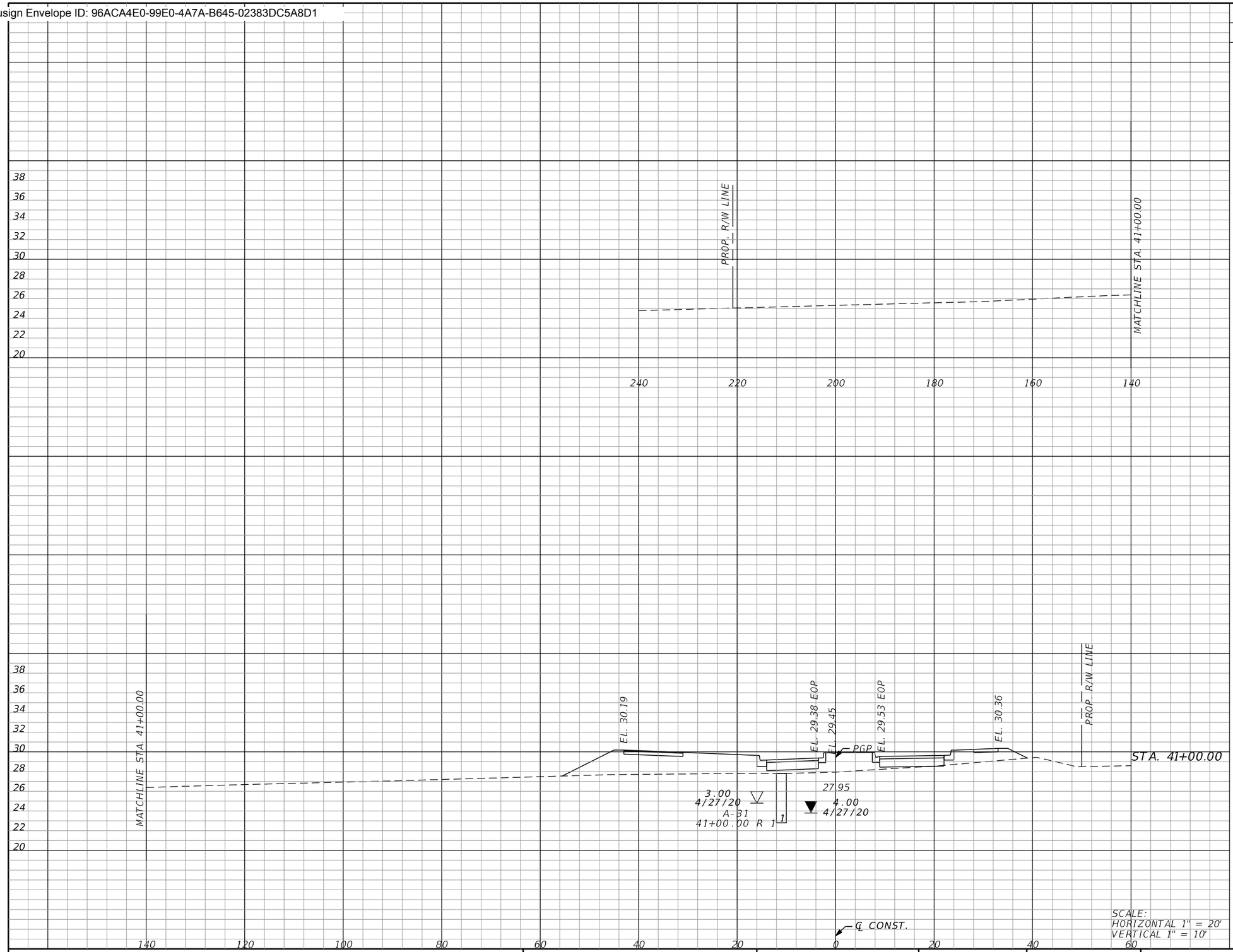
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
134

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	0.1	9.4	114.2	171.0

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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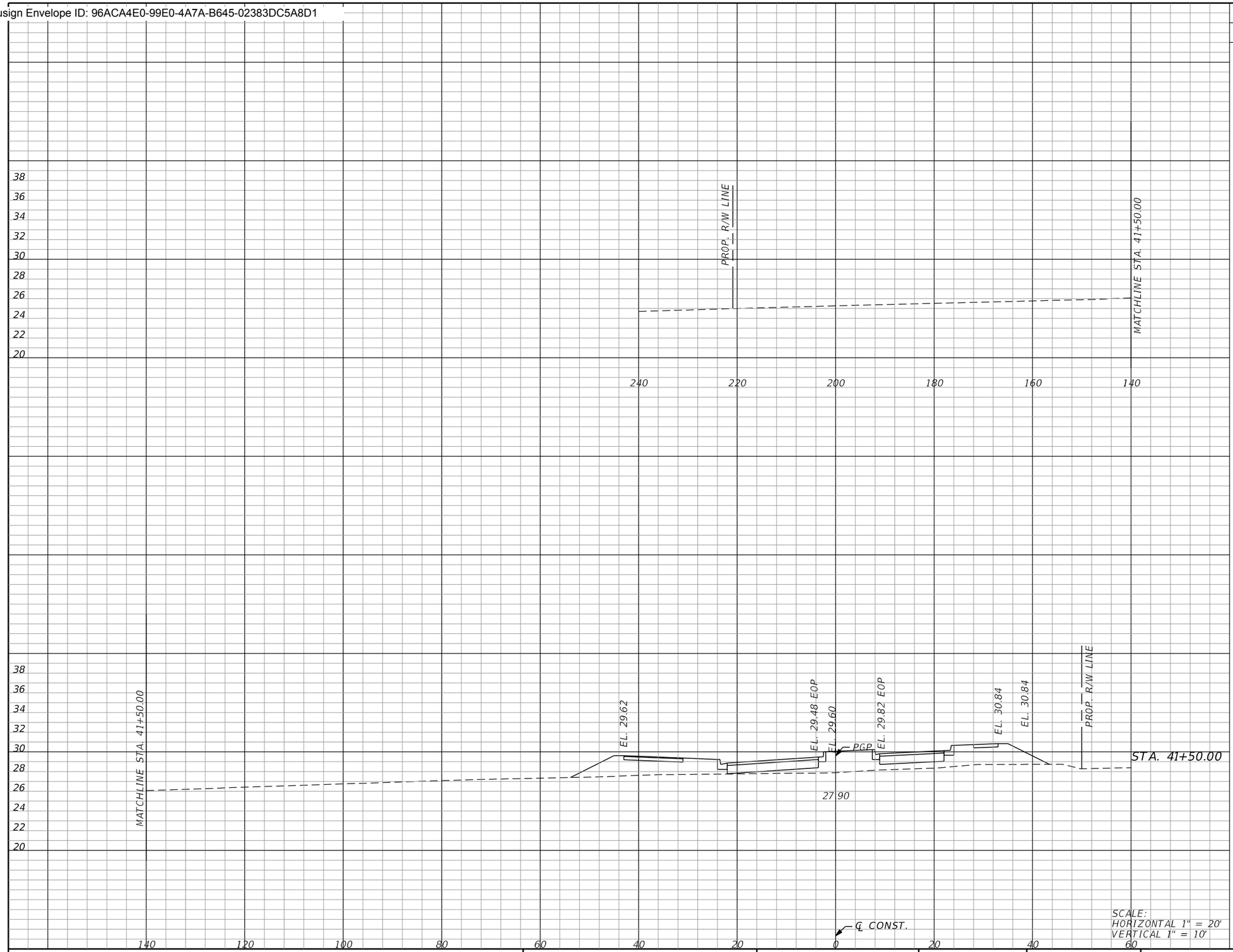
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
135

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		0.0		112.1
	0.0		0.1		209.5

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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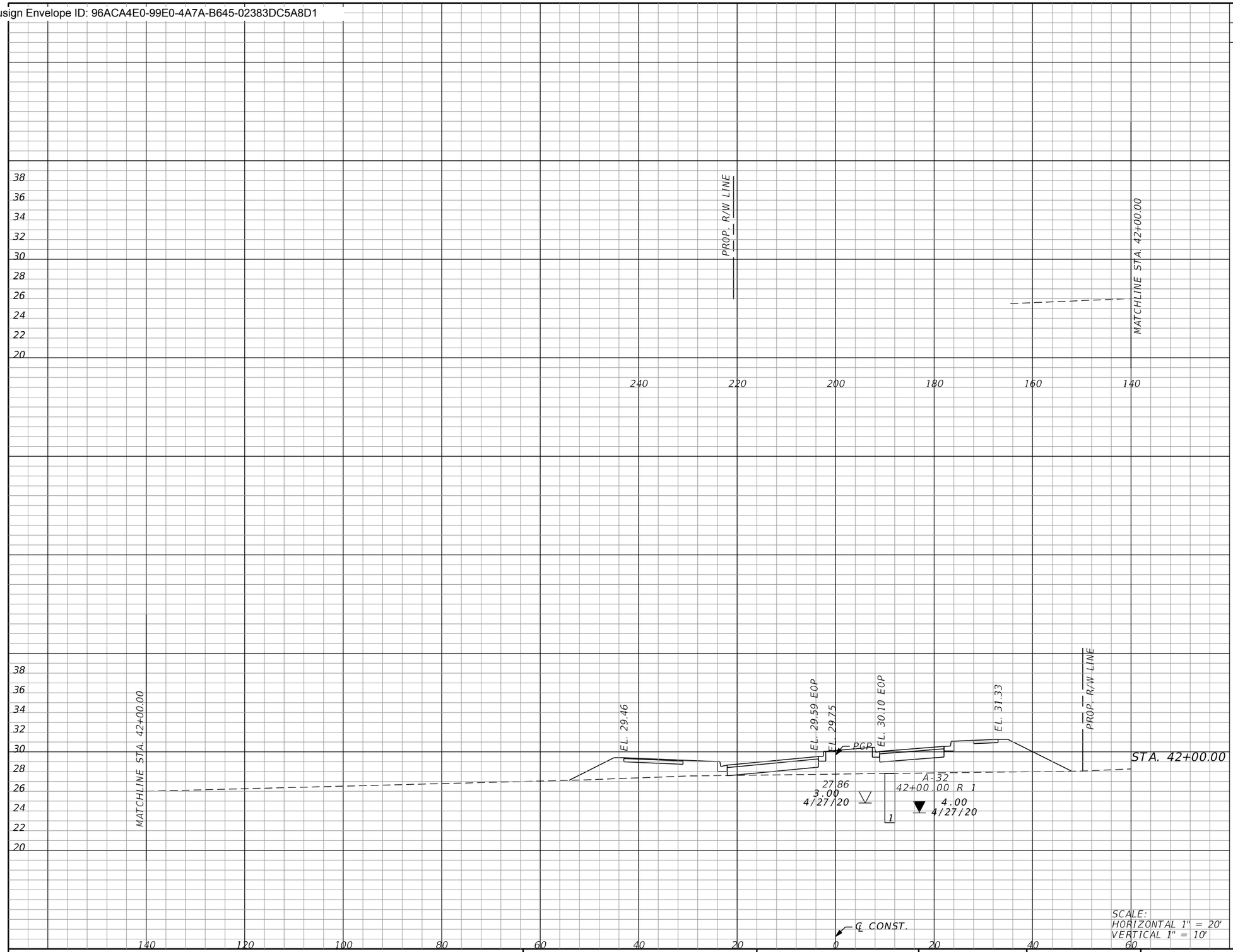
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
136

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		0.0		155.6
	0.0		0.0		247.9

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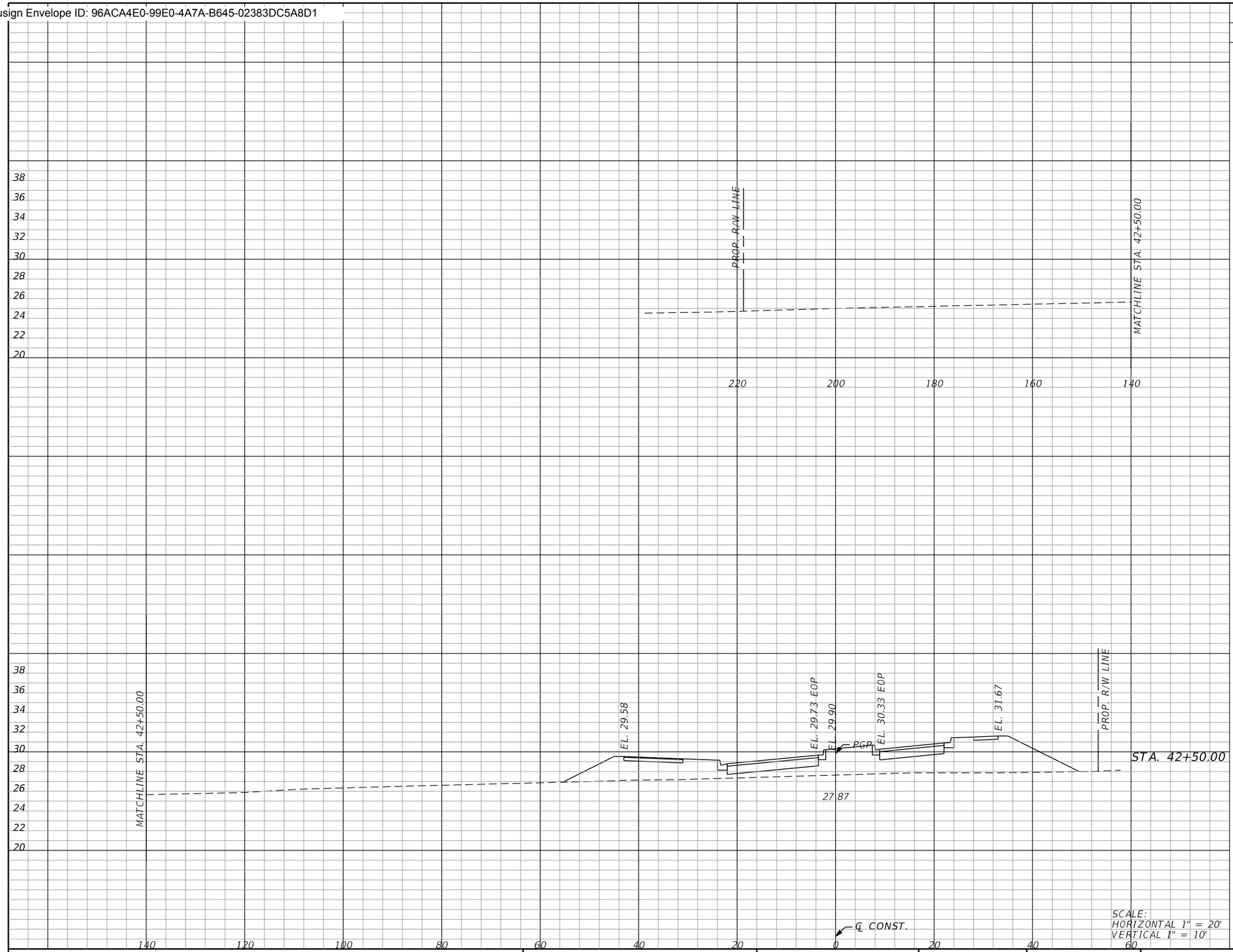
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
137

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		0.0		191.5
	0.0		0.0		321.4

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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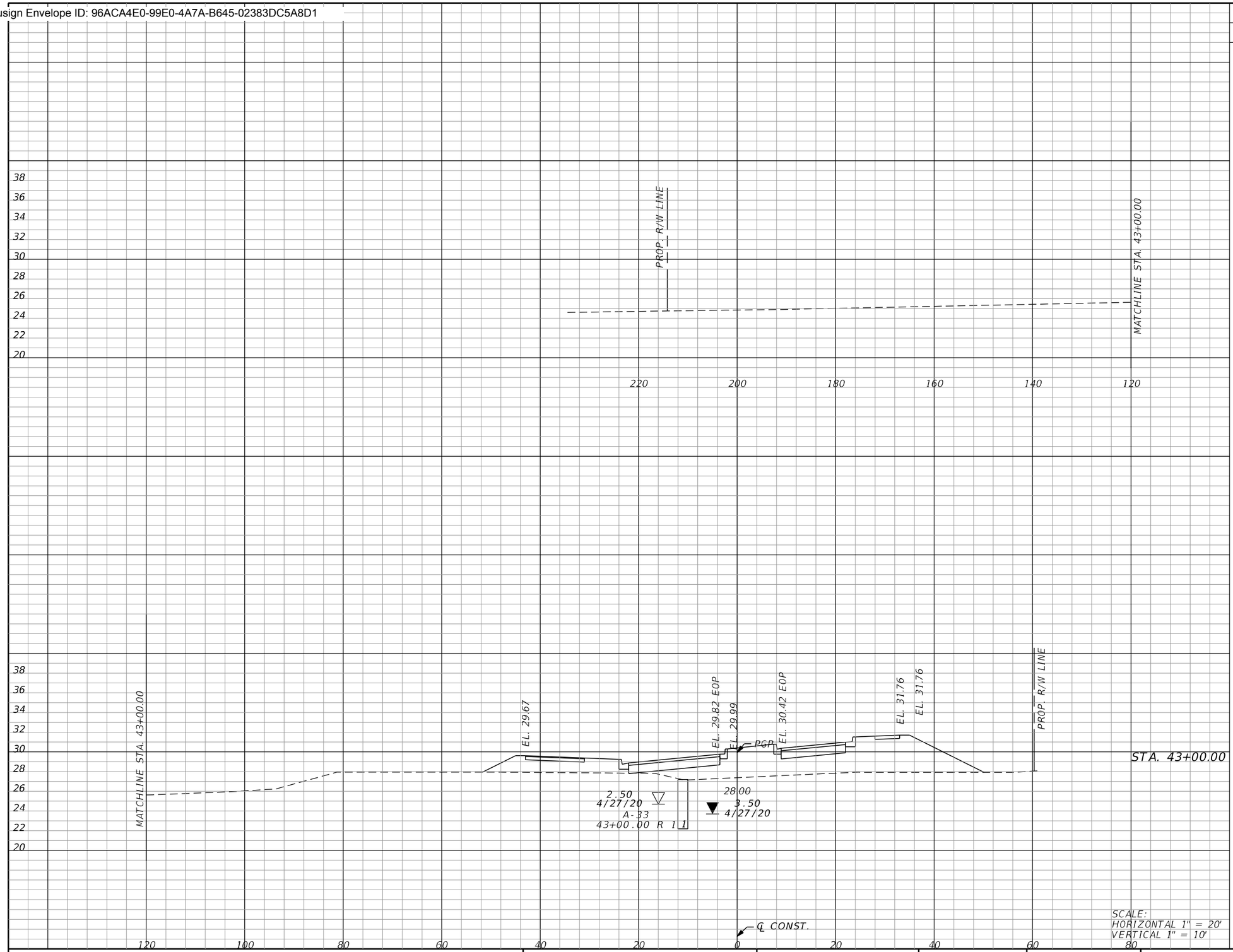
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
138

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	0.0	0.0	180.7	344.7

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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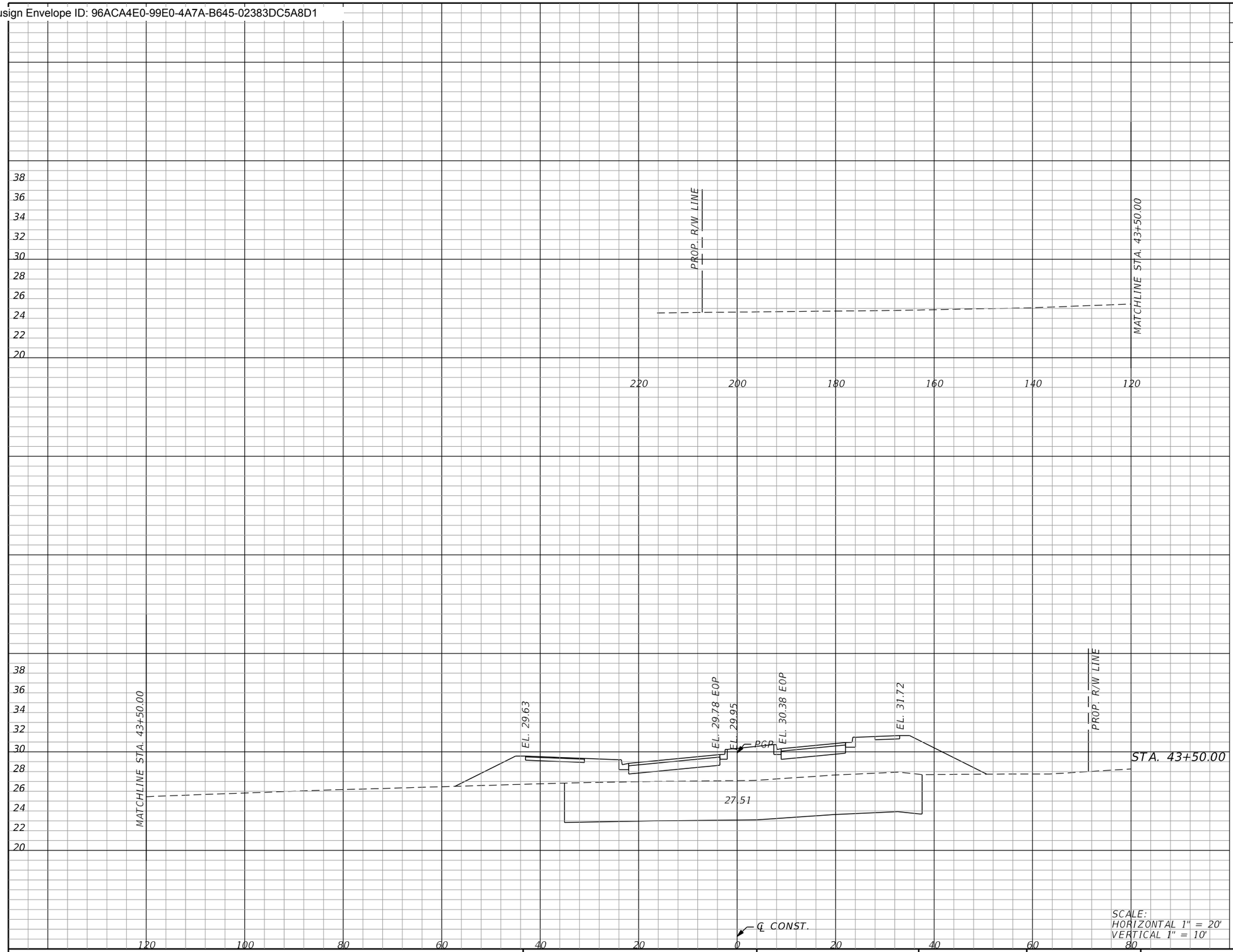
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NASSAU COUNTY, FLORIDA

SHEET NO.
139

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	290.8		0.0		233.0
	269.3		0.0		383.0

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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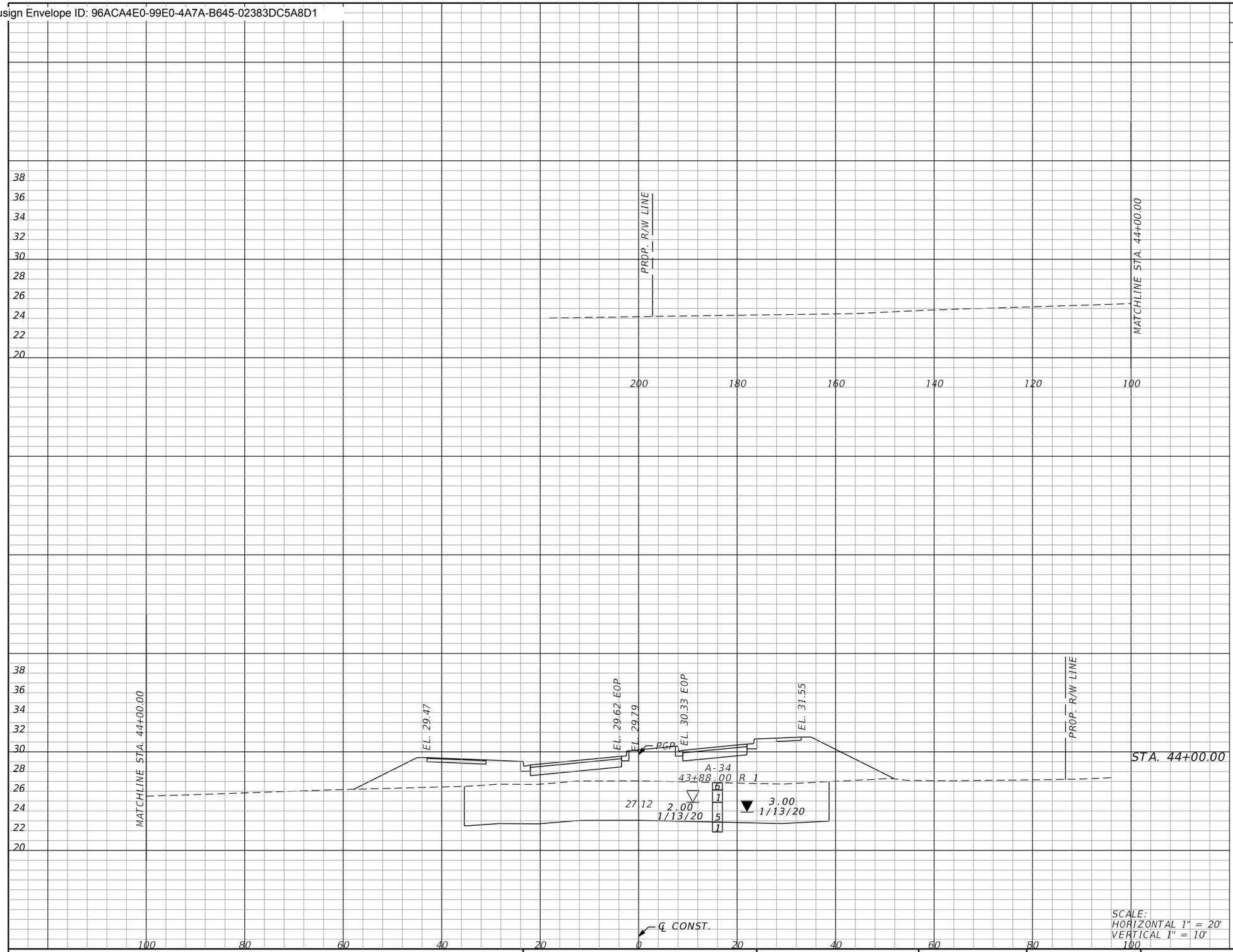
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
140

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	296.6		0.0		260.1
	543.9		0.0		456.6

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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APPROVED:	RH

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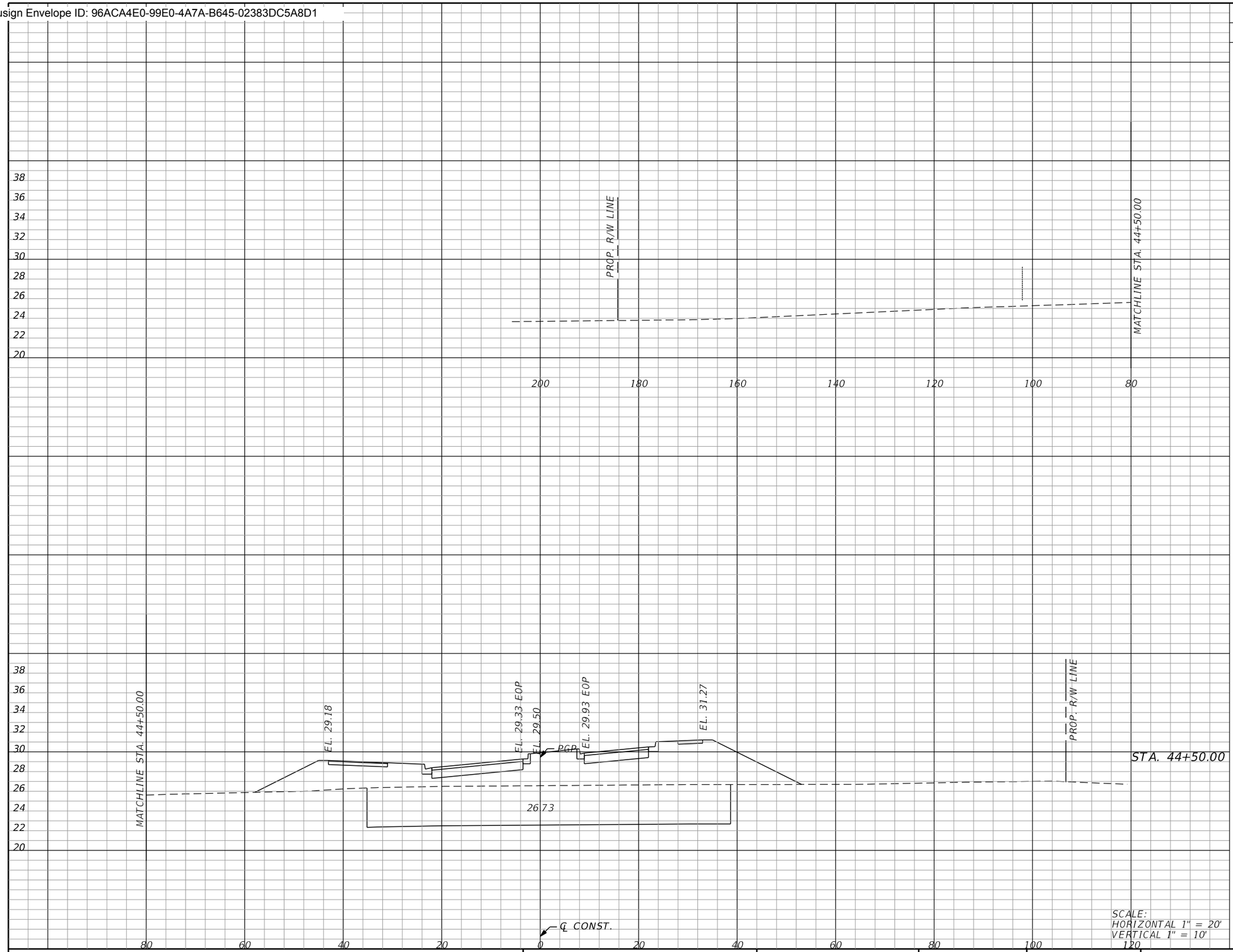
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
141

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	295.4		0.0		253.5
	548.1		0.0		475.6

SCALE:
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VERTICAL 1" = 10'

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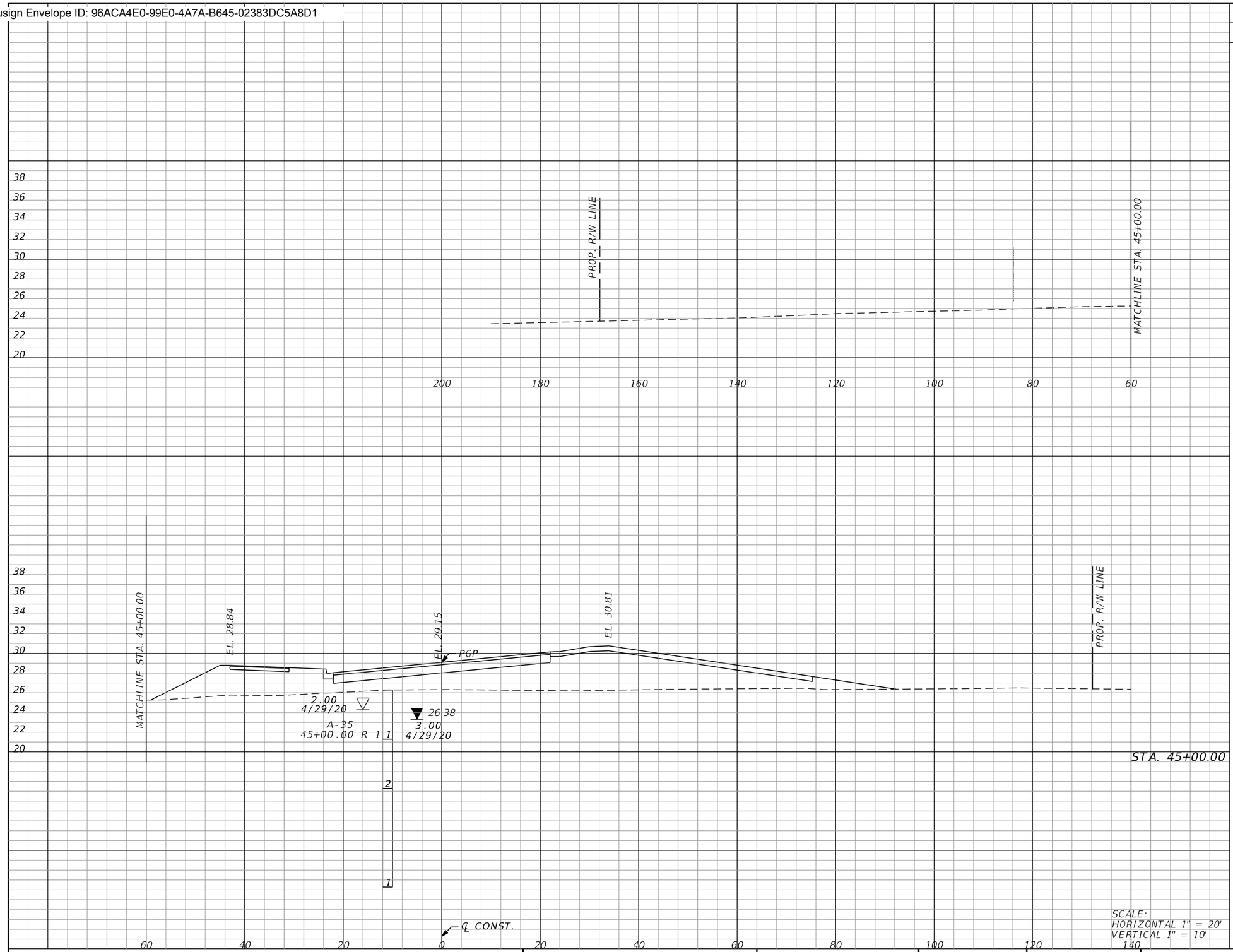
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
142

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	273.5	0.0	0.0	309.3	521.6

SCALE:
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VERTICAL 1" = 10'

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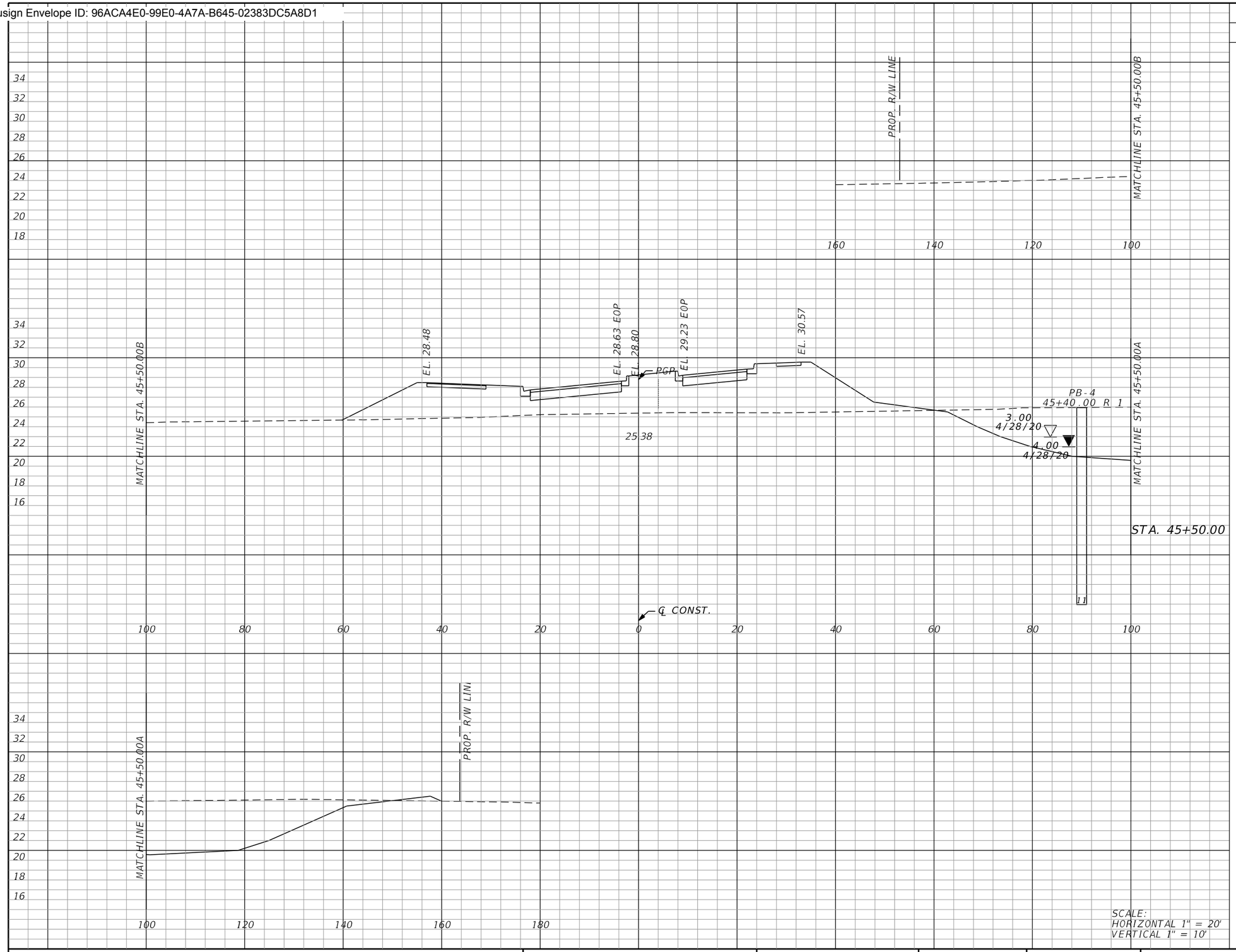
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
143

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	305.5	282.8	326.3	589.0

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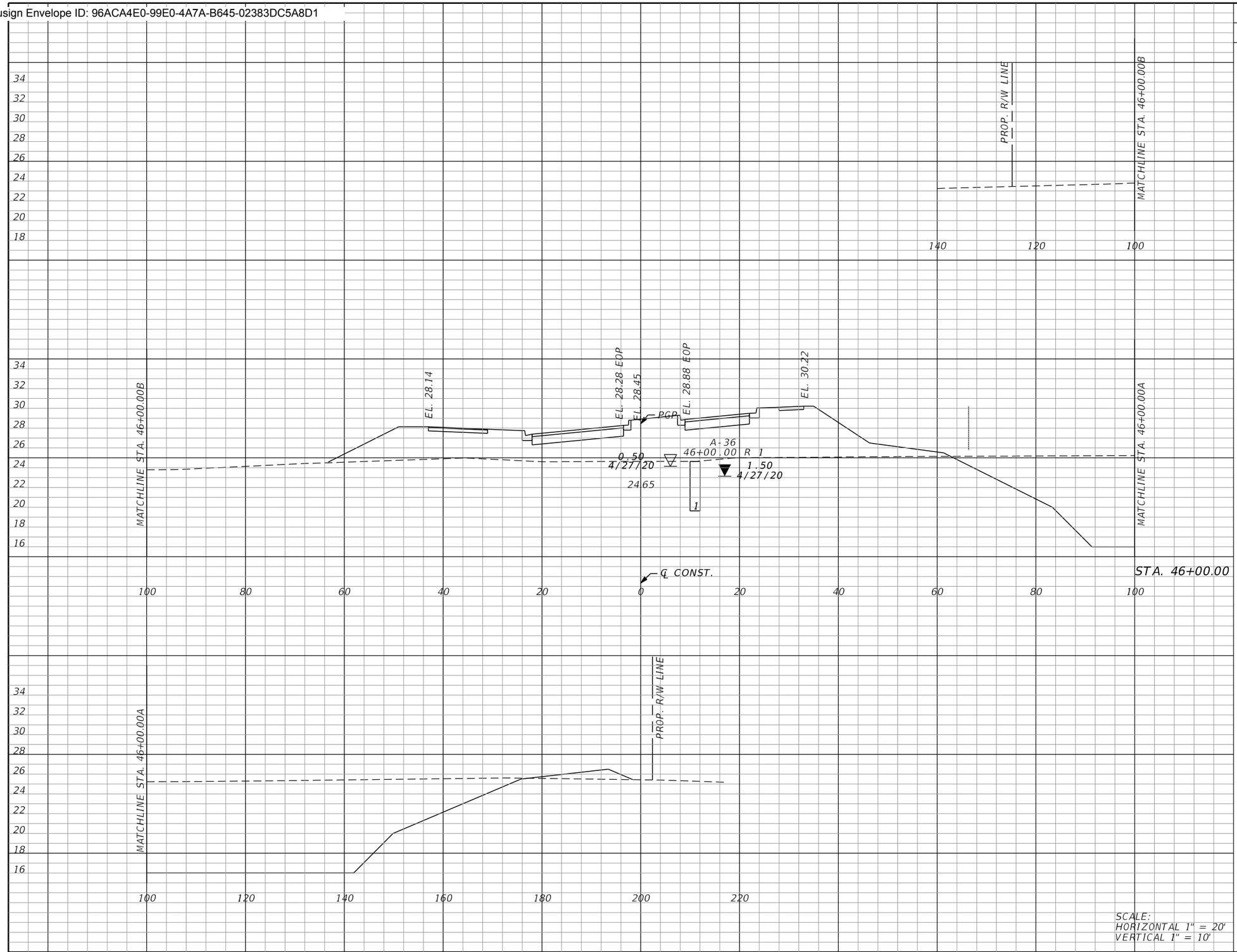
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NASSAU COUNTY, FLORIDA

SHEET NO.
144

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0		713.3		360.2	
	0.0		943.2		635.7

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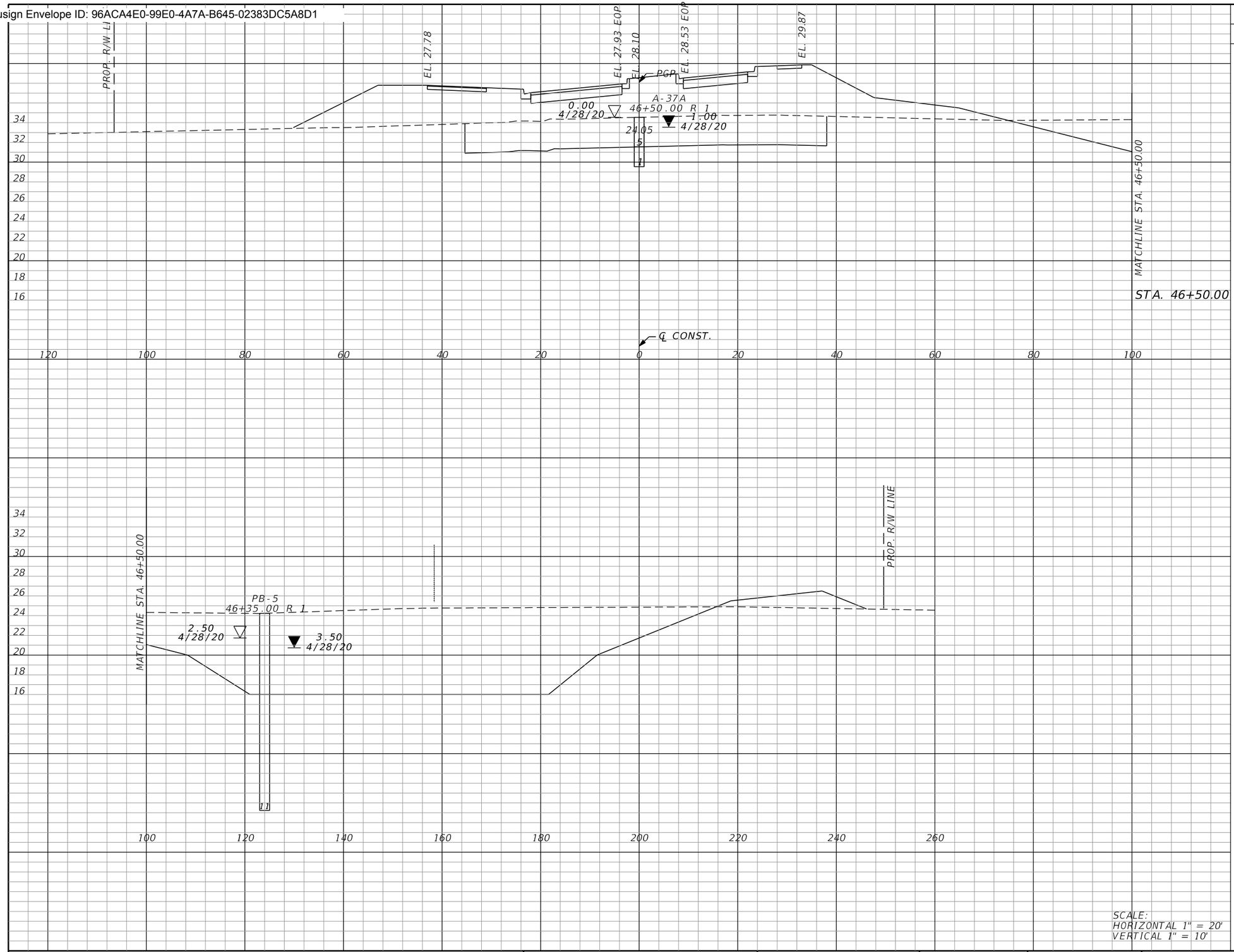
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
145

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
220.7	204.3	799.0	1400.3	443.7	744.4

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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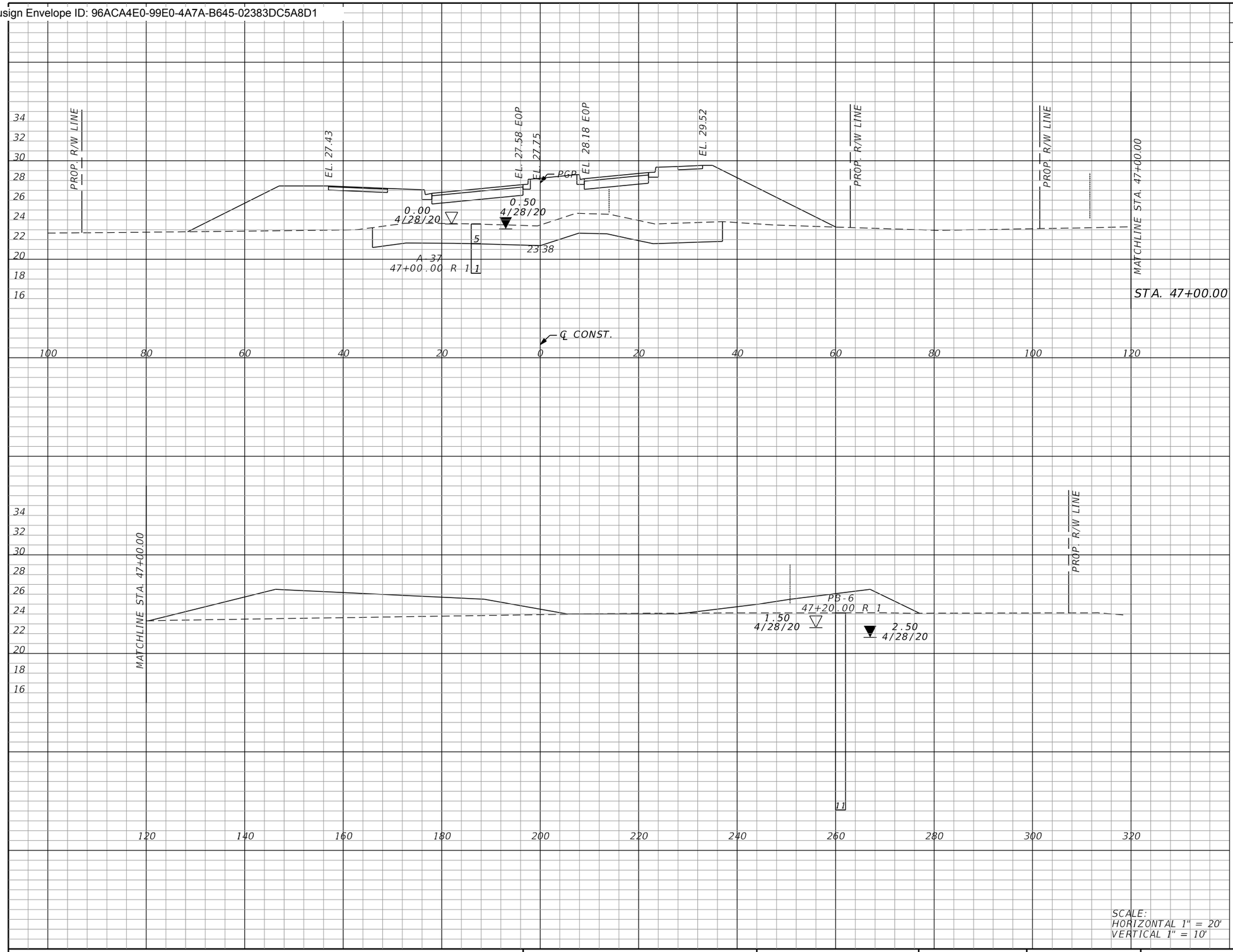
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
146

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
143.6	337.3	1.0	740.7	651.1	1013.7

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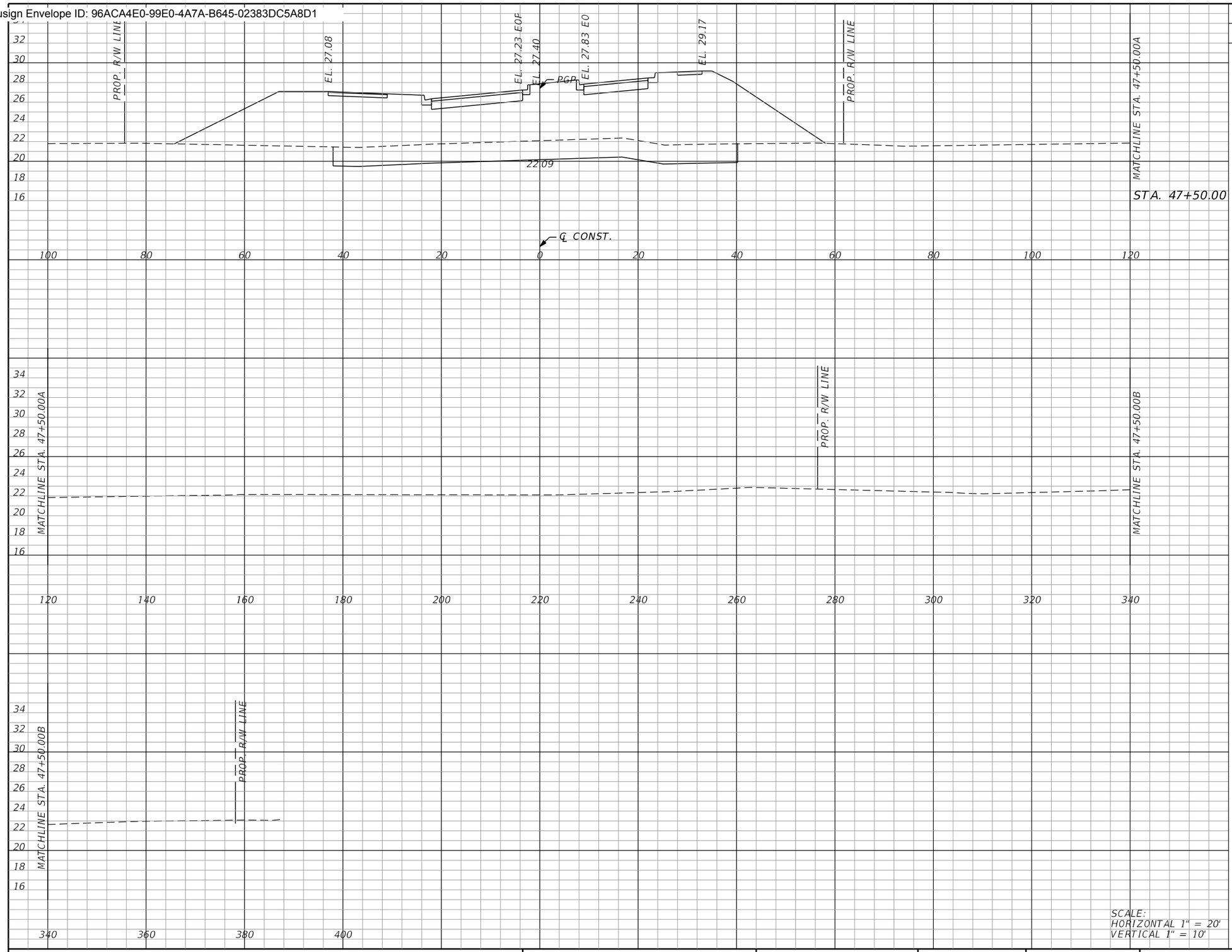
WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
147

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thompr 10/24/2023 9:29:08 AM Rdxsrd_shg Z:\Infra\2019\B190839.00 - William Burgess Corridor\CAD\19083915201\roadway\RDXSRD01.dgn

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
158.5	279.7	0.0	0.9	604.5	1162.5

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

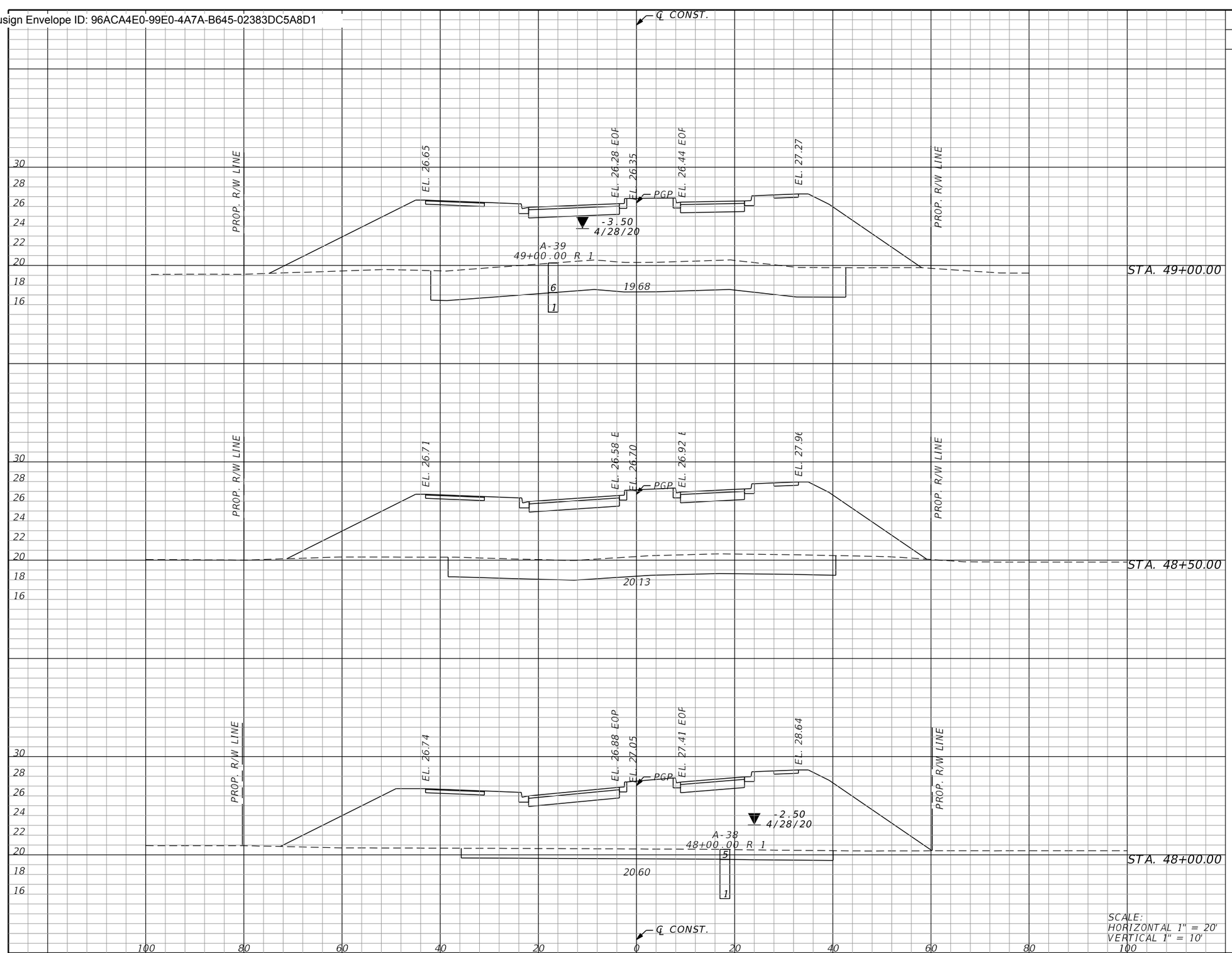
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 148

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
254.4	554.2	0.0	0.0	662.1	1182.9
	381.9		0.0		1215.8
158.1		0.0		650.9	
	216.5		0.0		1236.4
75.8		0.0		684.4	
	216.9		0.0		1193.4

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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APPROVED:	RH

PROJECT NO. / DASH NO.
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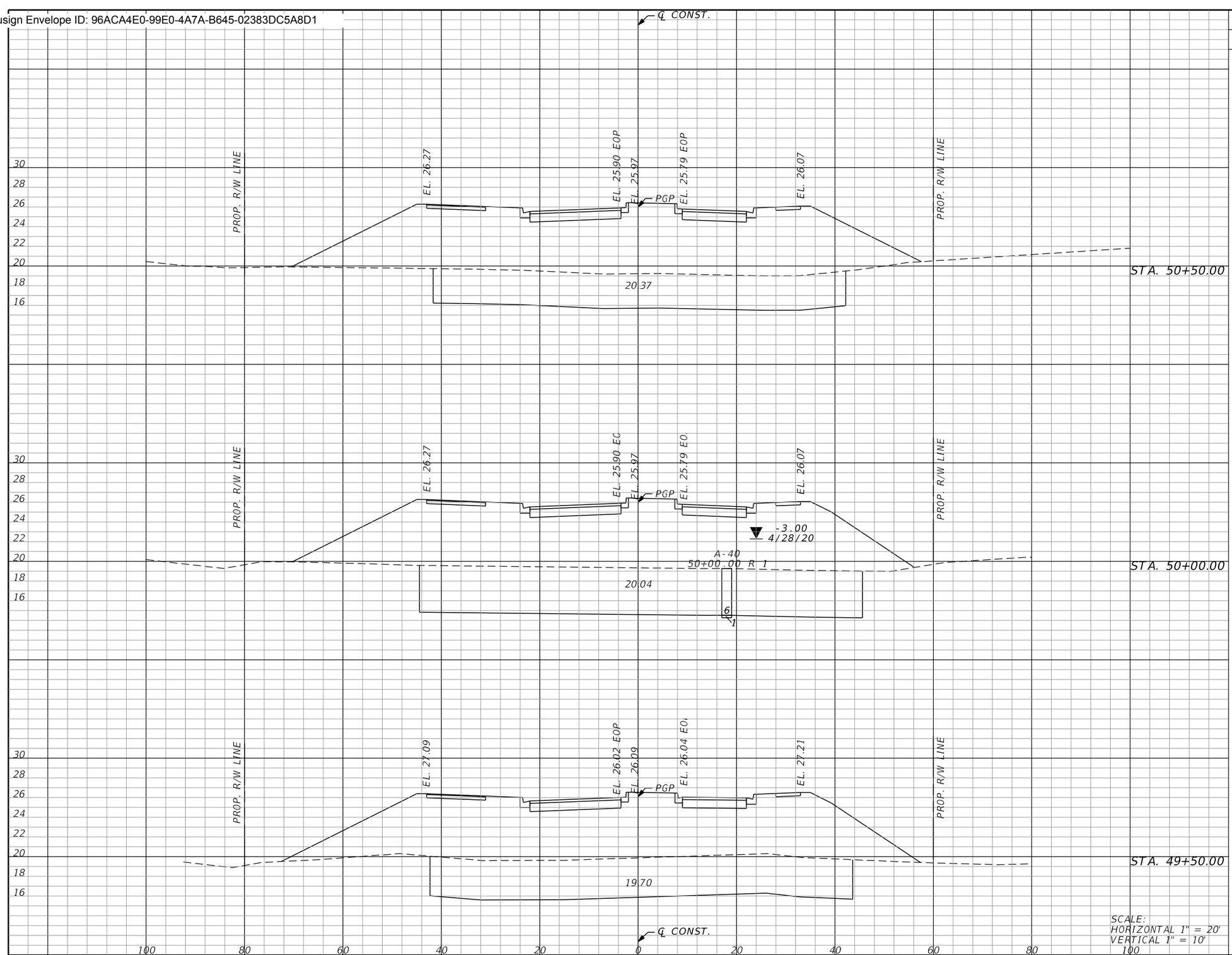
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
149

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
293.8	405.7	0.0	0.0	645.3	1007.3
	668.0		0.0		1194.5
427.7		0.0		644.8	
	714.6		0.0		1166.8
344.1		0.0		615.4	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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PROJECT NO. / DASH NO.
B190839.00

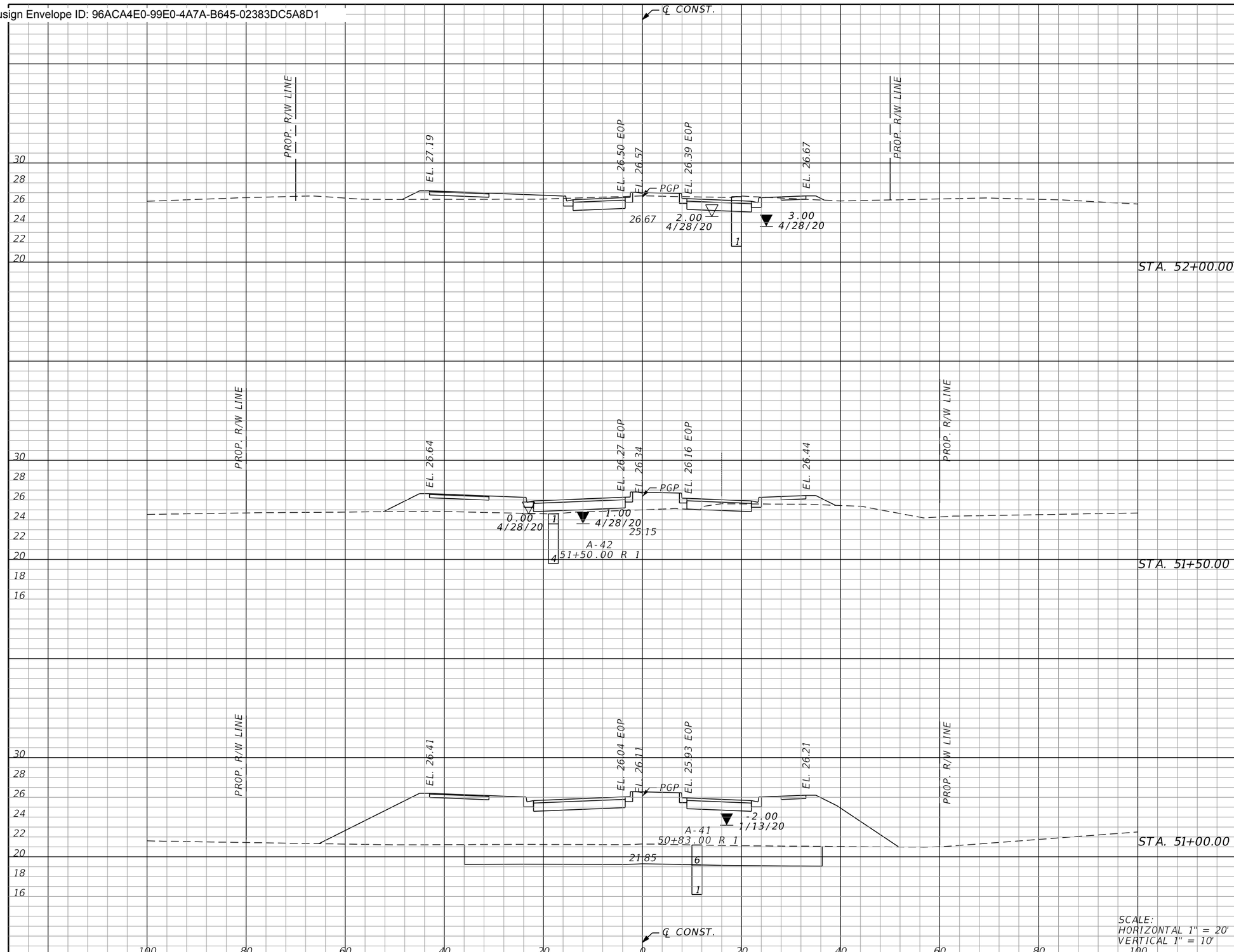
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
150

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	34.5	62.9	18.4	29.1
0.0	0.0	7.1	38.5	70.1	81.9
0.0	133.8	6.6	0.0	442.6	474.8

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APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

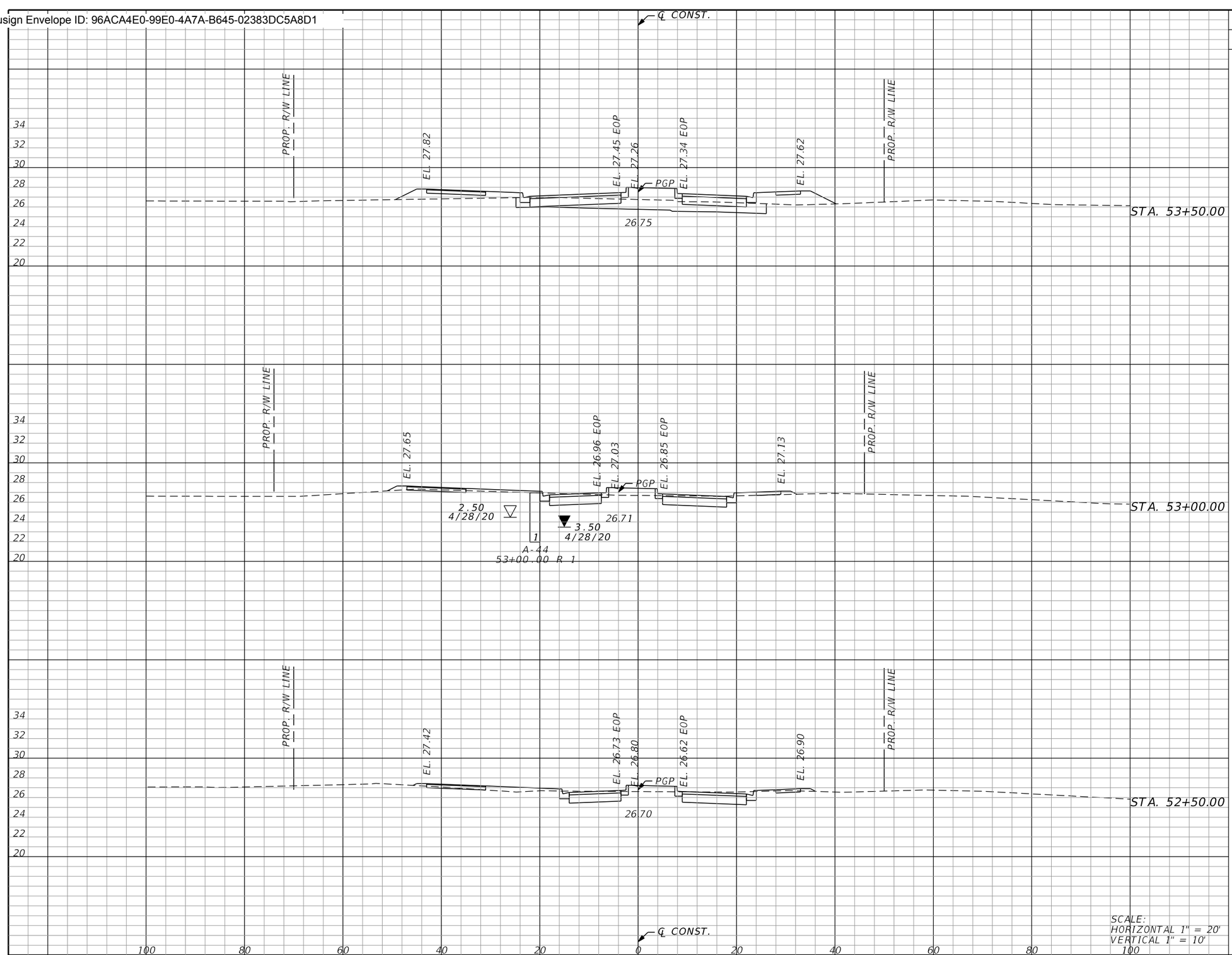
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 151

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	94.4		0.7		145.9
51.0		0.0		79.9	
	47.2		27.8		86.5
0.0		30.1		13.6	
	0.0		58.7		24.6
0.0		33.4		13.0	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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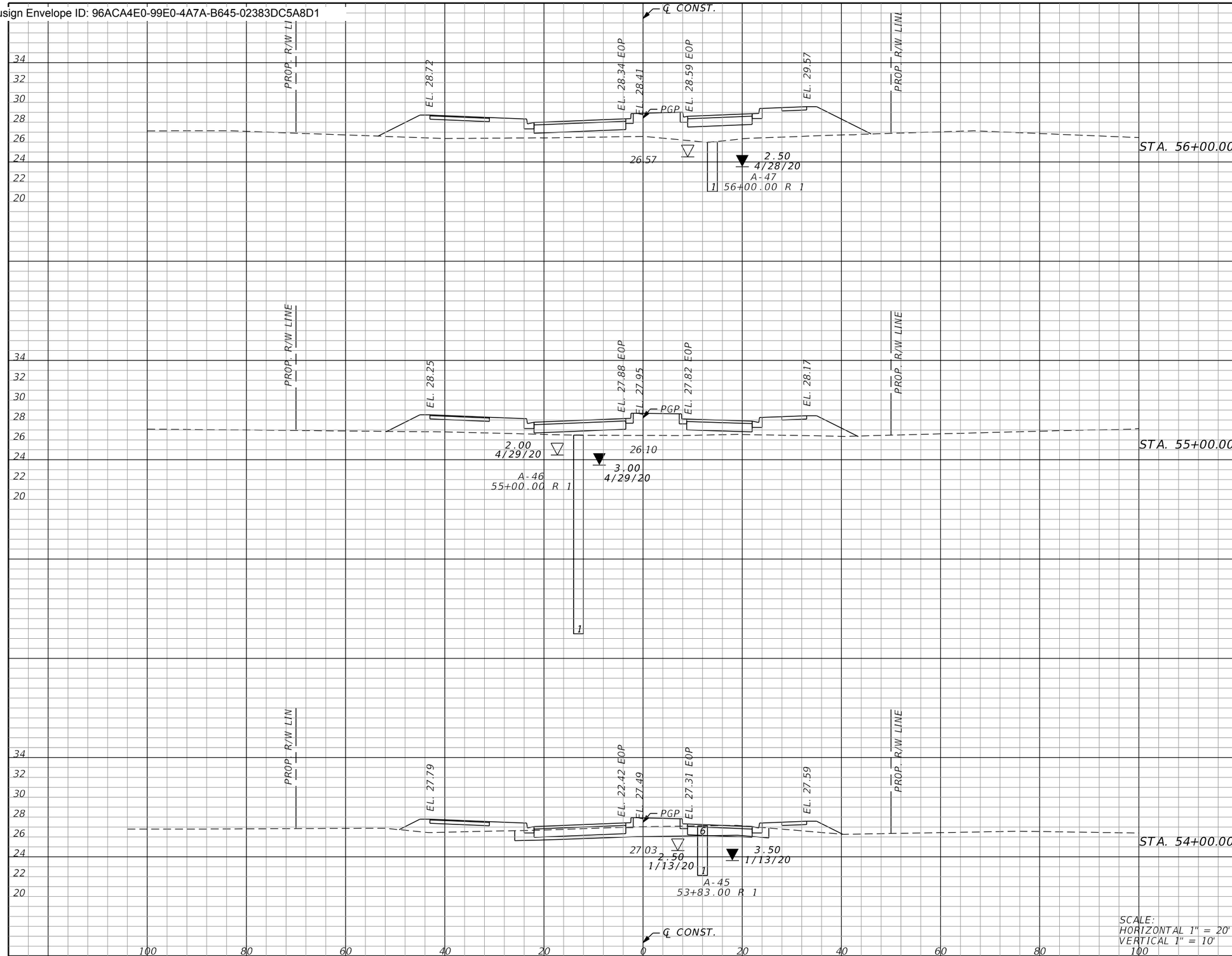
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NASSAU COUNTY, FLORIDA

SHEET NO.
152

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0		0.0		161.4	
	0.0		0.0		487.5
0.0		0.0		101.8	
	94.5		1.3		332.3
51.1		0.7		77.7	

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DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

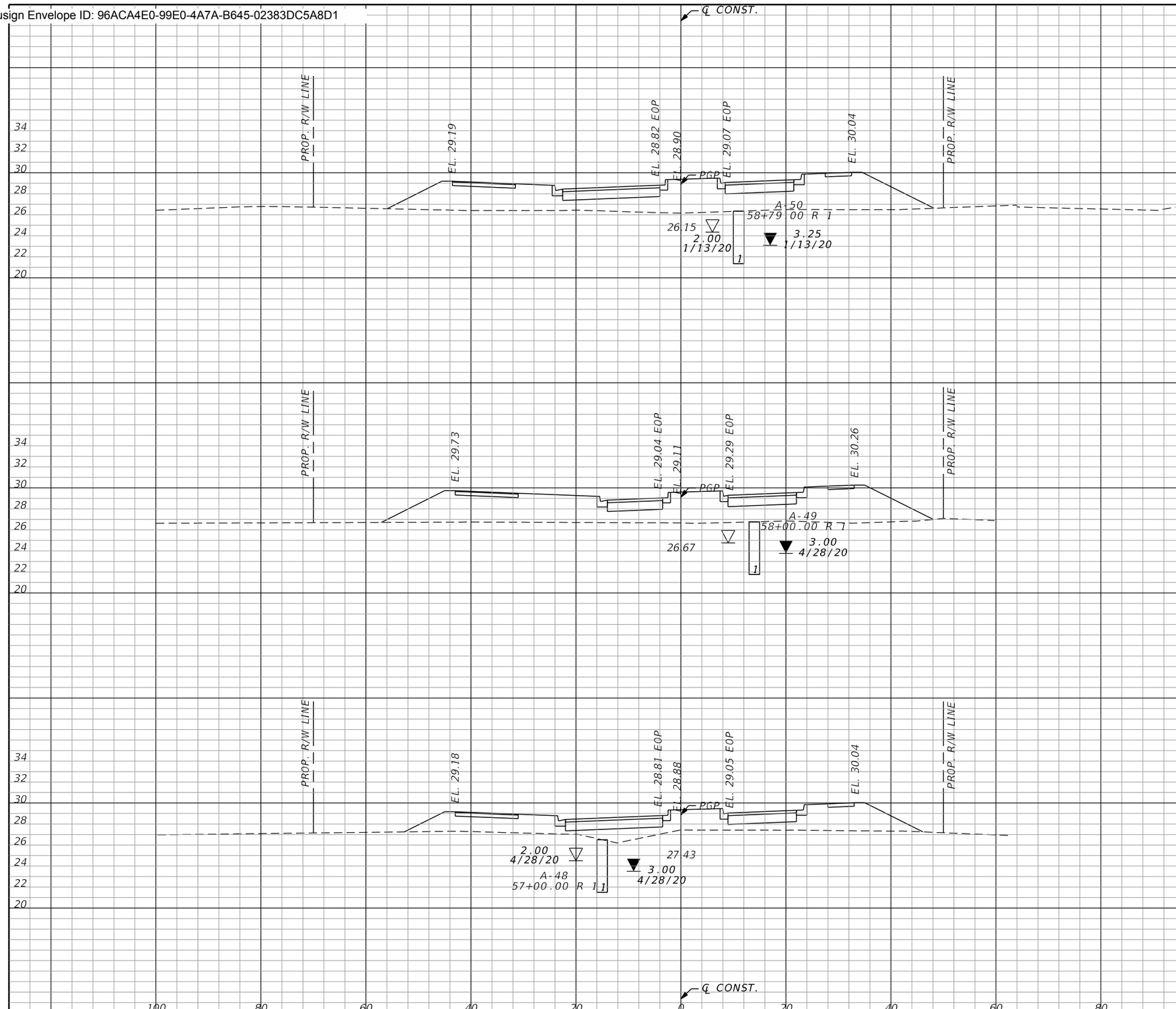
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 153

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment		
A	V	A	V	A	V	
0.0	0.0	0.0	0.0	214.7	818.9	STA. 59+00.00
0.0	0.0	0.0	0.0	227.6	666.8	STA. 58+00.00
0.0	0.0	0.0	0.0	132.5	544.3	STA. 57+00.00

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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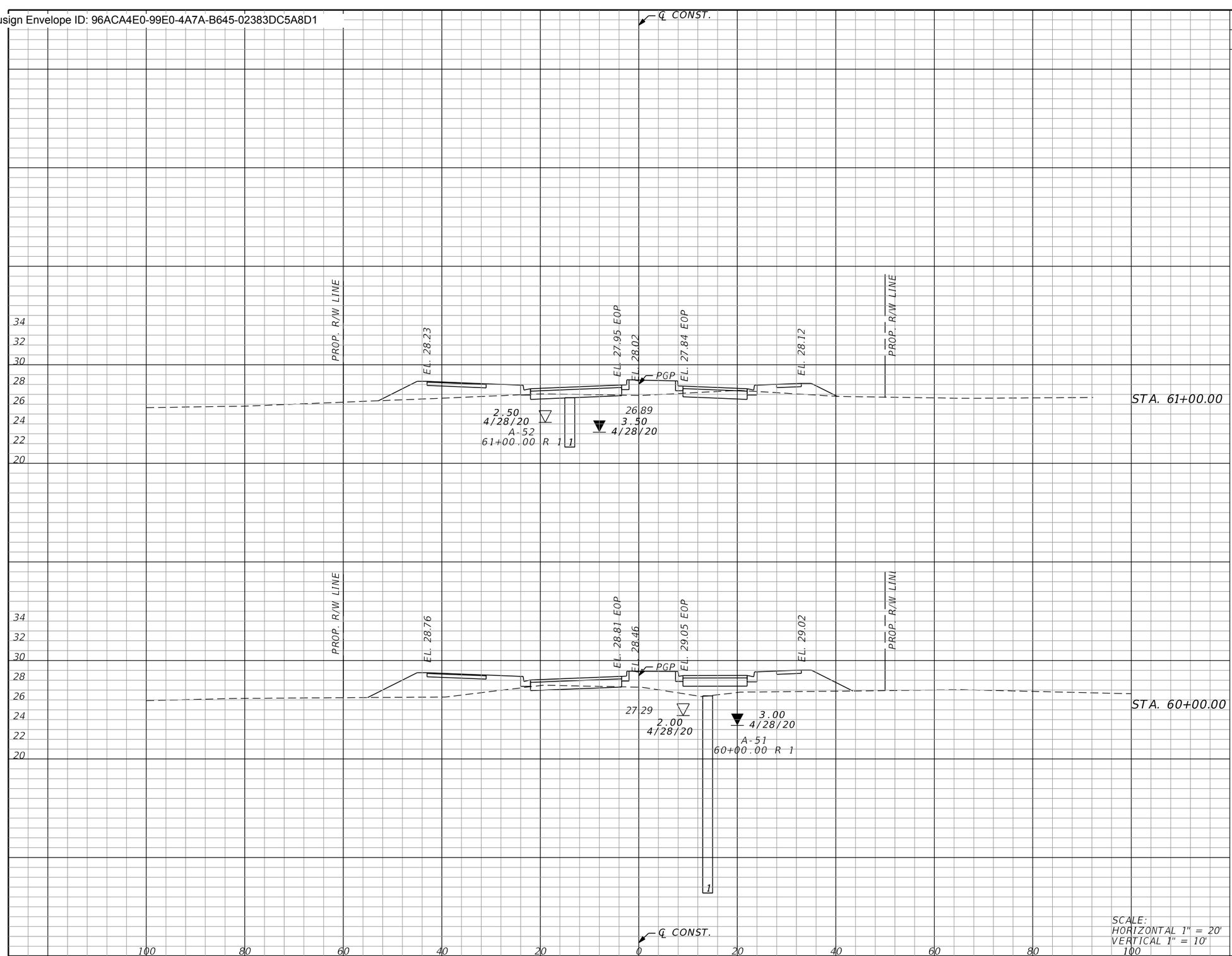
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
154

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	15.2	110.1	58.4	143.9
0.0	0.0	5.3	38.0	112.3	316.3
	0.0		9.9		605.6

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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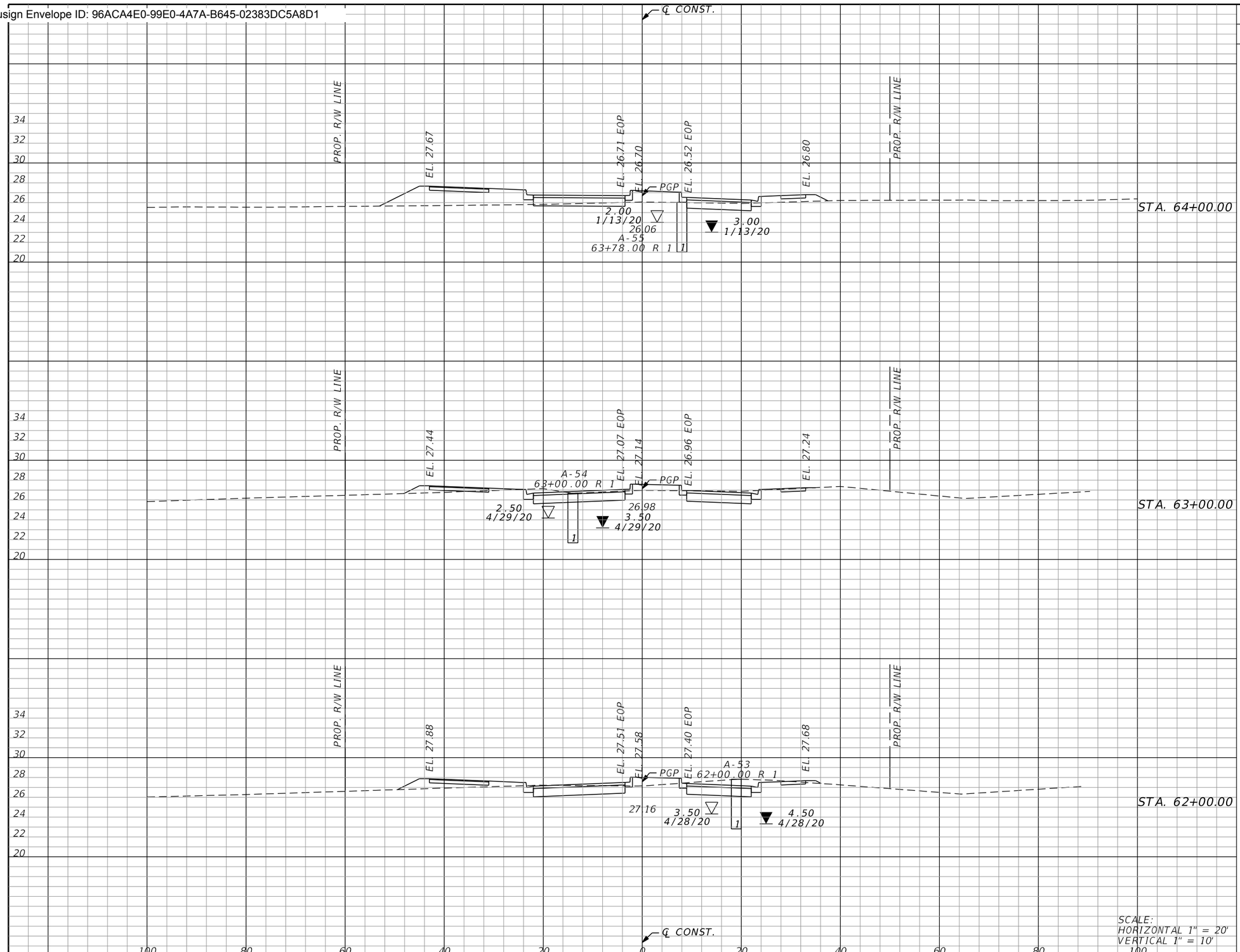
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
155

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	13.9	102.7	58.2	127.4
0.0		41.5		10.6	
0.0		158.9		55.3	
0.0		44.3		19.3	

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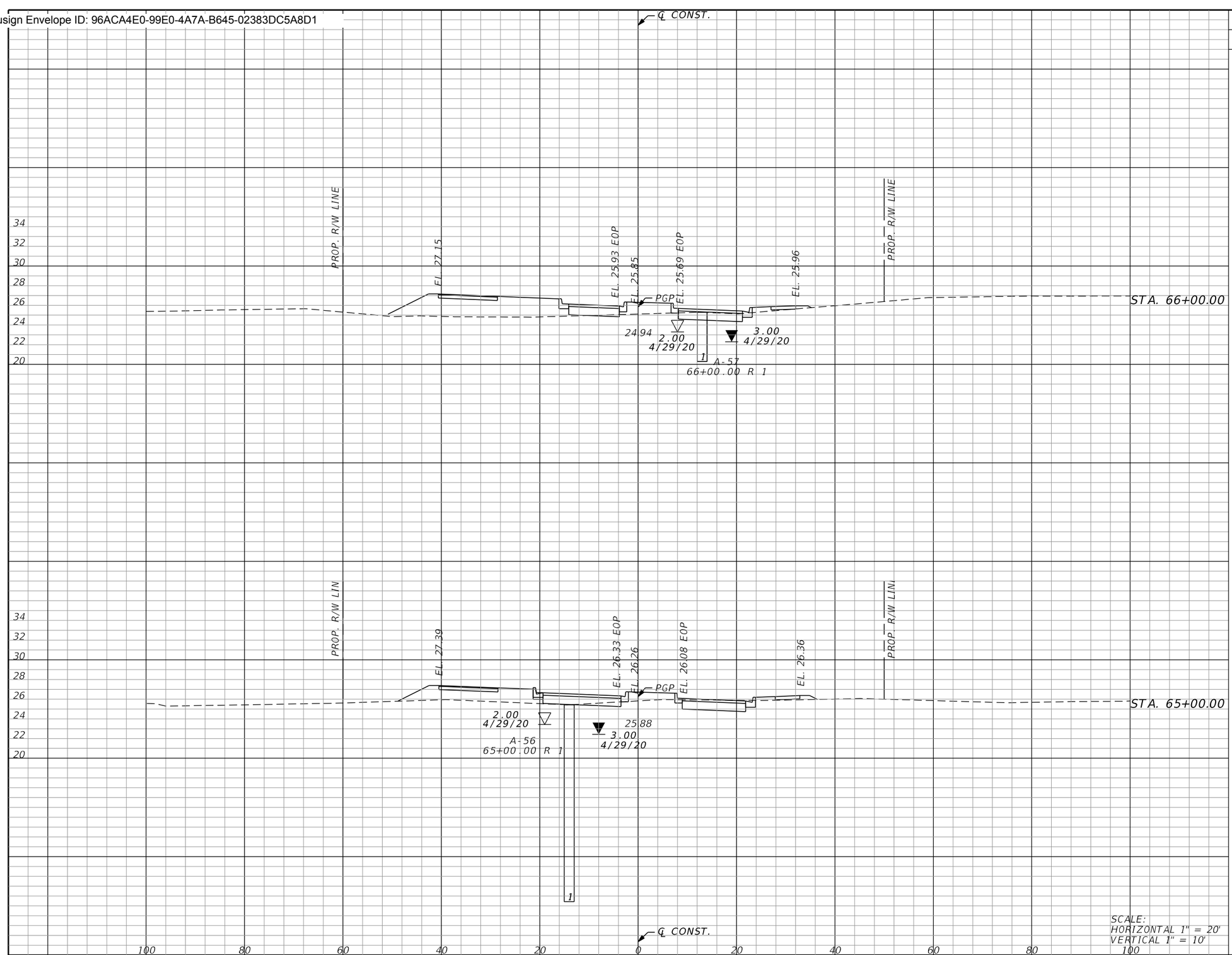
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
156

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		22.8		382.2
0.0		12.2		75.4	
	0.0		55.7		216.2
0.0		17.9		41.3	
	0.0		59.0		184.3

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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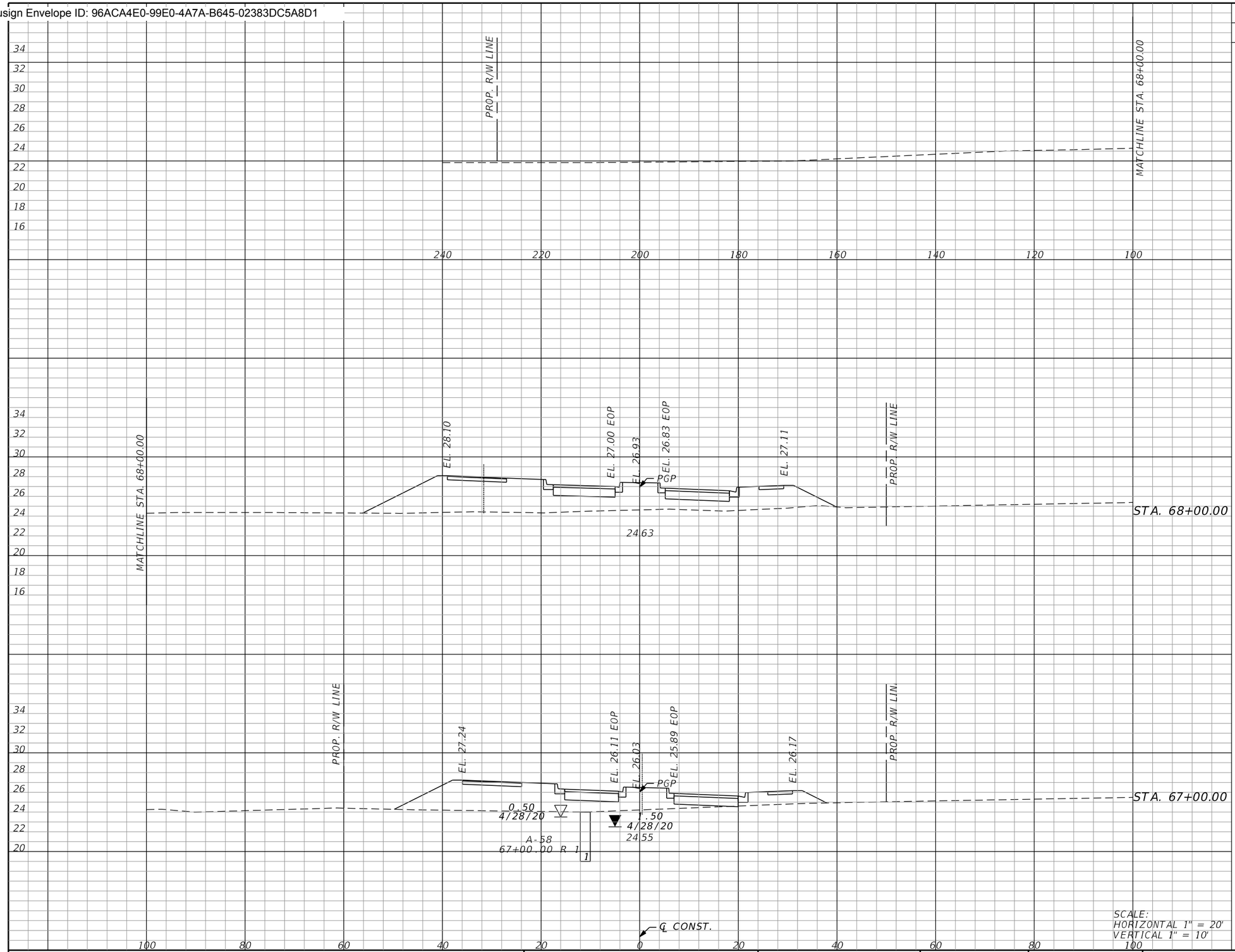
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
157

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0		0.0		197.5	
	0.0		0.2		608.3
0.0		0.1		131.0	

SCALE:
HORIZONTAL 1" = 20'
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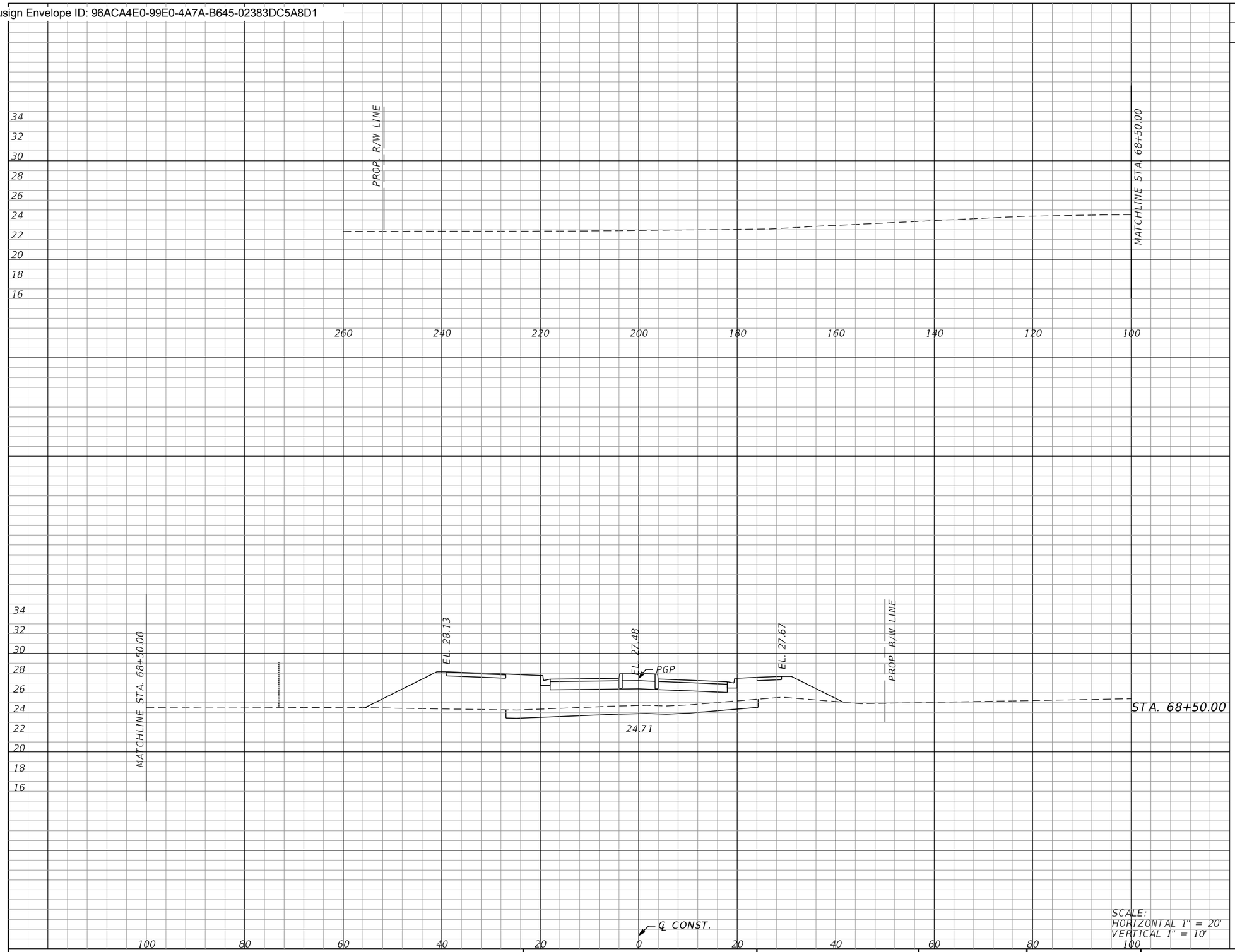
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
158

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
42.6	39.4	0.0	0.0	240.9	405.9

SCALE:
HORIZONTAL 1" = 20'
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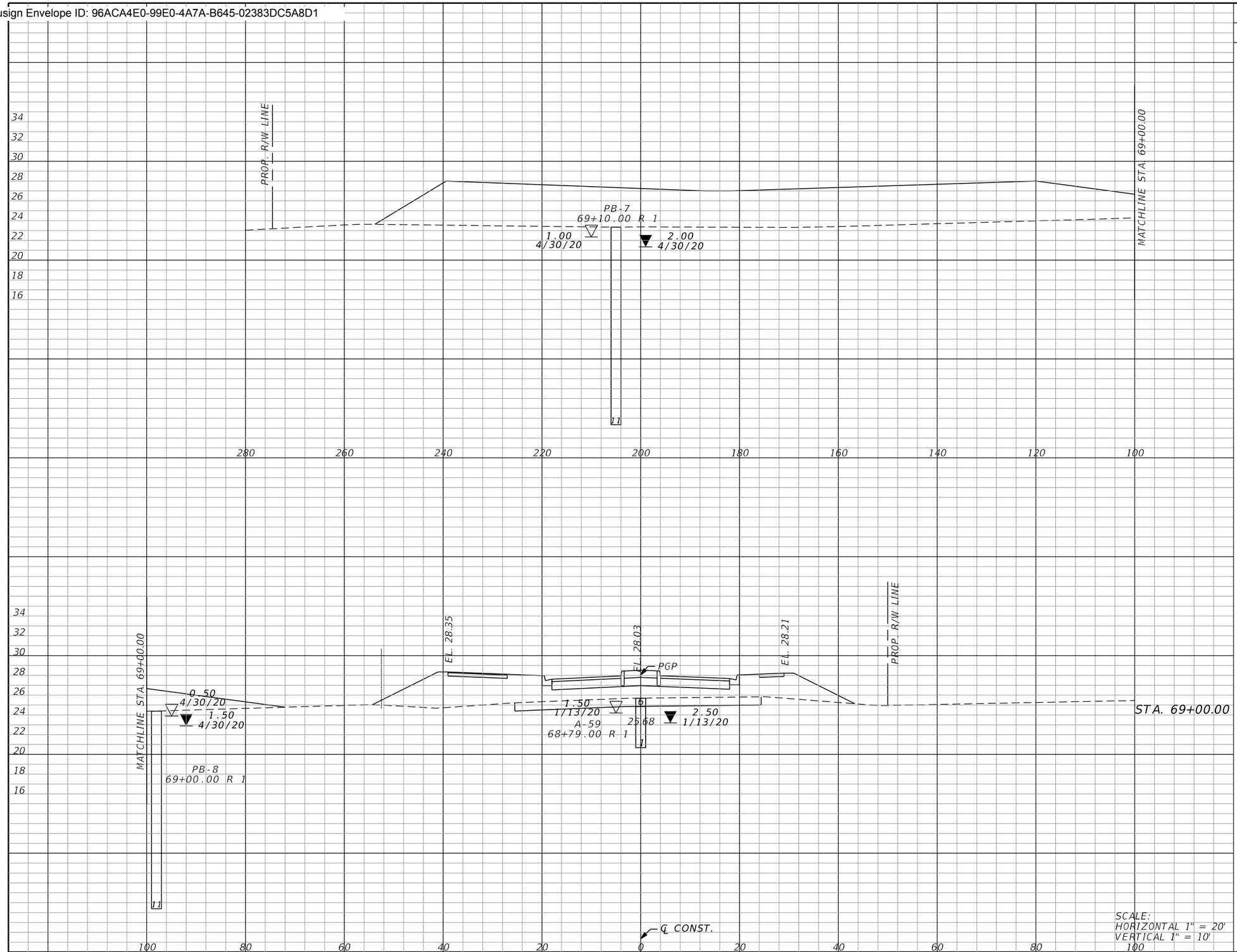
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
159

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
41.4	77.7	0.0	0.0	780.9	946.2

SCALE:
HORIZONTAL 1" = 20'
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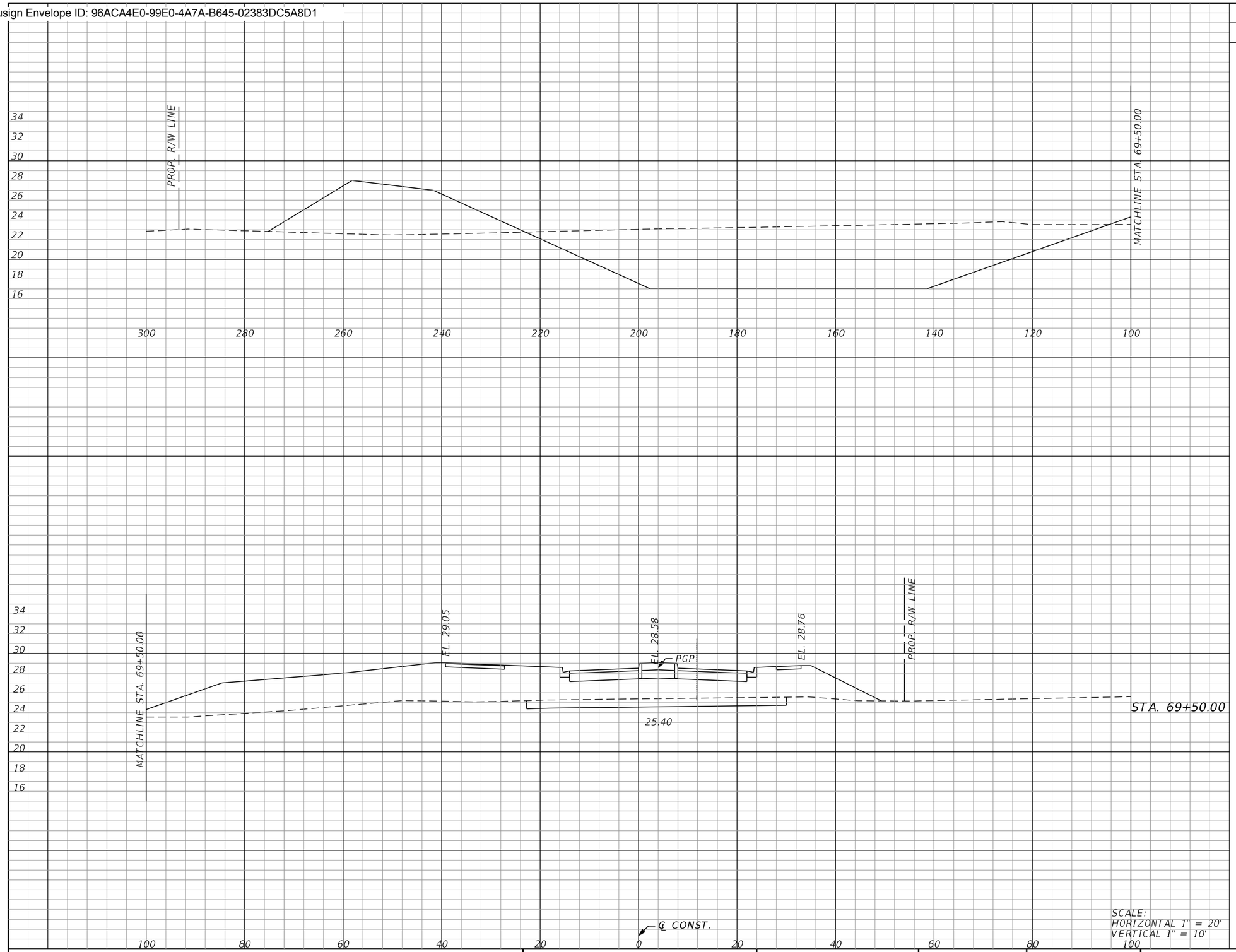
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
160

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	43.8		556.2		616.7
	78.9		515.0		1294.1

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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PROJECT NO. / DASH NO.
B190839.00

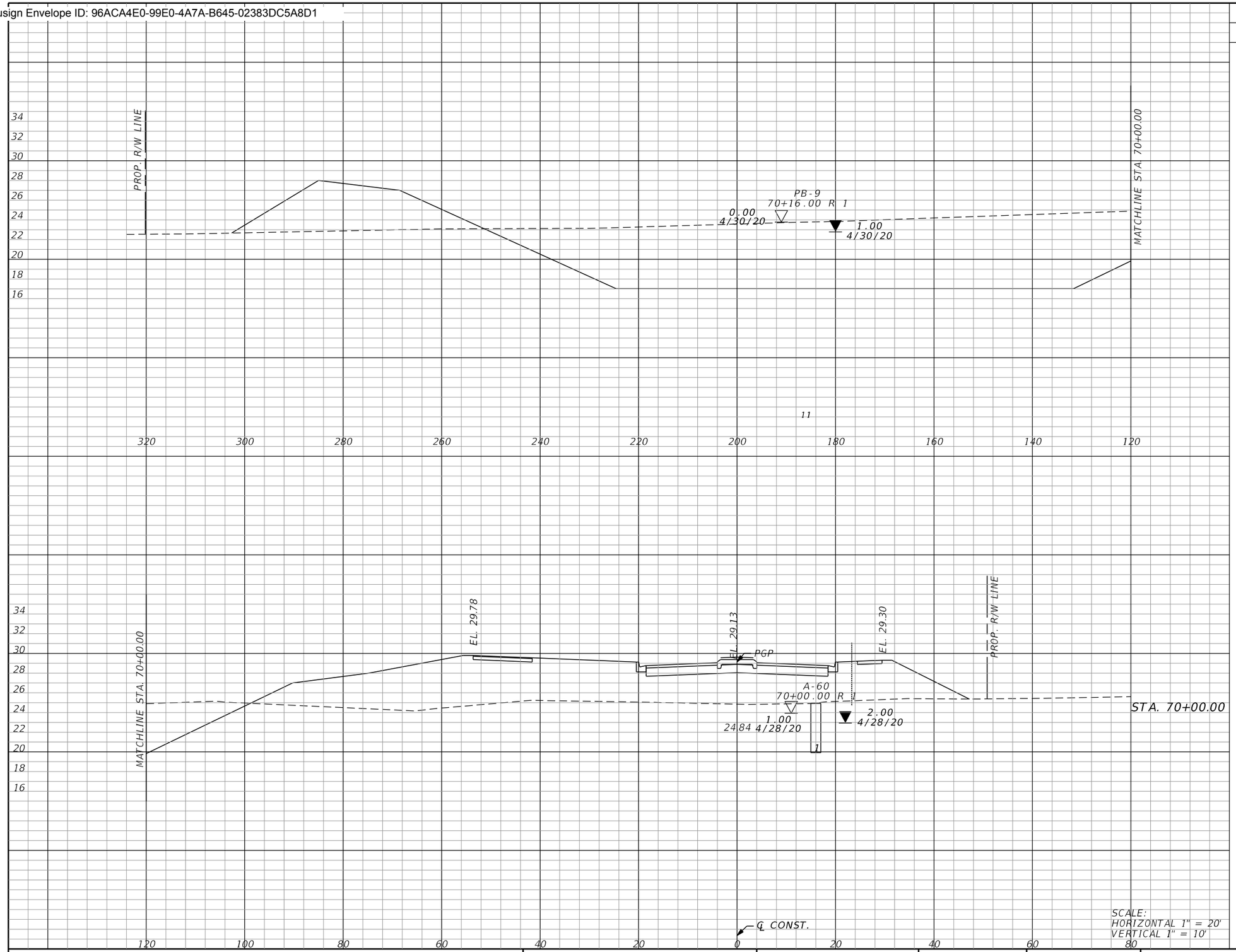
This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
161

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		854.7		643.3
	40.6		1306.4		1166.6

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Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

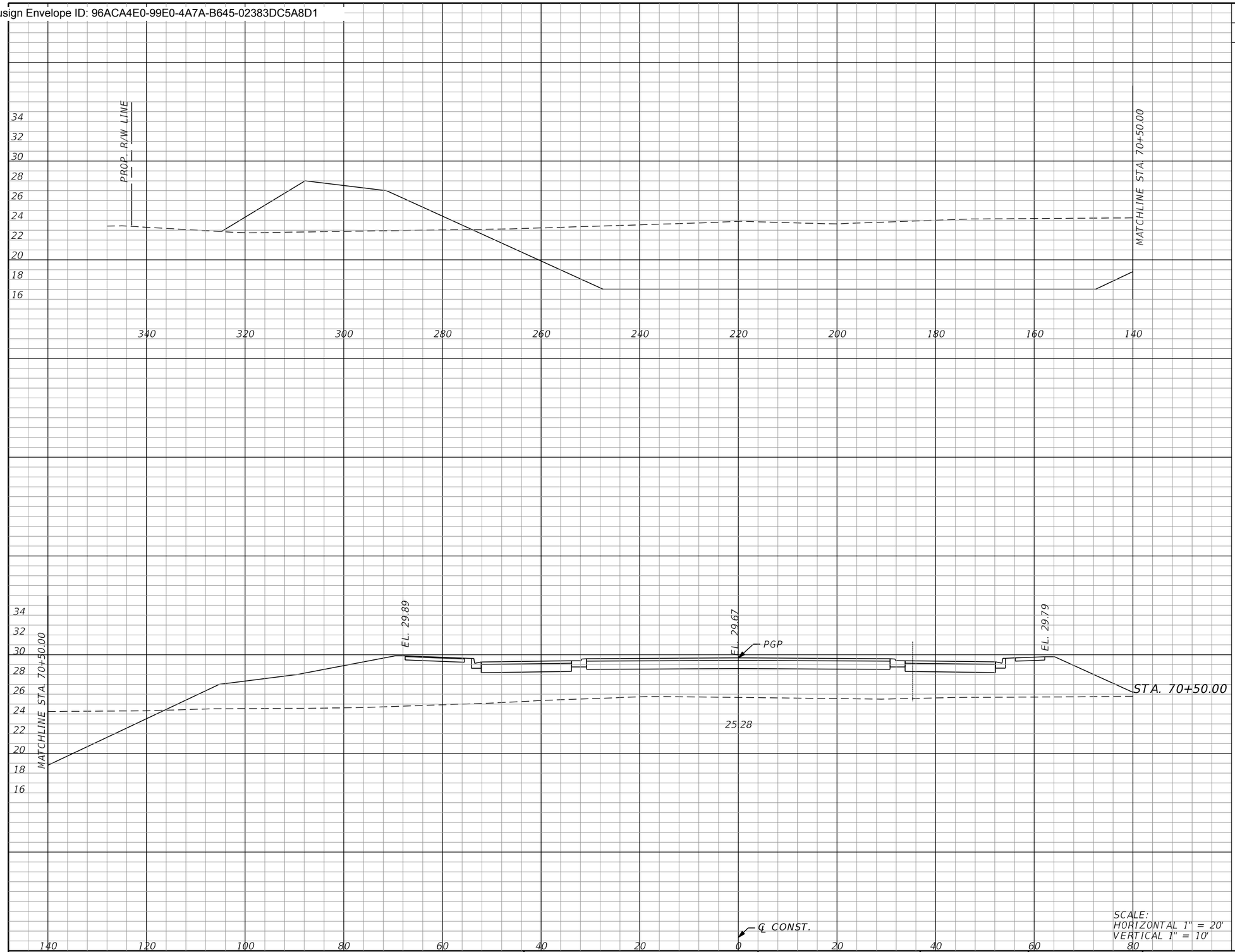
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
162

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		882.2		761.4
	0.0		1608.2		1300.6

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

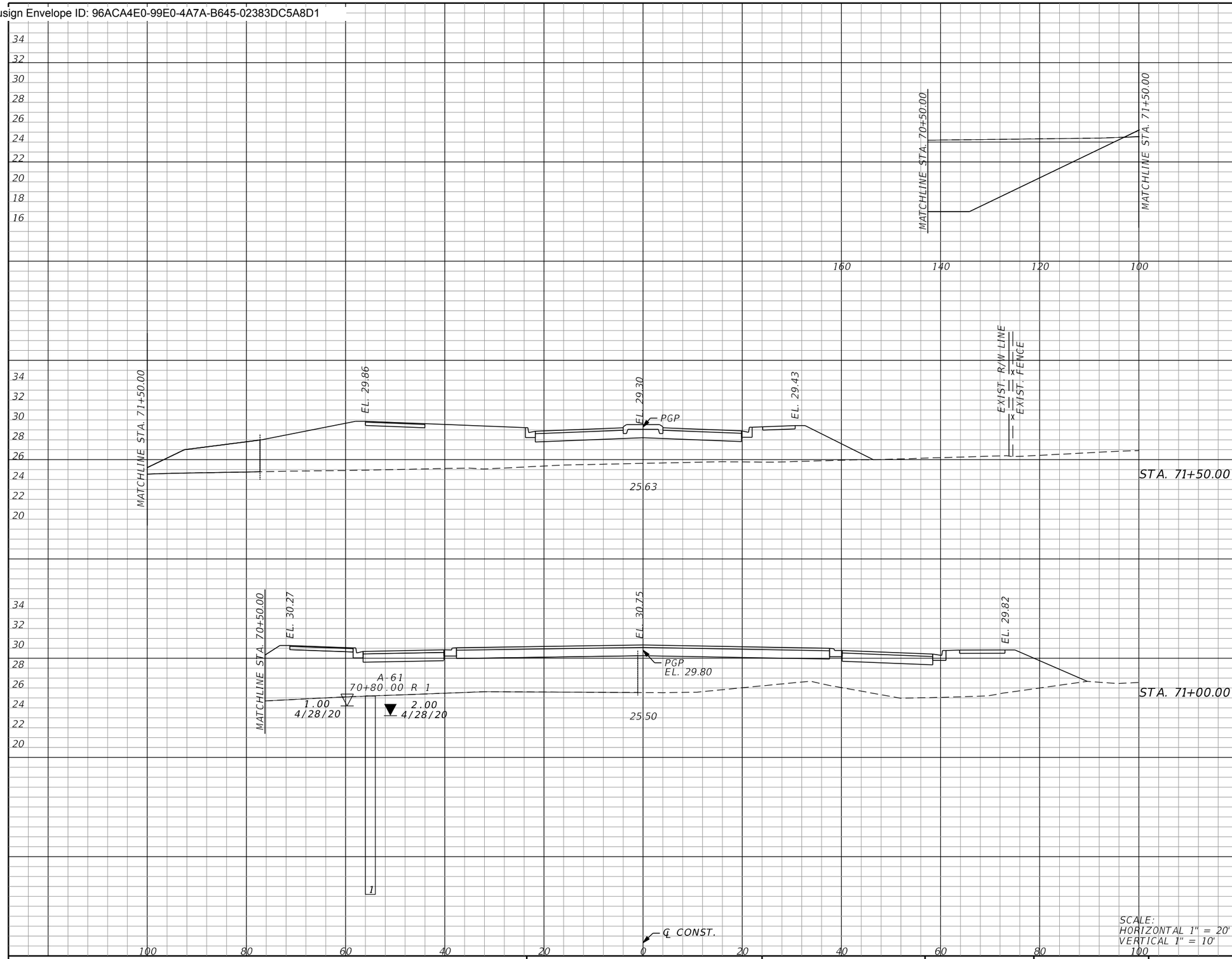
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
163

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0		172.7		448.4	
	0.0		159.9		959.7
0.0		0.0		588.1	
	0.0		816.8		1249.5

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

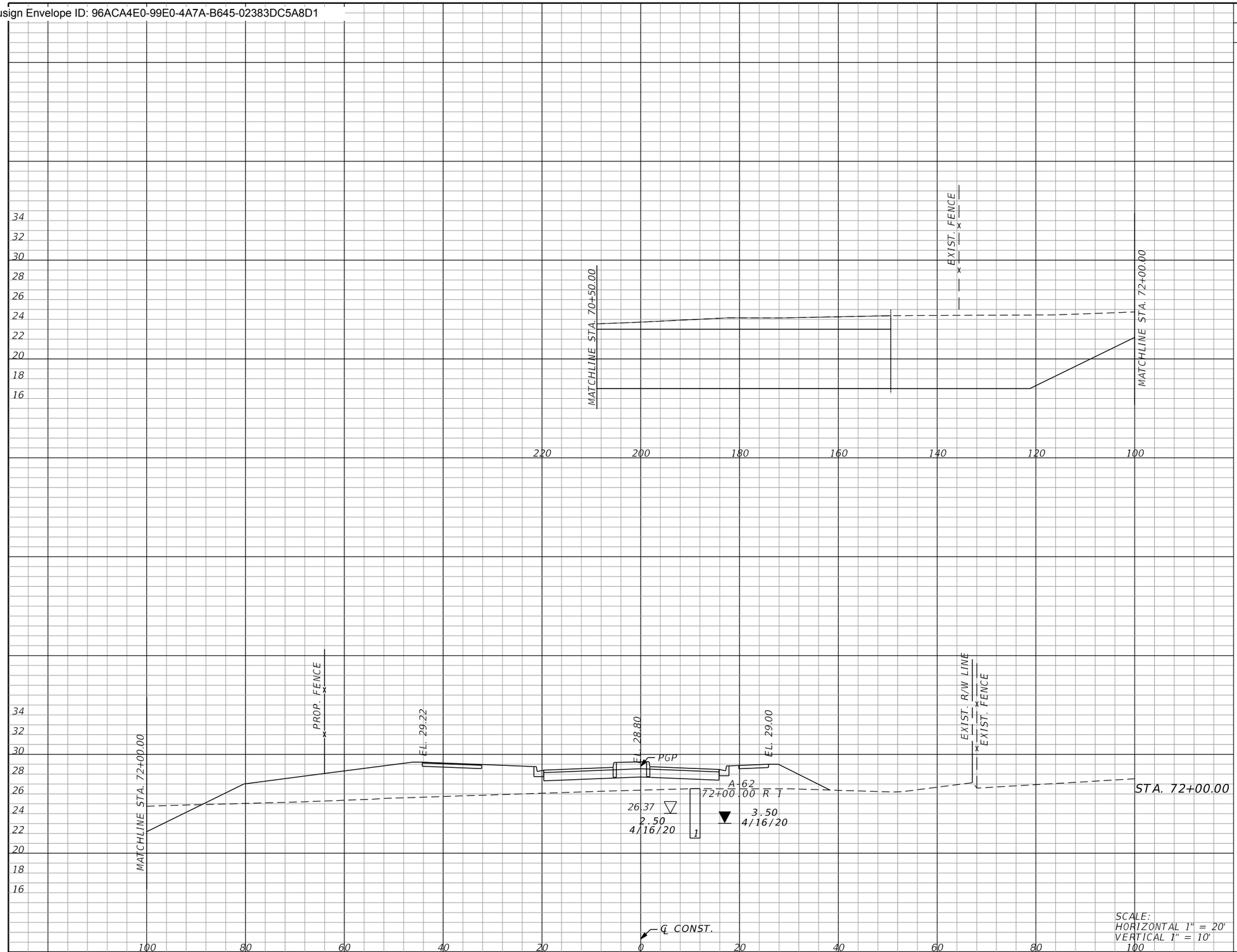
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
164

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		748.3		255.7
	0.0		852.7		651.9

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APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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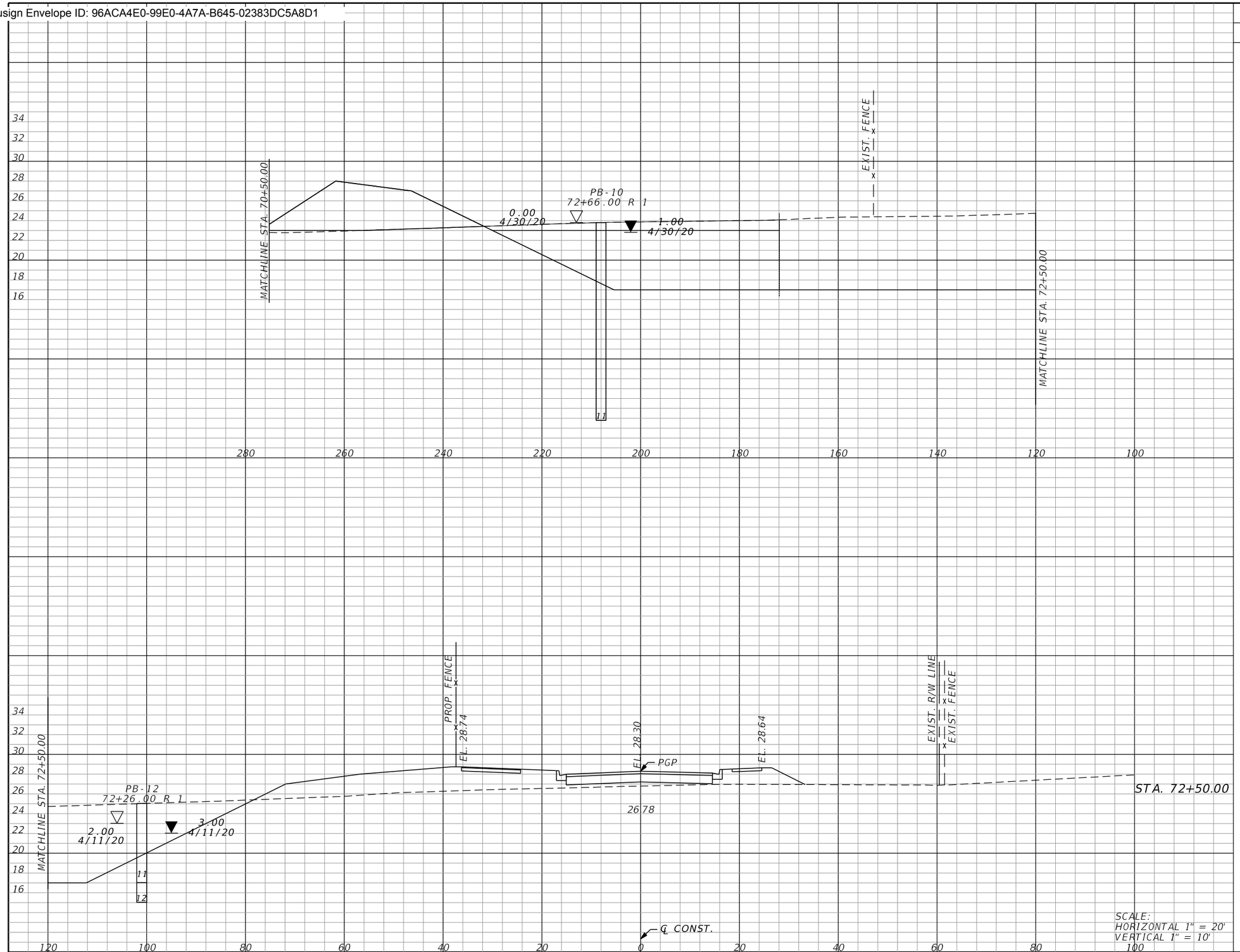
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
165

thompr 10/24/2023 9:29:11 AM Rdxsrd_shg Z:\Infra\2019\B190839.00 - William Burgess Corridor\CAD\1908391520\roadway\RDXSRD02.dgn

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		900.7		282.5
	0.0		1526.8		498.3

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

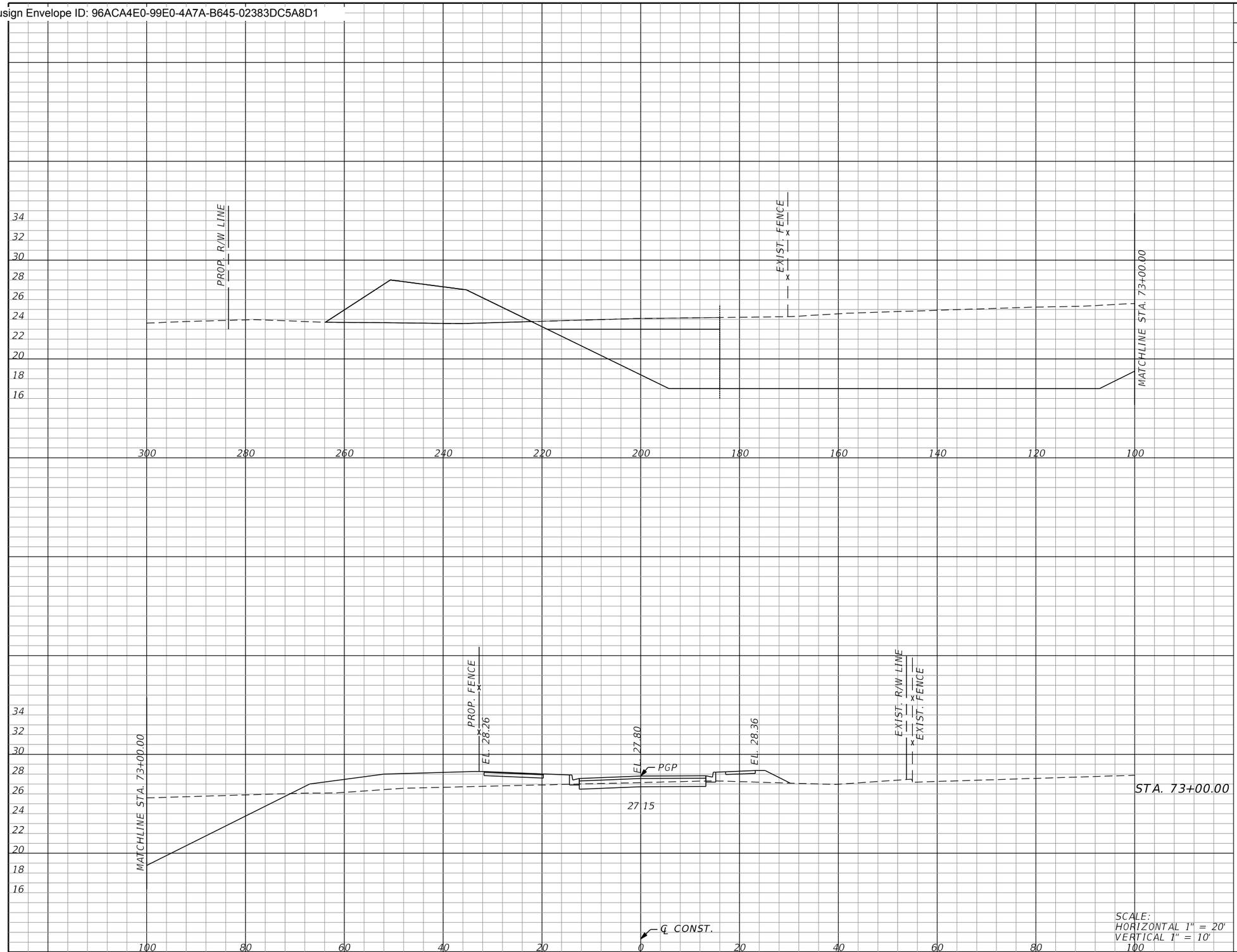
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
166

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		939.8		190.6
	0.0		1704.1		438.1

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DATE:	10/24/2023
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APPROVED:	RH

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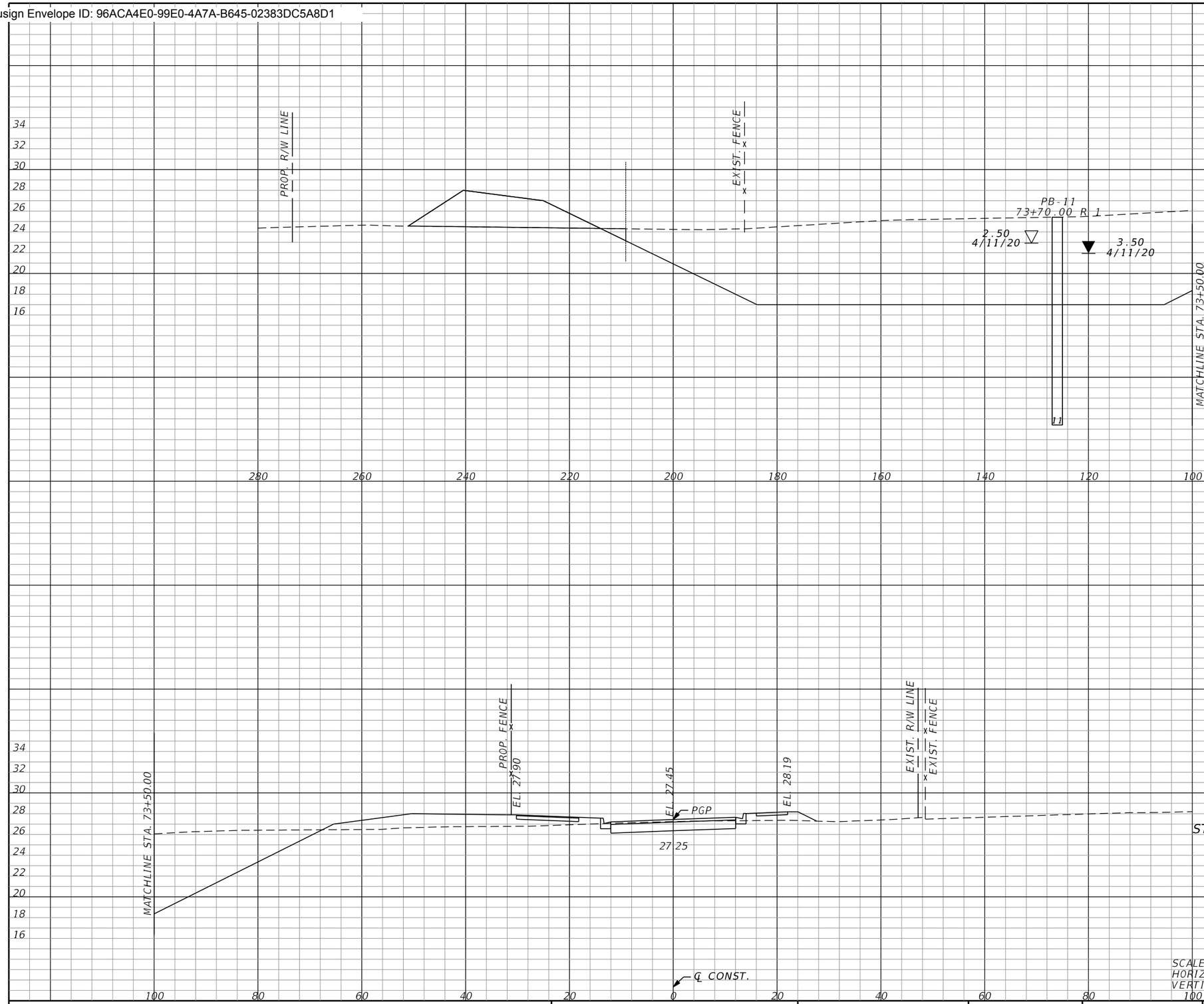
SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
167

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		945.3		135.5
	0.0		1745.4		301.9

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

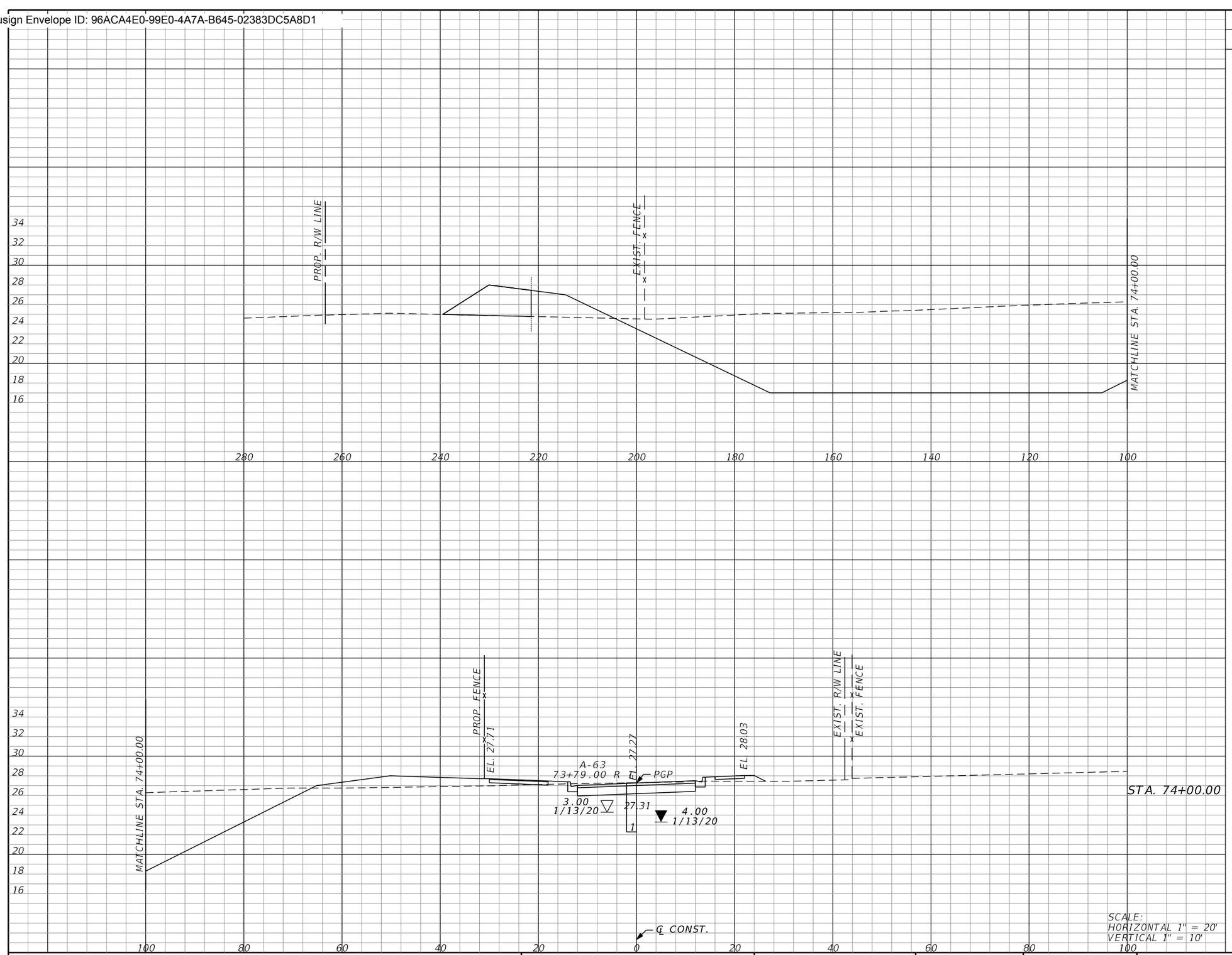
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
168

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		914.5		104.8
	0.0		1722.0		222.5

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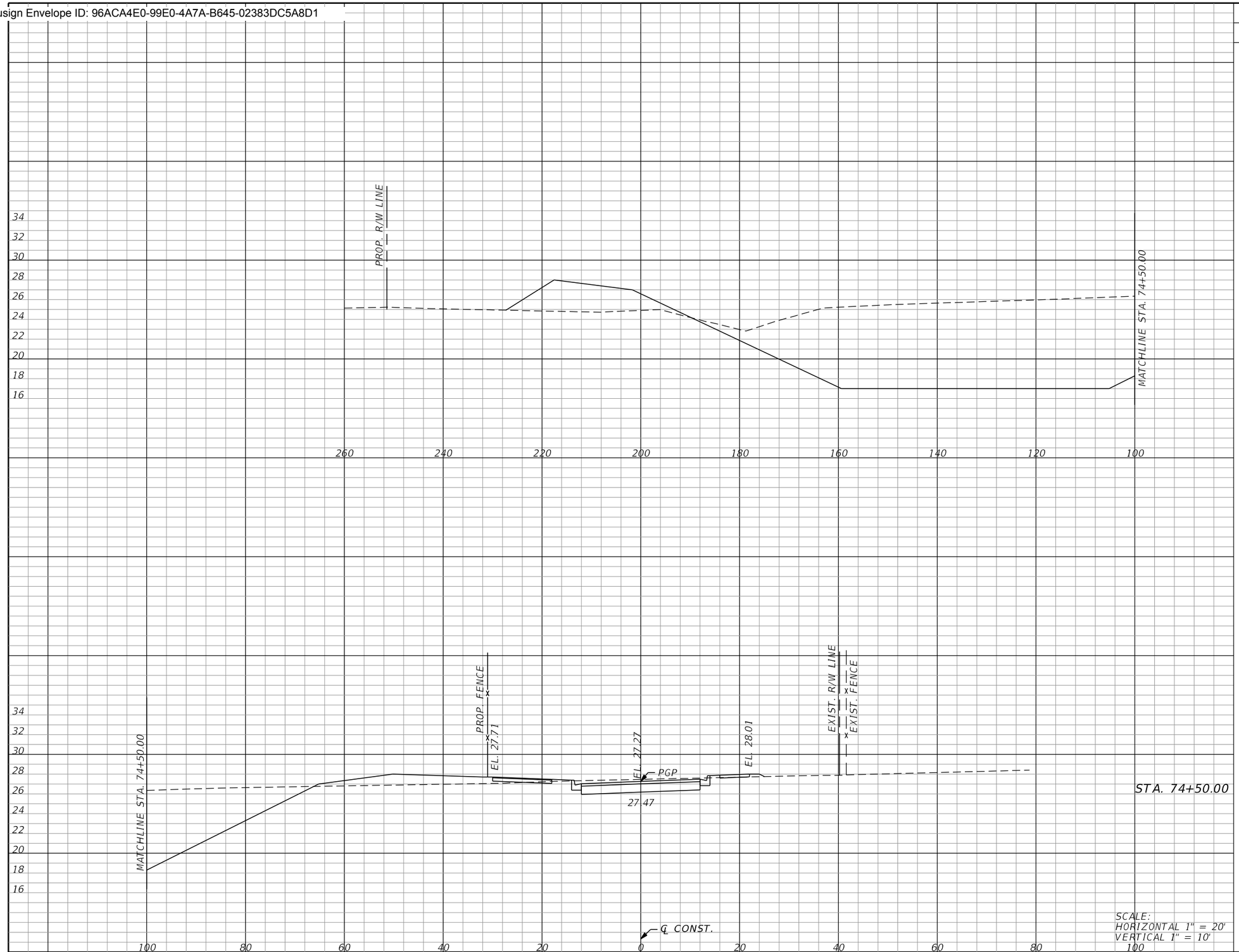
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
169

thompr 10/24/2023 9:29:12 AM Rdxsrd_shg Z:\Infra\2019\B190839.00 - William Burgess Corridor\CAD\1908391520\roadway\RDXSRD02.dgn

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		795.8		98.6
	0.0		1583.6		188.3

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DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
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CROSS SECTIONS

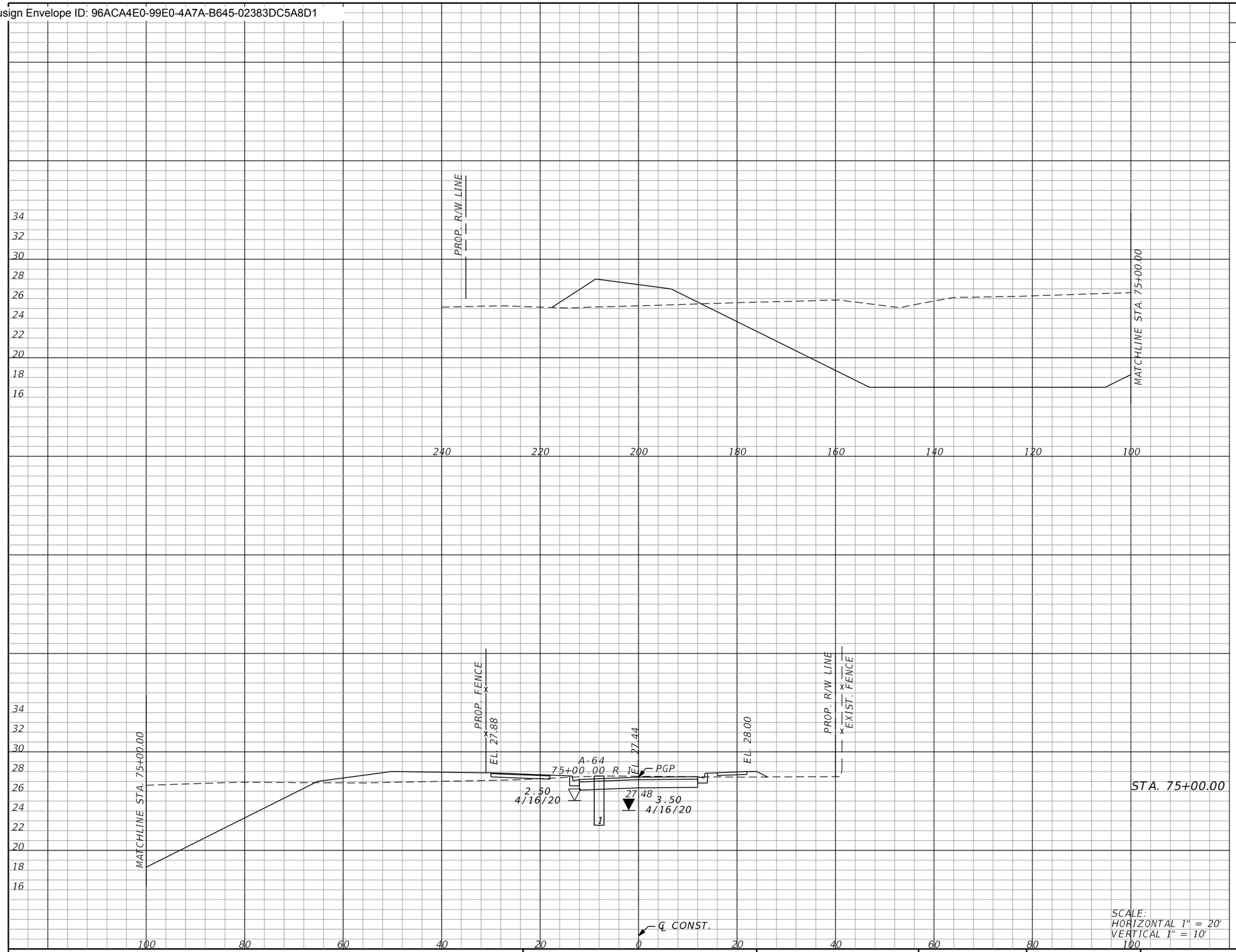
WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
170

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thompr 10/24/2023 9:29:12 AM Rdxsrd_shg Z:\Infra\2019\B190839.00 - William Burgess Corridor\CAD\1908391520\roadway\RDXSRD02.dgn

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
STA. 75+00.00					
0.0	0.0	807.0	1484.0	87.0	171.8

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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APPROVED:	RH

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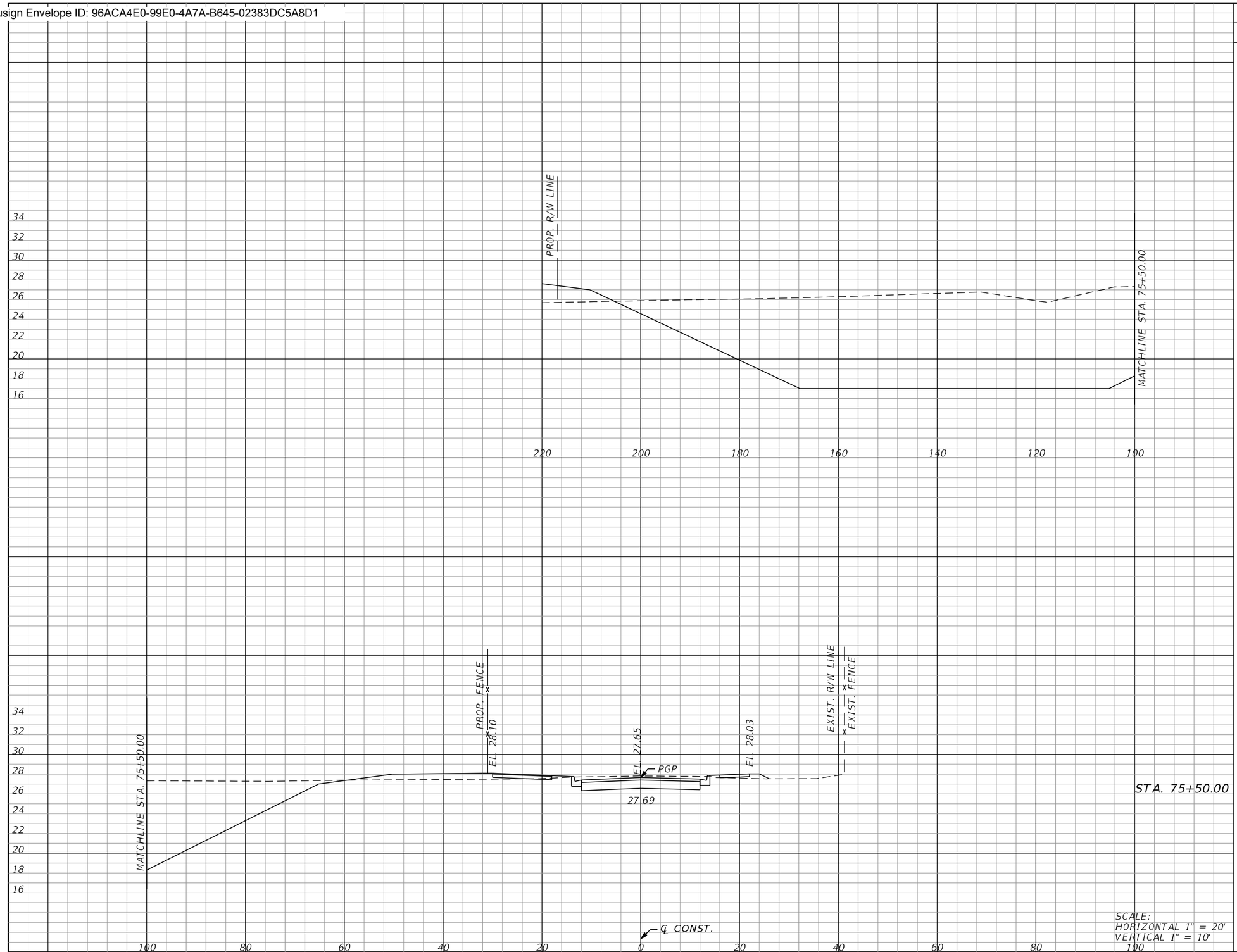
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
171

thompr 10/24/2023 9:29:12 AM Rdxsrd_shg Z:\Infra\2019\B190839.00 - William Burgess Corridor\CAD\1908391520\roadway\RDXSRD02.dgn

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	101.3	841.0	59.0	135.2

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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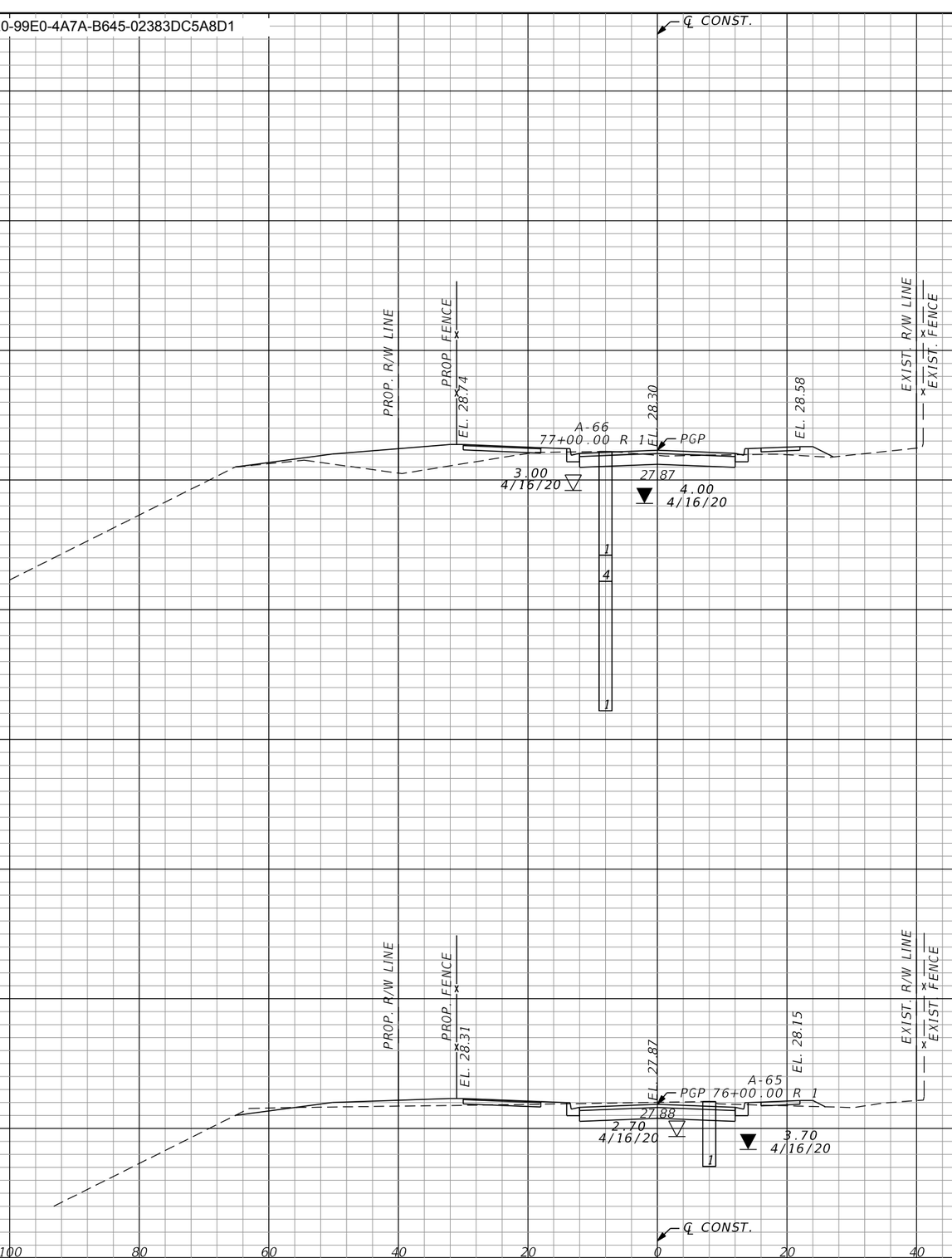
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
172

thompr 10/24/2023 9:29:12 AM Rdxsrd_shg Z:\Infra\2019\B190839.00 - William Burgess Corridor\CAD\1908391520\roadway\RDXSRD02.dgn

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



	Subsoil Exc.		Regular Exc.		Embankment	
	A	V	A	V	A	V
STA. 77+00.00	0.0	0.0	24.5	114.4	46.2	141.4
STA. 76+00.00	0.0	0.0	38.1	115.8	13.3	110.0
		0.0	129.0		66.9	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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APPROVED:	RH

PROJECT NO. / DASH NO.
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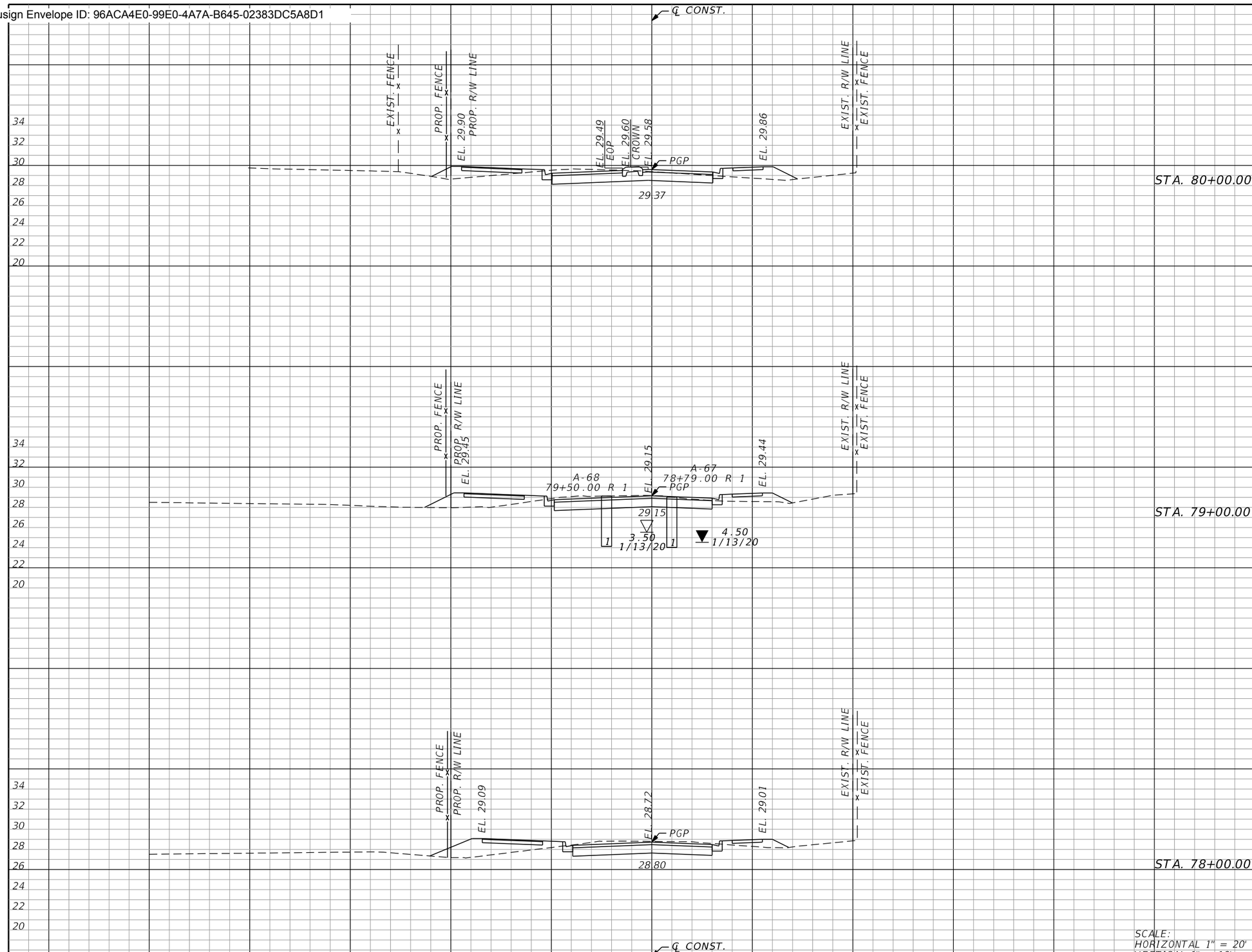
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
173

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	36.2	116.8	22.9	99.9
0.0	0.0	38.3	137.9	26.0	90.5
0.0	0.0	37.3	139.9	30.2	104.1

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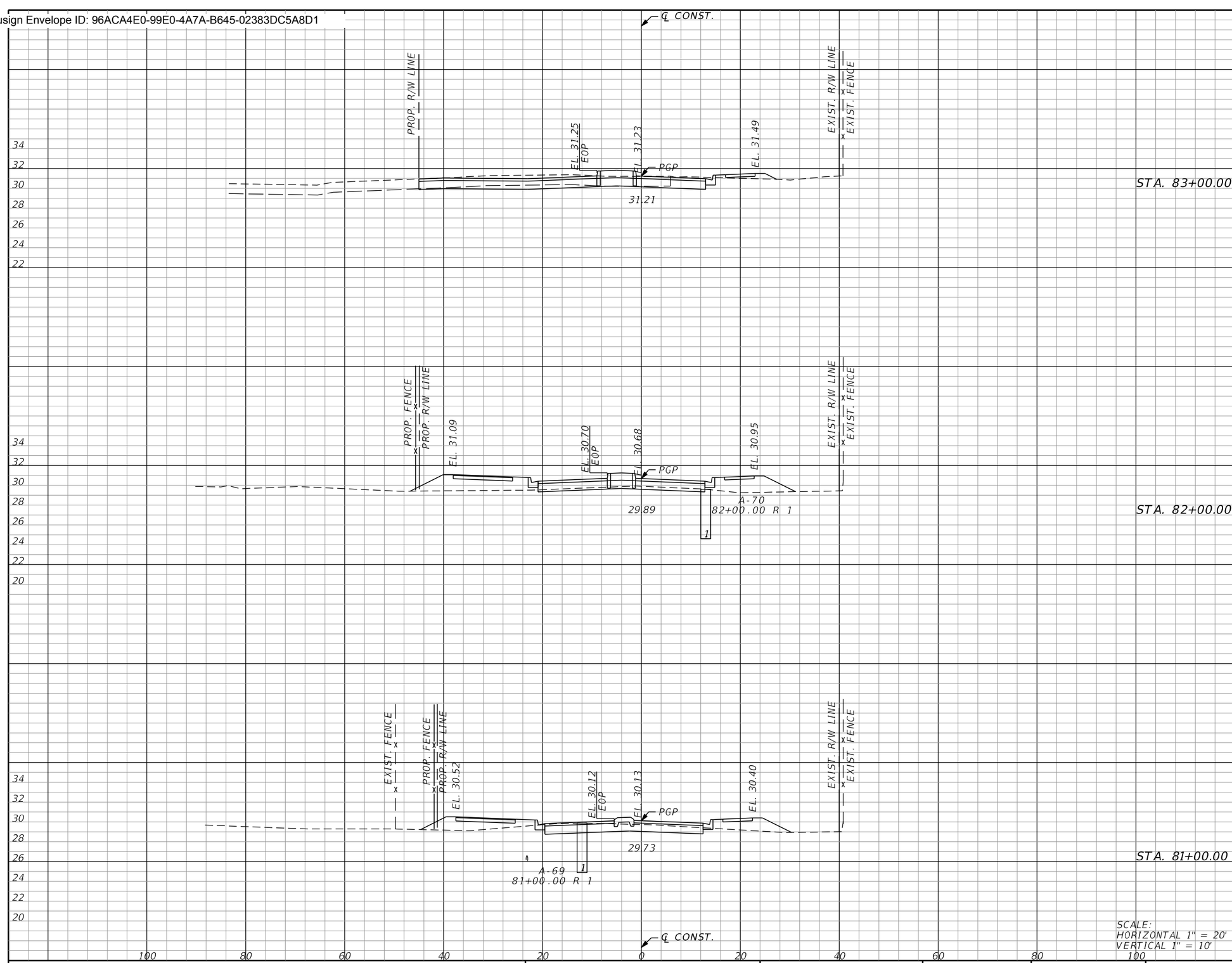
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
174

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



	Subsoil Exc.		Regular Exc.		Embankment	
	A	V	A	V	A	V
		0.0		76.9		37.4
STA. 83+00.00	0.0		20.7		3.3	
		0.0		53.3		91.2
STA. 82+00.00	0.0		8.2		46.0	
		0.0		64.8		142.8
STA. 81+00.00	0.0		26.9		31.1	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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APPROVED:	RH

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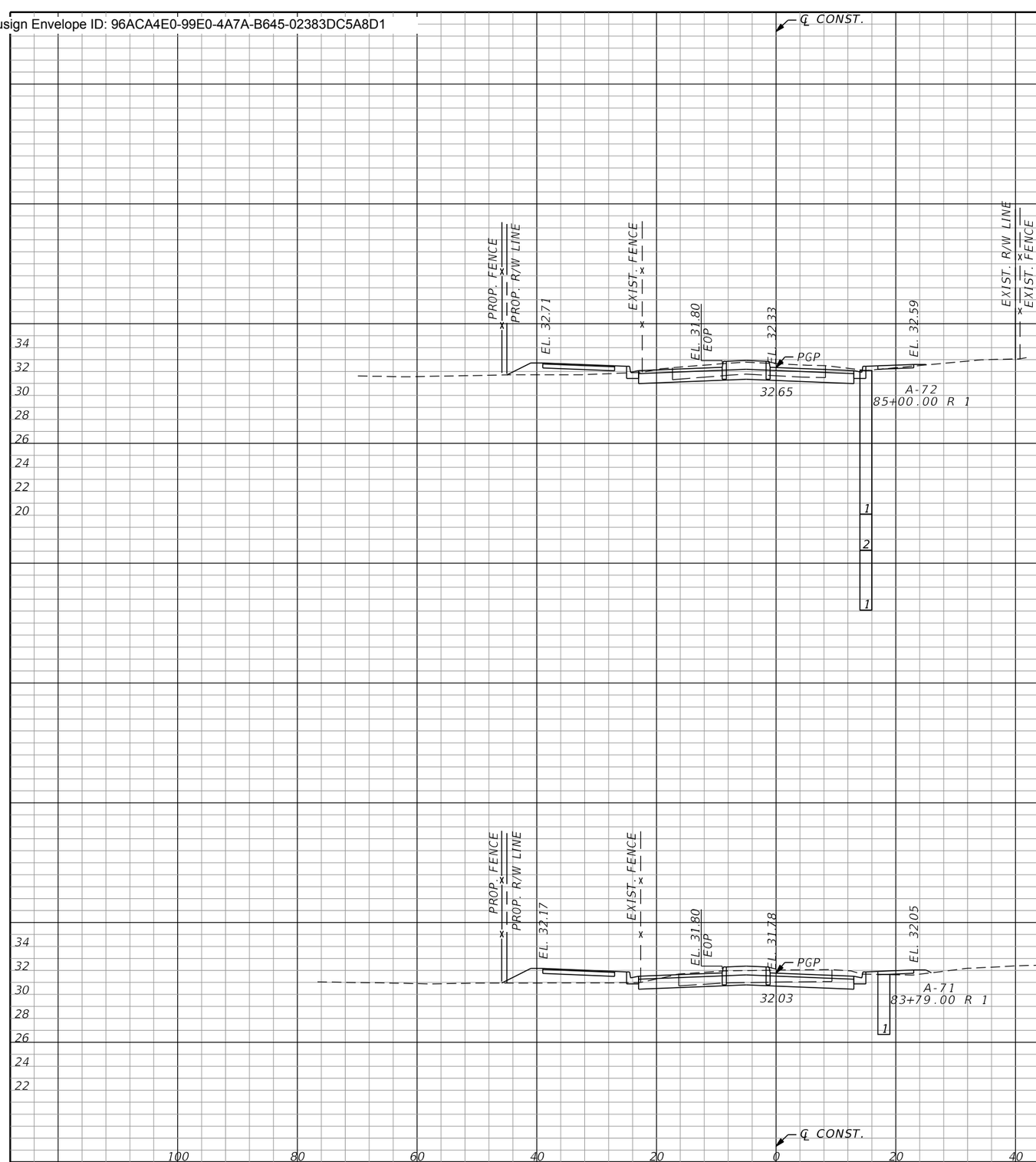
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
175

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



	Subsoil Exc.		Regular Exc.		Embankment	
	A	V	A	V	A	V
STA. 85+00.00	0.0	0.0	24.7	64.8	11.1	34.6
STA. 84+00.00	0.0	0.0	20.9	84.3	17.0	51.9

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

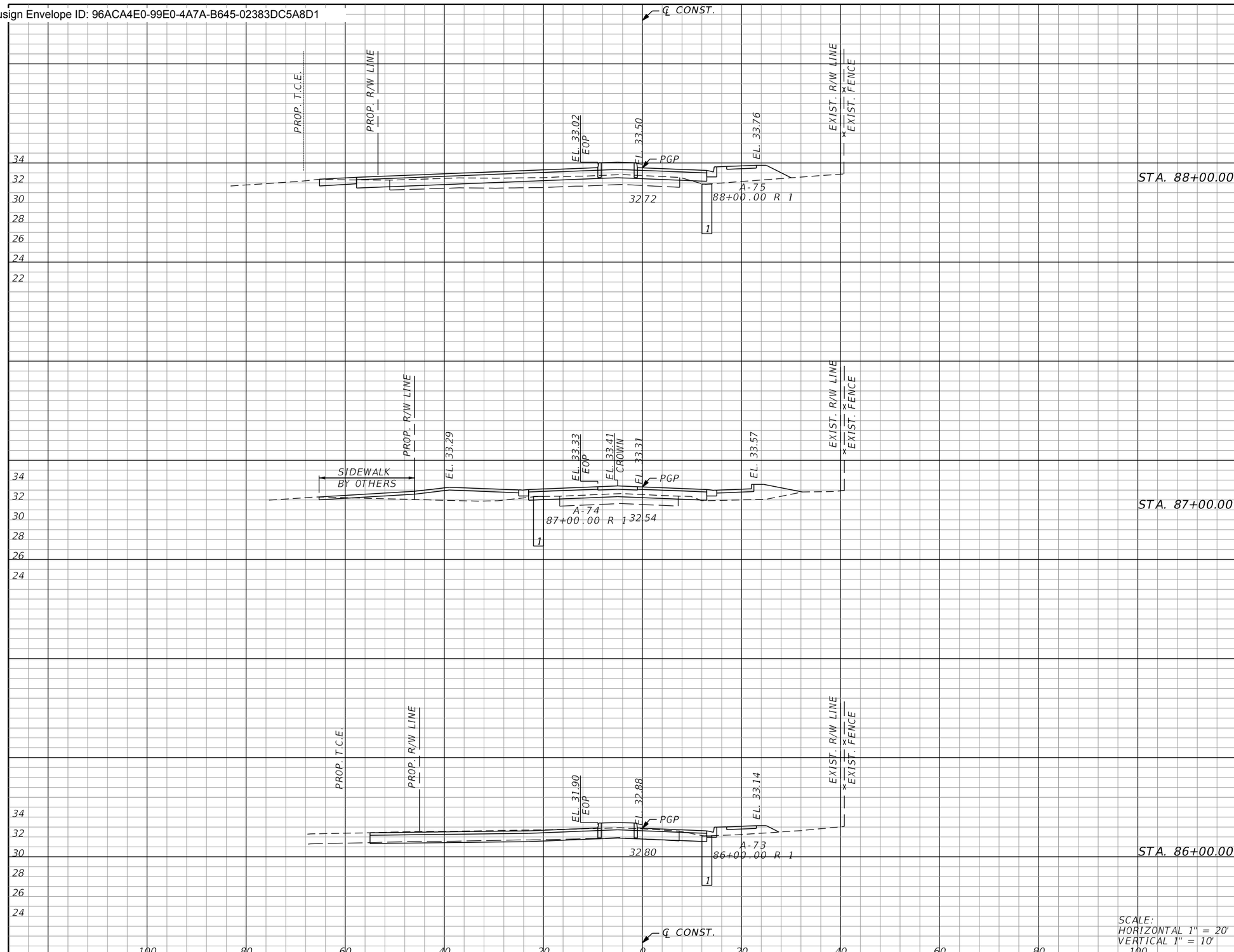
This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
176

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



	Subsoil Exc.		Regular Exc.		Embankment	
	A	V	A	V	A	V
STA. 88+00.00	0.0	0.0	9.3	29.2	53.5	216.0
STA. 87+00.00	0.0	0.0	4.1	24.7	54.9	200.6
STA. 86+00.00	0.0	0.0	10.4	26.7	7.7	115.7

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

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CHECKED:	RT
APPROVED:	RH

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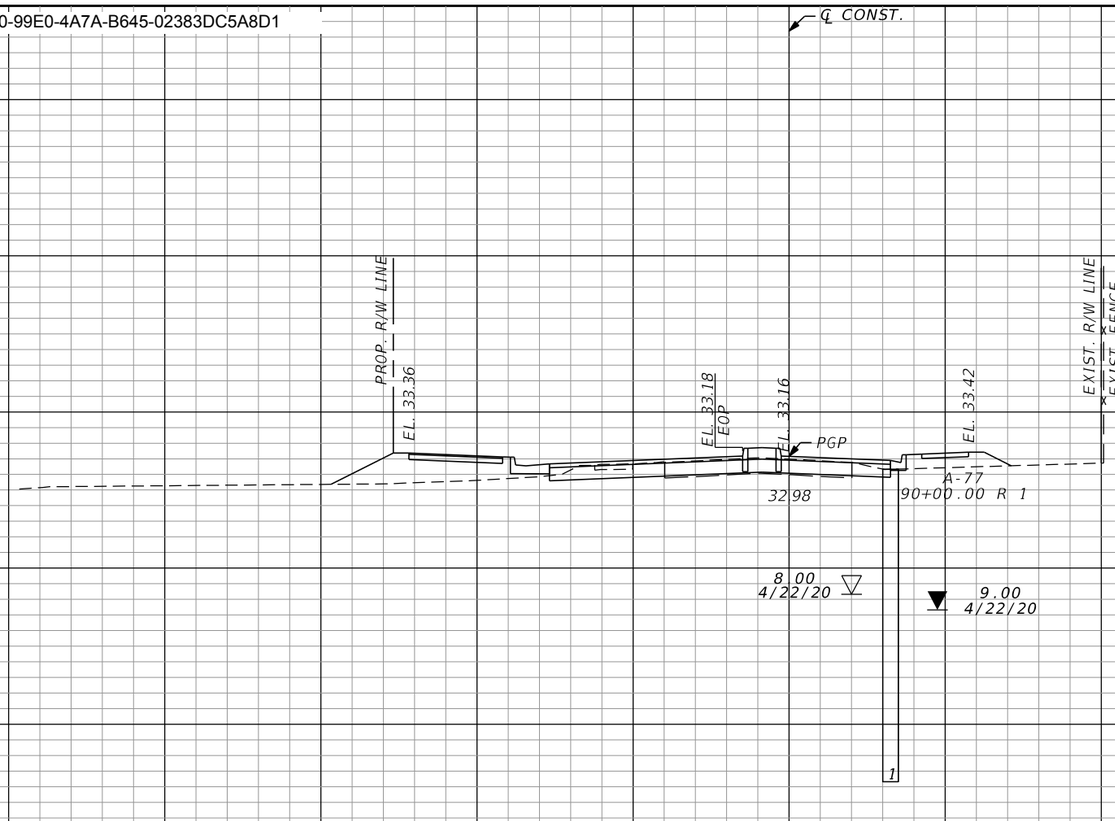
PROJECT NO. / DASH NO.
B190839.00

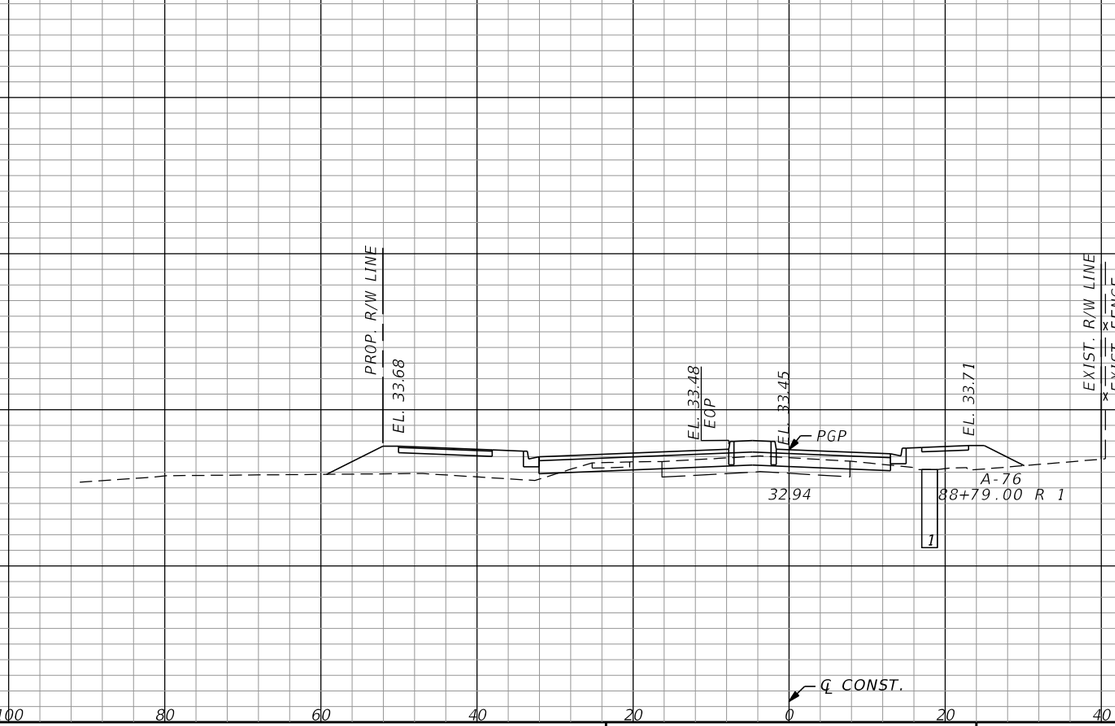
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
177

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1





	Subsoil Exc.		Regular Exc.		Embankment	
	A	V	A	V	A	V
STA. 90+00.00	0.0	0.0	13.7	62.9	40.8	1501.2
STA. 89+00.00	0.0	0.0	6.5	37.2	63.2	192.6

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

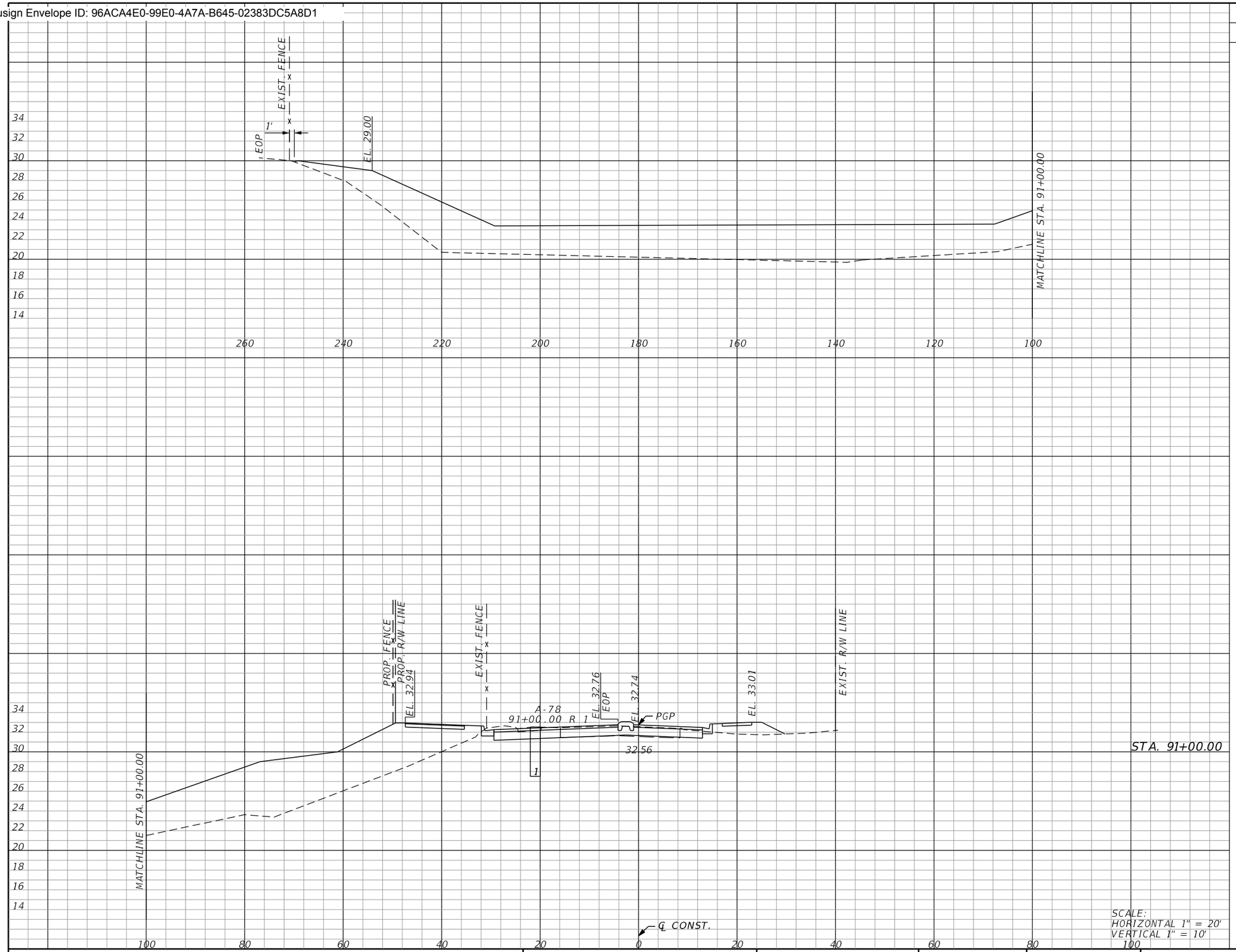
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
178

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
STA. 91+00.00	0.0	20.3	650.9	769.9	2581.4
	0.0				

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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DATE:	10/24/2023
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APPROVED:	RH

PROJECT NO. / DASH NO.
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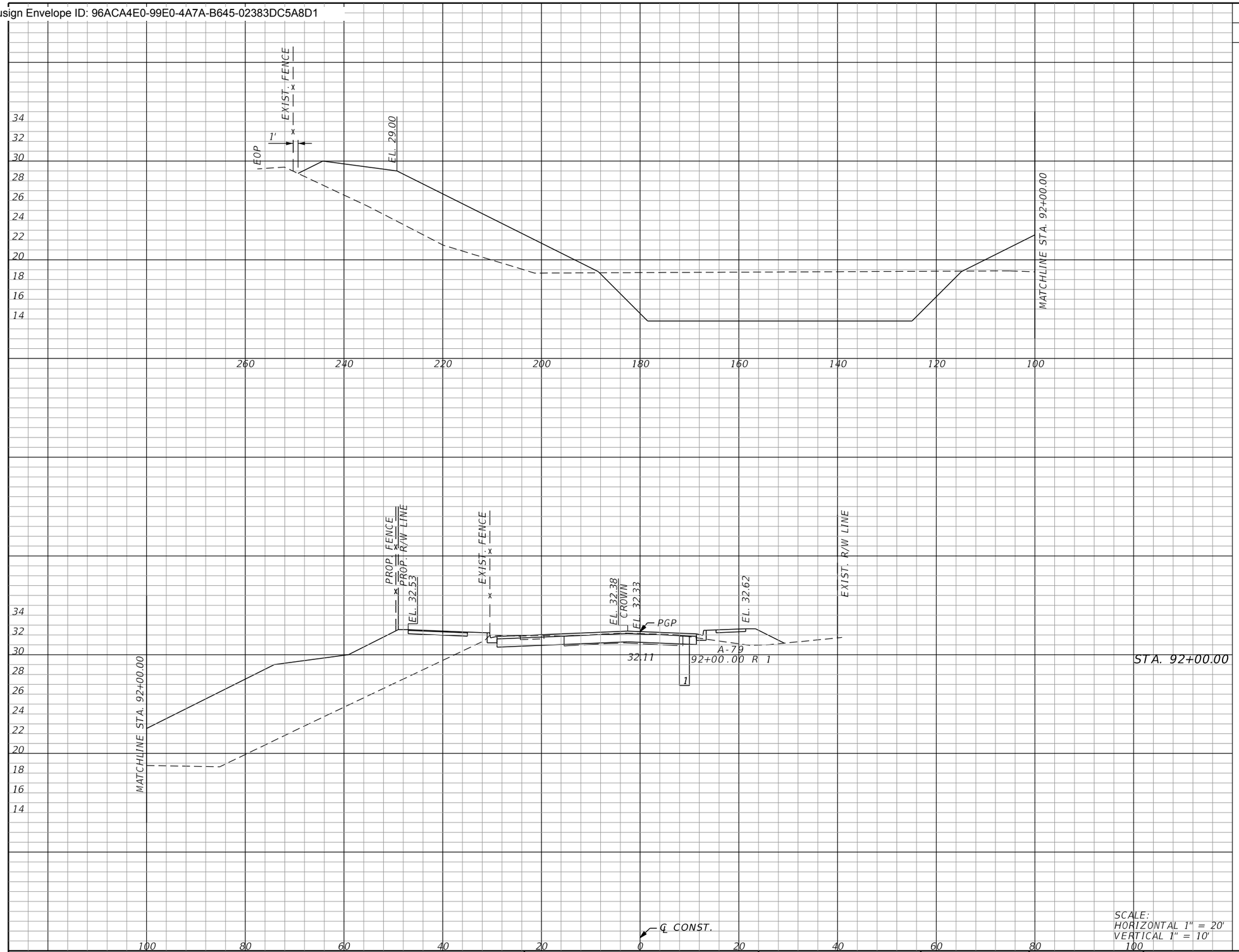
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
179

thompr 10/24/2023 9:29:13 AM Rdxsrd_shg Z:\Infra\2019\B190839.00 - William Burgess Corridor\CAD\190839520\roadway\RDXSRD02.dgn

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		1194.4		2319.4
STA. 92+00.00	0.0		331.2		624.1

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

REVISIONS

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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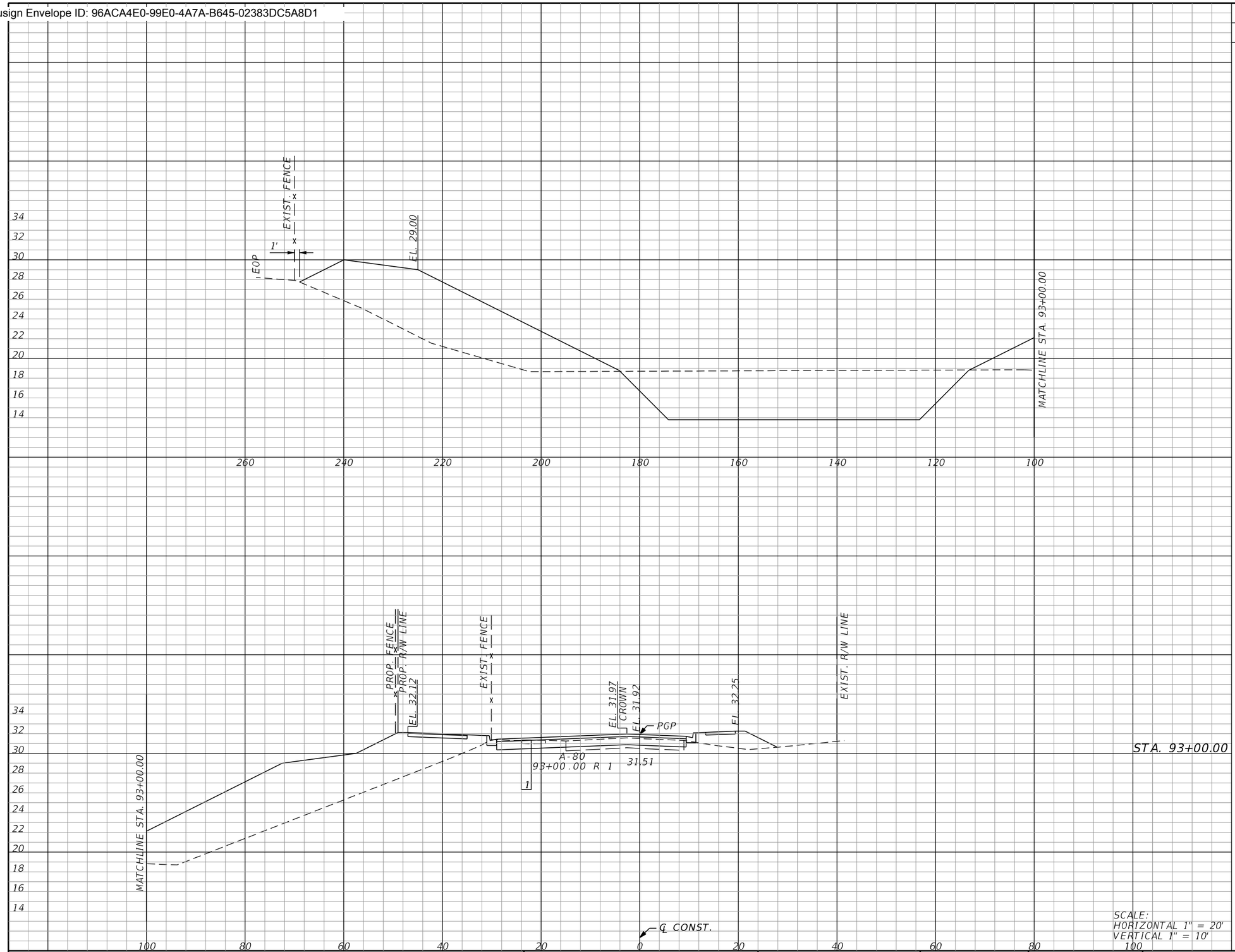
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
180

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		1179.4		2331.5
0.0		313.8		628.4	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

REVISIONS

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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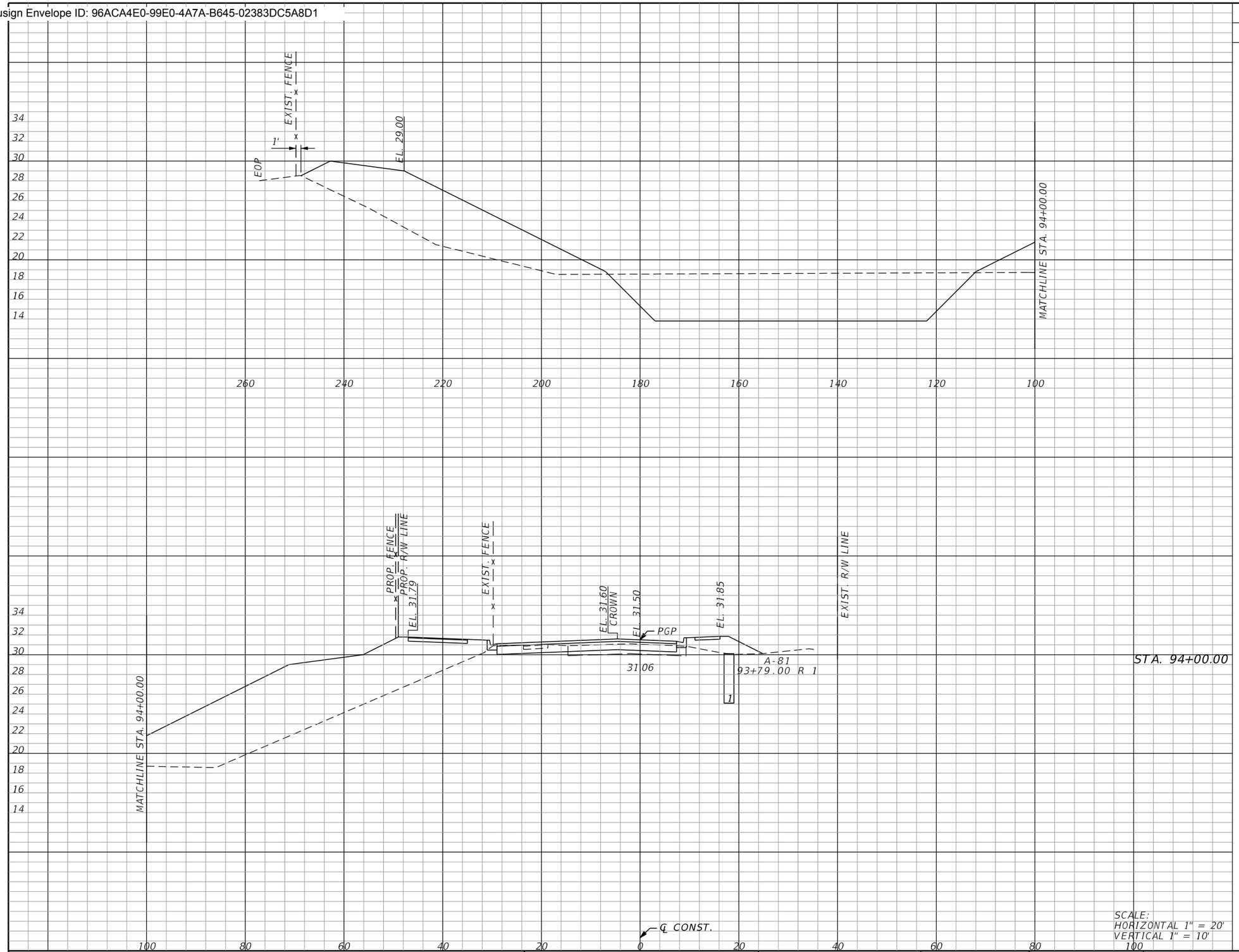
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
181

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		1200.6		2293.1
	0.0		323.1		630.7

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

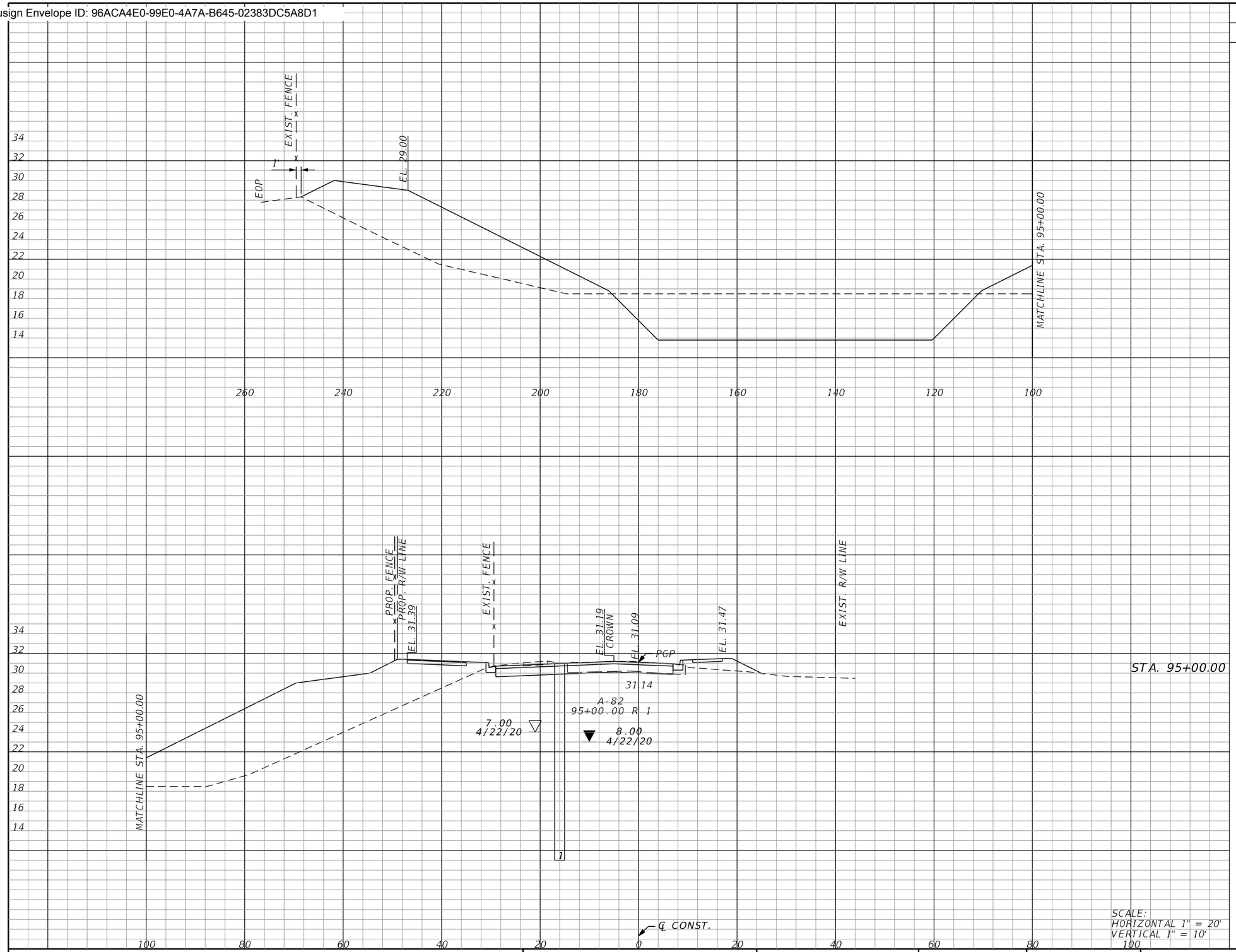
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
182

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
STA. 95+00.00	0.0		325.2		607.3
	0.0		1386.9		2216.5

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

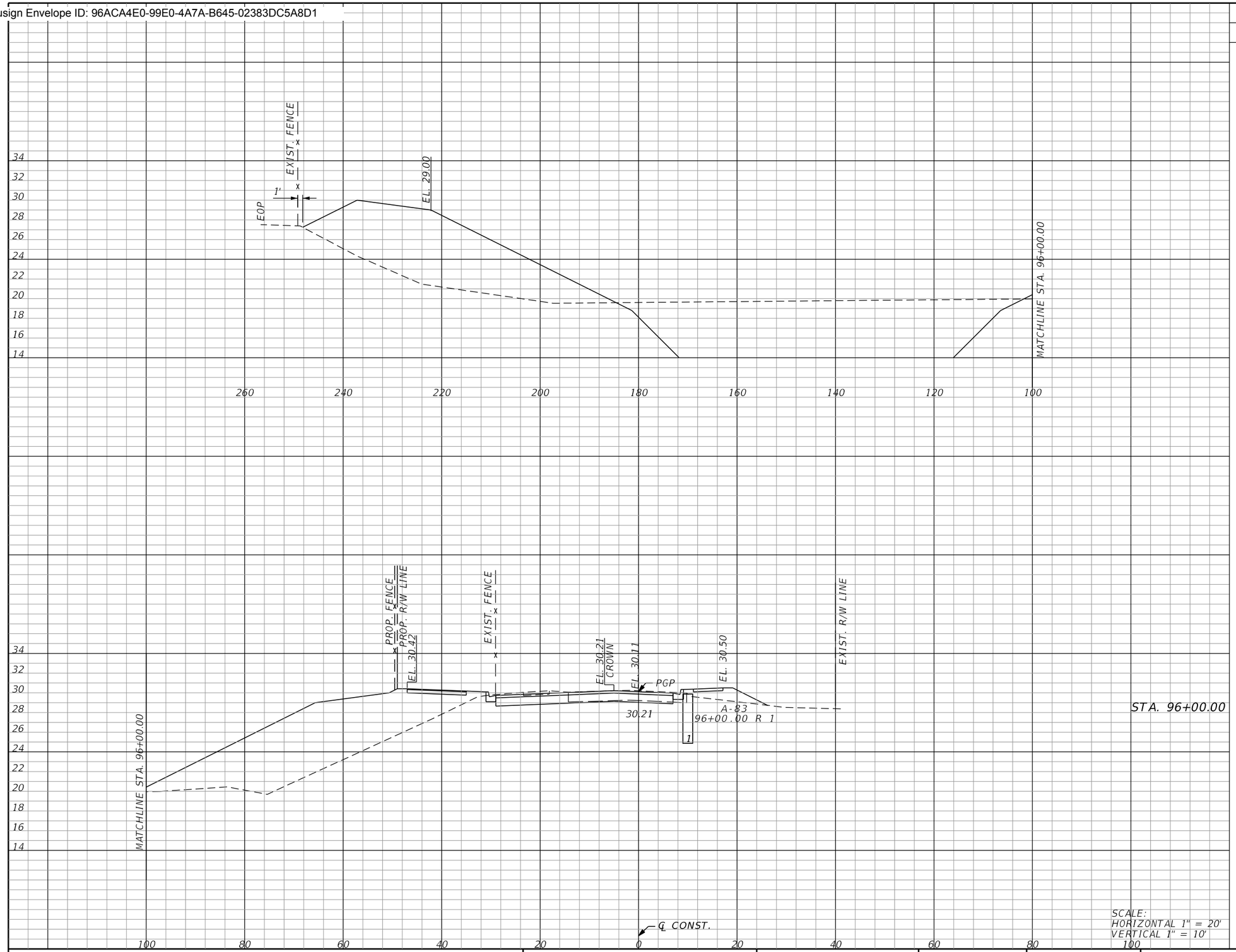
This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
183

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		1383.4		2346.9
STA. 96+00.00	0.0	423.8		589.3	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

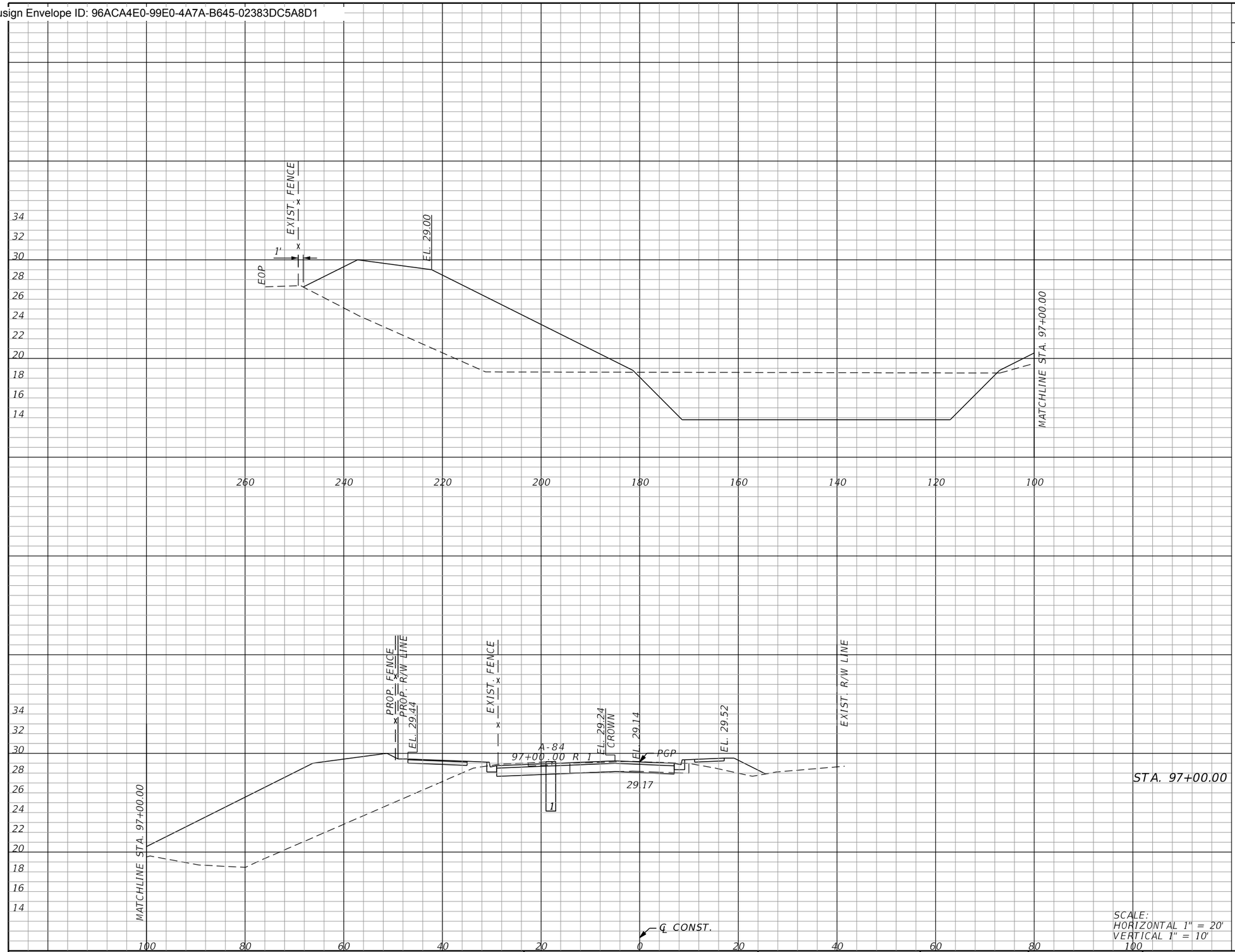
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
184

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		1200.2		2386.3
STA. 97+00.00	0.0		323.3		678.0

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

REVISIONS

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APPROVED:	RH

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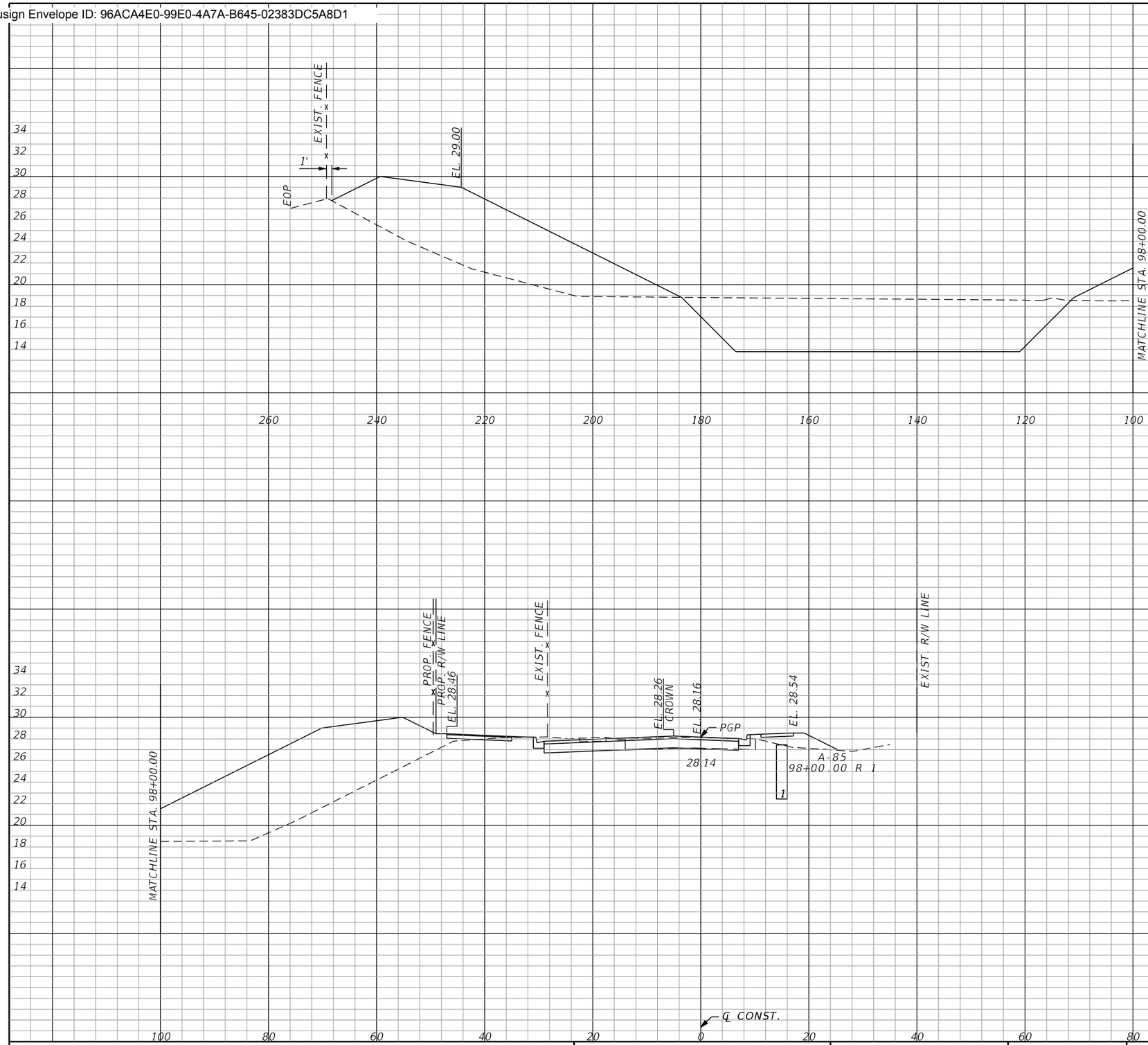
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
185

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		624.4		1163.7
	0.0		324.8		610.6

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

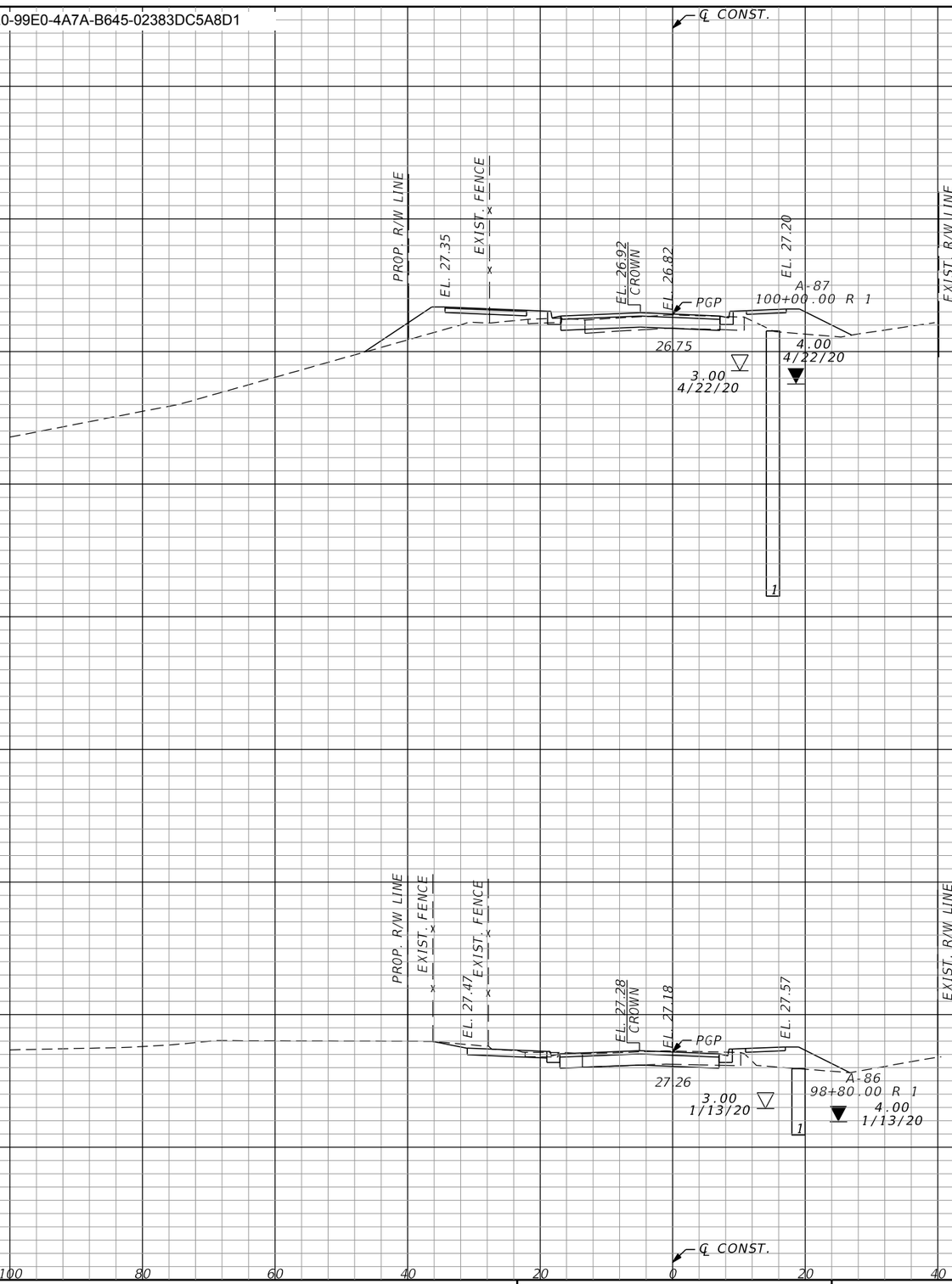
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
186

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



STA. 100+00.00

STA. 99+00.00

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		17.6		334.3
		3.5		63.9	
	0.0		29.4		151.2
	0.0		12.4		17.8

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

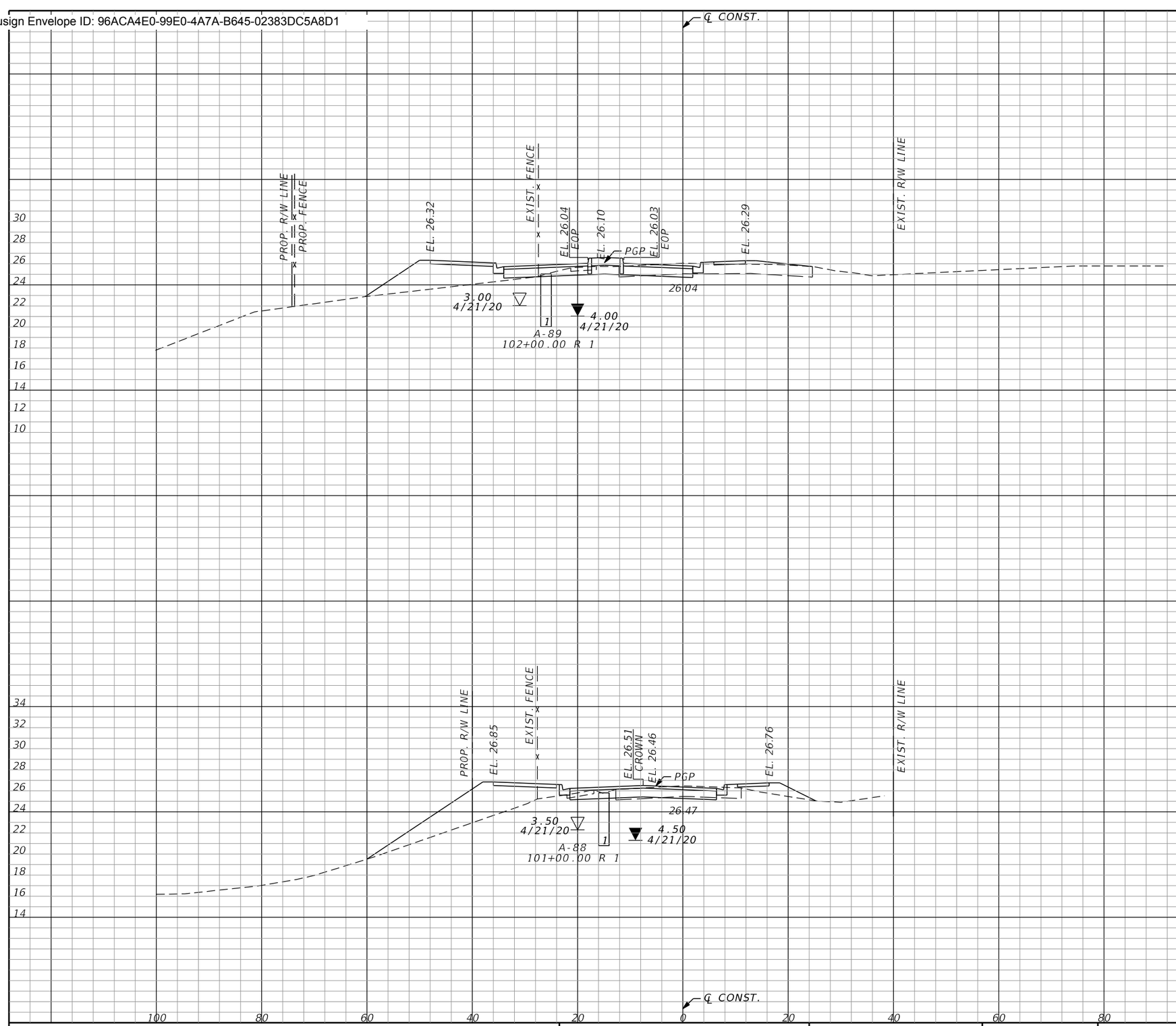
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
187

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		59.0		655.6
STA. 102+00.00					
0.0		9.4		87.1	
	0.0		28.5		377.3
STA. 101+00.00					
0.0		6.0		116.7	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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APPROVED:	RH

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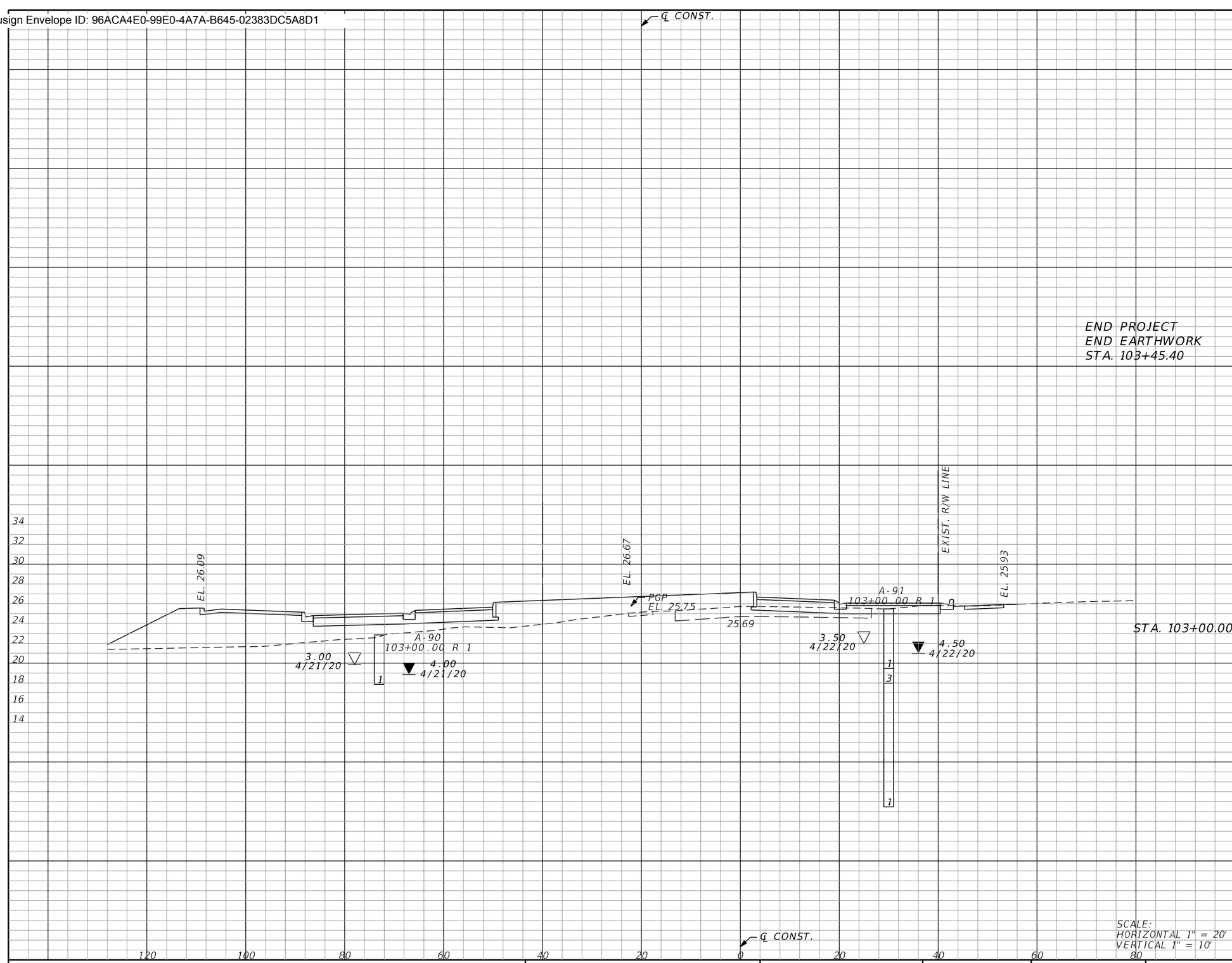
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
188

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	0.0	18.9	0.0	224.4
0.0		22.5		267.0	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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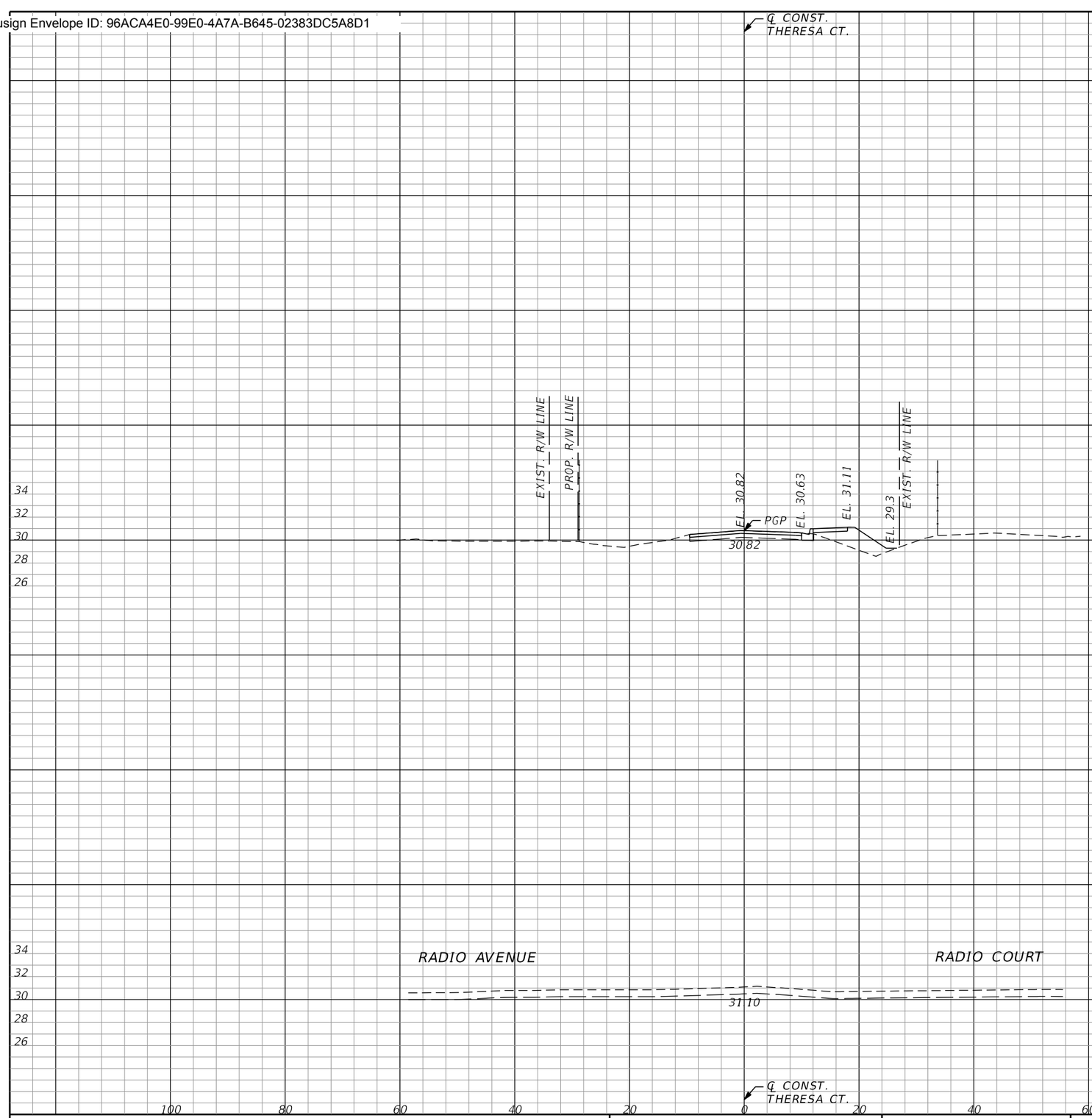
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
189

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



	Subsoil Exc.		Regular Exc.		Embankment	
	A	V	A	V	A	V
		0.0		5.1		2.9
STA. 200+50.00	0.0		0.6		2.9	
BEGIN CONSTRUCTION STA. 200+06.54		0.0		0.6		2.6
STA. 200+00.00	0.0		0.0		0.0	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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12574 Flagler Center Blvd, Suite 202
Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

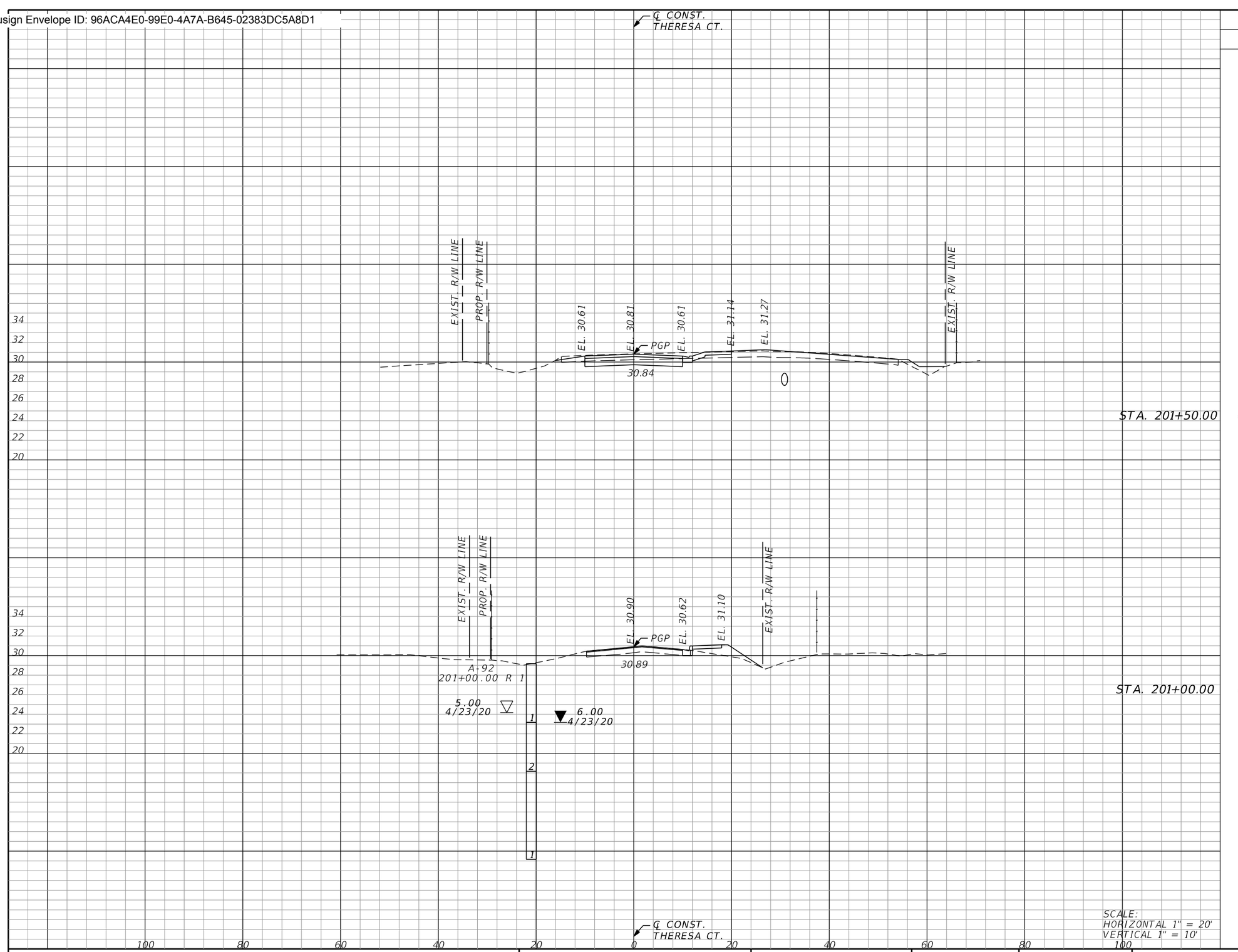
This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
190

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	14.4	21.8	6.3	29.0
0.0	0.0	4.9	17.9	0.3	6.0

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

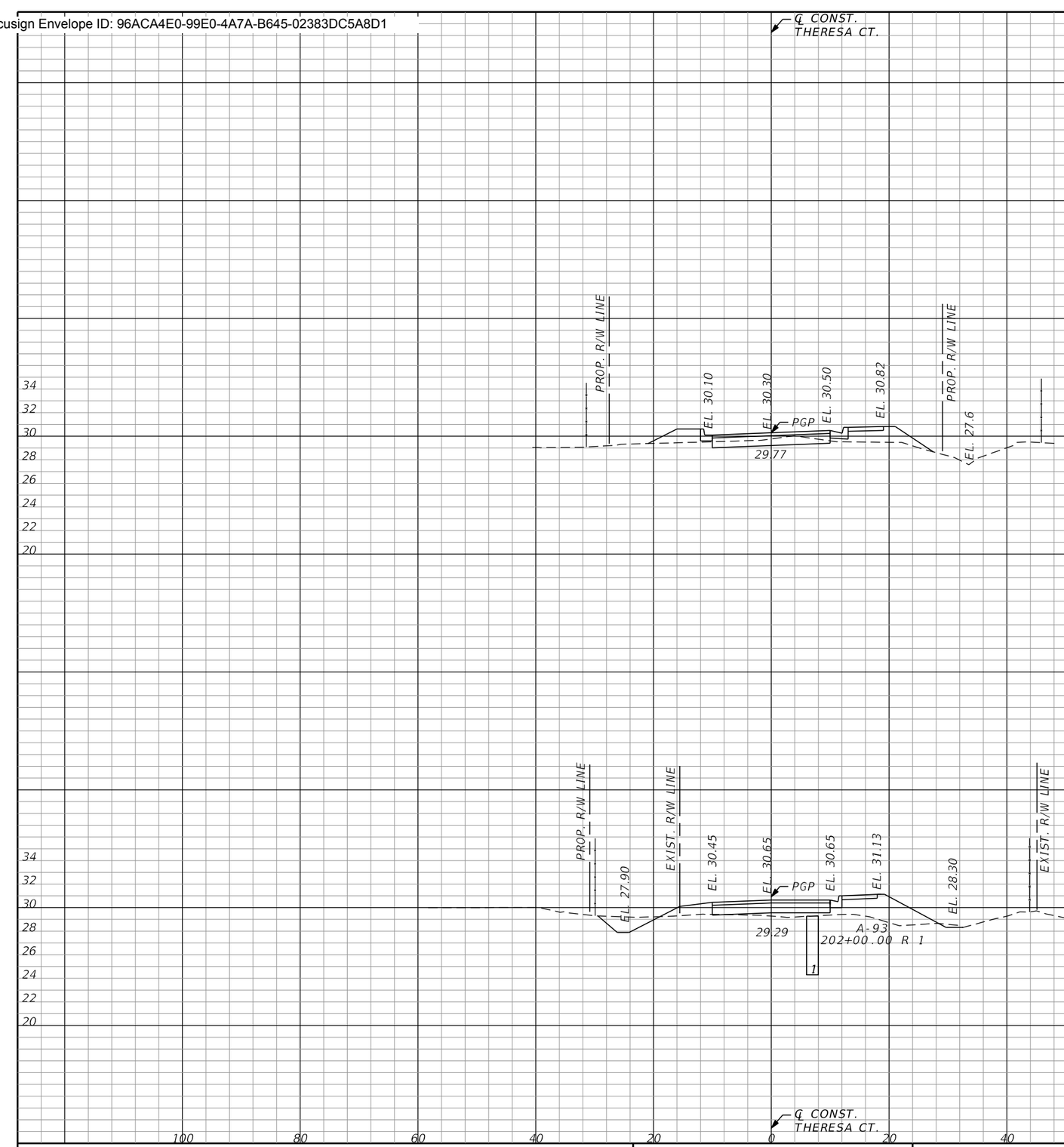
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
191

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



	Subsoil Exc.		Regular Exc.		Embankment	
	A	V	A	V	A	V
STA. 202+50.00	0.0	0.0	26.8	29.9	20.7	67.8
STA. 202+00.00	0.0	0.0	9.1	33.2	25.1	42.4

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

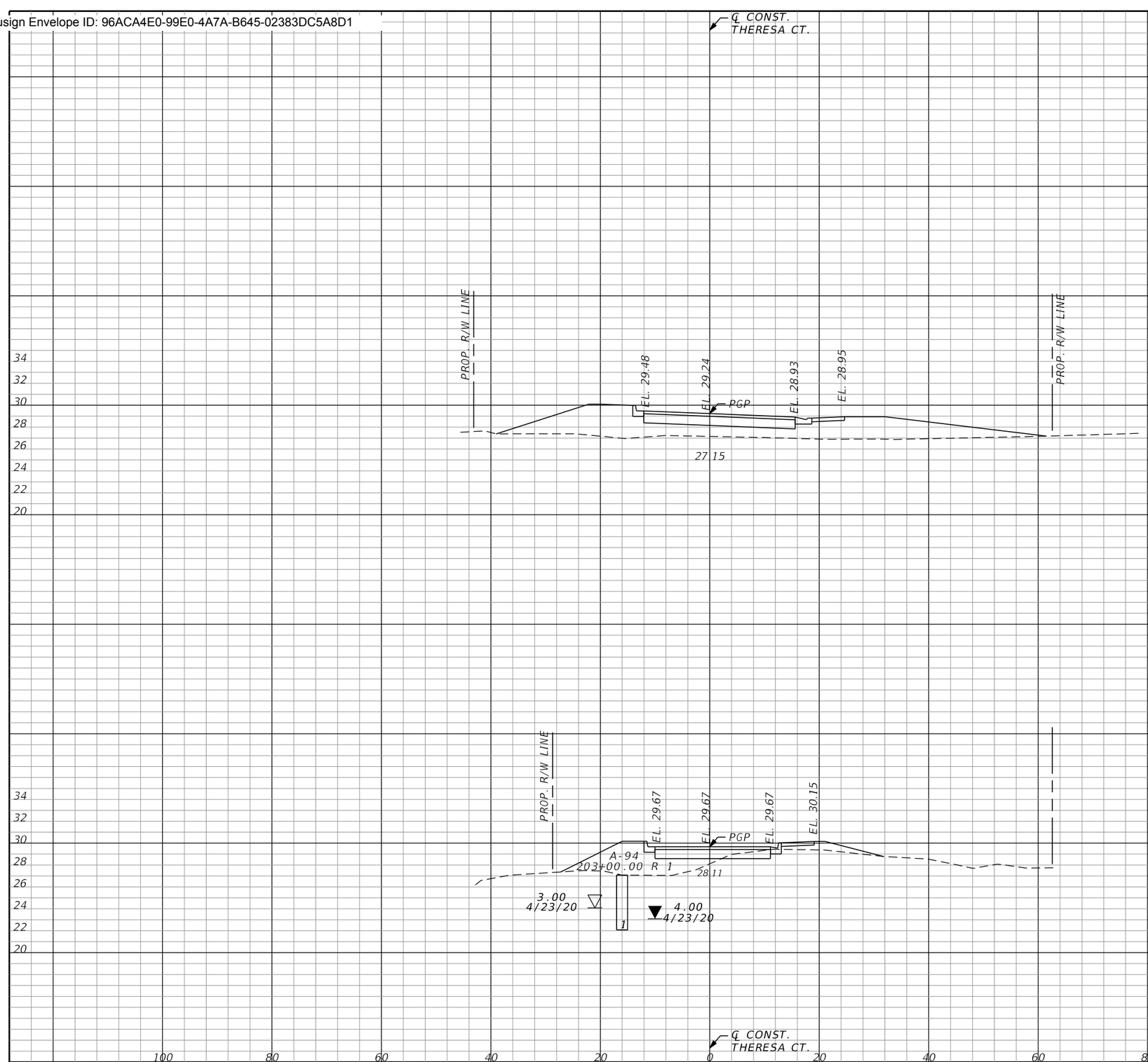
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
192

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



	Subsoil Exc.		Regular Exc.		Embankment	
	A	V	A	V	A	V
STA. 203+50.00	0.0	0.0	0.0	0.0	148.8	308.3
STA. 203+00.00	0.0	0.0	5.5	5.1	52.6	186.4

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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DATE:	10/24/2023
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CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

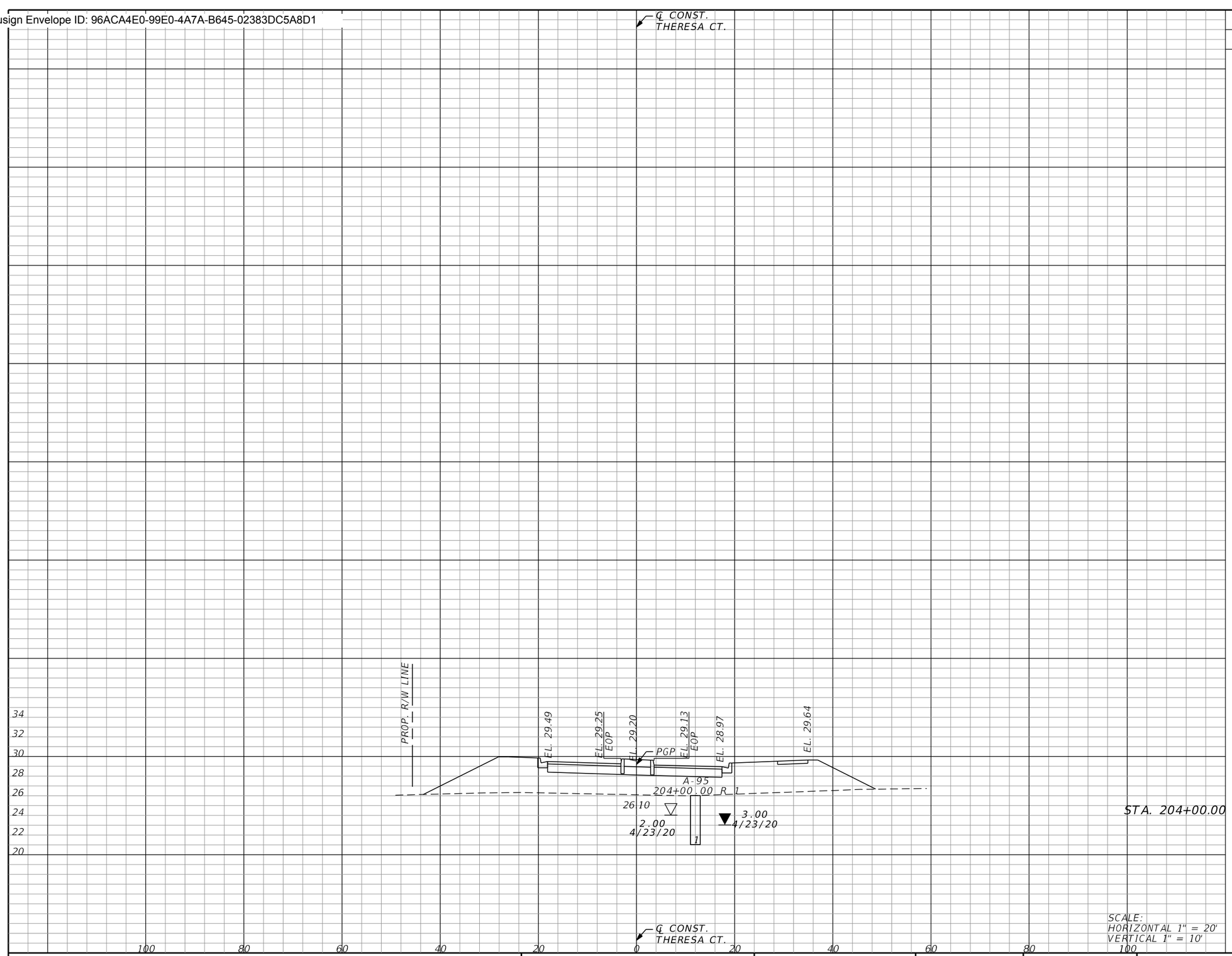
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
193

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
STA. 204+00.00					
0.0		0.0		184.2	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

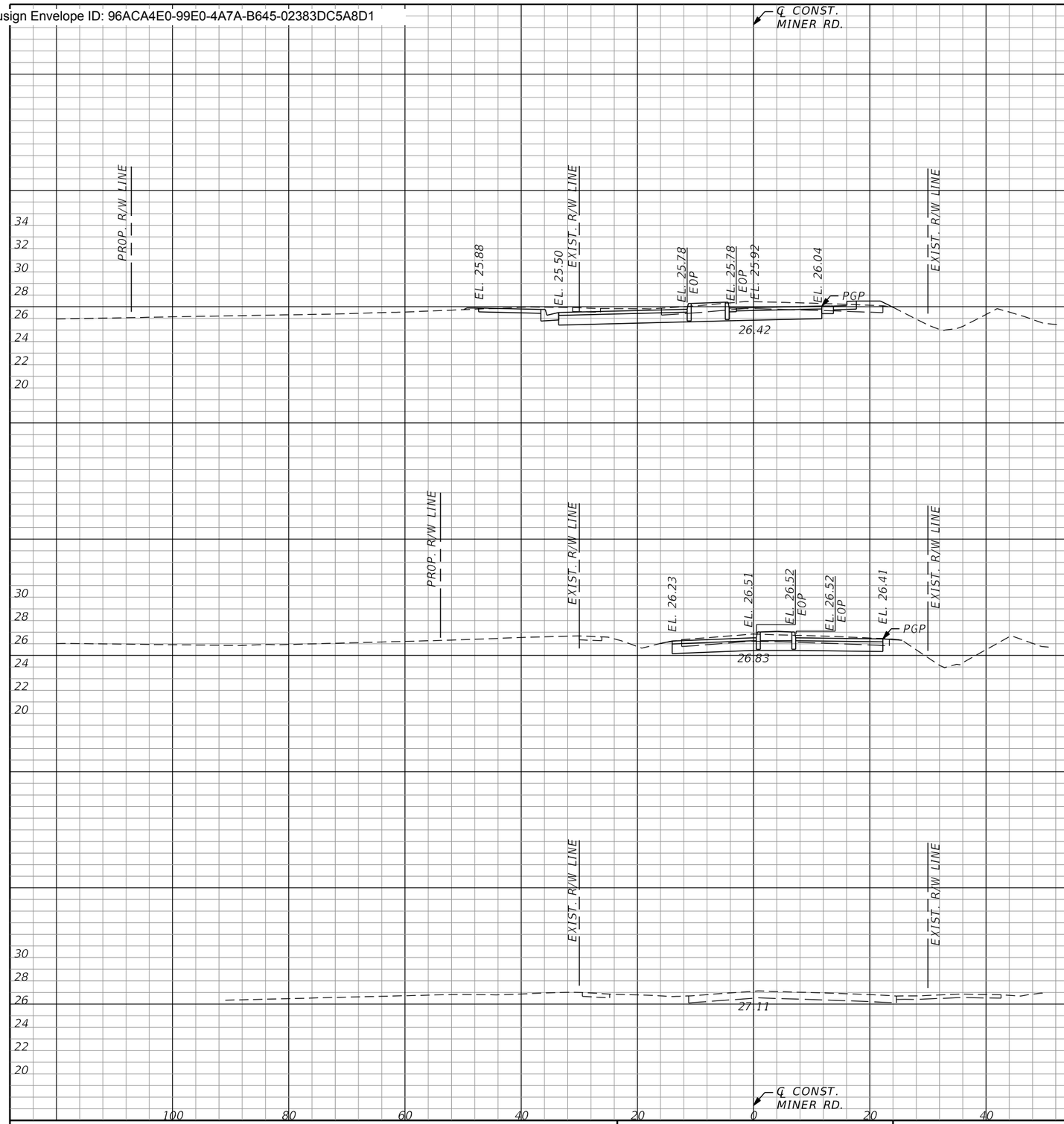
This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
194

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



	Subsoil Exc.		Regular Exc.		Embankment	
	A	V	A	V	A	V
		0.0		58.6		74.3
STA. 304+50.00	0.0		53.5		5.5	
		0.0		72.6		5.7
STA. 304+00.00	0.0		25.2		0.7	
		0.0		23.3		0.6
STA. 303+50.00	0.0		0.0		0.0	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

REVISIONS

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DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
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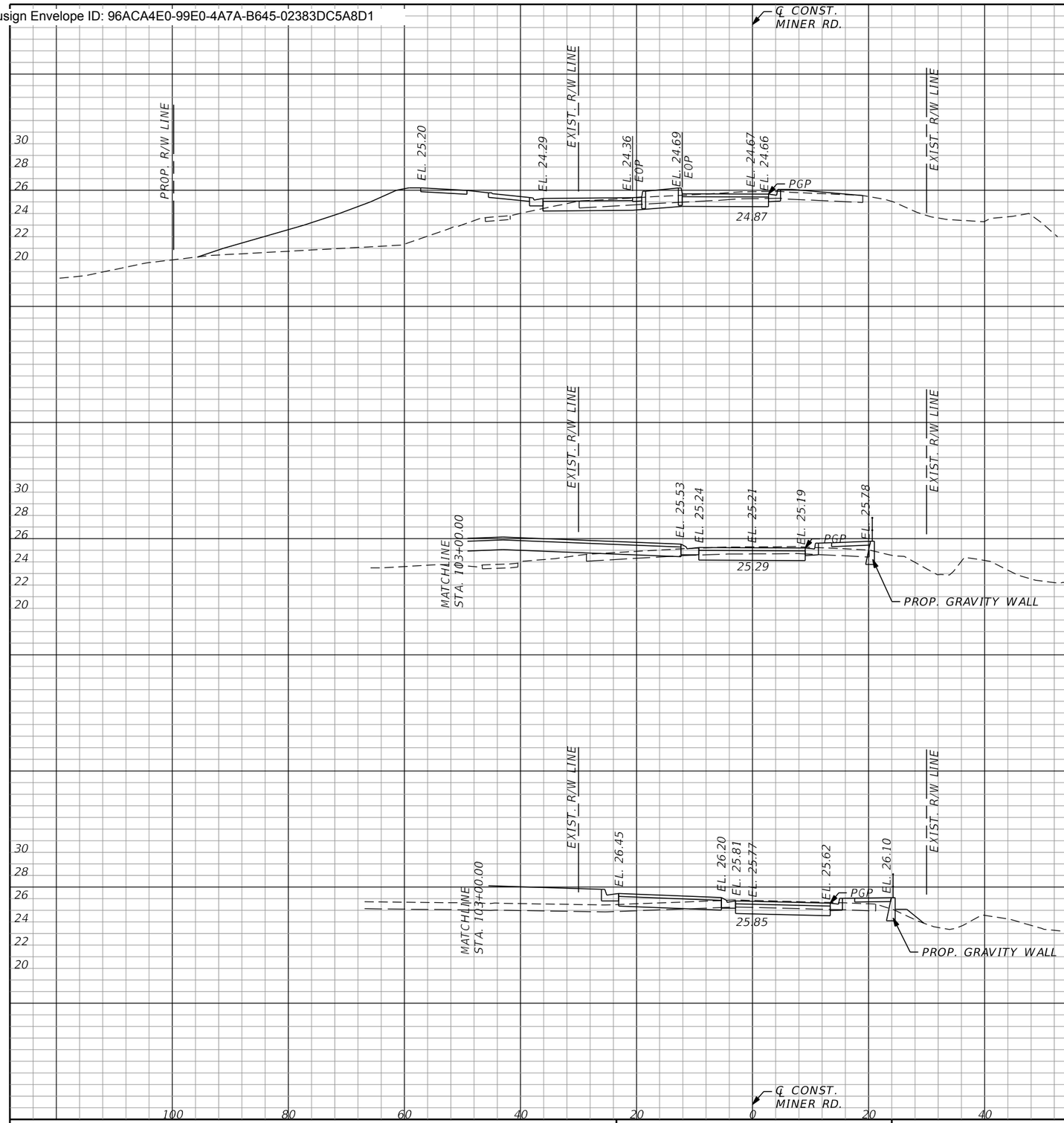
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
195

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		38.2		128.3
0.0		18.9		119.8	
	0.0		27.0		166.3
0.0		10.3		59.9	
	0.0		18.8		124.6
0.0		10.0		74.7	

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DATE:	10/24/2023
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CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

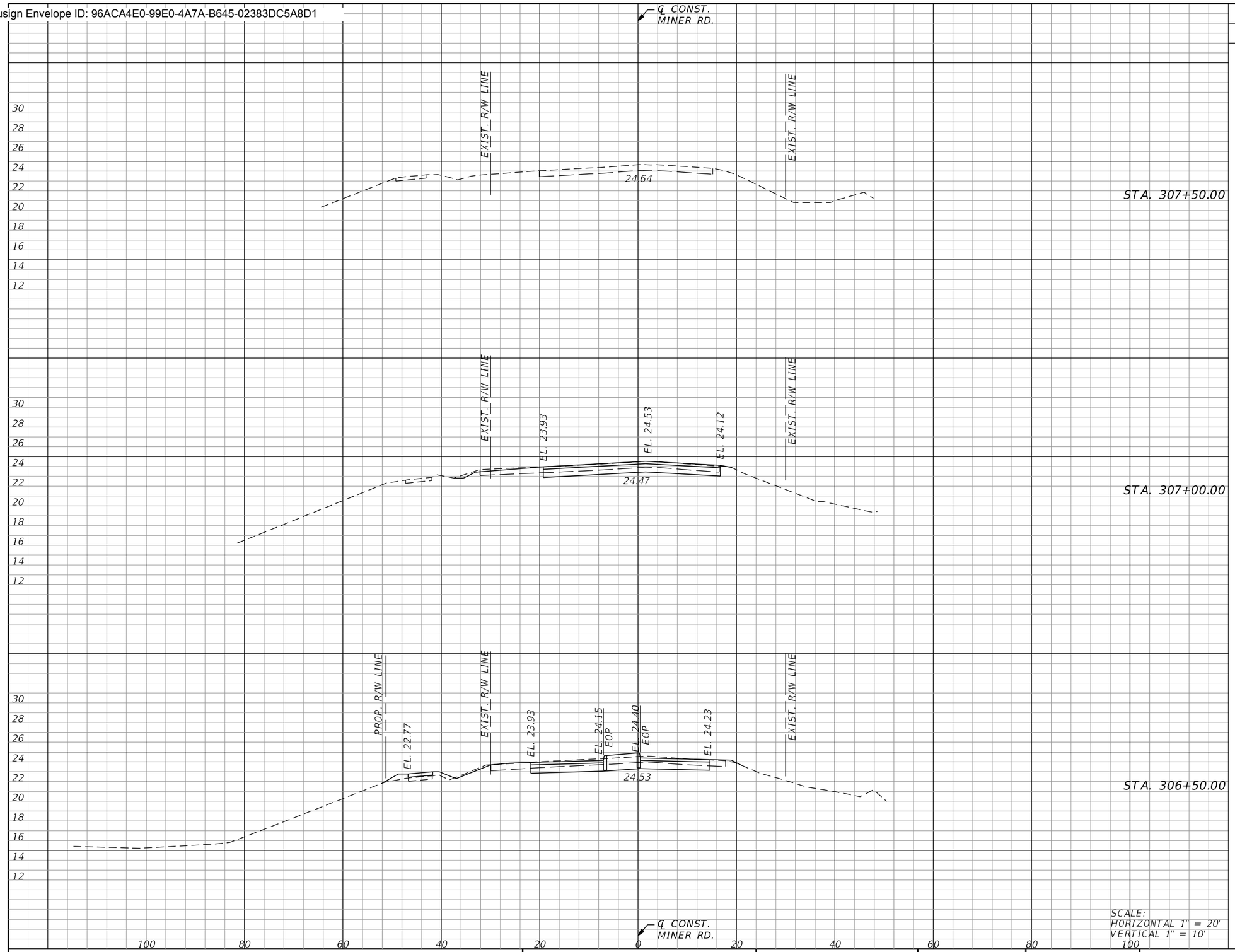
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
196

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0		0.0		0.0	
	0.0		16.3		5.8
0.0		17.6		6.3	
	0.0		37.0		23.3
0.0		22.4		18.9	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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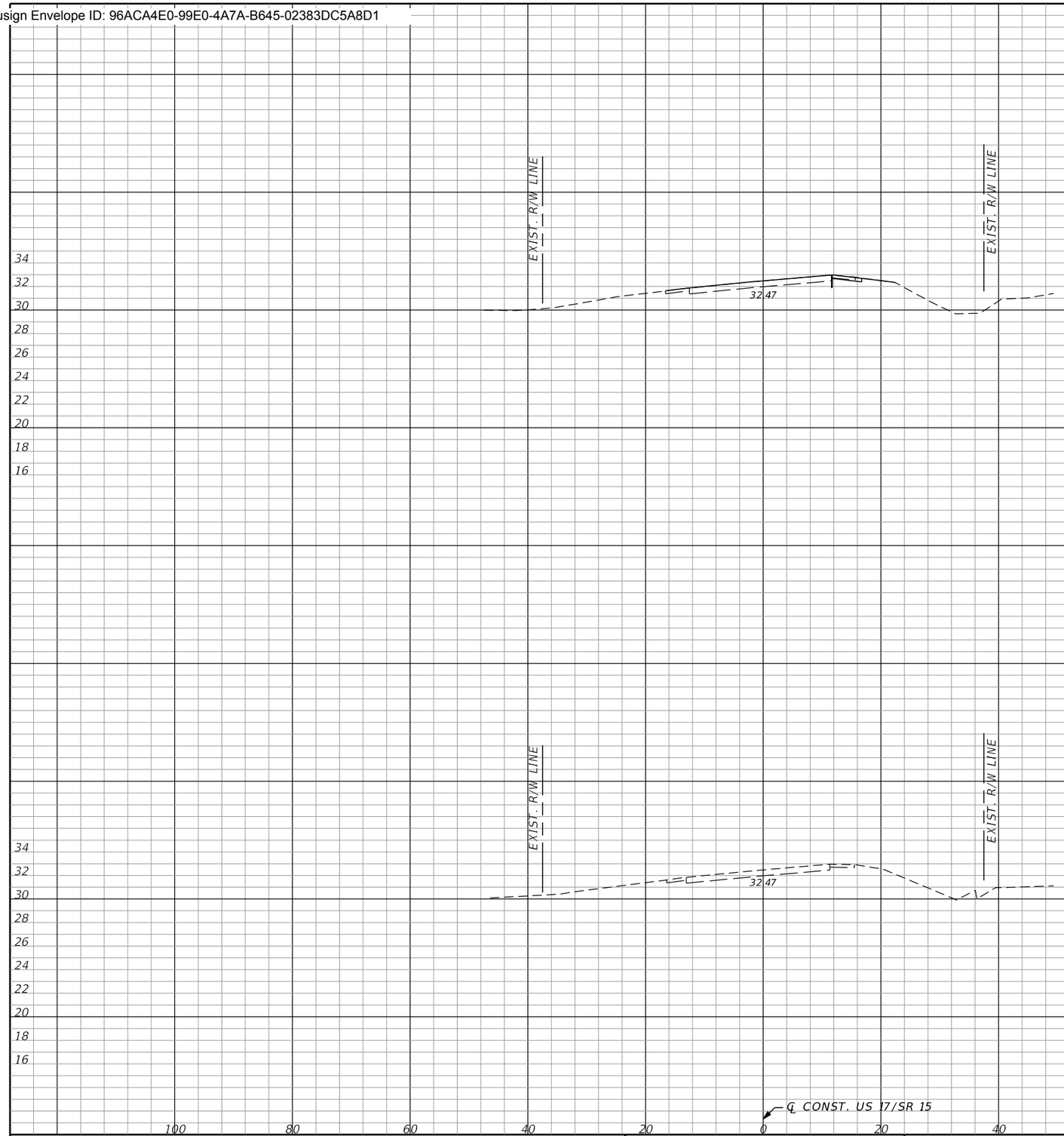
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
197

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



STA. 449+00.00

BEGIN WIDENING
BEGIN EARTHWORK
BEGIN CONSTRUCTION
STA. 448+80.00

STA. 448+50.00

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		2.0		0.2
0.0		0.8		0.0	
	0.0		0.7		0.0
0.0		0.0		0.0	

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DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

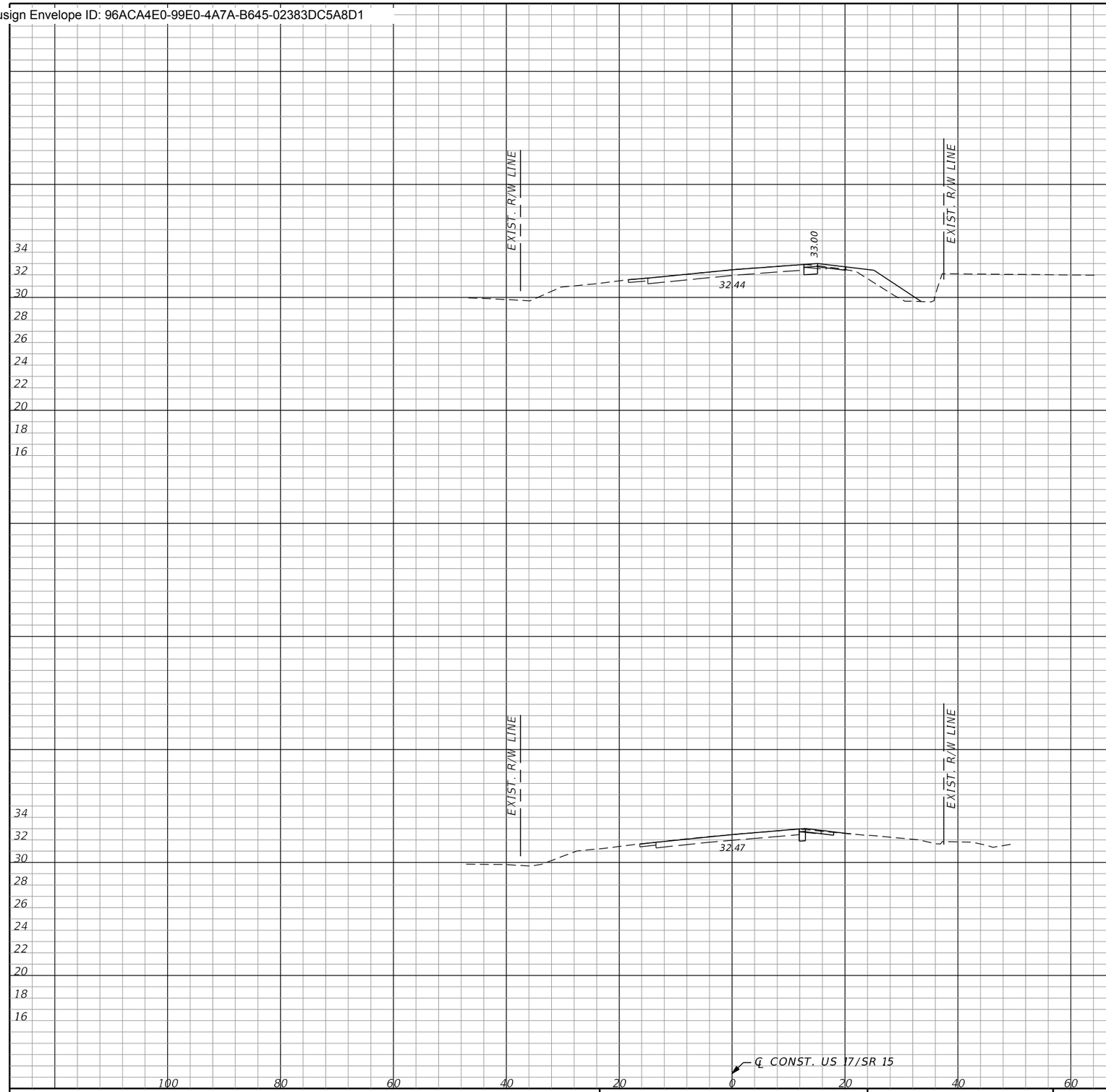
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
198

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		3.1		23.1
0.0		1.7		10.0	
	0.0		2.8		9.4
0.0		1.4		0.2	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

REVISIONS

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PROJECT NO. / DASH NO.
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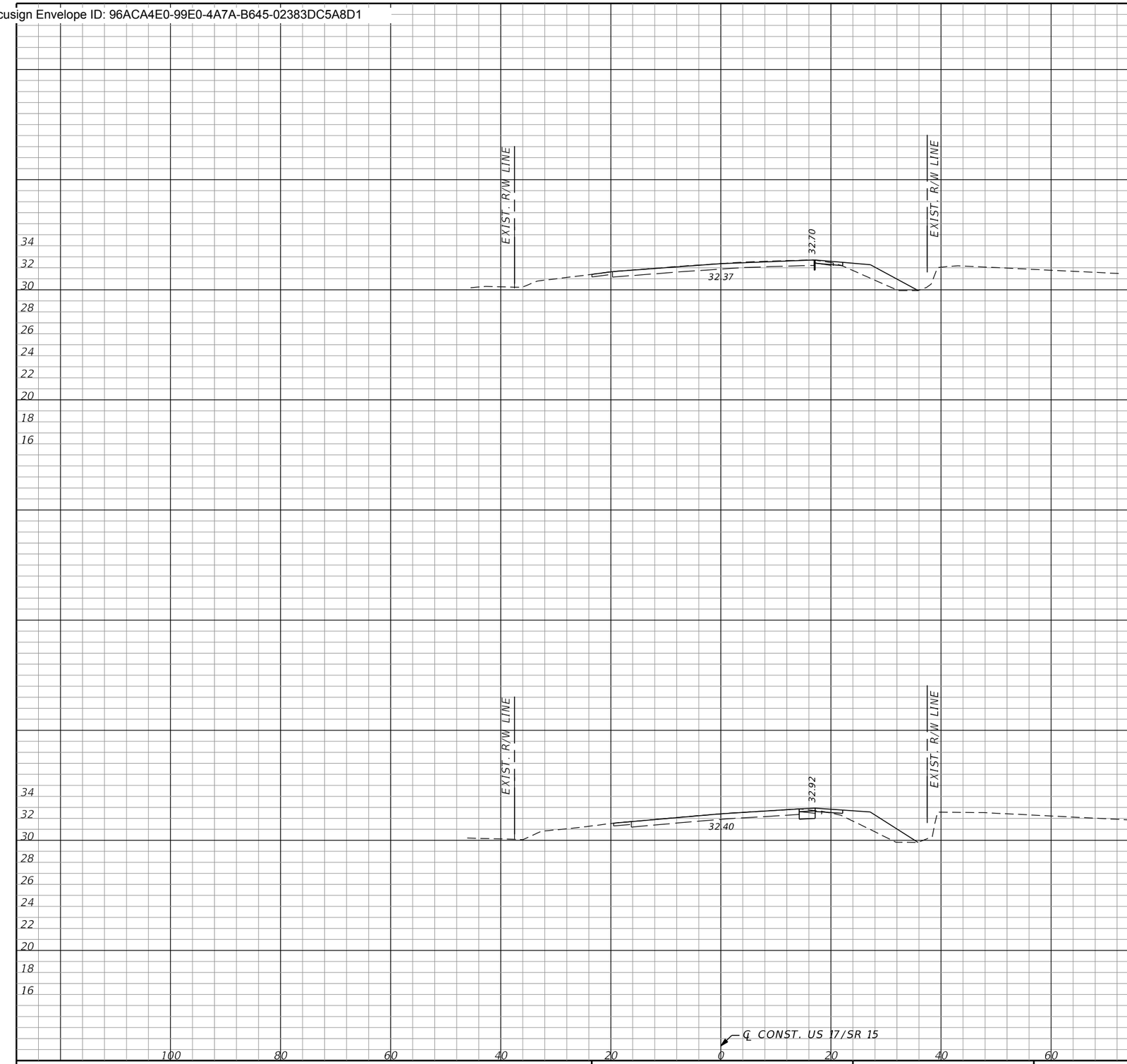
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NASSAU COUNTY, FLORIDA

SHEET NO.
199

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thompr 10/24/2023 9:29:18 AM Rdxsrd_shg Z:\Infra\2019\B190839.00 - William Burgess Corridor\CAD\1908391520\roadway\RDXSRD05.dgn

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



END WIDENING
STA. 451+34.80

STA. 451+00.00

STA. 450+50.00

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		0.2		10.6
0.0		0.3		11.4	
	0.0		1.8		24.4
0.0		1.7		15.0	

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

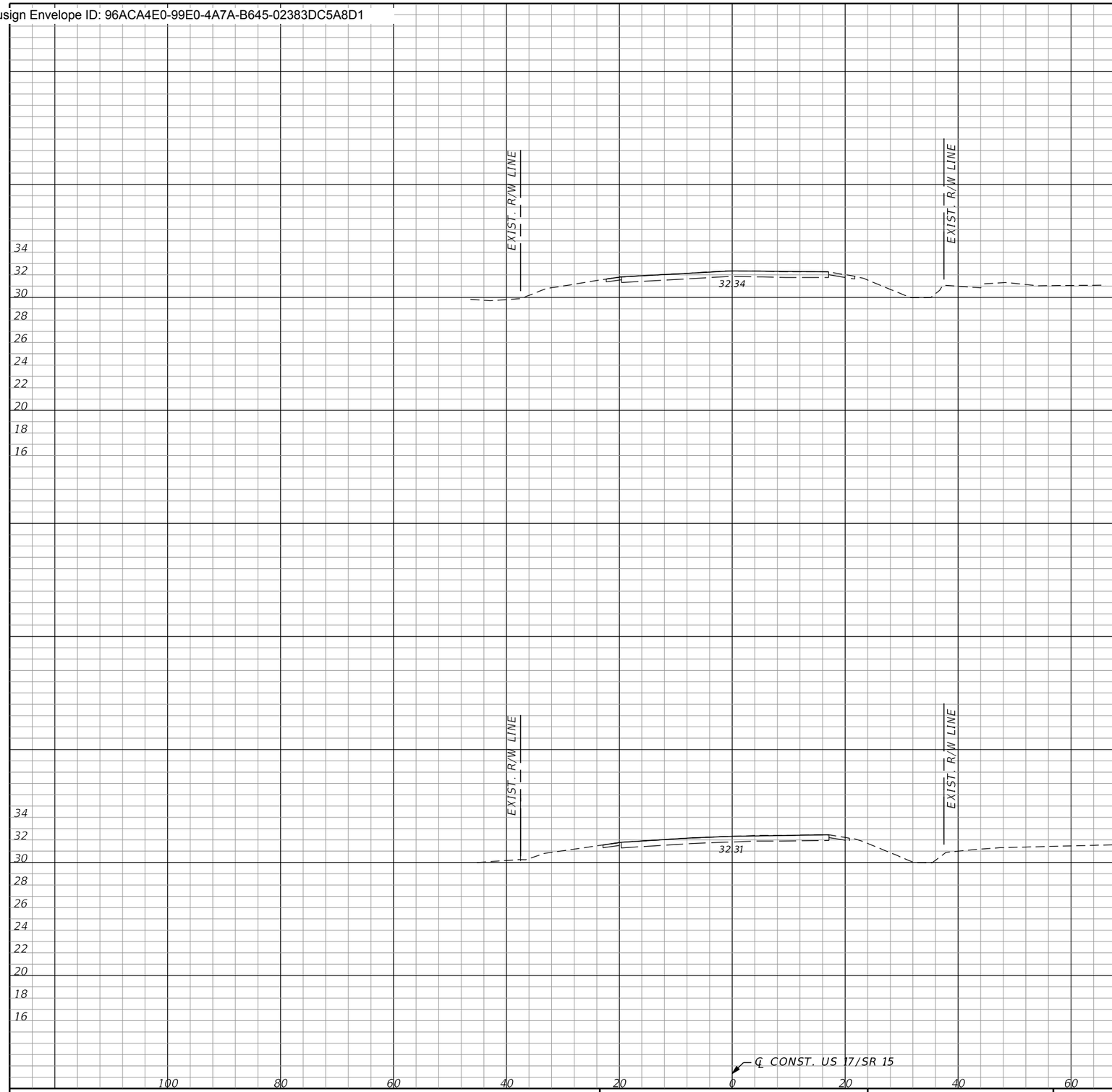
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CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
200

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



STA. 452+00.00

STA. 451+50.00

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		0.0		0.0
0.0		0.0		0.0	
	0.0		0.0		0.0
0.0		0.0		0.0	

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
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CROSS SECTIONS

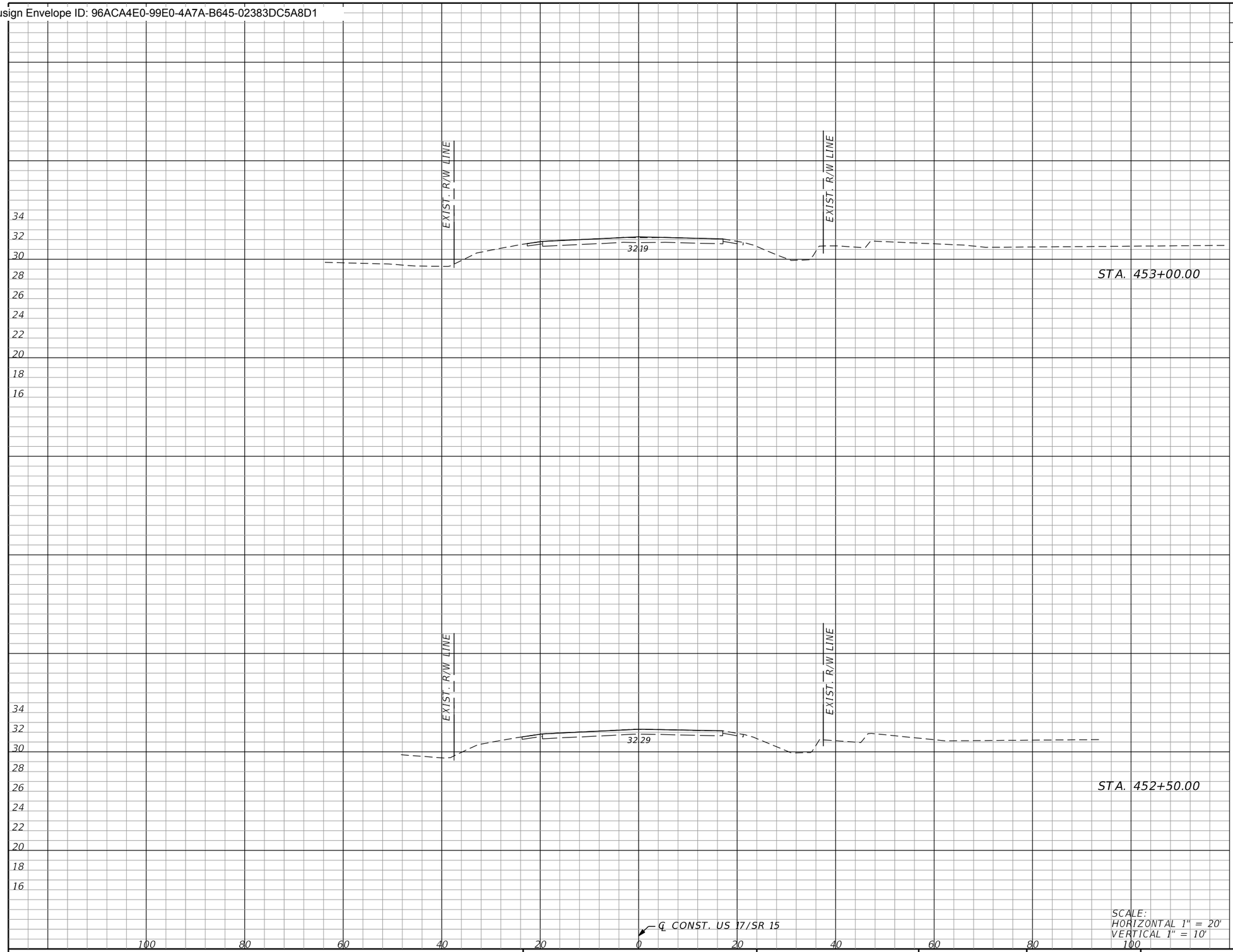
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NASSAU COUNTY, FLORIDA

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201

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		0.0		0.0
0.0		0.0		0.0	
	0.0		0.0		0.0
0.0		0.0		0.0	

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SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
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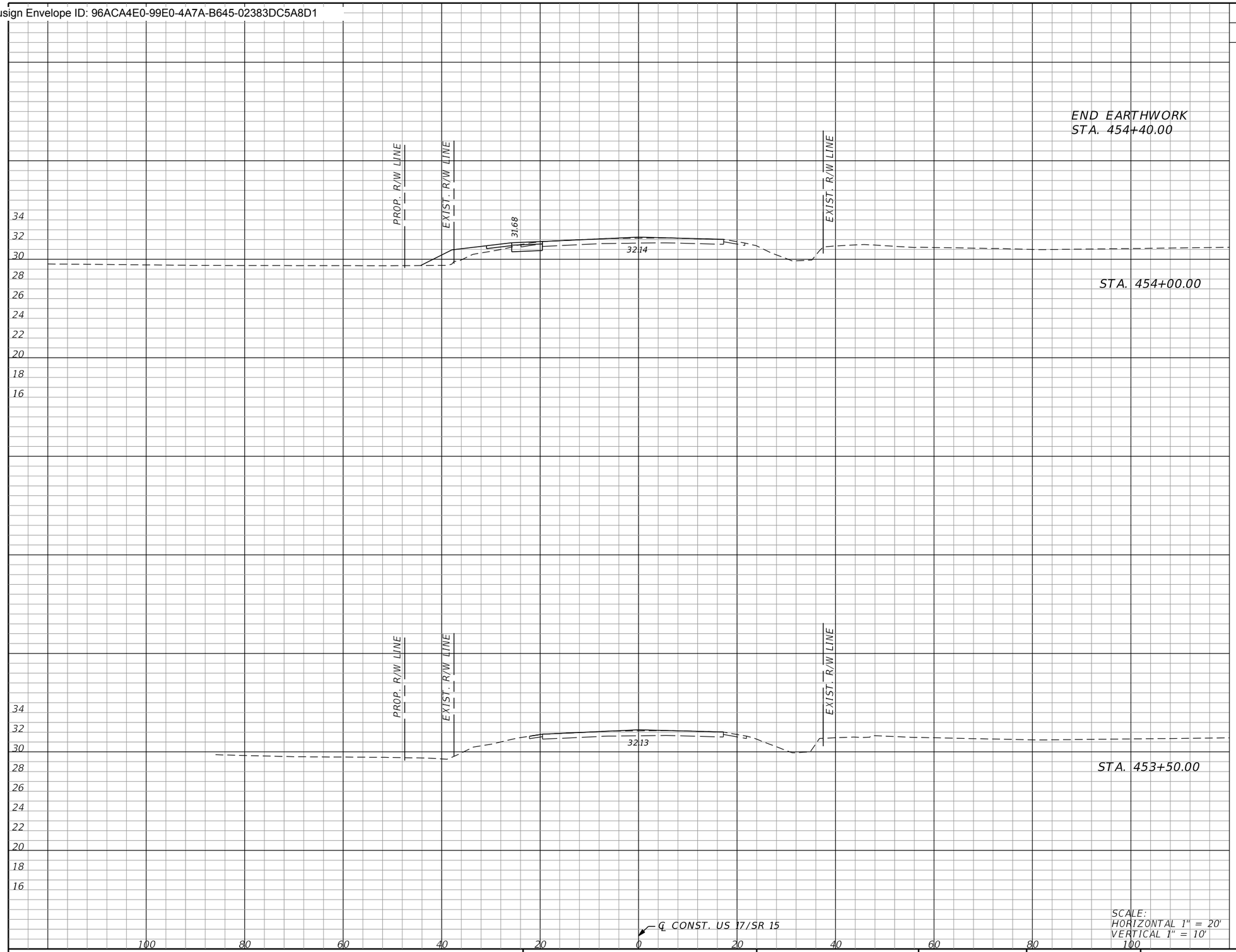
WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
202

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0	0.0	3.6	3.3	12.6	11.6
0.0	0.0	0.0	0.0	0.0	0.0

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DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

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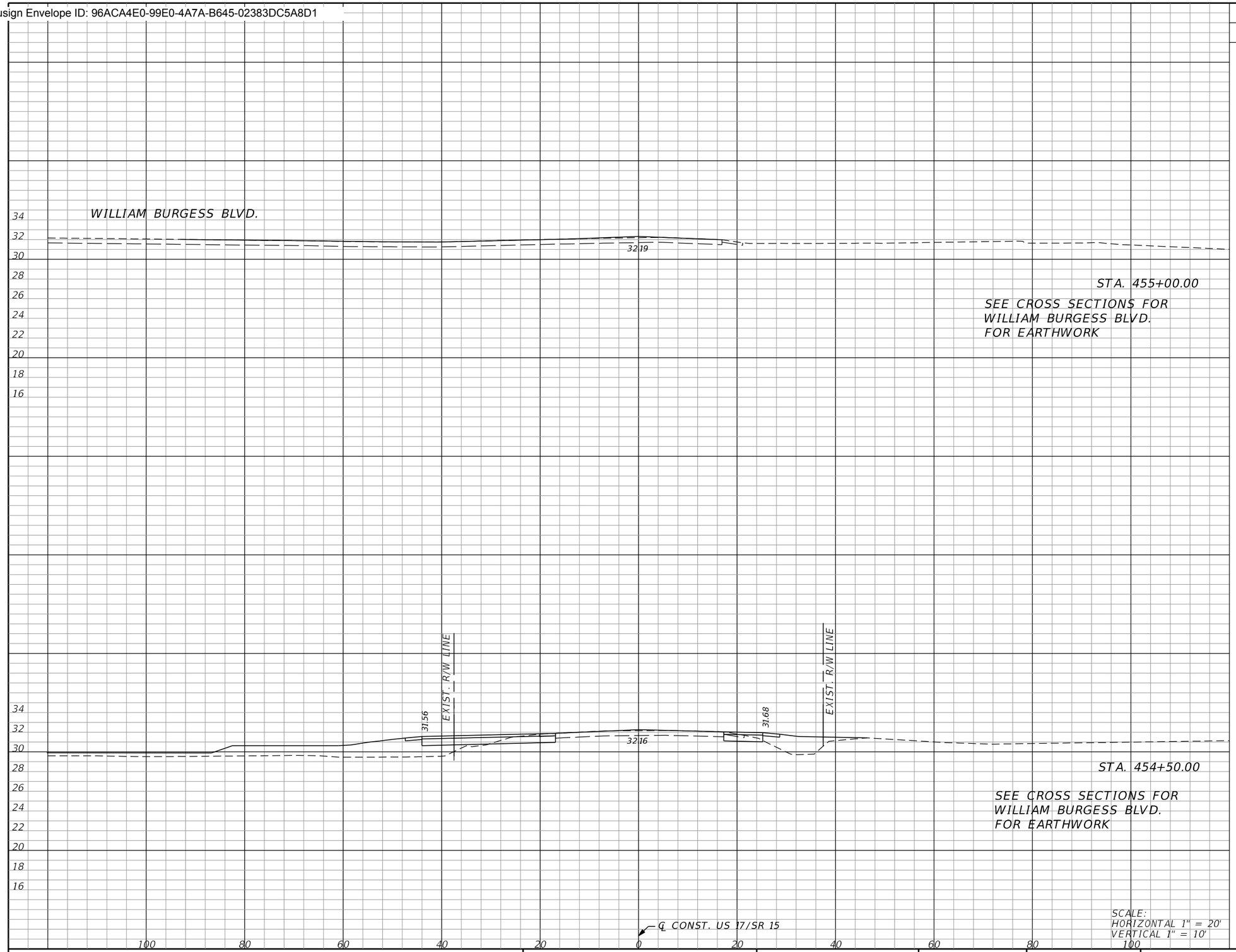
CROSS SECTIONS

WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
203

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V

REVISIONS

REV	DATE	BY	DESCRIPTION

gai consultants
transforming ideas into reality®
12574 Flagler Center Blvd, Suite 202
Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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CROSS SECTIONS

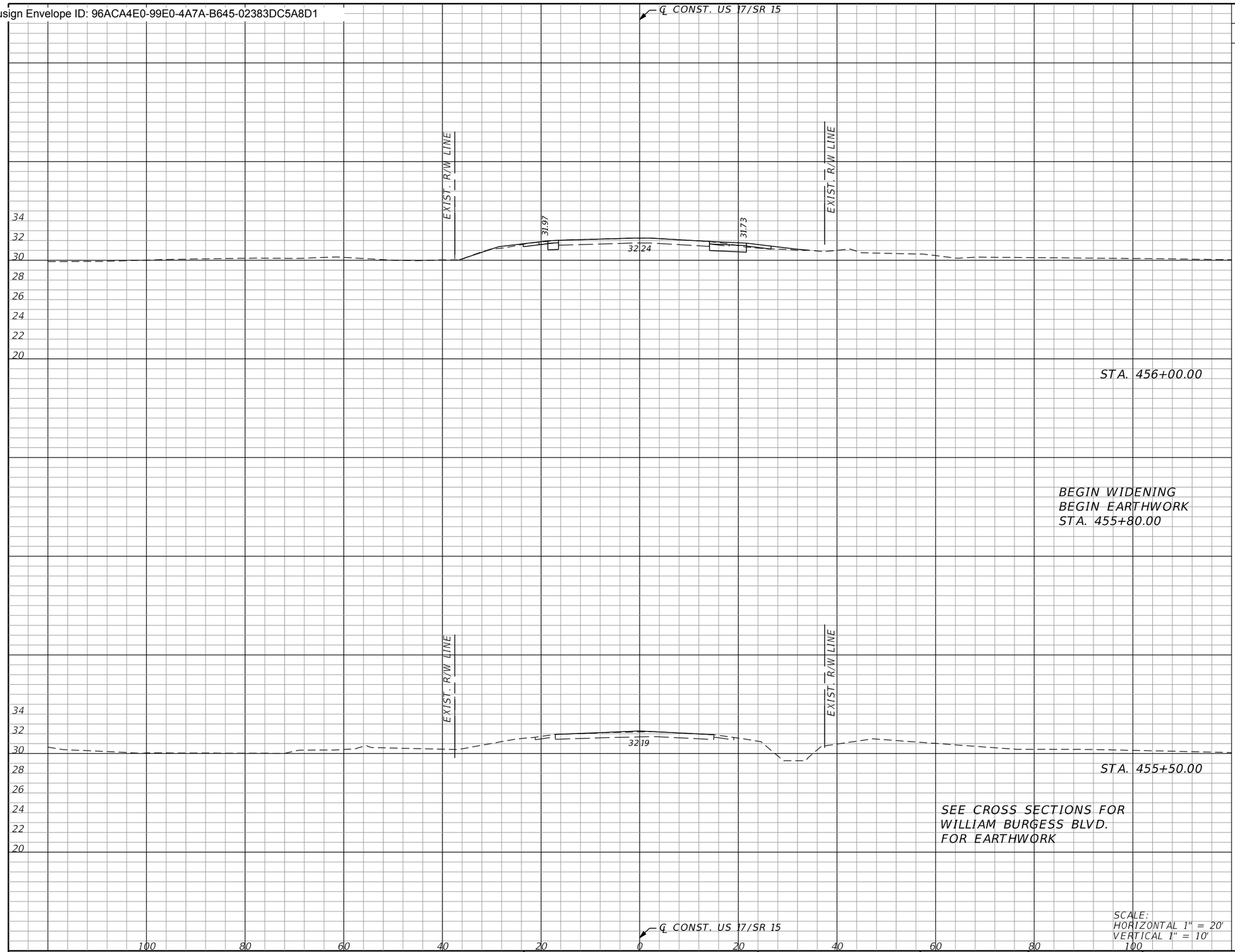
WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
204

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thompr 10/24/2023 9:29:24 AM Rdxsrd_shg Z:\Infra\2019\B190839.00 - William Burgess Corridor\CAD\1908391520\roadway\RDXSRD05.dgn

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		8.7		11.9
0.0		7.0		2.3	

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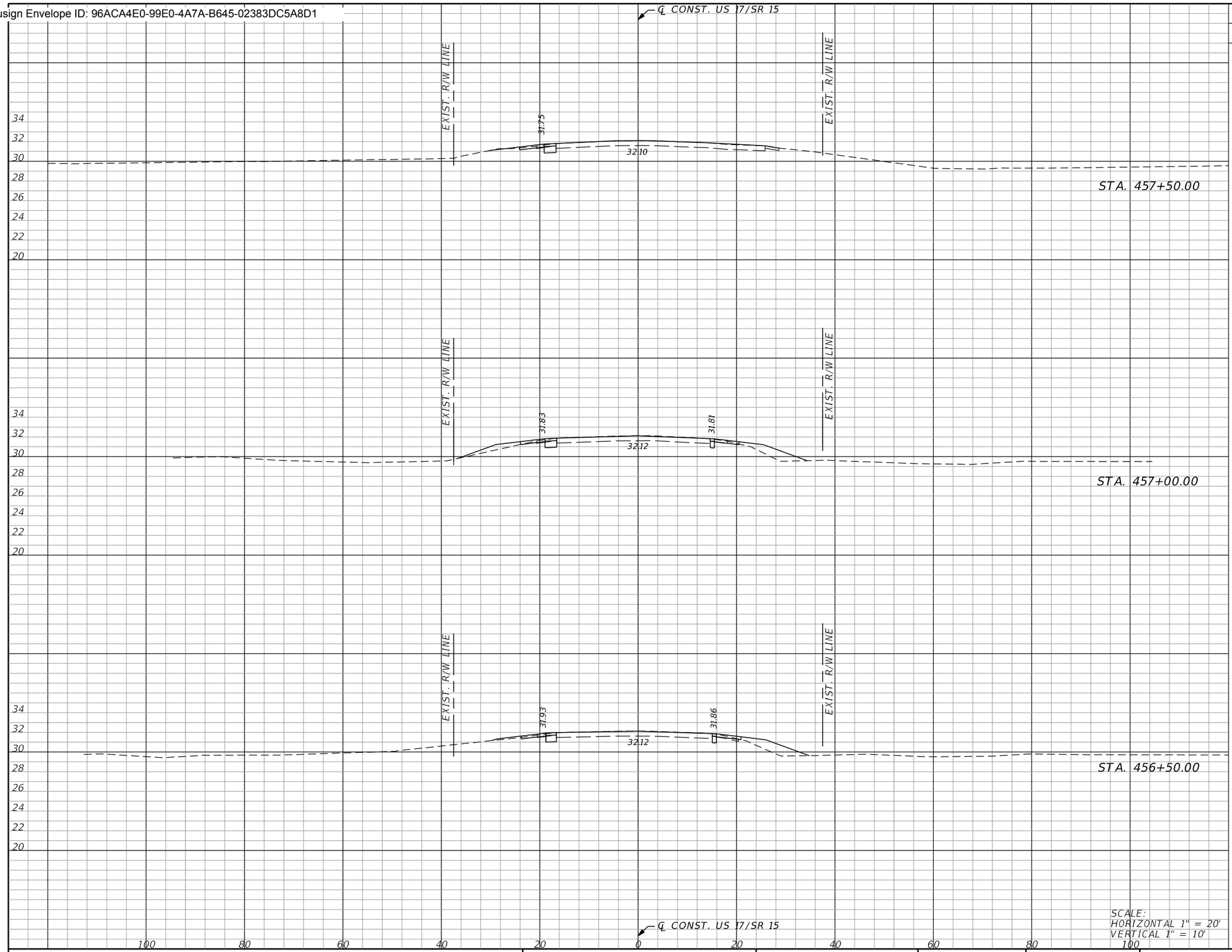
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
205

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
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0.0		2.3		0.6	
	0.0		4.5		12.2
0.0		2.7		12.9	
	0.0		4.7		21.7
0.0		2.4		10.6	

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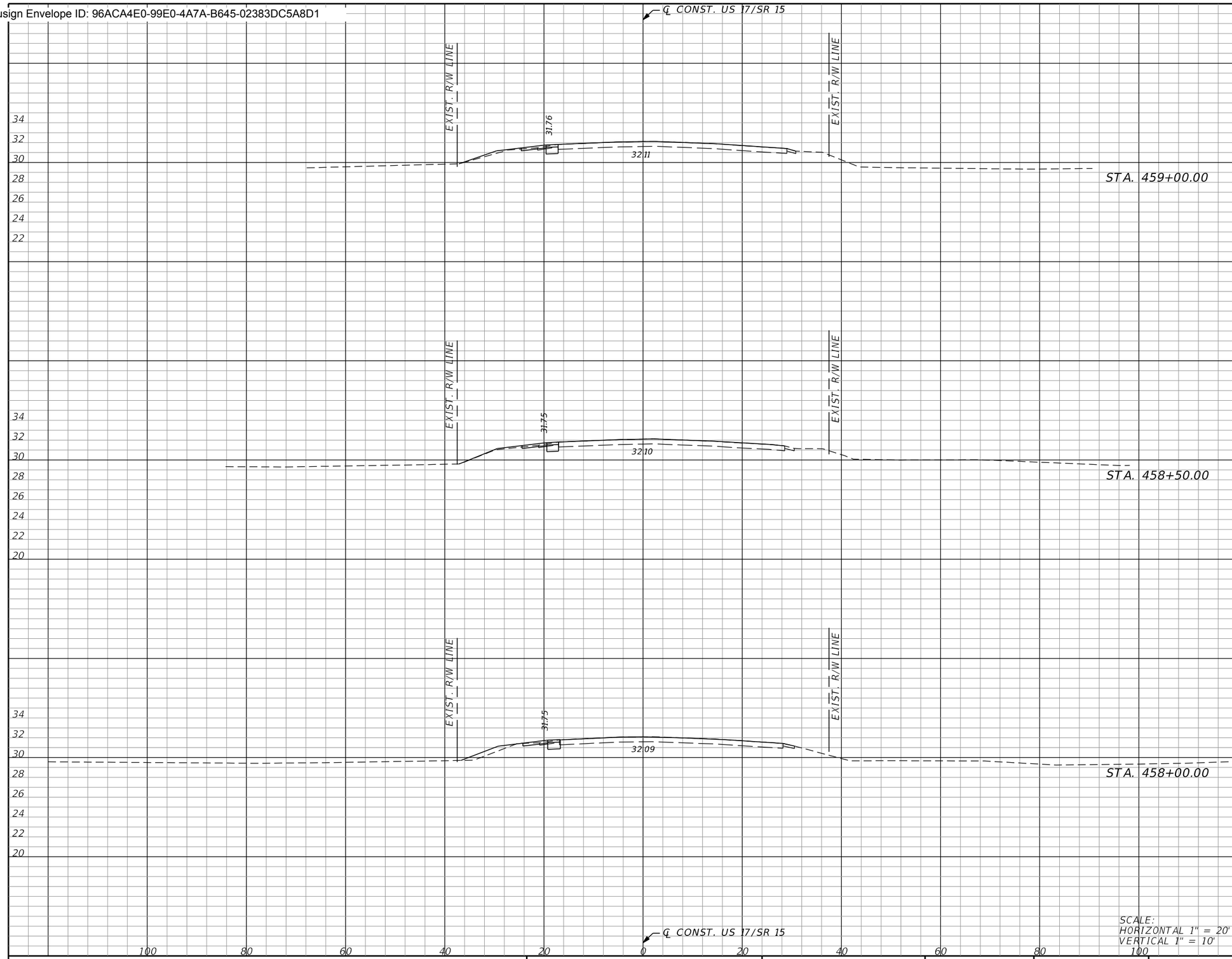
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
206

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0.0		3.7		2.6
0.0		2.0		1.7	
	0.0		3.6		2.5
0.0		1.9		1.1	
	0.0		3.8		4.7
0.0		2.2		4.0	

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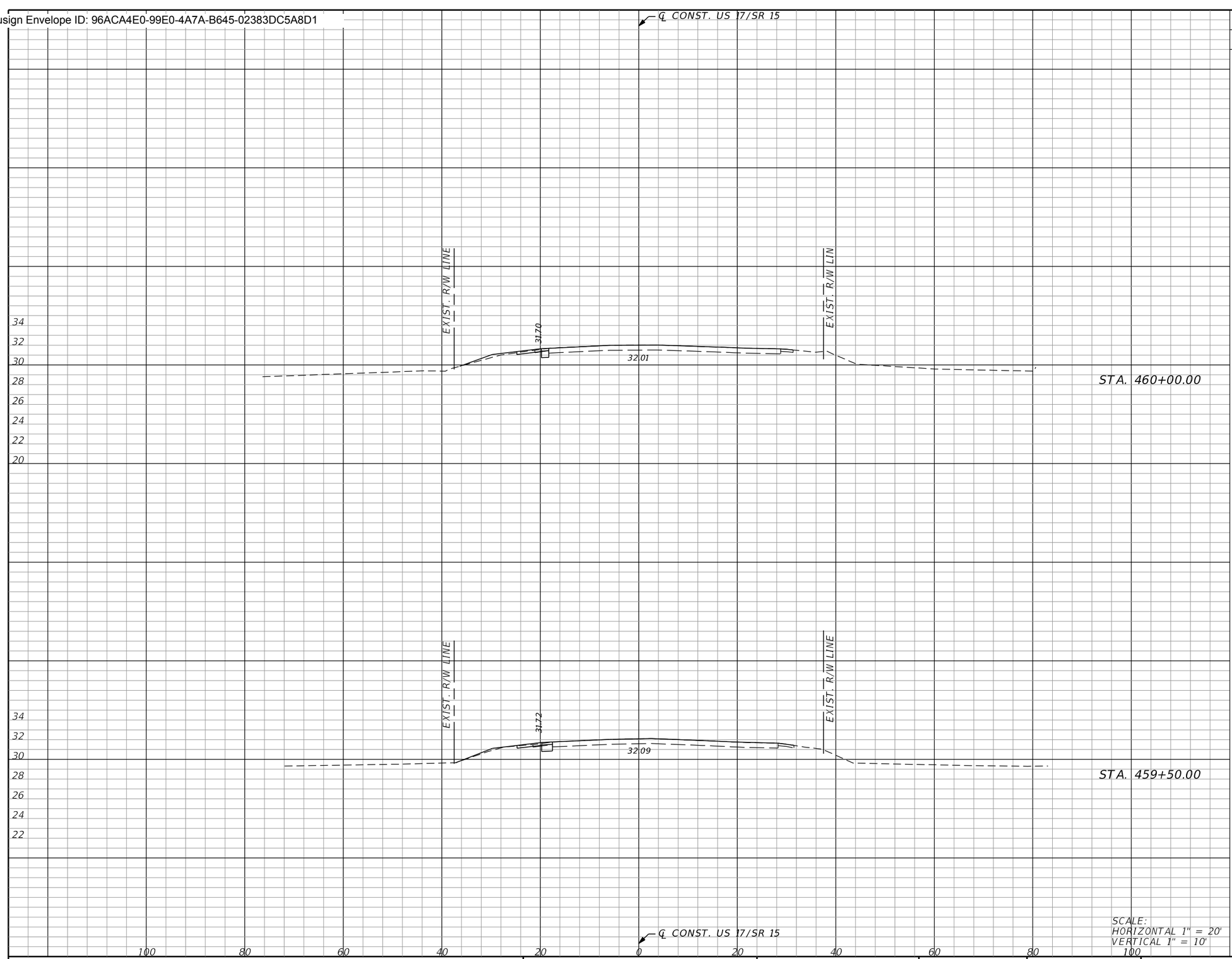
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
207

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Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
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0.0	0.0	2.1	3.3	1.1	2.6

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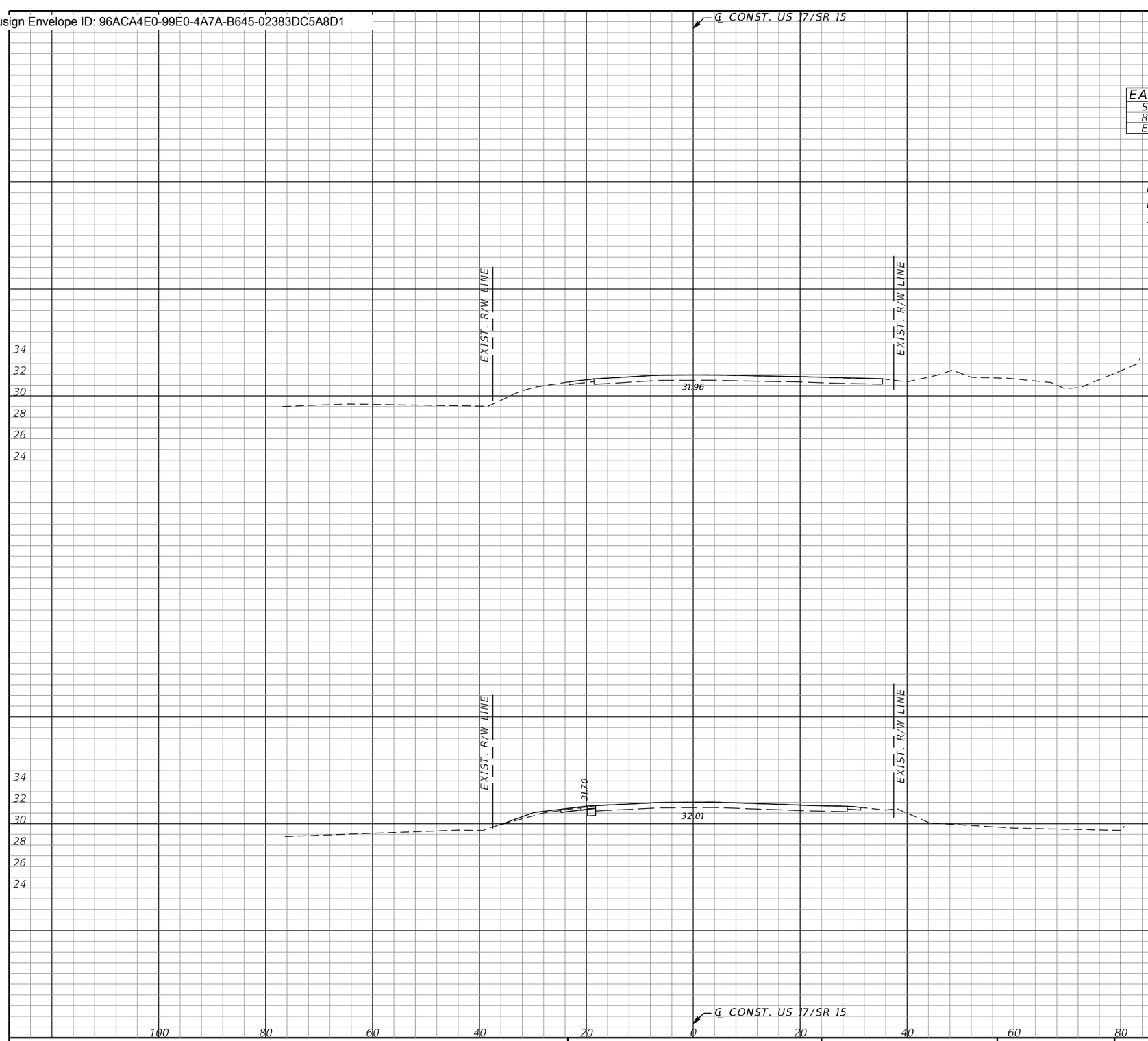
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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
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EARTHWORK QUANTITIES	
SUBSOIL EXC.	7,767 CY
REGULAR EXC.	43,425 CY
EMBANKMENT	70,648 CY

END CONSTRUCTION
END WIDENING
STA. 461+00.00

STA. 461+00.00

STA. 460+50.00

SCALE:
HORIZONTAL 1" = 20'
VERTICAL 1" = 10'

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0.0		0.0		0.0	
	0.0		1.6		1.7
0.0		1.7		1.8	

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WILLIAM BURGES BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
209

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SUMMARY OF VERIFIED UTILITIES

VVH #	UTILITY DESCRIPTION (OWNER, TYPE)	SIZE	MATERIALS	CL CONST. WILLIAM BURGESS BLVD. STATION	OFFSET	LT /RT	EXISTING GROUND ELEVATION	TOP ELEVATION
1	GM, TECO	12"	STEEL	73+00.00	6.38'	LT	27.08	23.08
2	GM, TECO	12"	STEEL	74+22.00	19.92'	LT	27.17	23.64
3	GM, TECO	12"	STEEL	75+62.00	20.97'	LT	27.61	23.93
4	GM, TECO	12"	STEEL	78+25.00	22.73'	LT	28.14	24.17
5	RM, JEA	16"	PVC	78+25.00	25.00'	RT	28.23	23.65
6	GM, TECO	12"	STEEL	80+90.00	23.23'	LT	29.66	25.16
7A	RM, JEA	16"	PVC	80+90.00	22.82'	RT	29.87	25.52
7B	FM, JEA	16"	PVC	80+90.00	30.81'	RT	29.94	25.78
8	GM, TECO	12"	STEEL	83+30.00	21.65'	LT	31.38	27.33
9	RM, JEA	16"	PVC	83+30.00	18.01'	RT	31.31	27.71
10	FM, JEA	16"	PVC	83+30.00	25.76'	RT	31.13	26.13
11	GM, TECO	12"	STEEL	86+45.00	21.57'	LT	32.43	22.03
12	RM, JEA	16"	PVC	86+50.00	16.54'	RT	32.46	28.76
13	FM, JEA	16"	PVC	86+45.00	25.00'	RT	32.27	28.52
14	UNK, TECO	1.25"	PVC	89+75.00	24.59'	LT	32.65	31.65
15	RM, JEA	16"	PVC	89+80.00	18.02'	RT	32.22	27.92
16	UNK, TECO	1.25"	PVC	91+40.00	25.31'	LT	32.19	30.19
17	FM, JEA	16"	PVC	93+00.00	23.92'	RT	30.46	27.01
18	RM, JEA	16"	PVC	93+03.00	18.54'	RT	30.59	26.64
19	UNK, TECO	1.25"	PVC	94+75.00	23.26'	LT	31.05	29.30
20	RM, JEA	16"	PVC	94+80.00	18.84'	RT	30.29	25.59
21	UNK, TECO	1.25"	PVC	96+40.00	24.74'	LT	29.59	28.09
22	RM, JEA	16"	PVC	96+38.00	19.66'	RT	28.76	24.41
23	UNK, TECO	1.25"	PVC	98+00.00	24.14'	RT	28.00	26.50
24A	GM, TECO	2"	STEEL	100+00.00	15.65'	LT	26.46	21.46
24B	UNK, TECO	1.25"	PVC	100+00.00	15.65'	LT	26.46	24.06
25	RM, JEA	16"	PVC	100+02.00	15.16'	RT	25.49	22.54
26	FM, JEA	16"	PVC	100+05.00	25.96'	RT	25.14	22.19
27	RM, JEA	16"	PVC	102+40.00	20.33'	RT	25.86	22.82
28	FM, JEA	16"	PVC	102+50.00	25.43'	RT	25.62	22.05
1BLUE	WM, JEA	12"	PVC	12+60.00	47.12'	LT	30.24	27.94
4BLUE	WM, JEA	10"	PVC	317+70.00	23.84'	LT	25.31	20.35
2-1	GM, TECO	6"	STEEL	12+30.66	46.25'	LT	31.04	26.59
2-2	GM, TECO	2"	STEEL	100+00.20	15.64'	LT	26.47	21.45
2-3	GM, TECO	2"	STEEL	101+67.10	14.21	LT	25.89	19.42
2-4	GM, TECO	12"	UNK	101+72.78	25.90'	LT	25.00	UNK
2-5	GM, TECO	2"	STEEL	102+00.03	14.05'	LT	25.74	18.39
2-6	GM, TECO	12"	UNK	102+00.12	25.41'	LT	25.09	UNK
2-7	GM, TECO	12"	STEEL	305+98.60	30.08'	RT	22.83	18.47

SUMMARY OF UTILITY ADJUSTMENTS

UTILITY TYPE	STATION	OFFSET	SIDE	UTILITY ADJUSTMENT
WATER	12+41.31	47.12'	LT.	REMOVE
WATER VALVE	12+82.84	50.49'	LT.	REMOVE
FIRE HYDRANT	12+82.95	53.75'	RT.	RELOCATE PER PLAN & PROFILE
WATER VALVE	12+87.40	47.12'	LT.	REMOVE
WATER VALVE	12+90.68	43.94'	LT.	REMOVE
GUY WIRE	204+07.25	25.18'	RT.	RELOCATE BY OTHERS
SANITARY SEWER VALVE	86+27.88	25.18'	RT.	ADJUST TOP
RECLAIMED WATER VALVE	86+35.86	16.68'	RT.	ADJUST TOP
RECLAIMED WATER VALVE	86+50.27	16.54'	RT.	ADJUST TOP
SANITARY SEWER MANHOLE	86+54.36	24.90'	RT.	ADJUST TOP
GAS VALVE	98+89.67	25.23'	LT.	ADJUST TOP
POWER POLE	102+74.69	38.43'	RT.	RELOCATE BY OTHERS
GUY WIRE	102+86.27	37.73'	RT.	RELOCATE BY OTHERS
RECLAIMED WATER VALVE	102+96.27	21.66'	RT.	RELOCATE
SANITARY SEWER CAP	305+26.40	44.36'	LT.	REMOVE
RECLAIMED WATER CAP	305+28.55	31.22'	LT.	REMOVE

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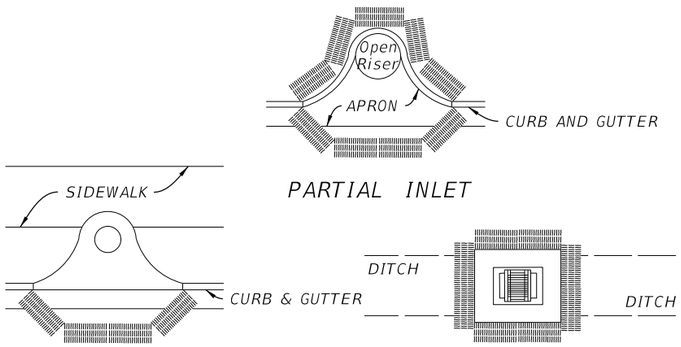
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SUMMARY OF VERIFIED UTILITIES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
210

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

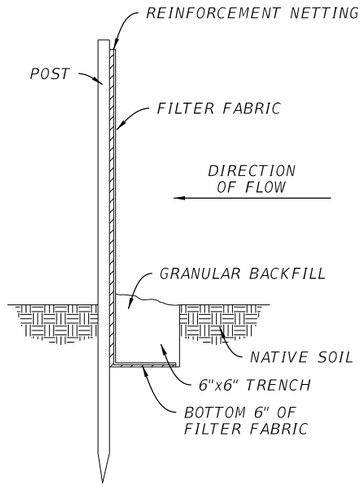


NOTES:

1. ANCHOR SYNTHETIC BALES WITH 2 - 2" X 2" X 4' STAKES PER BALE.

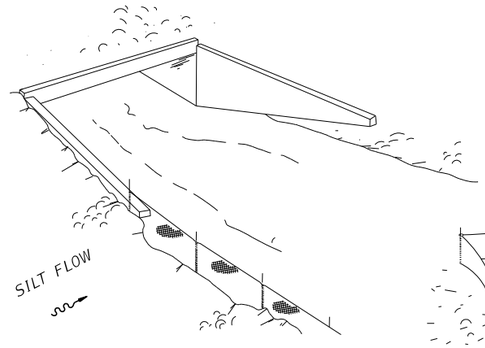
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

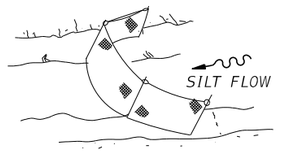
SCALE: NTS

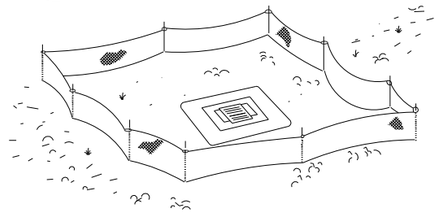


SILT BARRIER DETAIL

SCALE: NTS







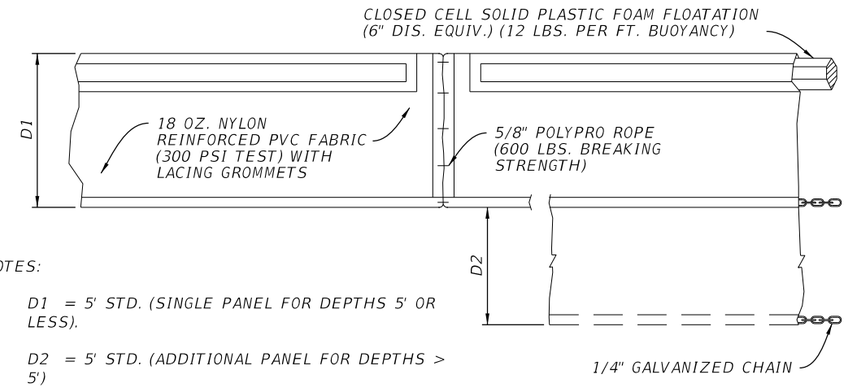
TYPE III SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS

NOTES:

1. DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS

SCALE: NTS

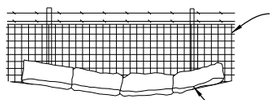


NOTES:

1. D1 = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).
2. D2 = 5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5')
3. CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS OTHERWISE SPECIFIED IN THE CONSTRUCTION PLANS OR AS DIRECTED BY THE ENGINEER
4. USE TURBIDITY BARRIER AS APPLICABLE TO FIELD WORK.

TURBIDITY BARRIER

SCALE: NTS

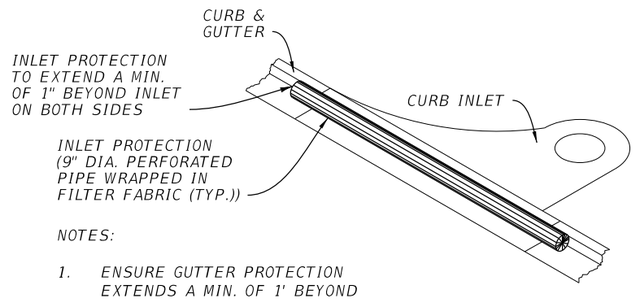


NOTES:

1. SYNTHETIC BALES TO BE STAKED AT THE DIRECTION OF THE ENGINEER

SYNTHETIC BALES BACKED BY FENCE

SCALE: NTS



NOTES:

1. ENSURE GUTTER PROTECTION EXTENDS A MIN. OF 1' BEYOND CURB INLET.

INLET PROTECTION

SCALE: NTS

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EROSION CONTROL DETAILS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 211

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EROSION AND SEDIMENTATION CONTROL NOTES

1. THE CONTRACTOR MUST IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE AND TO PREVENT VIOLATIONS OF THE WATER QUALITY CRITERIA AND STANDARDS IN CHAPTERS 62-4, 62-302, F.A.C. ALL EROSION/SEDIMENT CONTROL PRACTICES MUST BE IN ACCORDANCE WITH THE GUIDELINES AND SPECIFICATIONS IN SECTION 6 OF THE FLORIDA LAND DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION 1988), UNLESS A PROJECT-SPECIFIC EROSION AND SEDIMENT CONTROL PLAN IS APPROVED BY THE WATER MANAGEMENT DISTRICT IN WHICH CASE THE PRACTICES MUST BE IN ACCORDANCE WITH THE PLAN. IF SITE SPECIFIC CONDITIONS REQUIRE ADDITIONAL MEASURES DURING ANY PHASE OF CONSTRUCTION OR OPERATION TO PREVENT EROSION OR CONTROL SEDIMENT, THE CONTRACTOR MUST IMPLEMENT THE NECESSARY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES.

2. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14-DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

3. THE LOCATION AND TYPE OF THE EROSION CONTROL MEASURES SHOWN ON THESE DRAWINGS ARE PROVIDED FOR GENERAL GUIDANCE TO THE CONTRACTOR. THE METHODS AND SEQUENCING OF CONSTRUCTION EMPLOYED BY THE CONTRACTOR MAY REQUIRE MORE OR LESS EROSION CONTROL MEASURES THAN THAT DEPICTED TO MAINTAIN ADEQUATE EROSION AND SEDIMENT CONTROL FOR THE CONSTRUCTION ACTIVITIES.

4. EROSION/TURBIDITY BARRIERS MUST BE INSTALLED AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SEDIMENT OR SUSPENDED SOLIDS TO ADJACENT PROPERTIES, JURISDICTIONAL WETLANDS AND/OR RECEIVING WATER BODIES EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST REMAIN IN PLACE AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. THEREAFTER THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF THE BARRIERS. THE CONTRACTOR SHALL MAINTAIN THE EROSION/TURBIDITY CONTROL BARRIERS DAILY. THE CONTRACTOR IS TOTALLY RESPONSIBLE FOR PROVIDING THE NECESSARY EROSION/TURBIDITY CONTROL FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY PENALTIES IMPOSED BY THE PERMITTING AGENCIES FOR ANY EROSION, SHOALING, OR WATER QUALITY PROBLEMS RESULTANT TO CONSTRUCTION ACTIVITIES.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY EROSION, SEDIMENTATION, SHOALING OR WATER QUALITY PROBLEMS THAT RESULT FROM THE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL USE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL AS DESCRIBED IN THE FLORIDA LAND DEVELOPMENT MANUAL, A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP, 1988) AND/OR ACCORDING TO FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS FOR EROSION CONTROL APPLICATIONS AND THE FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTORS HANDBOOK.

6. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO INSURE THAT SEDIMENTATION AND/OR TURBIDITY PROBLEMS ARE NOT CREATED IN THE RECEIVING WATER.

7. CONTRACTOR SHALL MAKE PROVISIONS TO AVOID TRACKING DIRT AND CONSTRUCTION DEBRIS TO THE ROADWAY VIA TRUCK AND EQUIPMENT TIRES.

8. SILT FENCE SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH FDOT STANDARDS AND SPECIFICATIONS, AND THE CONTRACT DRAWINGS.

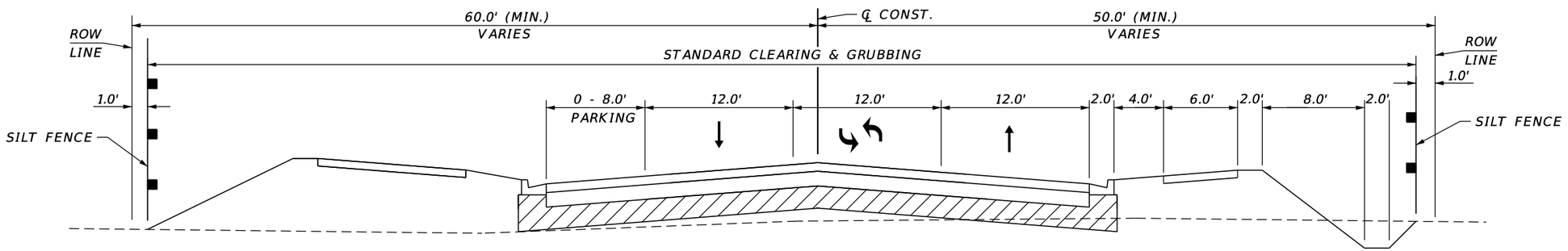
9. CONTRACTOR SHALL REPLACE CLOGGED SECTIONS OF SILT FENCES AND PERFORATED PIPE WITH FABRIC SOCK AS NECESSARY TO MAINTAIN WATER PASSAGE.

10. CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL DURING INSTALLATION OF NEW CURBING AND DRIVEWAYS AS APPROVED BY THE ENGINEER.

11. CONTRACTOR SHALL TAKE CARE TO KEEP EXPOSED AREAS TO A MINIMUM POSSIBLE TIME DURING CONSTRUCTION.

12. ON-SITE CONTROL MEASURES SHALL BE APPLIED TO REDUCE EROSION AS SHOWN ON THE PLANS, DETAIL SHEETS AND IN ACCORDANCE WITH FDOT AND FDEP REGULATIONS FOR EROSION CONTROL MEASURES. STOCKPILING AND STORAGE OF MATERIALS SHOULD NOT BE LOCATED IN A MANNER TO IMPEDE FLOW OR CAUSE MATERIALS TO BE ERODED BY STORMWATER RUNOFF.

13. ALL TEMPORARY SEDIMENTATION CONTROL STRUCTURES AND MEASURES TO BE USED DURING CONSTRUCTION SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED IN AN EFFECTIVE CONDITION UNTIL SUCH TIME AS THE COMPLETION OF THE PERMANENT SYSTEM OR OTHER EROSION CONTROL MEASURES CAN ASSURE ADEQUATE EROSION AND SEDIMENT CONTROL.



EROSION CONTROL TYPICAL SECTION

NOTE:

1. FROM STA. 47+00.00 TO STA. 51+60.00 FLOATING TURBIDITY BARRIER SHALL BE USED AS NECESSARY IN PLACE OF SILT FENCE.

REVISIONS			
REV	DATE	BY	DESCRIPTION

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Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
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CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

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EROSION CONTROL GENERAL NOTES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
212

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THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE FDOT SPECIFICATIONS, THE FDOT STANDARD PLANS, EROSION & SEDIMENT CONTROL MANUAL (E&SC) AND OTHER SHEETS OF THESE CONSTRUCTION PLANS.

THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) INCLUDES SEVERAL ITEMS:

* THIS NARRATIVE DESCRIPTION AND DOCUMENTS REFERENCED IN THIS NARRATIVE
* THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY FDOT SPECIFICATION SECTION 104
* REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION
* CONTRACTORS AND SUBCONTRACTORS SIGNED CERTIFICATIONS OF SWPPP

THE SWPPP MUST BE KEPT CURRENT AND UPDATED WITHIN 7 CALENDAR DAYS OF THE EVENT. ALL CHANGES MUST BE SIGNED, DATED KEPT AS ATTACHMENTS TO THE ORIGINAL SWPPP AND POSTED ON THE PROJECT BULLETIN BOARD.

1.0 SITE DESCRIPTION:

1. A. DESCRIPTION OF CONSTRUCTION ACTIVITY:

CONSTRUCTION OF NEW ROADWAY BETWEEN US 17 AND MINER ROAD IN NASSAU COUNTY FLORIDA. PROPOSED CORRIDOR INCLUDES SIDEWALK, SHARED USE PATH, CLOSED DRAINAGE SYSTEMS AND RETENTION PONDS.

1. B. MAJOR SOIL DISTURBING ACTIVITIES

IDENTIFY THE "DO NOT DISTURB AREAS" (SENSITIVE/WETLANDS): SEE PLANS AND PERMITS.

1. C. AREA ESTIMATES

TOTAL SITE AREA (ACRES): 32.02
TOTAL AREA TO BE DISTURBED (ACRES): 32.02

1. D. RUNOFF DATA

RUNOFF COEFFICIENTS: BEFORE: .15
DURING: .45
AFTER: .68

OUTFALLS: THERE ARE 3 PROPOSED OUTFALLS & 1 EXISITNG OUTFALL.

1. E. SITE MAP

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAP. IF AN ADDITIONAL MAP WITH CONTOUR INFORMATION IS REQUIRED, PROVIDE THE APPROPRIATE USGS QUADRANGLE MAP FOR THIS PURPOSE.

FLAG SENSITIVE/WETLAND AREAS NOT TO BE DISTURBED.

1. F. RECEIVING WATERS

RECEIVING WATER NAME: GARDNER CREEK & LOFTON CREEK

OUTFALL LOCATIONS (EXISTING):

DESCRIPTION/STATION	LATITUDE	LONGITUDE	DRAINAGE AREA
1. OUTFALL A	30.611	-81.592	12.67 AC
2. OUTFALL B	30.608	-81.591	5.98 AC
2. OUTFALL C	30.608	-81.584	11.09 AC
2. OUTFALL D (EXISTING)	30.610	-81.576	29.87 AC

WATER IS PRIMARILY CONVEYED BY:

CLOSED DRAINAGE SYSTEMS TO RETENTION PONDS.

2.0 CONTROLS

2.A. EROSION AND SEDIMENT CONTROLS

THE CONTRACTOR MUST IMPLEMENT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE AND TO PREVENT VIOLATIONS OF THE WATER QUALITY CRITERIA AND STANDARDS IN CHAPTERS 62-4, 62-302, F.A.C. ALL EROSION/SEDIMENT CONTROL PRACTICES MUST BE IN ACCORDANCE WITH THE GUIDELINES AND SPECIFICATIONS IN SECTION 6 OF THE FLORIDA LAND DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION 1988), AS WELL AS THE NASSAU COUNTY STANDARDS, UNLESS A PROJECT-SPECIFIC EROSION AND SEDIMENT CONTROL PLAN IS APPROVED BY THE WATER MANAGEMENT DISTRICT IN WHICH CASE THE PRACTICES MUST BE IN ACCORDANCE WITH THE PLAN. IF SITE SPECIFIC CONDITIONS REQUIRE ADDITIONAL MEASURES DURING ANY PHASE OF CONSTRUCTION OR OPERATION TO PREVENT EROSION OR CONTROL SEDIMENT, THE CONTRACTOR MUST IMPLEMENT THE NECESSARY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES.

STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14-DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

BACKFILL AND STABILIZE WITH SOD WITHIN 48 HOURS OF COMPLETION OF THE CURING PERIOD FOR BOX CULVERTS / EXTENSIONS AND FOR ALL CROSS DRAINS OR OUTFALL MODIFICATIONS.

MAINTAIN DRAINAGE UNTIL PERMANENTLY STABILIZED

2.A.2. STRUCTURAL PRACTICES

THE LOCATION AND TYPE OF THE EROSION CONTROL MEASURES SHOWN ON THESE DRAWINGS ARE PROVIDED FOR GENERAL GUIDANCE TO THE CONTRACTOR. THE METHODS AND SEQUENCING OF CONSTRUCTION EMPLOYED BY THE CONTRACTOR MAY REQUIRE MORE OR LESS EROSION CONTROL MEASURES THAN THAT DEPICTED TO MAINTAIN ADEQUATE EROSION AND SEDIMENT CONTROL FOR THE CONSTRUCTION ACTIVITIES.

EROSION/TURBIDITY BARRIERS MUST BE INSTALLED AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SEDIMENT OR SUSPENDED SOLIDS TO ADJACENT PROPERTIES, JURISDICTIONAL WETLANDS AND/OR RECEIVING WATER BODIES EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST REMAIN IN PLACE AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. THEREAFTER THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF THE BARRIERS. THE CONTRACTOR SHALL MAINTAIN THE EROSION/TURBIDITY CONTROL BARRIERS DAILY. THE CONTRACTOR IS TOTALLY RESPONSIBLE FOR PROVIDING THE NECESSARY EROSION/TURBIDITY CONTROL FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY PENALTIES IMPOSED BY THE PERMITTING AGENCIES FOR ANY EROSION, SHOALING, OR WATER QUALITY PROBLEMS RESULTANT TO CONSTRUCTION ACTIVITIES.

NO MATERIAL SHALL BE STOCKPILED IN EROSION PRONE AREAS.

2.B. STORMWATER MANAGEMENT

CONSTRUCT STORMWATER SYSTEMS TO CONVEY RUNOFF IN ROADSIDE DITCHES WITH CLOSED DRAINAGE SYSTEM (INLETS/PIPES) AND CONTROLLED WITH APPROVED DEVICES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY EROSION, SEDIMENTATION, SHOALING OR WATER QUALITY PROBLEMS THAT RESULT FROM THE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL USE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL AS DESCRIBED IN THE FLORIDA LAND DEVELOPMENT MANUAL, A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP, 1988) AND/OR ACCORDING TO FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS FOR EROSION CONTROL APPLICATIONS AND THE FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTORS HANDBOOK.

MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO INSURE THAT SEDIMENTATION AND/OR TURBIDITY PROBLEMS ARE NOT CREATED IN THE RECEIVING WATER.

SILT FENCE SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH NASSAU COUNTY, AND FDOT STANDARDS AND SPECIFICATIONS, AND THE CONTRACT DRAWINGS.

CONTRACTOR SHALL REPLACE CLOGGED SECTIONS OF SILT FENCES AND PERFORATED PIPE WITH FABRIC SOCK AS NECESSARY TO MAINTAIN WATER PASSAGE.

CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL DURING INSTALLATION OF NEW CURBING AND DRIVEWAYS AS APPROVED BY THE ENGINEER.

CONTRACTOR SHALL TAKE CARE TO KEEP EXPOSED AREAS TO A MINIMUM POSSIBLE TIME DURING CONSTRUCTION.

ON-SITE CONTROL MEASURES SHALL BE APPLIED TO REDUCE EROSION AS SHOWN ON THE PLANS, DETAIL SHEETS AND IN ACCORDANCE WITH FDOT, AND FDEP REGULATIONS FOR EROSION CONTROL MEASURES. STOCKPILING AND STORAGE OF MATERIALS SHOULD NOT BE LOCATED IN A MANNER TO IMPEDE FLOW OR CAUSE MATERIALS TO BE ERODED BY STORMWATER RUNOFF.

ALL TEMPORARY SEDIMENTATION CONTROL STRUCTURES AND MEASURES TO BE USED DURING CONSTRUCTION SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITY AND SHALL BE MAINTAINED IN AN EFFECTIVE CONDITION UNTIL SUCH TIME AS THE COMPLETION OF THE PERMANENT SYSTEM OR OTHER EROSION CONTROL MEASURES CAN ASSURE ADEQUATE EROSION AND SEDIMENT CONTROL.

2.C. OTHER CONTROLS

2.C.1. OFF-SITE VEHICLE TRACKING AND DUST CONTROL

CONTRACTOR SHALL MAKE PROVISIONS TO AVOID TRACKING DIRT AND CONSTRUCTION DEBRIS TO THE ROADWAY VIA TRUCK AND EQUIPMENT TIRES.

2.C.2. WASTE DISPOSAL

DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE STATES.

2.C.3. FERTILIZERS AND PESTICIDES

DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES IN ACCORDANCE WITH FDOT SPECIFICATION 570.

2.C.4. TOXIC SUBSTANCES

PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE AND DISPOSAL OF THESE SUBSTANCES.

2.C.5. SANITARY WASTE

PROVIDE AND MAINTAIN PORTABLE TOILETS. LOCATIONS APPROVED BY THE ENGINEER.

2.D. WATER QUALITY MONITORING

IF WATER QUALITY MONITORING CONDITION EXISTS IN THE PERMIT, FOLLOW ALL CONDITIONS WITHIN PERMIT. OTHERWISE, CONDUCT WATER QUALITY MONITORING DURING ALL PHASES OF CONSTRUCTION IMPACTING ANY SOURCE OF SURFACE WATER. DESIGNATE MONITORING LOCATIONS, FREQUENCY AND DEPTH; SUBMIT TO ENGINEER FOR APPROVAL.

MONITOR DISCHARGING ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS UNTIL TURBIDITY READINGS MEET REQUIREMENTS.

3.0. MAINTENANCE

PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION.

4.0. INSPECTION

PROVIDE THE ENGINEER WITH A MINIMUM OF 24 HOUR NOTICE PRIOR TO THE WEEKLY EROSION CONTROL INSPECTION REQUIRED BY FDOT SPECIFICATION 104-7.1

INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE.

5.0. NON-STORMWATER DISCHARGES

OBTAINING ALL DEWATERING PERMITS. IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES. DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES.

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12574 Flagler Center Blvd, Suite 202
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904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

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STORMWATER POLLUTION PREVENTION PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 213

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GENERAL NOTES

1. ON US 17, NO SINGLE LANE CLOSURES ALLOWED 6:30 AM TO 8:00 PM.
2. THE WORK ZONE POSTED SPEED LIMIT SHALL BE 35 MPH (US-17), 25 MPH (MINER RD.), & 15 MPH (WILLIAM BURGESS BLVD.).
3. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE UTILIZED

TIME	MESSAGE 1	MESSAGE 2
14 DAYS PRIOR TO CONSTRUCTION	ROAD WORK BEGINS	DAY MONTH DATE

4. FIFTEEN MINUTES PRIOR TO INITIATING MOT FOR LANE CLOSURE ON US 17, CONTACT THE DISTRICT TWO RTMC AT (904) 903-2000 TO PROVIDE INFORMATION ON THE ROADWAY, DIRECTION OF TRAVEL, AND WHICH LANE(S) WILL BE CLOSED. ONCE THE WORK IS COMPLETED AND LANE(S) ARE REOPENED, CONTACT THE DISTRICT TWO RTMC WITHIN THIRTY MINUTES TO NOTIFY THEM THAT THE LANE CLOSURES HAVE BEEN REMOVED.

LEGEND

- WORK ZONE
- WORK ZONE SIGN
- CHANNELIZING DEVICE (DRUMS ARE SHOWN. OTHER DEVICES ARE ALLOWED PER STANDARDS.)
- TYPE III BARRICADE
- ADVANCED WARNING ARROW PANEL
- TEMPORARY BARRIER WALL
- CRASH CUSHION (CC)
- ARROWS DENOTE DIRECTION OF TRAFFIC AND DO NOT REPRESENT PAVEMENT MARKINGS, UNLESS OTHERWISE NOTED.
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- PEDESTRIAN LCD

GENERAL NOTES

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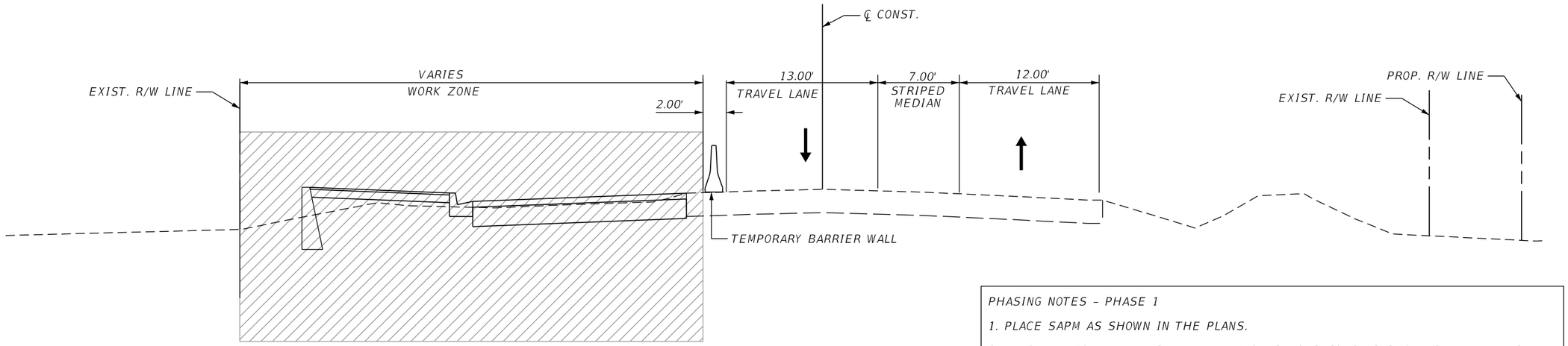
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TEMPORARY TRAFFIC CONTROL PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 214

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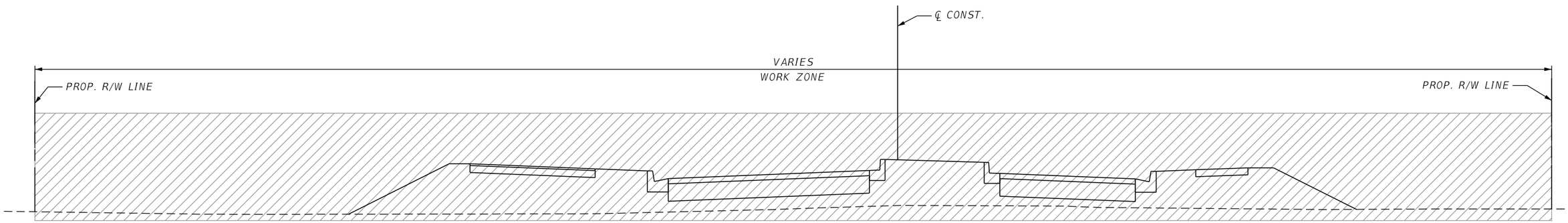


PHASE 1 – WILLIAM BURGESS BLVD.

STA. 4+31.22 TO STA. 13+20.00

PHASING NOTES – PHASE 1

1. PLACE SAPM AS SHOWN IN THE PLANS.
2. PLACE TEMPORARY BARRIER WALL AND CRASH CUSHIONS AS SHOWN IN THE PLANS.
3. CONST. WIDENING, SIGNALIZATION, LIGHTING AND DRAINAGE IMPROVEMENTS ALONG THE NORTH SIDE OF WILLIAM BURGESS BLVD.



PHASE 1 – WILLIAM BURGESS BLVD.

STA. 13+81.00 TO STA. 85+80.00

PHASING NOTES – PHASE 1

1. CONSTRUCT WIDENING AND DRAINAGE IMPROVEMENTS.

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TYPICAL SECTIONS & PHASING NOTES

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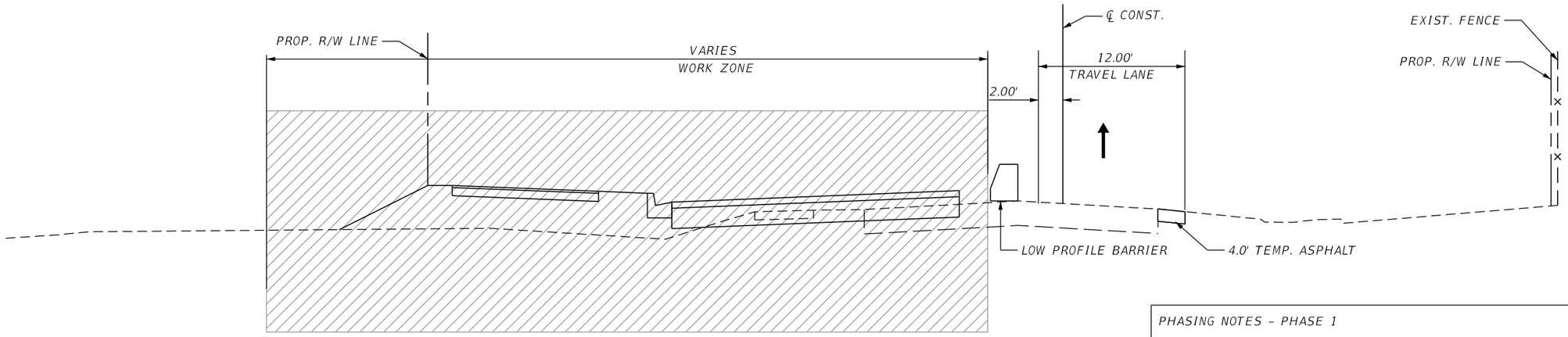
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TEMPORARY TRAFFIC CONTROL PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 215

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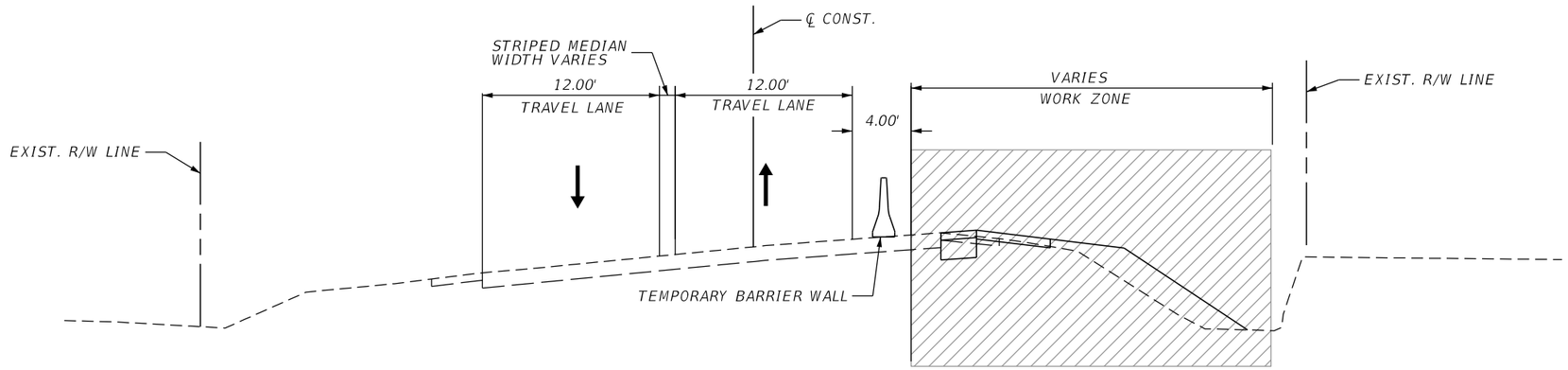


PHASE 1 – WILLIAM BURGESS BLVD.

STA. 85+80.00 TO STA. 103+00.00

PHASING NOTES – PHASE 1

1. PLACE SAPM AS SHOWN IN THE PLANS, UTILIZE TEMP. DETOUR FOR SCHOOL TRANSFER.
2. PLACE LOW PROFILE BARRIER AS SHOWN IN THE PLANS.
3. CONST. WIDENING, SIGNALIZATION, LIGHTING AND DRAINAGE IMPROVEMENTS ALONG THE NORTH SIDE OF PROPOSED WILLIAM BURGESS BLVD.



PHASE 1 – US 17

STA. 448+00.00 TO STA. 452+00.00

PHASING NOTES – PHASE 1

1. PLACE SAPM AS SHOWN IN THE PLANS.
2. PLACE TEMPORARY BARRIER WALL AND CRASH CUSHION AS SHOWN IN THE PLANS.
3. CONST. WIDENING ON ALONG EAST SIDE OF US 17.

TYPICAL SECTIONS & PHASING NOTES

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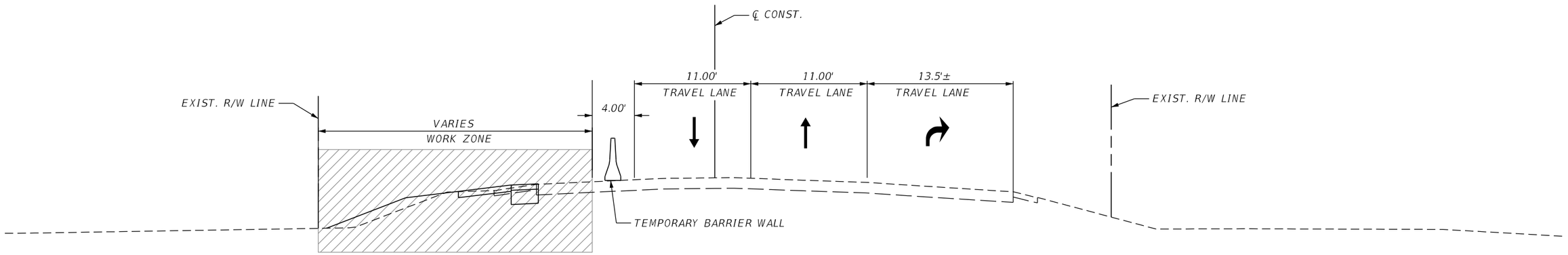
TEMPORARY TRAFFIC CONTROL PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

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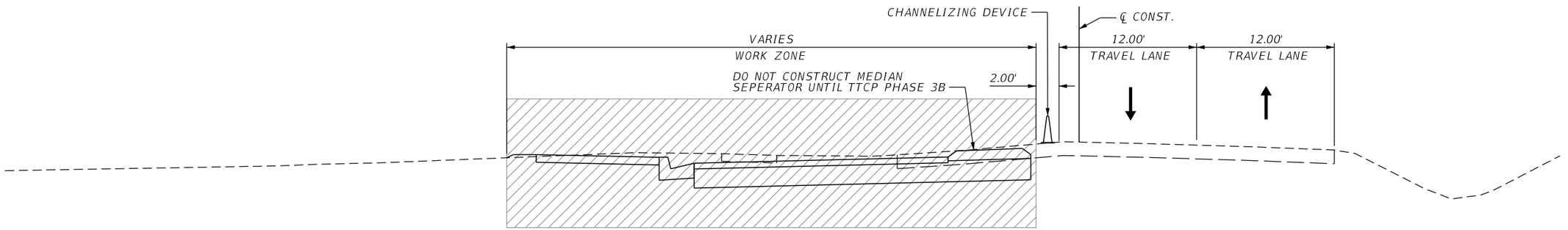


PHASE 1 – US 17

STA. 455+20.00 TO STA. 461+00.00

PHASING NOTES – PHASE 1

1. PLACE SAPM AS SHOWN IN THE PLANS.
2. PLACE TEMPORARY BARRIER WALL AND CRASH CUSHION AS SHOWN IN THE PLANS.
3. CONST. WIDENING ON ALONG WEST SIDE OF US 17.



PHASE 1 – MINER RD.

STA. 303+76.57 TO STA. 304+80.00
STA. 305+30.00 TO STA. 307+33.21

PHASING NOTES – PHASE 1

1. CONST. TEMPORARY ASPHALT PER TEMPORARY TRAFFIC CONTROL PLANS.
2. BUILD DRAINAGE, CURB & GUTTER, AND SIDEWALK ON WEST SIDE OF MINER RD.
3. MAINTAIN TWO TRAVEL LANES, ONE NORTHBOUND AND ONE SOUTHBOUND MINOR RD.
4. MAINTAIN PEDESTRIAN ACCESS ACROSS SCHOOL DRIVEWAY (PROPOSED WILLIAM BURGESS BLVD.

TYPICAL SECTIONS & PHASING NOTES

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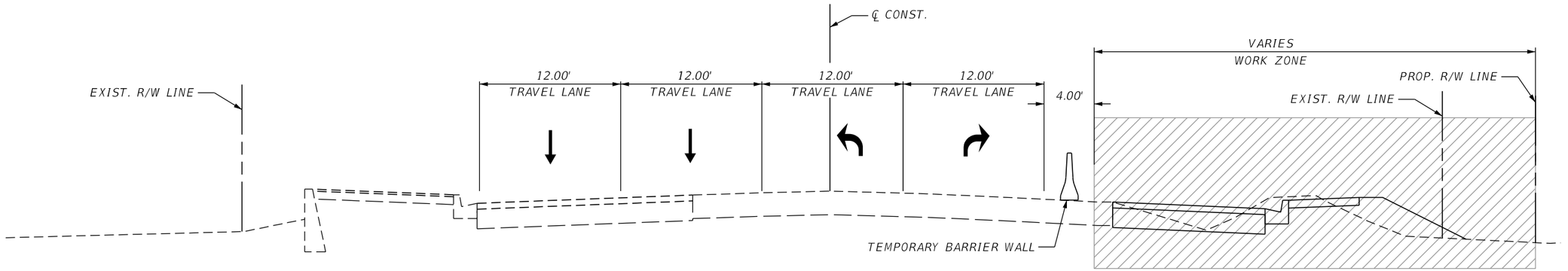
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
217

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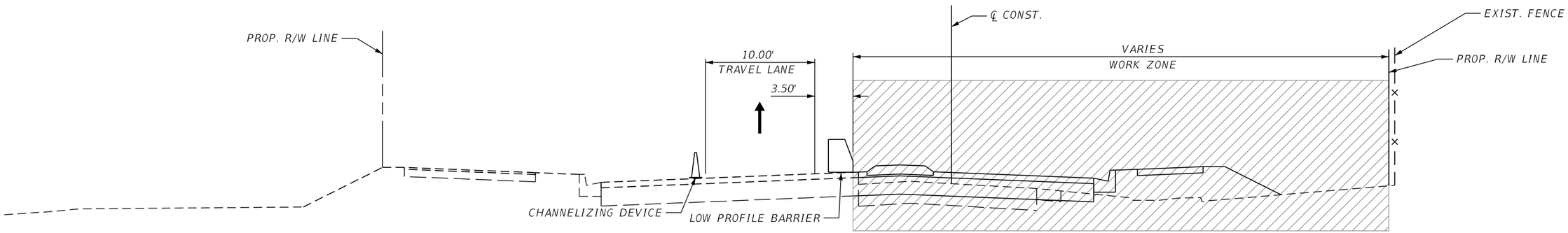


PHASING NOTES – PHASE 2

1. PLACE SAPM AS SHOWN IN THE PLANS.
2. PLACE TEMPORARY BARRIER WALL AND CRASH CUSHIONS AS SHOWN IN THE PLANS.
3. CONST. WIDENING, SIGNALIZATION, LIGHTING AND DRAINAGE IMPROVEMENTS ALONG THE SOUTH SIDE OF WILLIAM BURGESS BLVD.

PHASE 2 – WILLIAM BURGESS BLVD.

STA. 4+31.22 TO STA. 13+20.00



PHASING NOTES – PHASE 2

1. PLACE SAPM AS SHOWN IN THE PLANS, UTILIZE TEMP. DETOUR FOR SCHOOL TRANSFER.
2. PLACE LOW PROFILE BARRIER AS SHOWN IN THE PLANS.
3. CONST. WIDENING AND DRAINAGE IMPROVEMENTS ALONG THE SOUTH SIDE OF PROPOSED WILLIAM BURGESS BLVD.

PHASE 2 – WILLIAM BURGESS BLVD.

STA. 85+80.00 TO STA. 103+00.00

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TYPICAL SECTIONS & PHASING NOTES

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904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

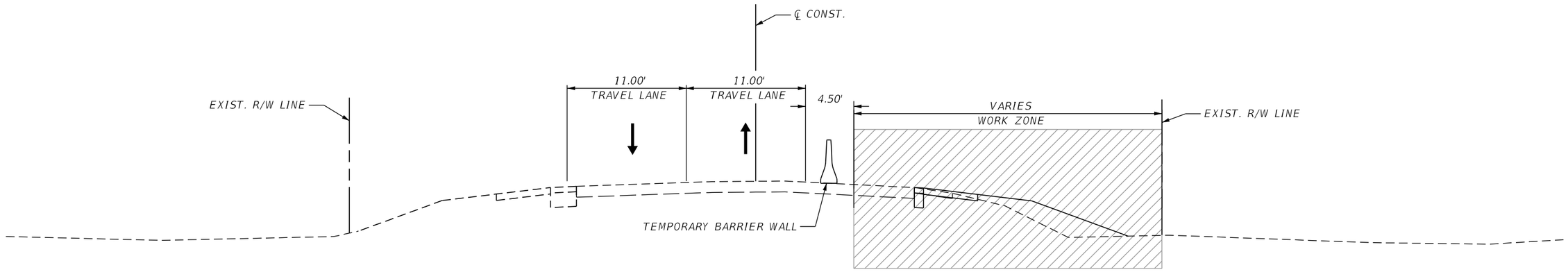
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TEMPORARY TRAFFIC CONTROL PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 218

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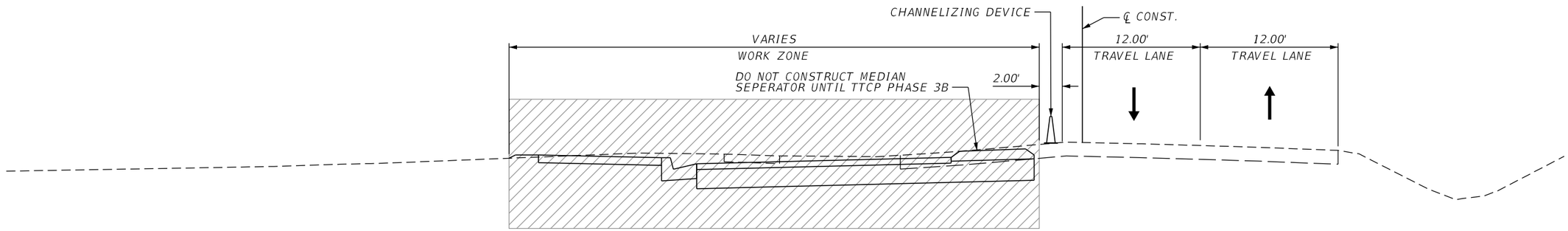


PHASE 2 - US 17

STA. 453+80.00 TO STA. 458+00.00

PHASING NOTES - PHASE 2

1. PLACE SAPM AS SHOWN IN THE PLANS.
2. PLACE TEMPORARY BARRIER WALL AND CRASH CUSHION AS SHOWN IN THE PLANS.
3. CONST. WIDENING, SIGNALIZATION, LIGHTING AND DRAINAGE IMPROVEMENTS ON ALONG EAST SIDE OF US 17.



PHASE 2 - MINER RD.

STA. 303+76.57 TO STA. 304+80.00
STA. 305+30.00 TO STA. 307+33.21

PHASING NOTES - PHASE 2

1. MATCH MINOR RD. PHASE 1 WORK.
2. ACCESS INTO SCHOOL DRIVEWAY (PROPOSED WILLIAM BURGESS BLVD.) HAS BEEN SHIFTED.

REVISIONS			
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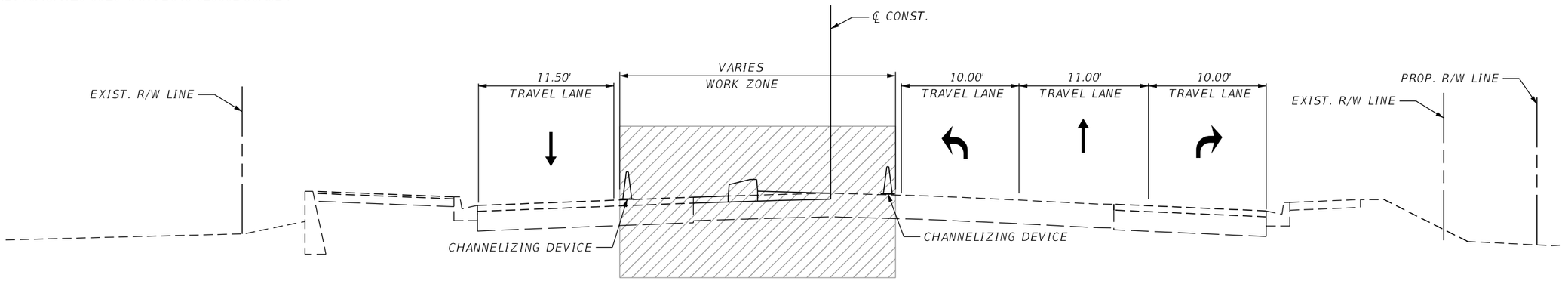
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
219

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PHASING NOTES - PHASE 3(A)

1. PLACE SAPM AS SHOWN IN THE PLANS.
2. PLACE CHANNELIZING DEVICES AS SHOWN IN THE PLANS.
3. CONST. MEDIAN CURB, INLET AND TRAFFIC SEPARATOR.

PHASE 3(A) - WILLIAM BURGESS BLVD.

STA. 7+20.0 TO STA. 12+80.00

PHASING NOTES - PHASE 3(A)

1. PLACE SAPM AS SHOWN IN THE PLANS UTILIZE TEMP. DETOUR FOR SCHOOL TRANSFER.
2. PLACE CHANNELIZING DEVICES AND SIGNS AS SHOWN IN THE PLANS.
3. CONST. ROUNDABOUT SPLITTER ISLAND ON WILLIAM BURGESS BLVD., WESTERN PORTION OF ROUNDABOUT CENTER ISLAND.

PHASE 3(A) - WILLIAM BURGESS BLVD.

STA. 101+00.00 TO STA. 103+00.00

PHASING NOTES - PHASE 3(A)

1. PLACE SAPM AS SHOWN IN THE PLANS UTILIZE TEMP. DETOUR FOR SCHOOL TRANSFER.
2. PLACE CHANNELIZING DEVICES AS SHOWN IN THE PLANS.
3. CONST. WIDENING AND DRAINAGE IMPROVEMENTS ALONG THE EAST SIDE OF MINOR RD..

PHASE 3(A) - MINOR RD.

STA. 303+50.00 TO STA. 307+40.00

PHASING NOTES - PHASE 3(B)

1. PLACE SAPM AS SHOWN IN THE PLANS.
2. PLACE CHANNELIZING DEVICES AS SHOWN IN THE PLANS.
3. CONST. REMAINING PROTION FO ROUNDABOUT CENTER ISLAND AND SPLITTER ISLANDS ON MINOR RD.

PHASE 3(B) - MINOR RD.

STA. 303+50.00 TO STA. 307+40.00

PHASING NOTES - PHASE 4

1. PLACE FINAL PAVMEMENT LIFT.
2. PLACE FINAL SAPM AS SHOWN IN THE PLANS.

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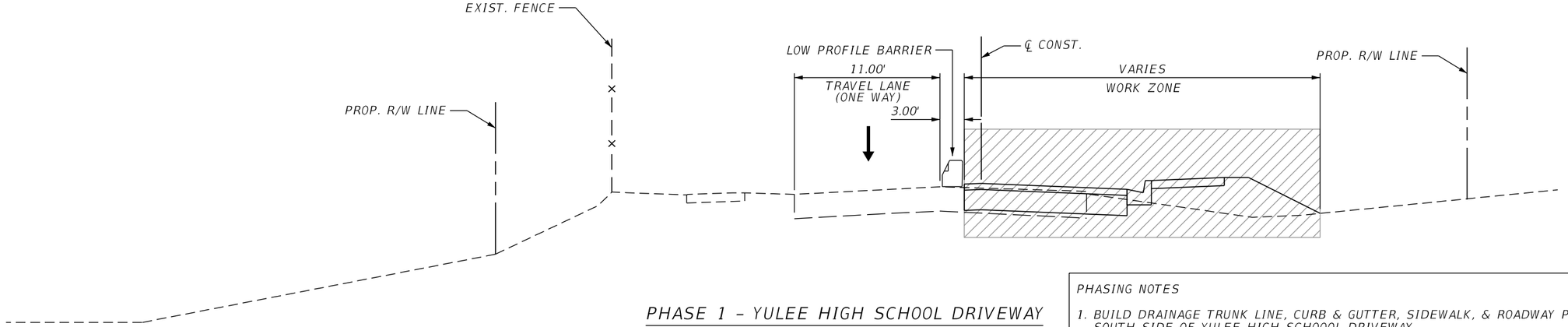
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
220

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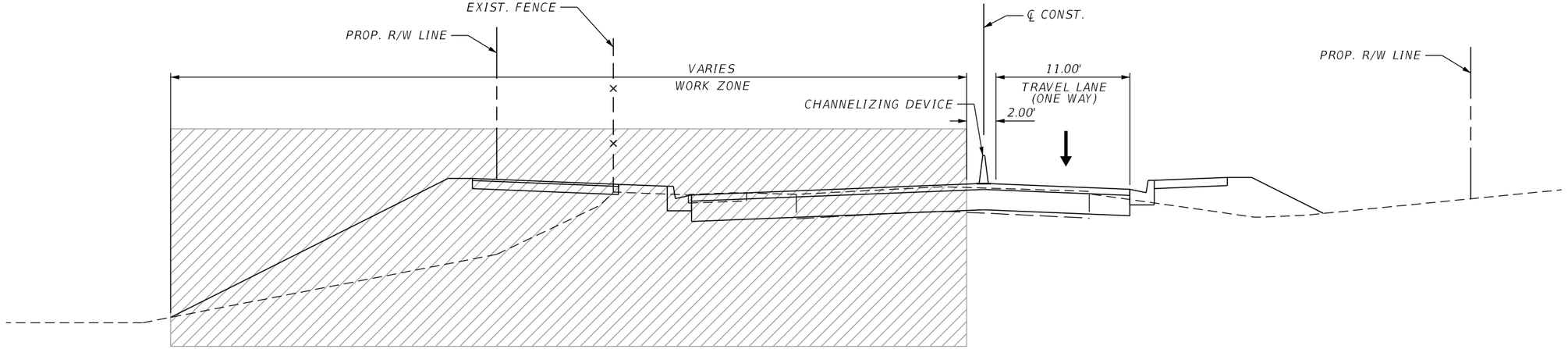
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PHASE 1 - YULEE HIGH SCHOOL DRIVEWAY

PHASING NOTES

1. BUILD DRAINAGE TRUNK LINE, CURB & GUTTER, SIDEWALK, & ROADWAY PAVEMENT ON SOUTH SIDE OF YULEE HIGH SCHOOOL DRIVEWAY.
2. MUST MAINTAIN ONE 12FT TRAVEL LANE HEADING WEST TOWARDS YULEE HIGH SCHOOL PARKING LOT.



PHASE 2 - YULEE HIGH SCHOOL DRIVEWAY

PHASING NOTES

1. BUILD DRAINAGE TRUNK LINE, CURB & GUTTER, SIDEWALK, & ROADWAY PAVEMENT ON NORTH SIDE OF YULEE HIGH SCHOOOL DRIVEWAY.
2. MUST MAINTAIN ONE 11FT TRAVEL LANE HEADING WEST TOWARDS YULEE HIGH SCHOOL PARKING LOT.

TYPICAL SECTIONS & PHASING NOTES

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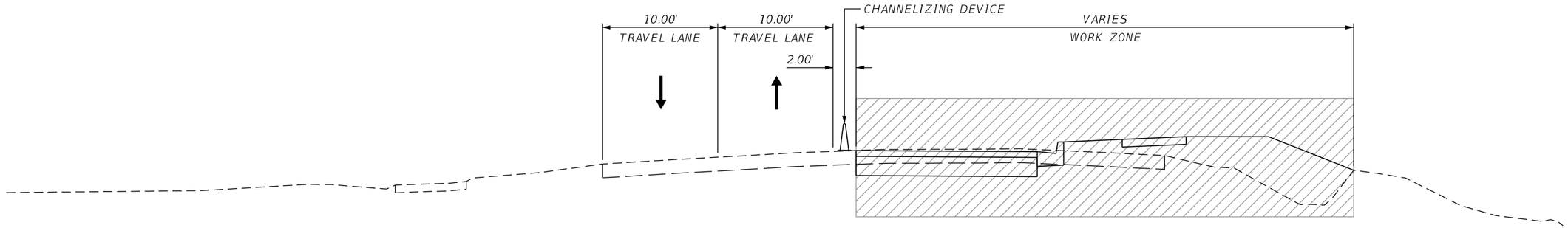
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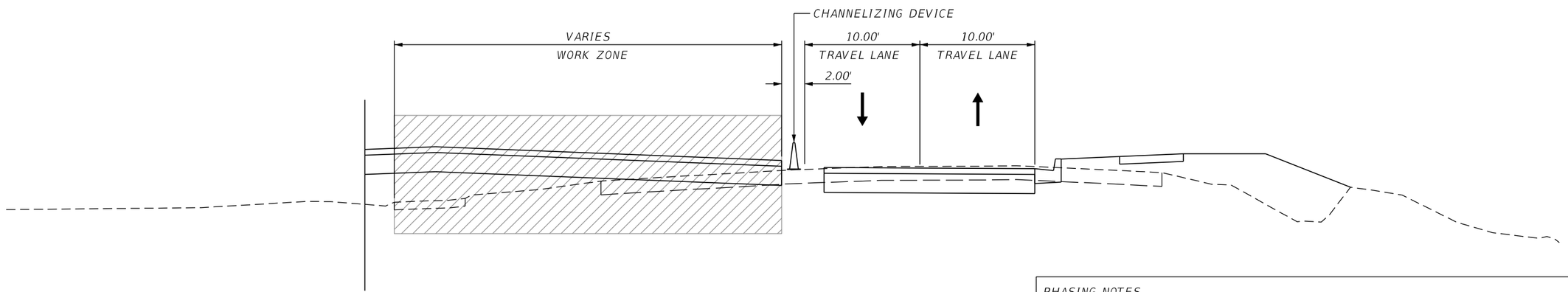
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PHASE 1 - MINER RD.

PHASING NOTES

1. BUILD CURB & GUTTER, DRIVEWAYS, SIDEWALK, & ROADWAY PAVEMENT ON EAST SIDE OF MINOR RD.
2. MUST MAINTAIN TWO 10FT LANES, ONE NORTHBOUND AND ONE SOUTHBOUND MINOR RD.
3. CONSTRUCT MISCELLANEOUS PAVEMENT IN PLACE OF ROUNDABOUT CURB & GUTTER WITHIN THE WORK ZONE.



PHASE 2 - MINER RD.

PHASING NOTES

1. BUILD ROADWAY PAVEMENT, CURB & GUTTER, & SIDEWALK ON WEST SIDE OF MINOR RD.
2. MUST MAINTAIN TWO 10FT LANES, ONE NORTHBOUND AND ONE SOUTHBOUND MINOR RD.
3. CONSTRUCT MISCELLANEOUS PAVEMENT IN PLACE OF ROUNDABOUT CURB & GUTTER WITHIN THE WORK ZONE.

TYPICAL SECTIONS & PHASING NOTES

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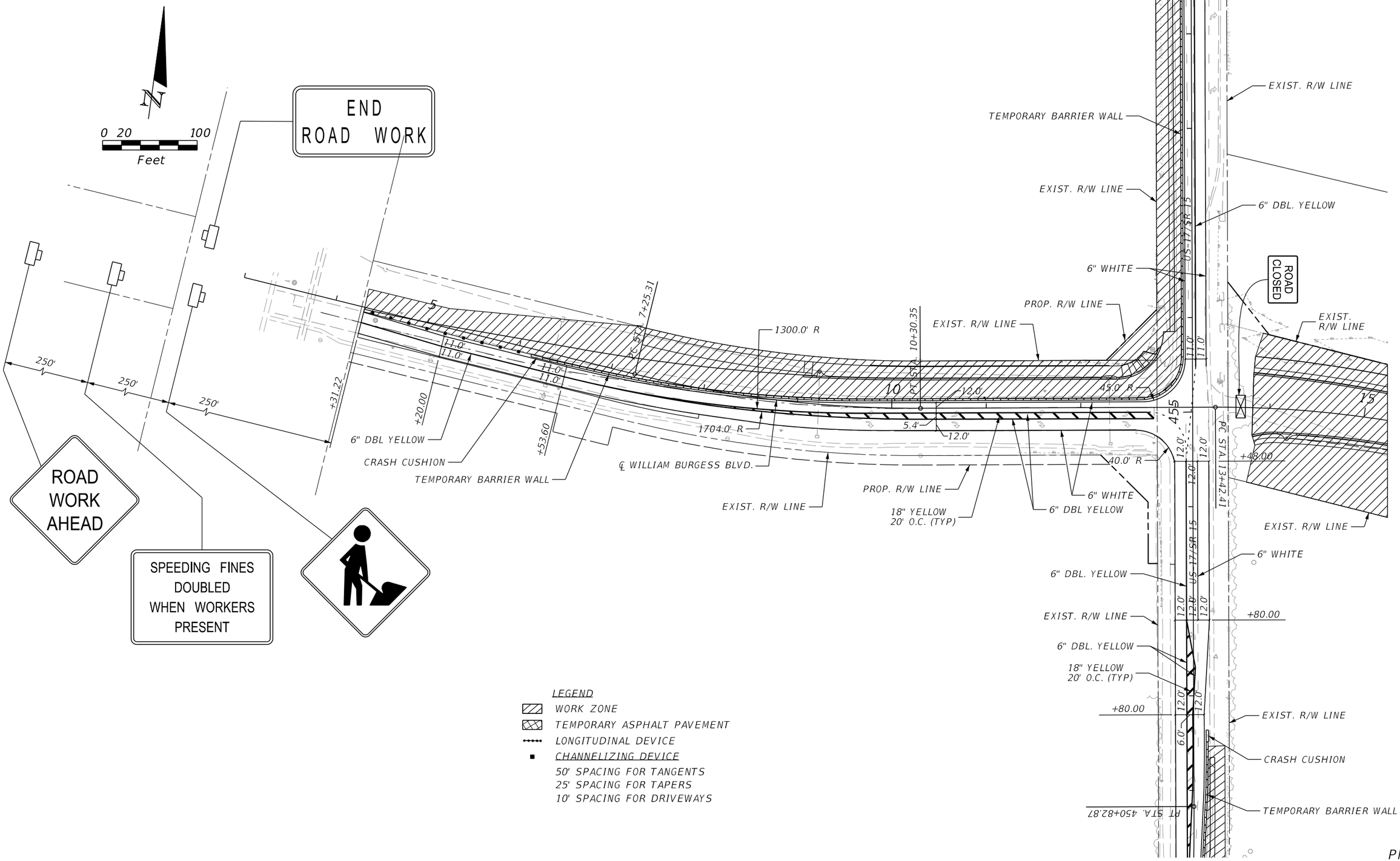
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NASSAU COUNTY, FLORIDA

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222

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LEGEND

- WORK ZONE
- TEMPORARY ASPHALT PAVEMENT
- LONGITUDINAL DEVICE
- CHANNELIZING DEVICE
  - 50' SPACING FOR TANGENTS
  - 25' SPACING FOR TAPERS
  - 10' SPACING FOR DRIVEWAYS

PHASE 1

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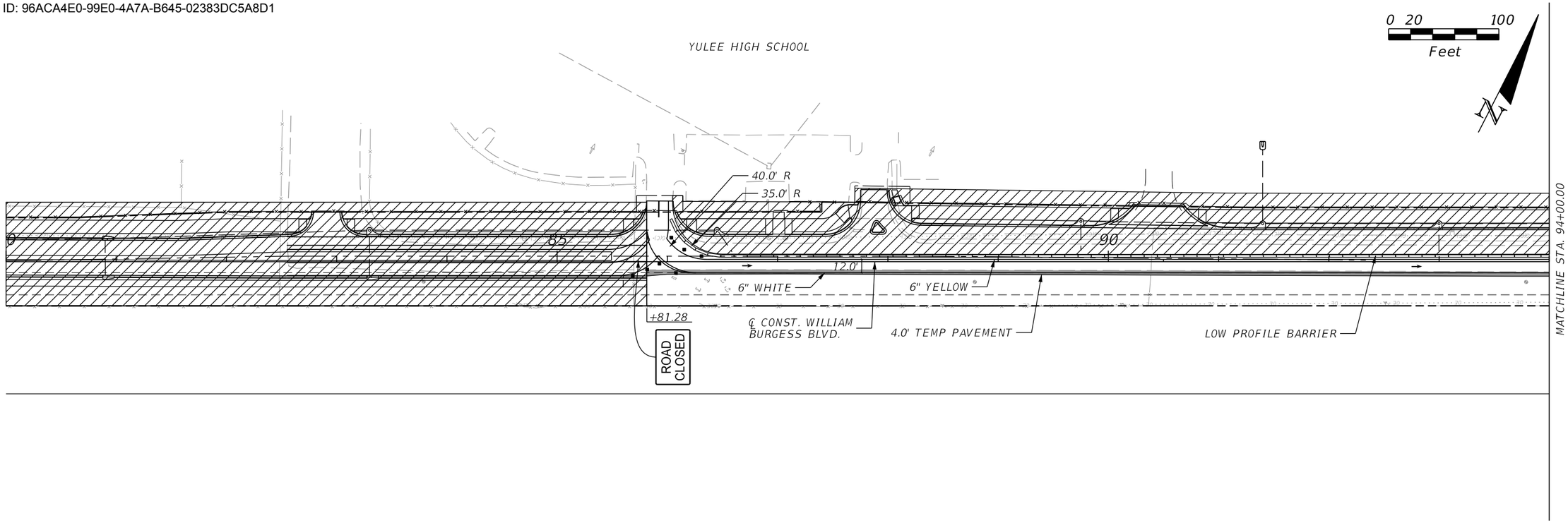
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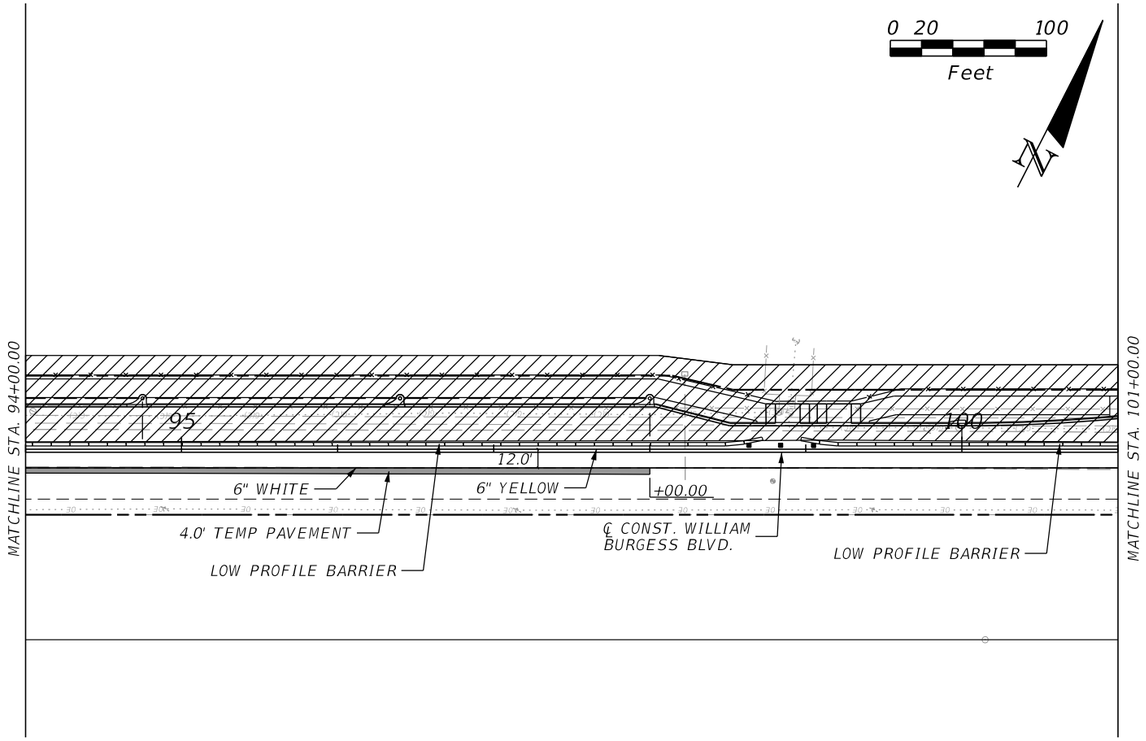
TEMPORARY TRAFFIC CONTROL PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
223

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1





LEGEND

- WORK ZONE
- TEMPORARY ASPHALT PAVEMENT
- LONGITUDINAL DEVICE
- CHANNELIZING DEVICE
  - 50' SPACING FOR TANGENTS
  - 25' SPACING FOR TAPERS
  - 10' SPACING FOR DRIVEWAYS

PHASE 1

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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

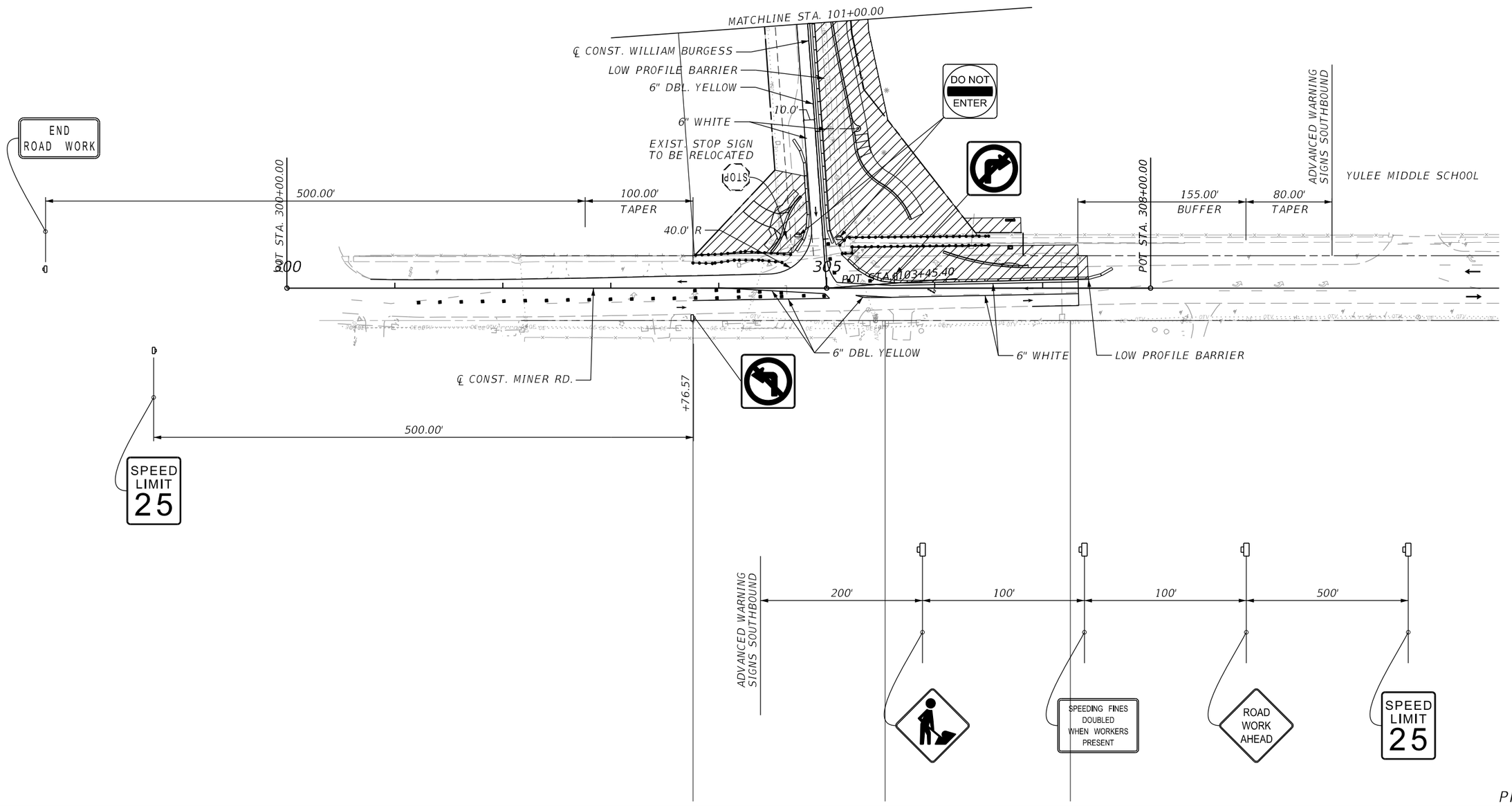
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0 20 100
Feet

LEGEND
- WORK ZONE
- TEMPORARY ASPHALT PAVEMENT
- LONGITUDINAL DEVICE
- CHANNELIZING DEVICE
  - 50' SPACING FOR TANGENTS
  - 25' SPACING FOR TAPERS
  - 10' SPACING FOR DRIVEWAYS



PHASE 1

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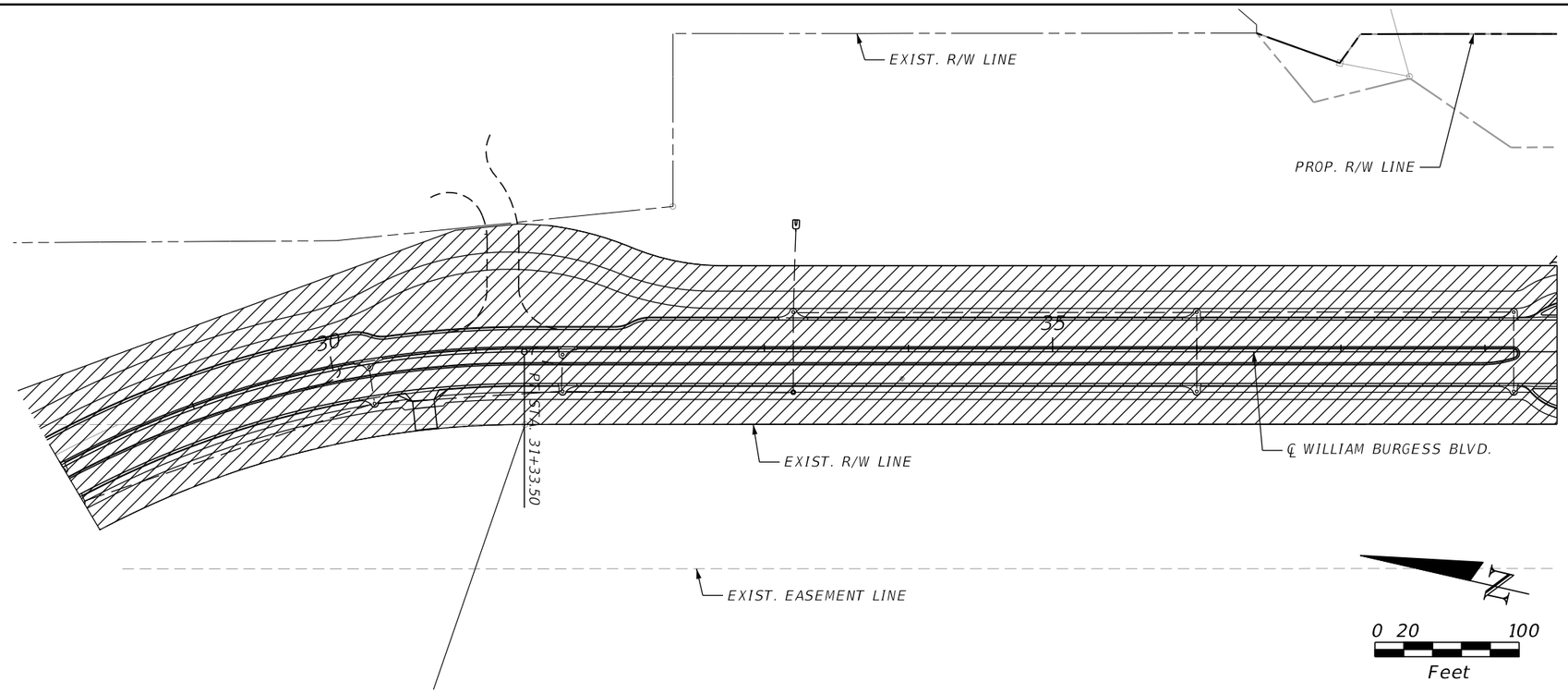
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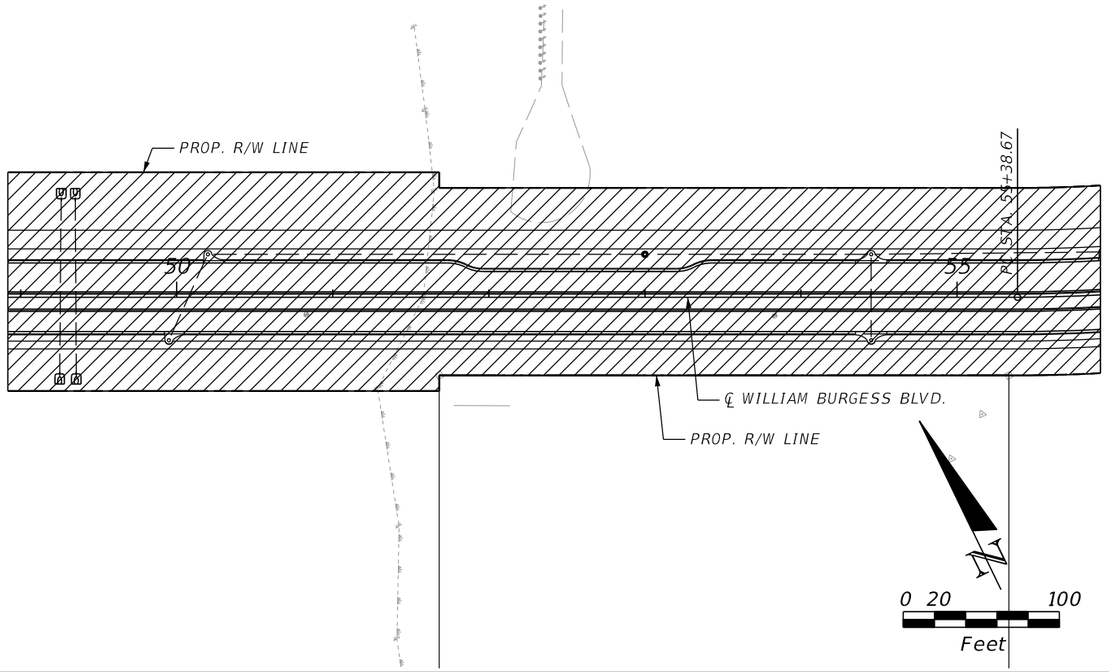
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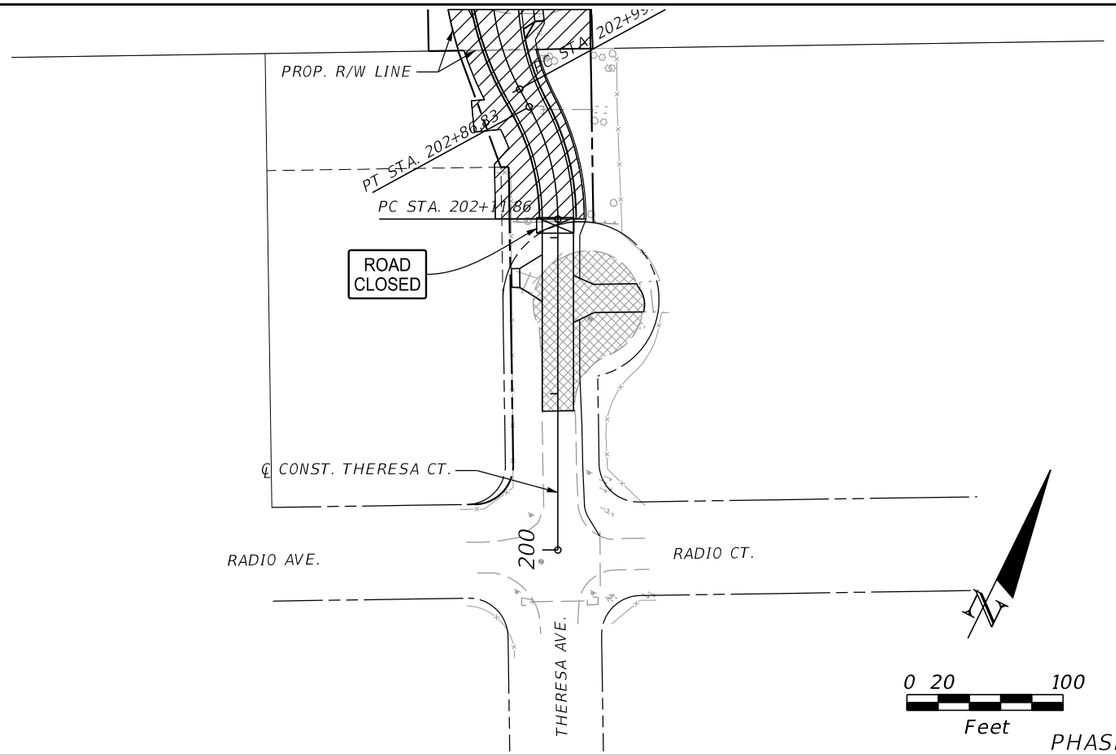
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LEGEND

- WORK ZONE
- TEMPORARY ASPHALT PAVEMENT
- LONGITUDINAL DEVICE
- CHANNELIZING DEVICE
  - 50' SPACING FOR TANGENTS
  - 25' SPACING FOR TAPERS
  - 10' SPACING FOR DRIVEWAYS







PHASE 1

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TEMPORARY TRAFFIC CONTROL PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

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LEGEND

WORK ZONE

TEMPORARY ASPHALT PAVEMENT

LONGITUDINAL DEVICE

CHANNELIZING DEVICE

50' SPACING FOR TANGENTS
25' SPACING FOR TAPERS
10' SPACING FOR DRIVEWAYS

NOTE:
CONTRACTOR SHALL COMPLETE ROADWAY CONSTRUCTION WEST OF YULEE HIGH SCHOOL PRIOR TO BEGINNING THIS PORTION OF THE PHASE I PLANS.

0 30 150
Feet

N

YULEE HIGH SCHOOL

WILLIAM BURGESS BLVD.

DUANE RD.

THERESA RD.

DUANE RD.

MINER RD.

ASHLEY AVE.

DETOUR HIGH SCHOOL DROP-OFF

DO NOT ENTER

PHASE 1

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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
227

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LEGEND
- WORK ZONE
- TEMPORARY ASPHALT PAVEMENT
- LONGITUDINAL DEVICE
- CHANNELIZING DEVICE
  - 50' SPACING FOR TANGENTS
  - 25' SPACING FOR TAPERS
  - 10' SPACING FOR DRIVEWAYS

SPEEDING FINES DOUBLED WHEN WORKERS PRESENT

ROAD WORK AHEAD

END ROAD WORK

℄ WILLIAM BURGESS BLVD.

LOW PROFILE BARRIER

18" YELLOW 20' O.C. (TYP)

PT STA. 10+30.35

PROP. R/W LINE

6" DBL. YELLOW

EXIST. R/W LINE

6" WHITE

TEMPORARY BARRIER WALL

613.0' R

+82.02

PT STA. 450+82.87

+80.00

450

455

460

12.0'

6.4'

11.0'

US 17/SR 15

℄ STA. 13+42.41

865.0' R

250'

CRASH CUSHION

ROAD CLOSED

EXIST. R/W LINE

℄ WILLIAM BURGESS BLVD.

℄ STA. 17+20.36

0 20 100

Feet

PHASE 1

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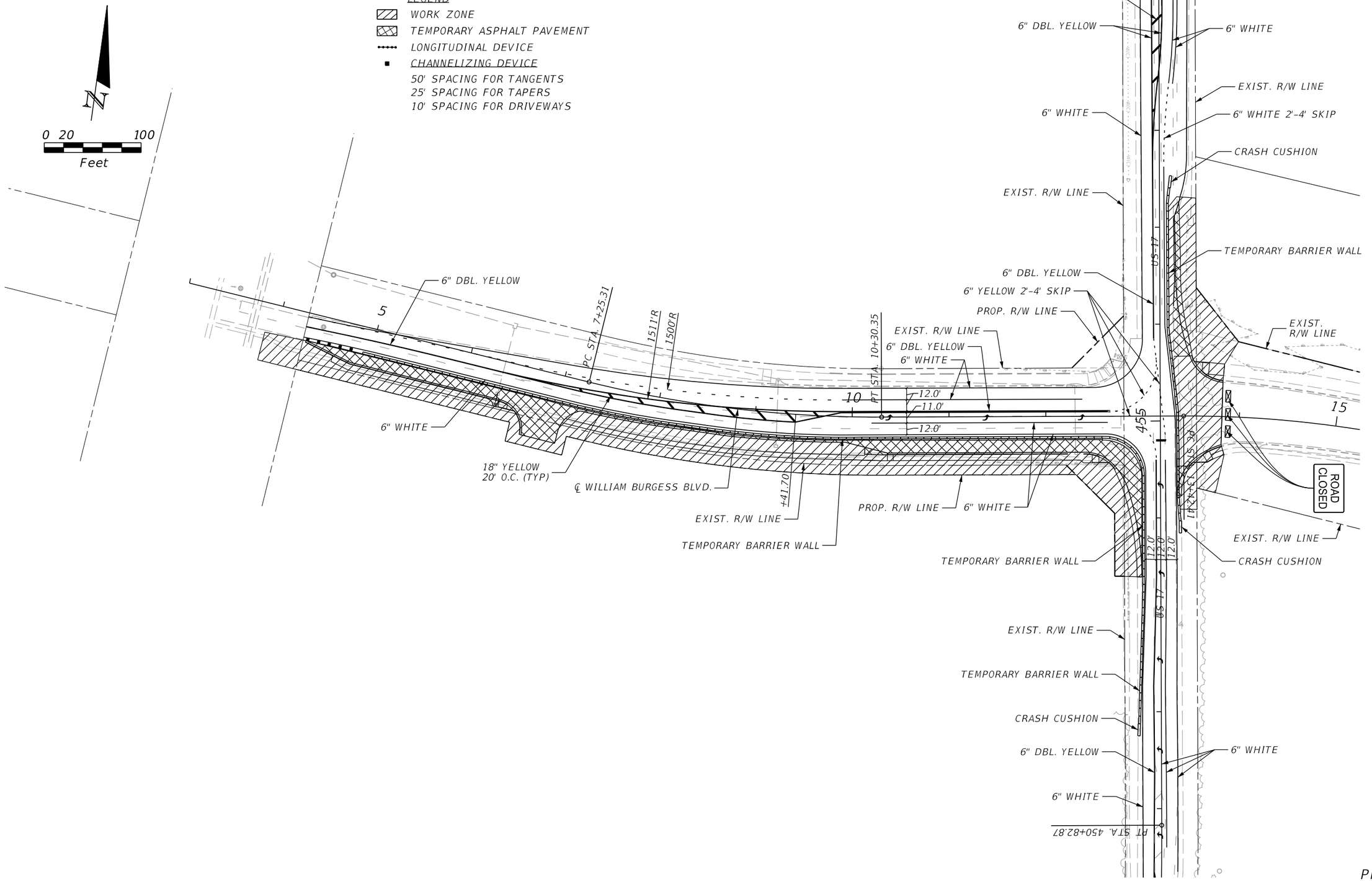
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TEMPORARY TRAFFIC CONTROL PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. 228

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REV	DATE	BY	DESCRIPTION

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Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

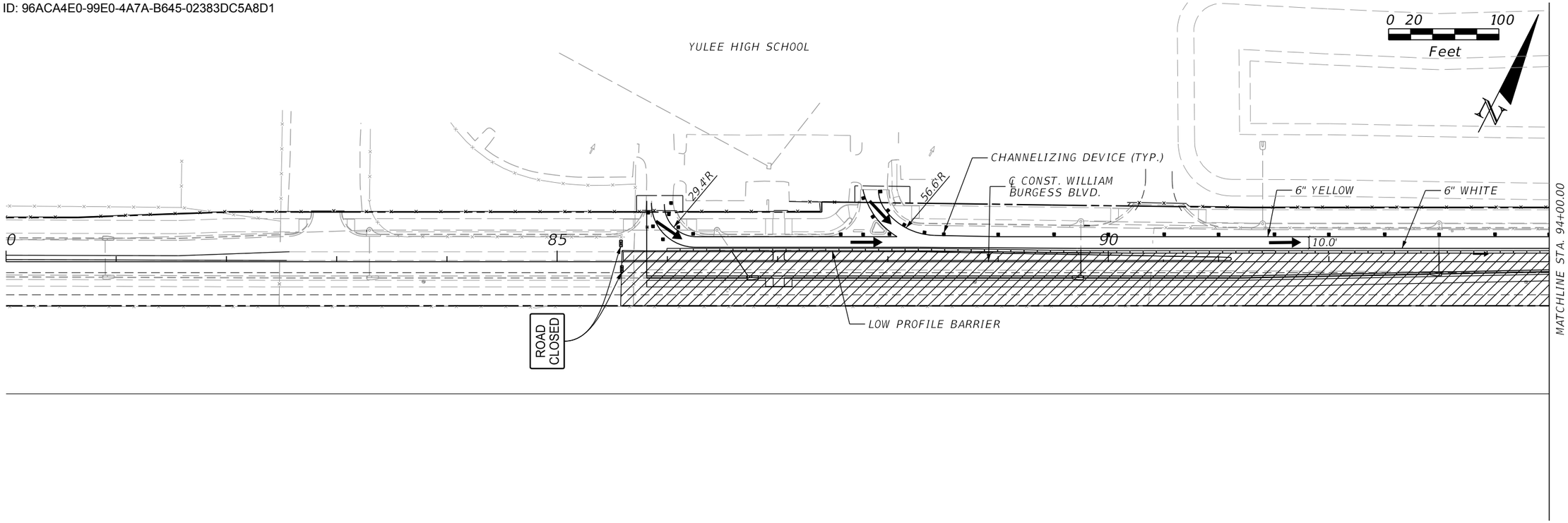
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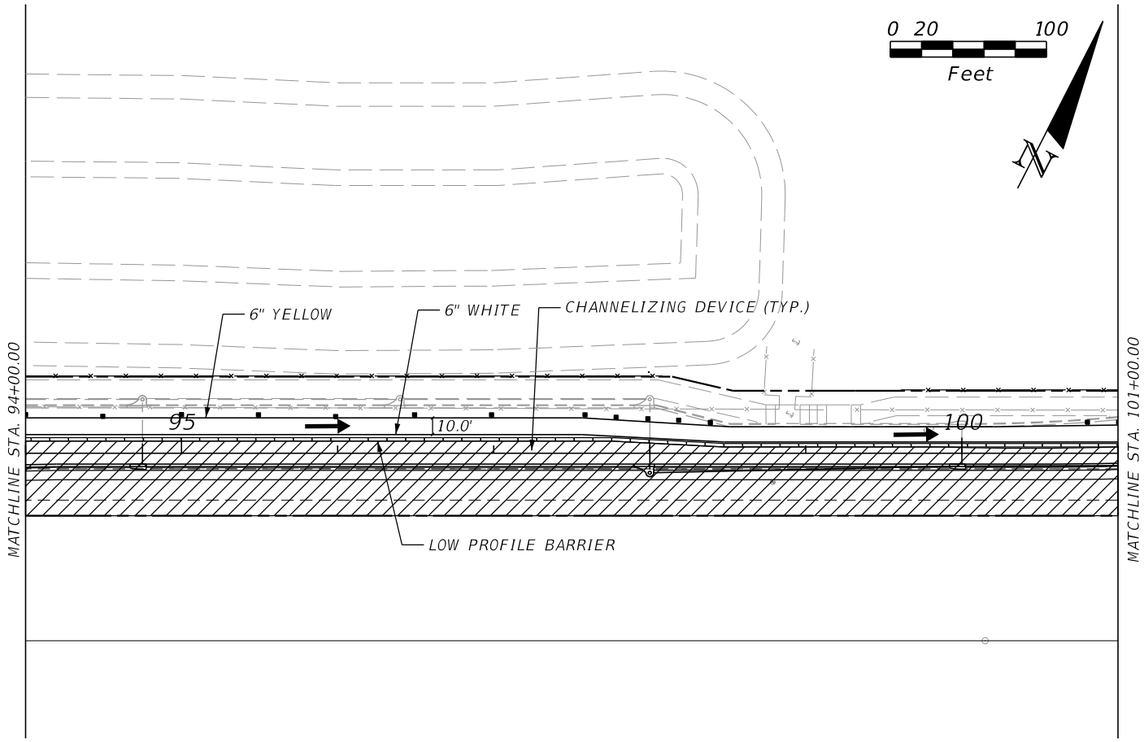
TEMPORARY TRAFFIC CONTROL PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
229

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1





LEGEND

- WORK ZONE
- TEMPORARY ASPHALT PAVEMENT
- LONGITUDINAL DEVICE
- CHANNELIZING DEVICE
  - 50' SPACING FOR TANGENTS
  - 25' SPACING FOR TAPERS
  - 10' SPACING FOR DRIVEWAYS

PHASE 2

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TEMPORARY TRAFFIC CONTROL PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

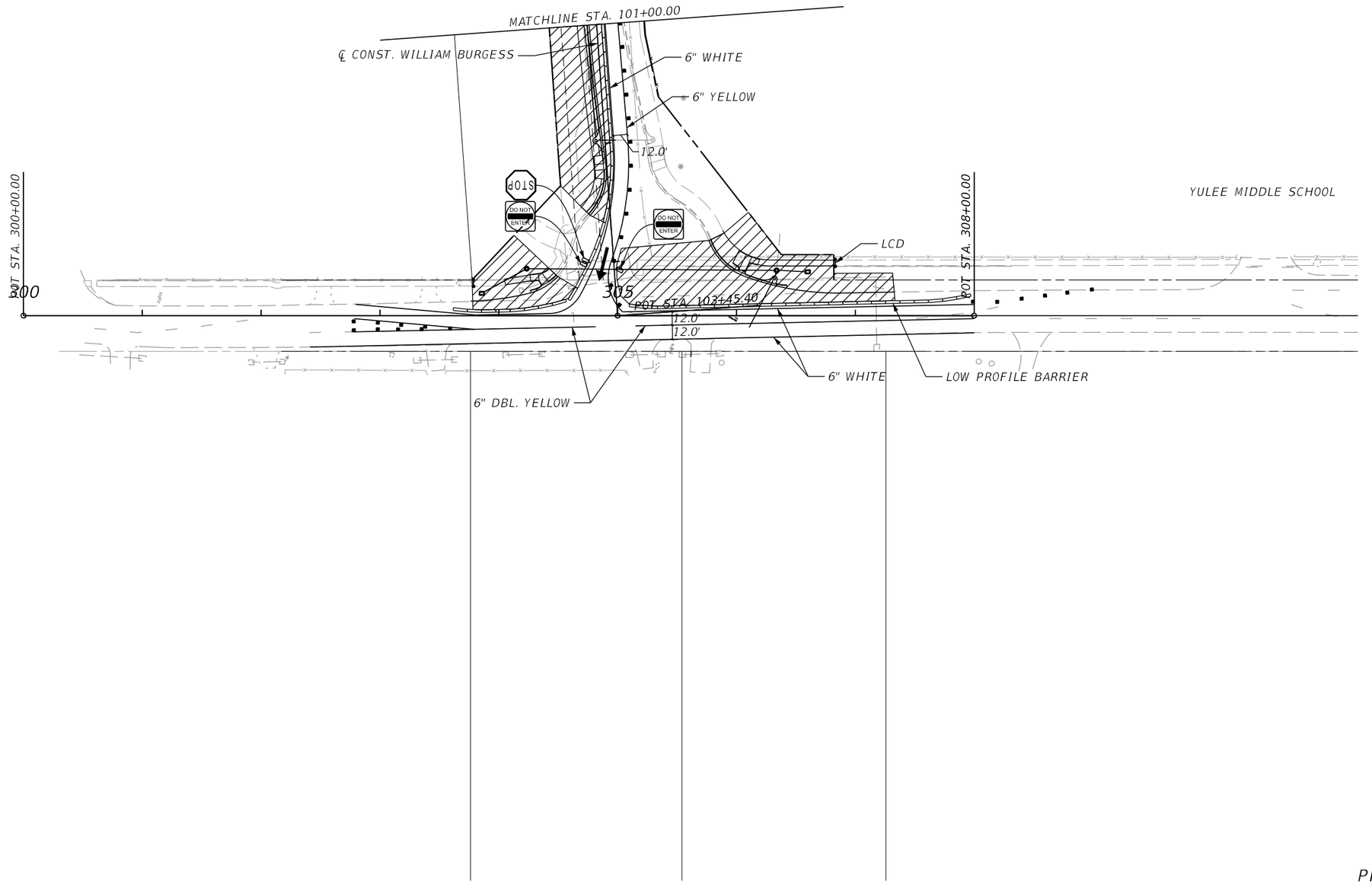
SHEET NO. 230

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

0 20 100
Feet

LEGEND
- WORK ZONE
- TEMPORARY ASPHALT PAVEMENT
- LONGITUDINAL DEVICE
- CHANNELIZING DEVICE
  - 50' SPACING FOR TANGENTS
  - 25' SPACING FOR TAPERS
  - 10' SPACING FOR DRIVEWAYS

NOTE:
ALL SIGNING AND MARKING DIMENSIONS FOR MINOR RD. SHOWN ON TTCP PHASE 1.



PHASE 2

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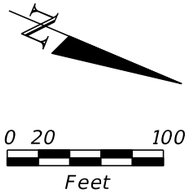
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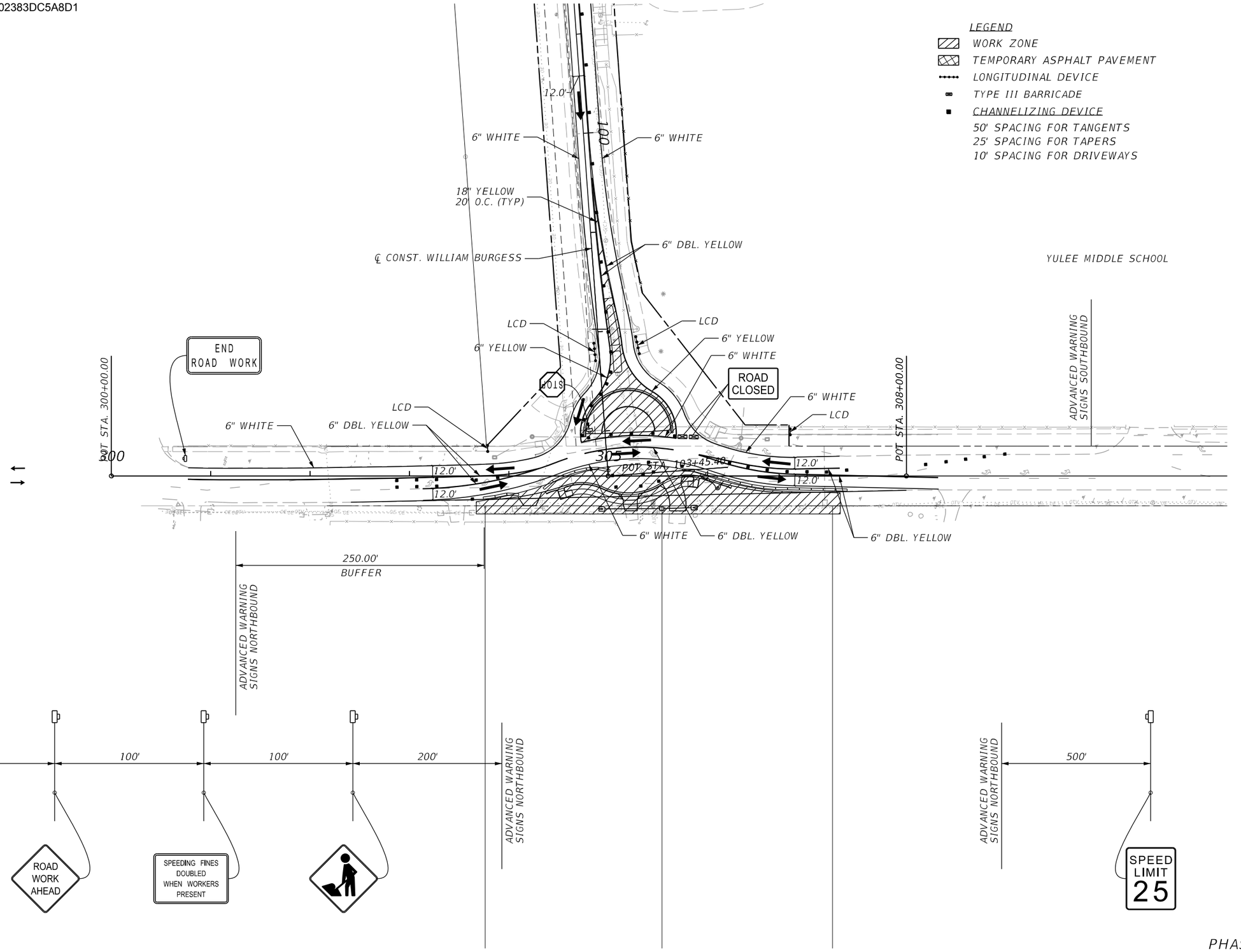
TEMPORARY TRAFFIC CONTROL PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
231

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PHASE 3A

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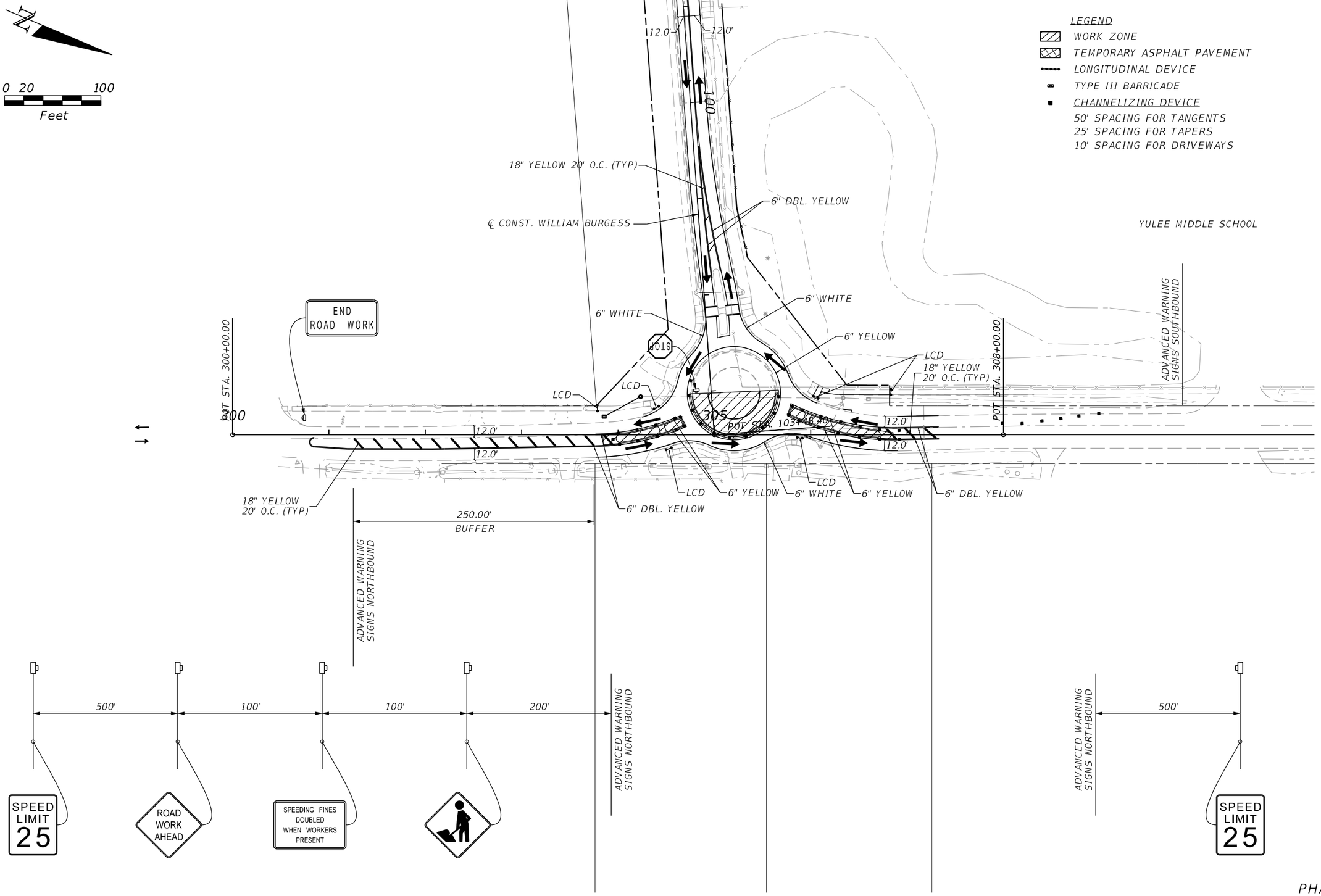
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TEMPORARY TRAFFIC CONTROL PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
232

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PHASE 3B

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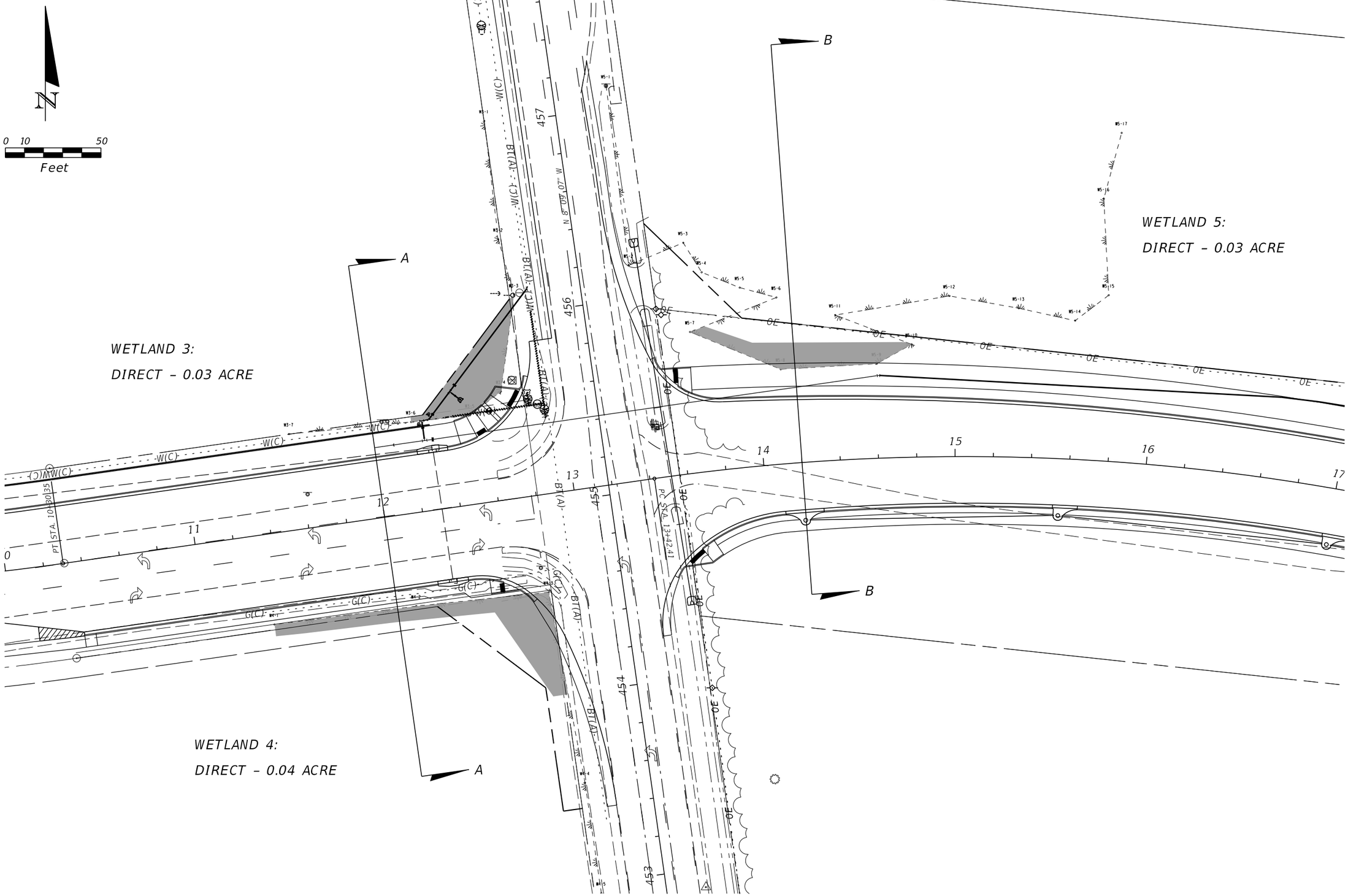
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TEMPORARY TRAFFIC CONTROL PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
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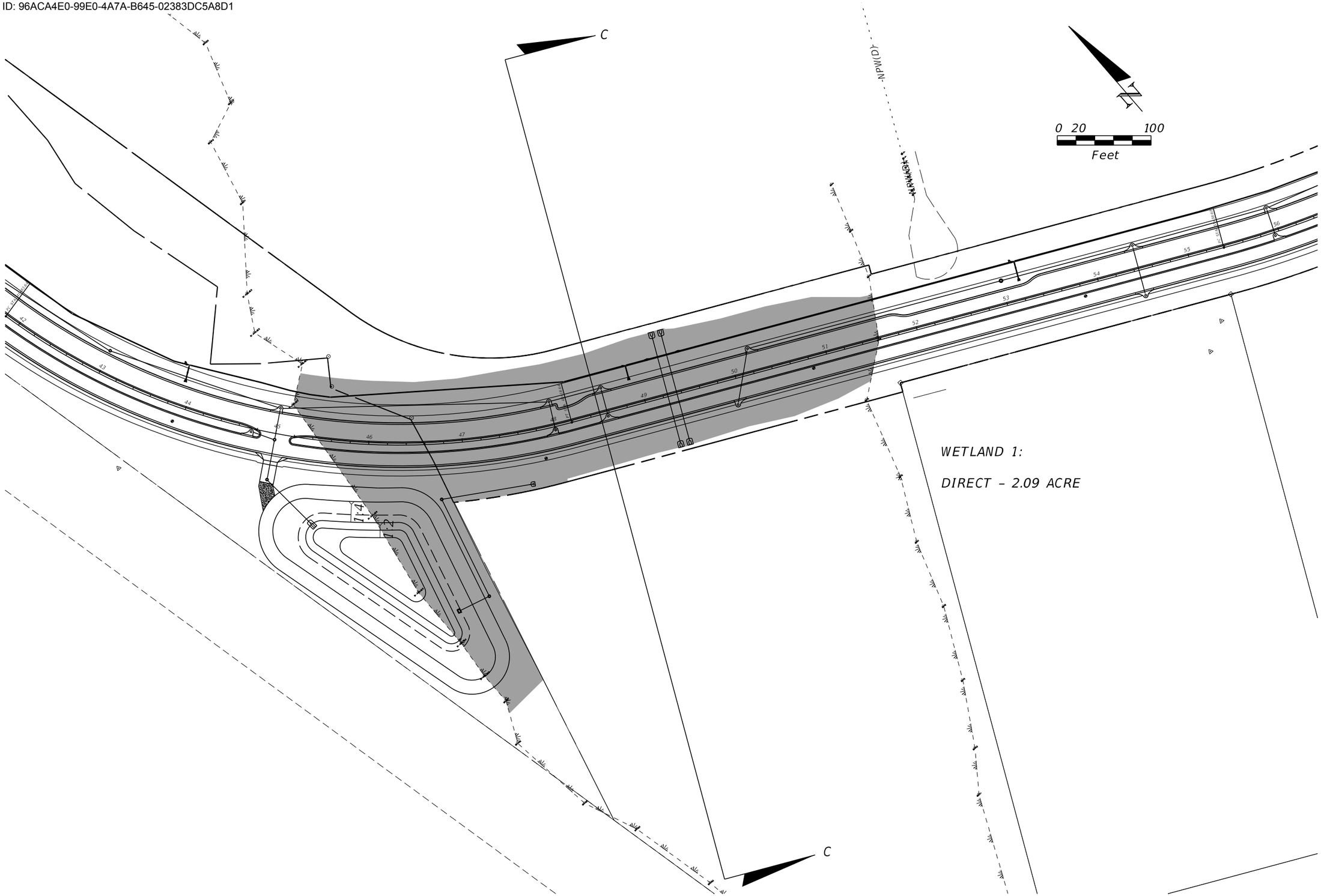
WETLAND IMPACTS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
W-1

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WETLAND IMPACTS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
W-2

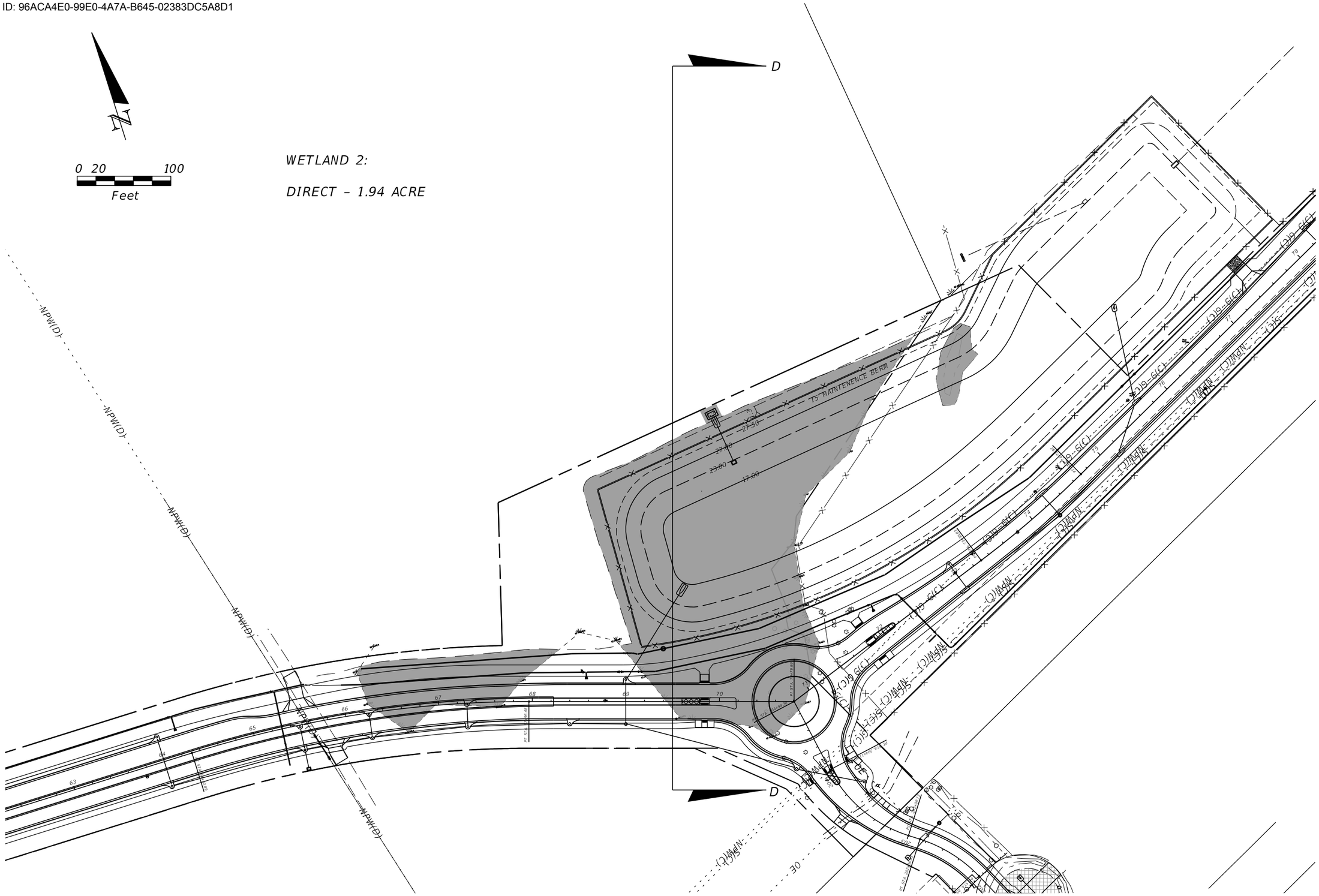
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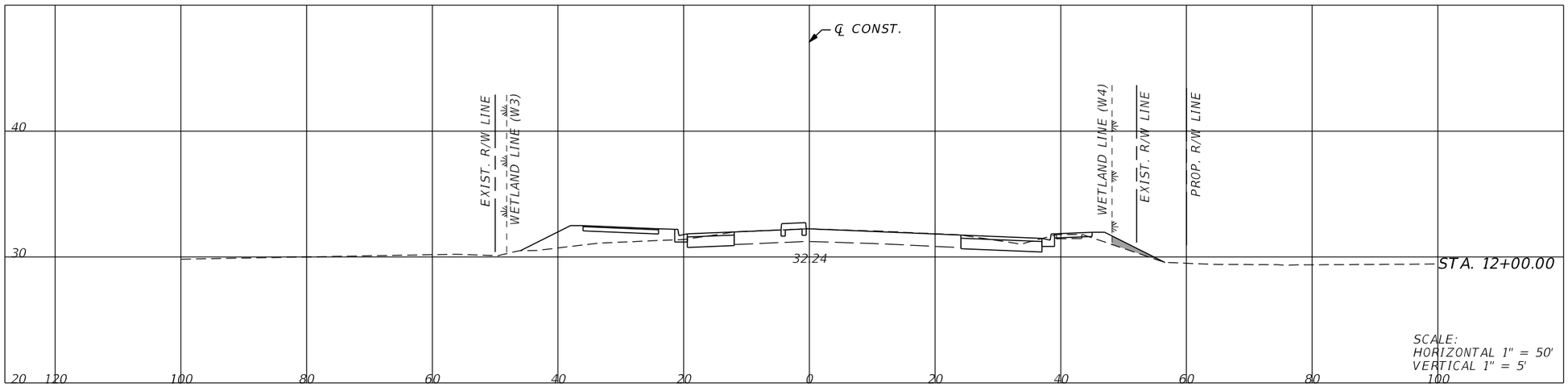
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WETLAND 2:

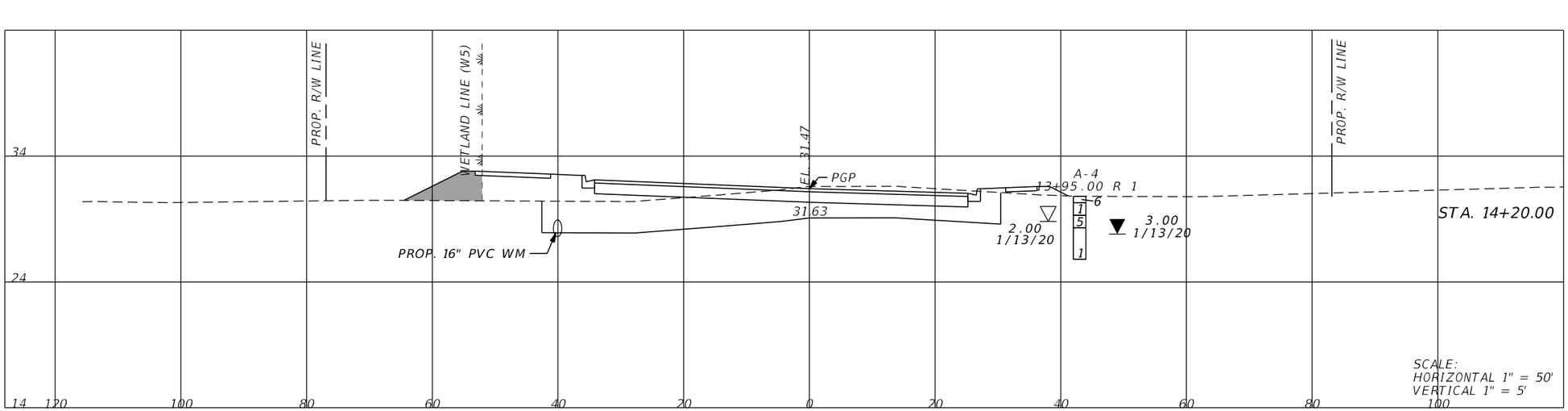
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-NPW(D)-
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-OE-
-NPW(C)-
-SPW(C)-
-SPW(C)-
-NPW(C)-
-OHP-
-OHP-
-OHP

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



SECTION A-A



SECTION B-B

LEGEND

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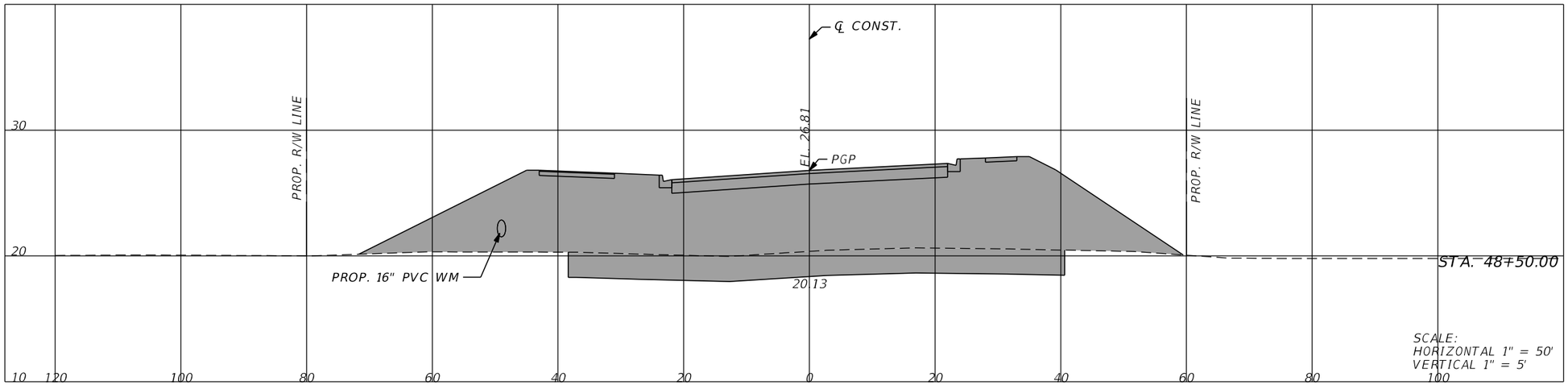
WETLAND IMPACT CROSS SECTIONS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. W-4

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SECTION C-C

LEGEND
DIRECT IMPACT

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

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APPROVED:	RH

PROJECT NO. / DASH NO.
B190839.00

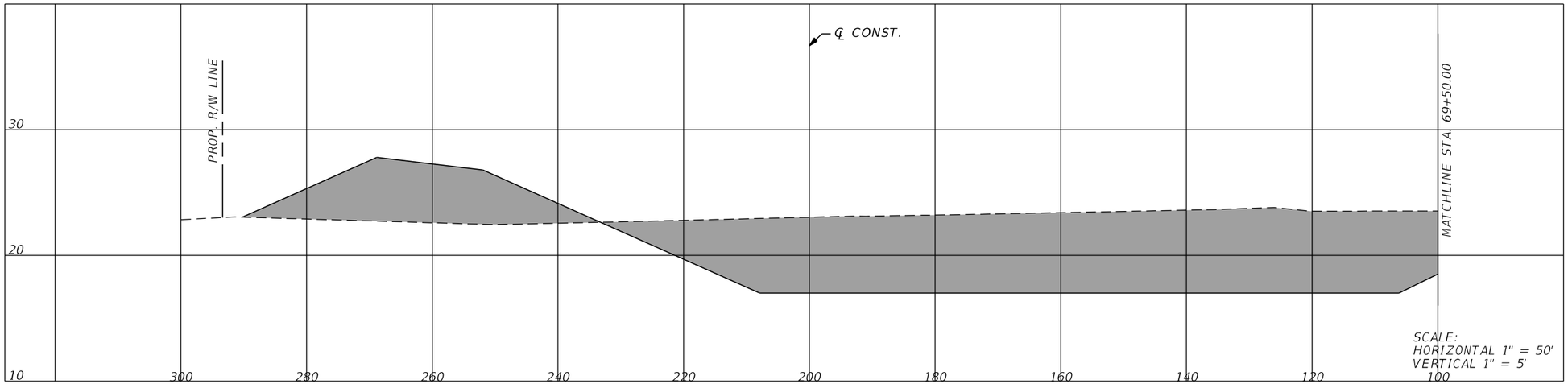
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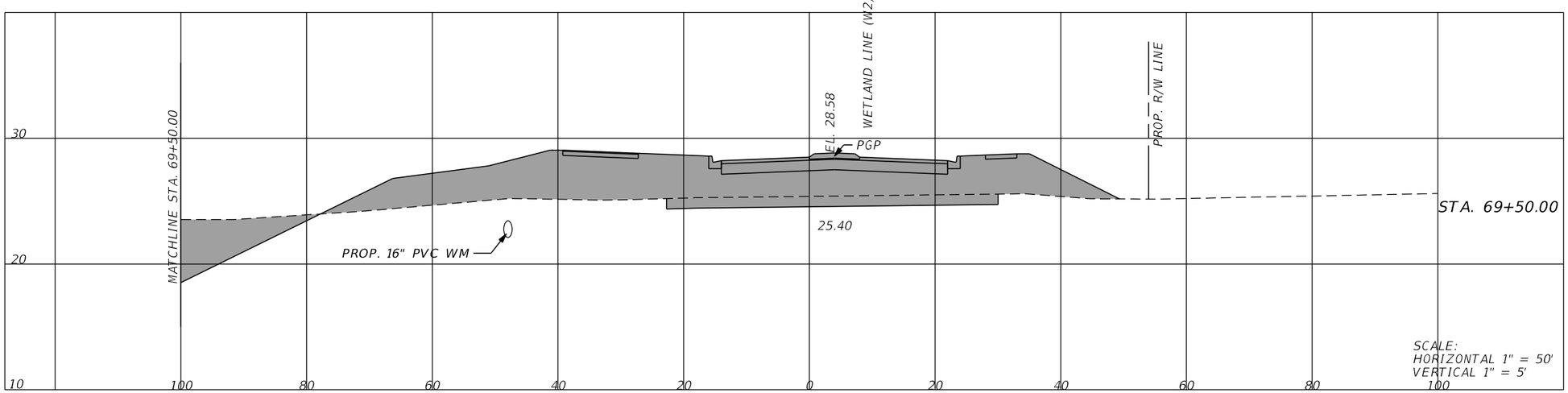
WETLAND IMPACT CROSS SECTIONS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
W-5

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1





LEGEND

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WETLAND IMPACT CROSS SECTIONS

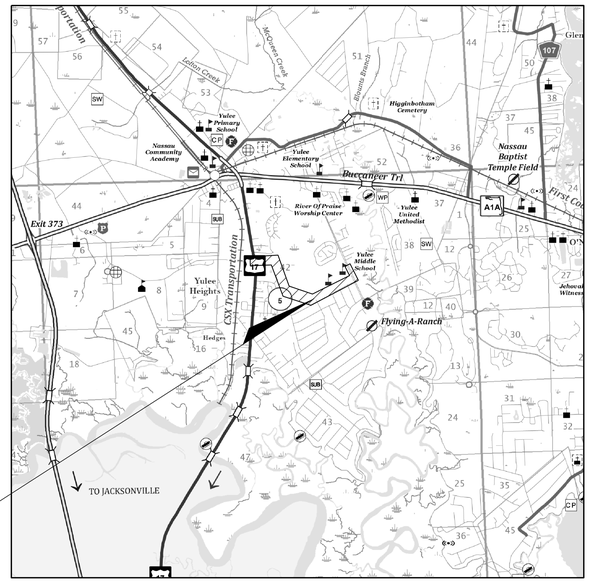
WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. W-6

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WILLIAM BURGESS BLVD. EXTENSION
16" WATER MAIN AND 16" SANITARY FORCE MAIN
CONSTRUCTION PLANS



PROJECT LOCATION

VICINITY MAP
1 INCH = 1 MILE

NOT FOR CONSTRUCTION

JEA PROJECT NO. 2022-2597

gai consultants
12574 Flagler Center Blvd., Suite 202
Jacksonville, Florida 32258
904-363-1110

EB9951

Building Community sm

PLAN APPROVAL

Date _____ Development Services Division (Chief) _____

Date _____ Review Group (Reviewer) _____

Plan approval is valid for five years after the initial approval date. Revisions made after the initial approval date do not extend this five-year time frame.

MATTHEW M. BOLYARD
LICENSE
No 74635
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

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GAI CONSULTANTS
12574 Flagler Center Blvd., Suite 202
JACKSONVILLE, FL 32258
MATTHEW BOLYARD, P.E. NO. 74635

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.0 04, F.A.C.

GENERAL PROJECT INFORMATION

GENERAL	
City Development Number	
Concurrency Application Number	
Property Appraiser Number (RE #)	
Zoning Designation	
Zoning Application(s) (if any)	
PUD Ordinance Number	
FIRM – Community – Panel	
Flood Zones (Show in Plans)	
Base Flood Elev. (Show in Plans)	
Vertical Datum Used for Project	
JEA Availability Number	
SUBDIVISION	
PSD Number	
City or Private Inspection	
Public or Private Roads	
Subdivision (“911”) Disk Provided?	
NON-SUBDIVISION	
North American Industry Classification System (NAICS)	
Impervious Area (Sq. Ft.)	

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904-363-1110
EB9951

NO.	BY	DATE	REVISIONS
6.			
5.			
4.			
3.			
2.			
1.			

DESIGN ENGINEER: MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO. 74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

JEA Building Community sm

COVER SHEET

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 1
DRAWING NO. C-1

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SURVEY AND LOCATE DATA:

NOT APPLICABLE	APPLICABLE		
☒	☐	1.	ALL ELEVATIONS ARE BASED ON U.S.C.&G.S. DATUM AND SHOWN IN FEET.
☒	☐	2.	ELEVATIONS ARE BASED ON N.G.V.D. 1929.
☐	☒	3.	LOCATION OF EXISTING UTILITIES OBTAINED BY SOFT DIG LOCATES WHERE SHOWN ON PLANS, OR INCLUDED WITH BID SPECS.
☐	☒	4.	EXISTING WATER AND SEWER LINES ARE SHOWN AS PER FIELD LOCATES AND SUBDIVISION AS-BUILT PLANS.
☒	☐	5.	UNDERGROUND UTILITIES WERE LOCATED UTILIZING GROUND PENETRATING RADAR (GPR) AND A DIGITAL LOCATOR. CONTRACTOR SHALL BE AWARE THAT IN SOME CASES UTILITIES HAVE BEEN LOCATED, AND SURVEY HAS BEEN COMPLETED ONLY ON ONE SIDE OF THE ROAD.
☐	☒	6.	ALL PIPE LENGTHS SHOWN ON PLAN AND PROFILES ARE FROM CENTER TO CENTER OF MANHOLES, CATCH BASINS, INLETS ETC. OR ALONG THE CENTER LINE OF FORCE MAINS AND WATER MAINS.
☐	☒	7.	INVERT ELEVATIONS SHOWN ON DRAWINGS REFER TO THE CENTERLINE OF MANHOLES, UNLESS OTHERWISE INDICATED.
☐	☒	8.	THE LOCATION OF ALL EXISTING SEWER AND WATER SERVICE LINES MAY NOT BE INDICATED ON THESE PLANS. THE LOCATION OF NEW SERVICES SHALL BE VERIFIED IN THE FIELD.
☐	☒	9.	BENCHMARK DATA: SEE ROADWAY PLANS NAVD 1988

PERMIT REQUIREMENTS (NOT ALL INCLUSIVE):

☐	☒	1.	CONTRACTOR TO OBTAIN ALL REQUIRED RIGHT-OF-WAY PERMITS.
☐	☒	2.	CONTRACTOR SHALL NOT OPEN CUT STREETS IN THE PROJECT AREA UNLESS SPECIFICALLY SHOWN ON PLANS
☐	☒	3.	THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CONSUMPTIVE USE PERMIT (C.U.P.) THROUGH THE ST. JOHNS WATER MANAGEMENT DISTRICT SHOULD DEWATERING ACTIVITIES BE REQUIRED.
☐	☒	4.	THE DEPARTMENT OF TRANSPORTATION, RAILROAD COMPANIES AND C.O.J. ARE TO BE NOTIFIED IN ADVANCE OF CONSTRUCTION PER THEIR RESPECTIVE PERMIT CONDITIONS.
☐	☒	5.	ALL WORK SHALL BE IN ACCORDANCE WITH BID DOCUMENTS, JEA WATER AND SEWER STANDARDS, DETAILS AND MATERIALS MANUAL (REVISED JANUARY 1, 2021), AND CITY OF JACKSONVILLE STANDARD SPECIFICATIONS AND DETAILS AND ALL APPLICABLE STATE AND LOCAL REGULATIONS.
☐	☒	6.	IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF THE PERMITTING AGENCY, DUCTILE IRON PIPE, FITTINGS AND SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED.
☐	☒	7.	THE CONTRACTOR SHALL NOTIFY APPLICABLE UTILITY CONTACT PERSONNEL NOT LESS THAN ONE WEEK PRIOR TO CONSTRUCTION OF FACILITIES IN THEIR RESPECTIVE AREAS.
☐	☒	8.	TREE PROTECTION SHALL BE IN ACCORDANCE WITH JACKSONVILLE ORDINANCE CODE 656 AND/OR AS DETAILED ON SPECIFIC PLAN SHEETS. NO TRIMMING OF OVERHANGING TREE LIMBS WILL BE ALLOWED. USE SMALLER EQUIPMENT IF NECESSARY.
☐	☒	9.	THE CONTRACTOR SHALL LOCATE THE DRAINAGE INLET STRUCTURES IN THE PROJECT AREA AND ERECT SEDIMENTATION CONTROL DEVICES AS NECESSARY PER THE CITY OF JACKSONVILLE STORMWATER POLLUTION PREVENTION PLAN.
☐	☒	10.	CONTRACTOR TO COORDINATE WORK WITH OTHER UTILITIES DURING CONSTRUCTION.

INSTALLATION NOTES:

NOT APPLICABLE	APPLICABLE		
☒	☐	1.	CONTRACTOR TO REHABILITATE ALL MANHOLES ON PIPE BURST SEWERS VIA COATING/LINING PER JEA SPECIFICATION 446-2, UNLESS OTHERWISE NOTED ON THE PLANS.
☐	☒	2.	CONTRACTOR TO RENEW, REHABILITATE, REPLACE OR REINSTALL AS APPLICABLE ALL SERVICE LATERALS TO R.O.W. LINE.
☒	☐	3.	CONTRACTOR TO INSTALL SEWER SERVICE PIPING A MINIMUM OF 60 INCHES BELOW GRADE. WHERE NEW SANITARY SEWER MAIN IS LESS THAN 5 FEET DEEP, THE SEWER SERVICE PIPE SHALL BE INSTALLED AS DEEP AS POSSIBLE.
☐	☒	4.	WHEN THE DISTANCE BETWEEN A POWER POLE AND THE TRENCH IS LESS THAN THE TRENCH DEPTH, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH JEA ELECTRICAL PERSONNEL TO SECURE POWER POLES. THE CONTACTS FOR JEA ARE AS FOLLOWS: NORTHSIDE–EAST of US-1 MIKE CORBITT @ 665-7991 (mobile 662-0635) NORTHSIDE–WEST of US-1 ANDY YEAGER @ 665-7998 (mobile 662-0622) NORTHSIDE–BACKUP ALAN AINSLEY @ 665-7303 (mobile 662-6557) SOUTHSIDE–SOUTH of BEACH BLVD. TOM KERNS @ 665-6847 (mobile 860-1687) SOUTHSIDE–NORTH of BEACH BLVD. DERYL BASFORD @ 665-6855 (mobile 662-0616) SOUTHSIDE–BACKUP EDDIE GALES @ 665-8855 (mobile 662-0616) A MINIMUM OF TWO (2) WORKING DAYS NOTICE IS REQUIRED FOR AN OUTSIDE MEETING WITH JEA ELECTRICAL TO DISCUSS THE REQUIRED WORK. ADDITIONAL TIME WILL BE REQUIRED BY JEA ELECTRICAL FOR ANY REQUIRED WORK TO BE ACCOMPLISHED.
☒	☐	5.	ALL NEW STORM DRAIN PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.
☐	☒	6.	THE DESIGN FOR THE PROJECT IS BASED UPON THE "OPEN-CUT" METHOD OF CONSTRUCTION. IF USING ALTERNATIVE MEANS OR METHODS, THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE STANDARDS FOR THAT MEANS OR METHOD.
☐	☒	7.	THE CONTRACTOR SHALL MINIMIZE SERVICE INTERRUPTIONS AT SERVICE CONNECTIONS. THE MEANS AND METHODS SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. NO EXISTING ACTIVE SERVICE SHALL BE LEFT INTERRUPTED AT THE END OF THE WORK DAY.
☐	☒	8.	CONTRACTOR SHALL PROVIDE ADDITIONAL CORPORATION STOPS FOR FILLING AND DRAINING PURPOSES DURING CONSTRUCTION AS NEEDED. CORPORATION STOPS ARE TO BE PLUGGED AND LEFT IN PLACE. INDICATE CORPORATION STOP LOCATIONS ON RECORD DRAWINGS (AS-BUILTS).
☐	☒	9.	WATER AND SEWER SERVICES SHALL BE TRANSFERRED TO THE NEW MAIN UPON COMPLETION AND F.D.E.P./J.E.A. CERTIFICATION, AND PRIOR TO THE EXISTING MAINS BEING ABANDONED.
☐	☒	10.	IF EXISTING VALVES ARE IN UNPAVED AREAS AND ARE TO BE TAKEN OUT OF SERVICE, THEY SHALL BE CLOSED AND THE VALVE BOX AND COVER SHALL BE REMOVED. IF THE VALVES ARE UNDER PAVED AREAS, THEY SHALL BE CLOSED, THE VALVE BOX GROUT FILLED AND THE COVER REMOVED.
☐	☒	11.	CONTRACTOR SHALL REPLACE EXISTING WATER METER BOXES WHEN DEEMED NECESSARY BY THE JEA INSPECTOR.
☐	☒	12.	CONTRACTOR TO PROVIDE ADDITIONAL DEPTH OF BURY VIA PIPE JOINT DEFLECTION TO ACCOMMODATE VALVE SELECTION PER JEA STANDARDS.
☐	☒	13.	WATER METERS MAY REQUIRE RELOCATION FOR CONSTRUCTION, CONTRACTOR SHALL CONTACT JEA METER DEPARTMENT AND RELOCATE WATER METERS AS NECESSARY.
☐	☒	14.	PRIOR TO COMMENCING ANY EXCAVATION OR GRADING, THE CONTRACTOR SHALL OBTAIN ALL GEOTECHNICAL AND TOPOGRAPHIC SURVEY DATA AND LOCATIONS OF ABOVE GROUND AND UNDERGROUND UTILITIES. SHOULD THE CONTRACTOR DISCOVER ANY INACCURACIES, ERRORS OR OMISSIONS IN THE SURVEY DATA, HE SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER IN ORDER THAT PROPER ADJUSTMENTS CAN BE ANTICIPATED AND ORDERED.
☒	☐	15.	SHEET PILING WILL BE REQUIRED ON ALL EXCAVATIONS DEEPER THAN 16 FEET.
☒	☐	16.	PRIOR TO REMOVING A SAN. SEWER CONNECTION, THE CONTRACTOR SHALL CONFIRM IF THE EX. SERVICE IS UNACTIVE. IF THE SERVICE IS ACTIVE, THE CONTRACTOR SHALL REPLACE THE EX. SERVICE AND ROUTE IT TO THE PROPOSEDSAN. SEWER TRUNK LINE.
☐	☒	17.	PRIOR TO SUMBITTING MANHOLE SHOP DRAWINGS, THE CONTRACTOR SHALL VERIFY ALL EXISTING INVERTS THAT WILL REMAIN.
☒	☐	18.	ELECTRICAL MANHOLE DIMENSIONS NOTED IN THE DRAWINGS ARE INSIDE DIMENSTIONS ONLY.

UTILITY CONTACTS:

A.	AT&T ~ COMM/F.O. ~ PK PATEL	(904) 699-4976
B.	COMCAST CABLE COMMUNICATIONS INC. ~ CABLE TV ~ JAMES GRAHAM	(904) 509-6472
C.	JEA ~ WATER AND SEWER ~ MICKHAEL SULAYMAN	(904) 665-8713
D.	FPL ~ ELECTRIC DISTRIBUTION ~ JOSH KEOWN	(904) 225-3031
E.	FPL ~ ELECTRIC TRANSMISSION ~ BEAU BENTLEY	(808) 835-5982
F.	FLORIDA PUBLIC UTILITIES ~ GAS ~ JOHN BURKE	(813) 275-3783
G.	SUNSHINE ONE CALL	811

INDEX OF DRAWINGS:

SHEET NUMBER	DRAWING NUMBER	SHEET TITLE
1	C-1	COVER SHEET
2-3	GN-1 THRU GN-2	GENERAL NOTES
4	TYP-1	TYPICAL SECTIONS
5-28	WM-1 THRU WM-24	WATER AND SEWER PLAN/PROFILE
29	DET-1	WATER MAIN CROSSING PROFILES
30	DET-2	FORCE MAIN AND RECLAIM WATER MAIN PROFILE
31-32	R-1 THRU R-2	ROADWAY RECONSTRUCTION PLAN
33-43	DET-3 THRU DET-13	JEA WATER AND FORCE MAIN DETAILS

LEGEND

UTILITY NAME	EXISTING SYMBOL	PROPOSED SYMBOL
OVERHEAD ELECTRIC	OE	OE OE OE OE OE
UNDERGROUND ELECTRIC	BE(C)	BE BE BE BE BE
UNDERGROUND TELEPHONE	BT(C)	BT BT BT BT BT
OVERHEAD TELEPHONE	OT	OT OT OT OT OT
GAS MAIN	G(C)	G G G G G G G G G
UNDERGROUND CABLE TELEVISION	BTV(C)	BTV BTV BTV BTV
OVERHEAD CABLE TELEVISION	OTV	OTV OTV OTV OTV
UNDERGROUND FIBER OPTIC LINE	BFOC(C)	BFOC BFOC BFOC
OVERHEAD FIBER OPTIC LINE	OFOC	OFOC OFOC OFOC
LIGHTING CONDUIT (OPEN TRENCH)		
LIGHTING CONDUIT (DIRECTIONAL BORE)		
LIGHTING PULLBOX		H
LIGHT POLE		
SHARED POLE		
SHARED POLE WITH TRANFORMER		
UTILITY PULLBOX		
TELEPHONE SERVICE BOX		
CATV SERVICE BOX		
TREES		
TREES TO BE REMOVED		
DUMPSTER		
GAS VALVE		
WATER MAIN PLACE OUT OF SERVICE		
WATER MAIN	W(C)	
FIRE HYDRANT		
WATER METER BOX	WATER	WATER
GATE VALVE		
PLUG		
SLEEVE		
CAP OR SEAL		
COUPLING		
(2) 45° BENDS (VERTICAL CROSSING)		
45° BEND		
22.50° BEND		
11.25° BEND		
TEE		
90° BEND		
TEMPORARY SAMPLE TAP		
VVH TEST HOLE		
SANITARY FM	S(C)	

EXISTING SUBSURFACE LOCATE QUALITY LEVEL

(A) "LOCATED" BY SUBSURFACE ENGINEERING SERVICES FOR TYPE, SIZE, CONDITION, & MATERIAL OF UTILITIES.

(B) "DESIGNATED" BY SUBSURFACE ENGINEERING SERVICES FOR EXISTENCE AND HORIZONTAL POSITION OF UTILITIES.

(C) UTILIZING UTILITY RECORDS AND SURVEYED ABOVE GROUND UTILITY MANHOLES, BOXES, VALVE COVERS, ETC. TO ASSUME LOCATION OF UTILITIES.

(D) UTILIZING UTILITY RECORDS OR VERBAL RECOLLECTIONS TO LOCATE POSITION OF UTILITIES.

ABBREVIATIONS

BL = BASELINE
D.I. = DUCTILE IRON
CONC. = CONCRETE
CONST. = CONSTRUCTION
EXIST. = EXISTING
FL = FLOWLINE
HORIZ. = HORIZONTAL
IE = INVERT ELEVATION
MIN. = MINIMUM
M.J. = MECHANICAL JOINT
REST. = RESTRAINED FITTING
R/W = RIGHT OF WAY
SR = STATE ROAD
VERT. = VERTICAL
VVH = VERIFIED VERTICAL ELEVATION AND HORIZONTAL LOCATION
WM = WATER MAIN

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12574 Flagler Center Blvd., Suite 202
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904-363-1110
E89951

NO.	BY	DATE	REVISIONS
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5			
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3			
2			
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DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

DESIGN ENGINEER: MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO. 74635

JEA Building Community.com

GENERAL NOTES 1

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 2
DRAWING NO. GN-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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JEA UTILITY CONSTRUCTION NOTES:

1. ALL WATER, RECLAIMED WATER, AND SANITARY WASTEWATER WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST JEA WATER AND WASTEWATER STANDARDS MANUAL, ALL APPLICABLE LOCAL AND STATE REGULATORY RULES & REGULATIONS AND OTHER APPLICABLE JEA RULES.
2. ALL WATER, RECLAIMED WATER, AND WASTEWATER CONSTRUCTION SHALL BE PROVIDED BY A CONTRACTOR QUALIFIED, AS REQUIRED UNDER THE CURRENT FLORIDA STATUTE, OR BY AN UNDERGROUND UTILITY CONTRACTOR, LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FS.
3. THE APPLICANT SHALL BE RESPONSIBLE FOR OBTAINING CITY OR COUNTY RIGHT-OF- WAY PERMITS FOR WORK IN THE CITY R/W, COUNTY R/W OR A FDOT PERMIT FOR WORK IN THE FDOT R/W.
4. THE APPLICANT SHALL CONTACT THE JEA, AND SCHEDULE A PRE-CONSTRUCTION MEETING, TO BE HELD PRIOR TO INITIATING THE JEA WATER AND WASTEWATER UTILITY WORK, INCLUDING ALL UTILITY MAIN TAPS BY THE CONTRACTOR.
5. JEA WATER AND WASTEWATER TAP FEES, JEA WATER AND SEWER CAPACITY FEES, AND JEA METER FEES SHALL BE PAID PRIOR TO THE WATER METER INSTALLATION. WATER METERS WILL NOT BE INSTALLED PRIOR TO THE ISSUANCE OF REQUIRED ACCEPTANCE (TRANSFER OF OWNERSHIP) DOCUMENTS, WHICH MAY INCLUDE THE ISSUANCE OF A REGULATORY CLEARANCE LETTER (COC) FOR THE WATER AND WASTEWATER IMPROVEMENTS, COMPLETION, AND APPROVAL OF FINAL INSPECTION AND APPROVED AS-BUILT DRAWINGS.
6. FINAL CONNECTION TO THE JEA SYSTEM MAY BE CONTINGENT UPON THE CONSTRUCTION, DEDICATION, AND FINAL ACCEPTANCE (TRANSFER OF OWNERSHIP/MAINTENANCE) OF THE JEA OFF-SITE UTILITIES.
7. THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION REQUIREMENTS FOR THE WATER, RECLAIMED WATER, AND WASTEWATER IMPROVEMENTS SHALL CONFORM TO THE LATEST JEA AND FDEP RULES. THE MINIMUM HORIZONTAL SEPARATION REQUIREMENTS BETWEEN THE PROPOSED WATER AND WASTEWATER UTILITIES AND PONDS OR STRUCTURES SHALL CONFORM TO THE LATEST JEA WATER AND WASTEWATER STANDARDS MANUAL.
8. WATER AND WASTEWATER PIPES LESS THAN 24-INCHES IN DIAMETER SHALL BE CONSTRUCTED WITH A MINIMUM 30-INCHES COVER IN UNPAVED OR SIDEWALK AREAS AND A MINIMUM OF 36-INCHES COVER IN PAVED AREAS. THE MAXIMUM COVER FOR UTILITIES, BOTH OPEN CUT AND UTILIZING HORIZONTAL DIRECTIONAL DRILL METHODS, SHALL COMPLY WITH THE LATEST JEA WATER AND WASTEWATER STANDARDS MANUAL.
9. WATER AND WASTEWATER PRESSURE MAINS AND SERVICES SHALL PASS A JEA PRESSURE AND LEAKAGE TEST AT 150-PSI MINIMUM, OR TWO TIMES OPERATING PRESSURE, FOR TWO HOURS. IN ADDITION, WATER MAINS SHALL BE DISINFECTED AND PASS A BACTERIOLOGICAL ANALYSIS. ALL TESTS SHALL CONFORM TO JEA AND FDEP RULES, REGULATIONS, AND AWWA C-651. THE JEA INSPECTOR SHALL BE NOTIFIED 72-HOURS (MIN) PRIOR TO PERFORMING THESE TESTS. NO FINAL CONNECTION(S) TO EXISTING POTABLE WATER MAINS SHALL BE MADE UNTIL THE NEW MAIN IS PRESSURE TESTED, DISINFECTED, AND CLEARED FOR SERVICE.
10. IN THE AREAS WHERE SOLVENT CONTAMINATION IS FOUND IN THE TRENCH, WORK SHALL BE STOPPED AND THE PROPER REGULATORY AUTHORITIES NOTIFIED, A REVISED CONSTRUCTION PLAN SHALL BE APPROVED BY JEA AND FDEP THAT COMPLIES WITH ALL REGULATORY RULES. THE REVISED CONSTRUCTION PLAN FOR THE JEA WATER MAIN SYSTEM, INCLUDING WATER SERVICE LINES, MAY INVOLVE GALVANIZED OR DUCTILE IRON PIPE WITH SPECIAL SOLVENT RESISTANT (FLUOROCARBON TYPE) GASKETS THAT EXTEND 100-FEET BEYOND THE CONTAMINATED AREAS.
11. THE CONTRACTOR SHALL MINIMIZE SERVICE INTERRUPTIONS TO EXISTING JEA WATER AND WASTEWATER CUSTOMERS. IF JEA APPROVES A SERVICE INTERRUPTION, THEN THE CONTRACTOR WILL BE RESPONSIBLE FOR NOTIFYING THE AFFECTED CUSTOMERS IN ACCORDANCE WITH THE LATEST JEA RULES.
12. RESIDENTIAL SERVICES USING RECLAIMED WATER FOR IRRIGATION MUST HAVE A JEA APPROVED BACKFLOW PREVENTER INSTALLED ON EACH POTABLE WATER SERVICE PRIOR TO THE INSTALLATION OF A JEA RECLAIMED WATER METER. THE INSTALLATION OF A BACKFLOW PREVENTER SHALL BE IN ACCORDANCE WITH THE JEA RULES AND REGULATIONS FOR WATER, SEWER, AND RECLAIMED WATER SERVICES, APPENDIX B, CROSS CONNECTION CONTROL POLICY.
13. FOR DEVELOPMENTS UTILIZING RECLAIMED WATER, A JEA APPROVED RECLAIMED WATER SIGNAGE PLAN SHALL BE IMPLEMENTED PRIOR TO THE INSTALLATION OF THE RECLAIMED WATER METERS.
14. ALL BACKFLOW PREVENTERS SHALL BE IN ACCORDANCE WITH JEA CROSS CONNECTION PROGRAM. BACKFLOW PREVENTERS MUST BE TESTED AFTER INSTALLATION BY A CERTIFIED TESTER AND ANNUALLY THEREAFTER. JEA CONTACT: PERMITTING 904-665-7988.
15. BACKFLOW PREVENTERS ON FIRE LINES OR COMBINATION FIRE/POTABLE MAINS SHALL HAVE FREEZE PROTECTION.
16. CONTRACTOR SHALL COORDINATE WITH WAYNE MCDOWELL (JEA WATER AND SEWER, (904) 219-3512) DURING CONSTRUCTION FOR CONNECTIONS TO EXISTING WATER MAINS, LINE SHUT DOWNS AND EXISTING VALVE LOCATIONS.
17. ALL EXCAVATION, BACKFILLING, AND COMPACTING AS PART OF THE WATER MAIN WORK SHOWN IN THESE PLANS SHALL NOT BE MADE FOR PAYMENT AND SHALL BE INCLUDED IN EACH ITEM OF WORK INSTALLED PER JEA STANDARDS, SECTION 801.
18. THIS PROJECT IS TO BE LET FOR CONSTRUCTION WITH THE NASSAU COUNTY JEA WILLIAM BURGESS ROADWAY EXTENSION PROJECT.
19. ANY UNSUITABLE SOILS AS DEFINED IN JEA STANDARD SPECIFICATIONS SECTION 408 SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. A-3 BACKFILL SHALL BE PLACED AND COMPACTED IN PLACE OF THE UNSUITABLE MATERIAL. MEASUREMENT AND PAYMENT FOR THIS WORK IS PER JEA STANDARD SPECIFICATIONS SECTION 801. A-3 BACKFILL SHALL BE MADE FOR PAYMENT AS SHOWN ON THE JEA BID FORM TABLE A: SCHEDULE OF VALUES.
20. ALL PROPOSED WATER AND SEWER INSTALLATIONS ARE TO BE WITHIN THE COUNTY ROADWAY LIMITS OF CLEARING AND GRUBBING. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY PROPOSED WATER AND SEWER INSTALLATIONS REQUIRE ADDITIONAL CLEARING AND GRUBBING.

EXISTING UTILITY PROTECTION:

1. IN ORDER TO REDUCE THE DISRUPTION AND COST OF UTILITY DAMAGES OCCURRING IN THE DUVAL COUNTY RIGHT-OF-WAY AND EASEMENTS, THE CONTRACTOR SHALL PREVENT DAMAGES TO EXISTING UTILITIES CAUSED BY HIS WORK THROUGH FIELD VERIFICATION OF THE LOCATION OF THE EXISTING UTILITIES. IN THE CASE OF OPEN EXCAVATION, VERIFICATION MAY BE PERFORMED DURING THE CONTRACTORS WORK. IN THE CASE OF DIRECTIONAL DRILLING, VERIFICATION SHALL TAKE PLACE PRIOR TO MOBILIZATION OF THE DRILLING EQUIPMENT.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES AS NEEDED TO AVOID CONTACT. EXISTING UTILITIES SHALL BE EXPOSED USING DETECTION EQUIPMENT OR OTHER ACCEPTABLE MEANS. SUCH METHODS MAY INCLUDE BUT SHALL NOT BE LIMITED TO "SOFT DIG" EQUIPMENT AND GROUND PENETRATING RADAR (GPR). THE EXCAVATOR SHALL BE HELD LIABLE FOR DAMAGES CAUSED TO THE CITY'S/JEA'S INFRASTRUCTURE AND THE EXISTING FACILITIES OF OTHER UTILITY COMPANIES.
3. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW GROUND SURFACE. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

RESTORATION NOTES:

1. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, TO REFERENCE AND RESTORE PROPERTY CORNERS AND LANDMARKS WHICH MAY BE DISTURBED BY CONSTRUCTION, KNOWN CORNER LOCATIONS ARE AVAILABLE FROM THE CITY OF JACKSONVILLE ENGINEERING DIVISION.
2. THE CONTRACTOR SHALL RESTORE/REPLACE ALL CULVERTS, HEADWALLS AND STORM DRAIN INLETS REMOVED OR DISTURBED BY THE CONSTRUCTION OPERATION.
3. TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION IN ACCORDANCE WITH CITY OF JACKSONVILLE/FDOT STANDARD SPECIFICATIONS LATEST EDITION.
4. GRASS SOD SHALL BE BERMUDA AND BE FURNISHED AND PLACED IN THE AREAS DISTURBED OR DAMAGED BY THE CONSTRUCTION OPERATION.
5. ALL PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH THE CITY OF JACKSONVILLE/FDOT STANDARD DETAILS AND SPECIFICATIONS LATEST EDITION.
6. CONTRACTOR MUST MAINTAIN AND PRESERVE NEWLY GRADED AREAS AND REPAIR AREAS WHERE SETTLING AND EROSION HAVE OCCURRED.

MAINTENANCE OF TRAFFIC NOTES:

1. CONTRACTOR SHALL FURNISH DETOUR AND CONSTRUCTION SIGNING (MOT) AS REQUIRED IN THE FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND 2022-23 STANDARD PLANS. ALL SIDEWALK AND DRAINAGE WORK SHALL BE COMPLETED USING FDOT INDEX 102-602 AND FDOT INDEX 102-604 FOR WORK IN INTERSECTION.
2. CONTRACTOR WILL ENSURE STREET CLOSURES HAVE EMERGENCY ACCESS, TO BE COORDINATED WITH CITY FIRE AND POLICE DEPARTMENT.
3. THE POSTED SPEED LIMIT AND TRAFFIC CONTROL SIGNING AND MARKING SHALL REMAIN THROUGHOUT THE CONSTRUCTION ZONE FOR EACH PHASE OF THE PROJECT.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING DROP-OFF CONDITIONS DURING WORKING AND NON-WORKING PERIODS AS SPECIFIED IN THE FDOT DESIGN STANDARDS INDEX 102-600 SERIES. THE CONTRACTOR WILL UTILIZE TEMPORARY BACK FILL, STEEL PLATING, TEMPORARY BARRIER WALL AND OTHER APPROVED METHODS DURING NON-WORK PERIODS. USE OF ANY PROTECTION METHOD WILL BE INCIDENTAL TO THE MAINTENANCE OF TRAFFIC ITEM.
5. ADVANCE WARNING SIGNS ON ALL SIDE STREETS ARE REQUIRED AND TO INCLUDE A "ROAD WORK AHEAD" SIGN, AND "END ROAD WORK" SIGN AS SPECIFIED IN THE FDOT STANDARD PLANS INDEX 102-600 SERIES.
6. THE ENGINEER SHALL BE NOTIFIED AND APPROVAL SHALL BE OBTAINED 48 HOURS IN ADVANCE OF ANY MOT. APPROVAL SHALL BE AS DEFINED UNDER FDOT SPECIFICATIONS.
7. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE, PROTECT AND AVOID DAMAGES TO ALL UTILITIES. ANY FAILURE TO DO SO AND ANY DAMAGE CAUSED TO UTILITIES WILL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
8. THE CONTRACTOR SHALL NOTIFY THE TRAFFIC ENGINEERING DIVISION MAIN OFFICE (255-7533), A MINIMUM OF 5 WORKING DAYS PRIOR TO IMPLEMENTATION OF THE MOT.
9. ANY CONSTRUCTION IN THE CITY RIGHT-OF-WAY WILL REQUIRE A RIGHT-OF-WAY PERMIT. THE CONTRACTOR IS RESPONSIBLE FOR CALLING 225-8366 FROM 7:30 A.M. TO 8:30 A.M. WHEN WORKING IN THE CITY RIGHT-OF-WAY.
10. THE PROPOSED 16" WATER MAIN INSTALLATION AT THE US-17 AND WILLIAM BURGESS INTERSECTION, AS WELL AS ALONG MINER RD., SHALL BE COMPLETED UTILIZING FDOT STANDARD PLANS INDEX 102-603 AND 102-604.
11. ALL OTHER WATER MAIN AND FORCE MAIN INSTALLATIONS TO BE COMPLETED USING MOT FROM THE NASSAU COUNTY WILLIAM BURGESS ROADWAY EXTENSION PROJECT BEING LET AS PART OF THIS PROJECT.

SUMMARY OF UTILITY ADJUSTMENTS

UTILITY TYPE	STATION	OFFSET	SIDE	UTILITY ADJUSTMENT
WATER	12+41.31	47.12'	LT.	REMOVE
WATER VALVE	12+82.84	50.49'	LT.	REMOVE
FIRE HYDRANT	12+82.95	53.75'	RT.	RELOCATE PER PLAN & PROFILE
WATER VALVE	12+87.40	47.12'	LT.	REMOVE
WATER VALVE	12+90.68	43.94'	LT.	REMOVE
GUY WIRE	204+07.25	25.18'	RT.	RELOCATE BY OTHERS
SPRAY FIELD REUSE	65+63.07	12.99'	RT.	ADJUST
SPRAY FIELD REUSE	65+75.17	42.67'	RT.	ADJUST
SANITARY SEWER VALVE	86+27.88	25.18'	RT.	ADJUST TOP
RECLAIMED WATER VALVE	86+35.86	16.68'	RT.	ADJUST TOP
RECLAIMED WATER VALVE	86+50.27	16.54'	RT.	ADJUST TOP
SANITARY SEWER MANHOLE	86+54.36	24.90'	RT.	ADJUST TOP
GAS VALVE	98+89.67	25.23'	LT.	ADJUST TOP
POWER POLE	102+74.69	38.43'	RT.	RELOCATE BY OTHERS
GUY WIRE	102+86.27	37.73'	RT.	RELOCATE BY OTHERS
RECLAIMED WATER VALVE	102+96.27	21.66'	RT.	ADJUST TOP
SANITARY SEWER CAP	305+26.40	44.36'	LT.	REMOVE
RECLAIMED WATER CAP	305+28.55	31.22'	LT.	REMOVE

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12574 Flagler Center Blvd., Suite 202
Jacksonville, Florida 32258
904-363-1116
EB9951

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNED BY: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

JEA Building Community.com

GENERAL NOTES 2

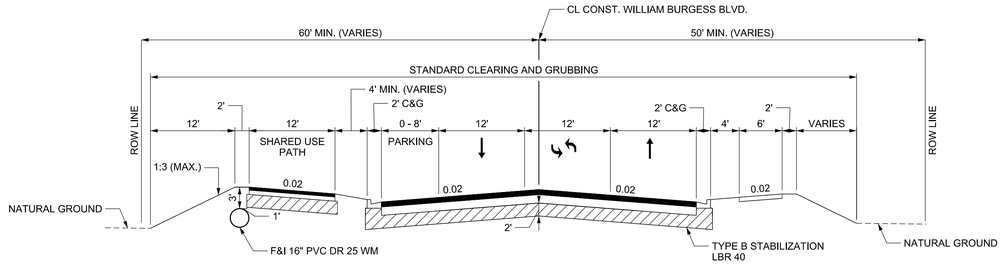
PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 3
DRAWING NO. GN-2

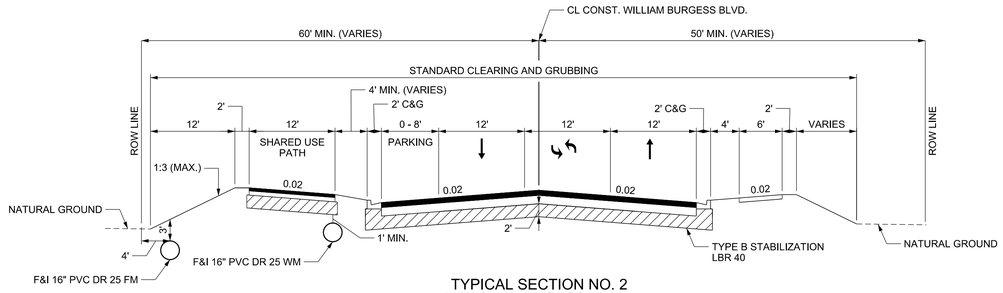
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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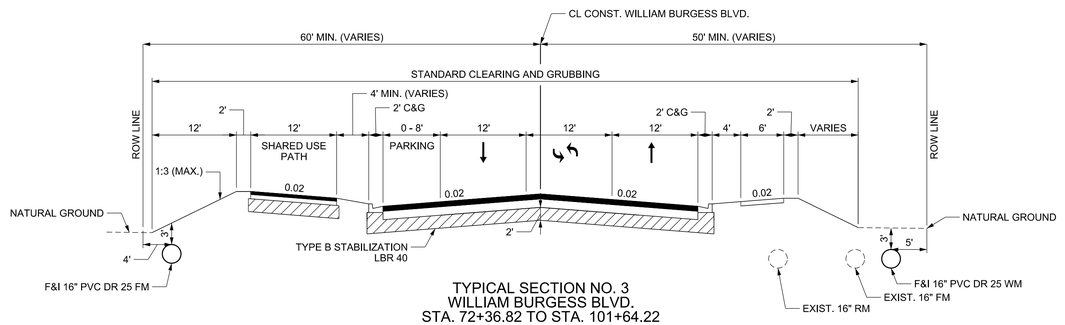
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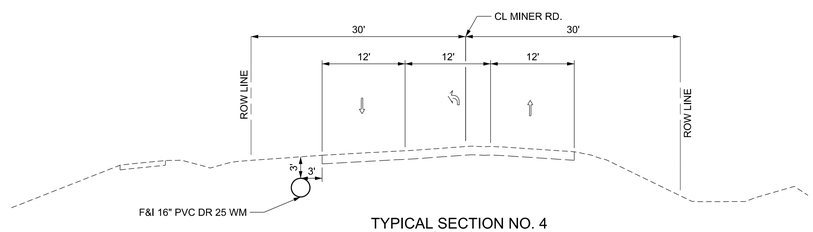
TYPICAL SECTION NO. 1
WILLIAM BURGESS BLVD.
STA. 12+10.00 TO STA. 66+00.00



TYPICAL SECTION NO. 2
WILLIAM BURGESS BLVD.
STA. 66+00.00 TO STA. 72+36.82



TYPICAL SECTION NO. 3
WILLIAM BURGESS BLVD.
STA. 72+36.82 TO STA. 101+64.22



TYPICAL SECTION NO. 4
MINER RD.
STA. 305+00.00 TO STA. 317+71.51

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EB9951

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

JEA
Building Community

TYPICAL SECTIONS

NO. SHEETS 43
SHEET NO. 4
DRAWING NO. TYP-1

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

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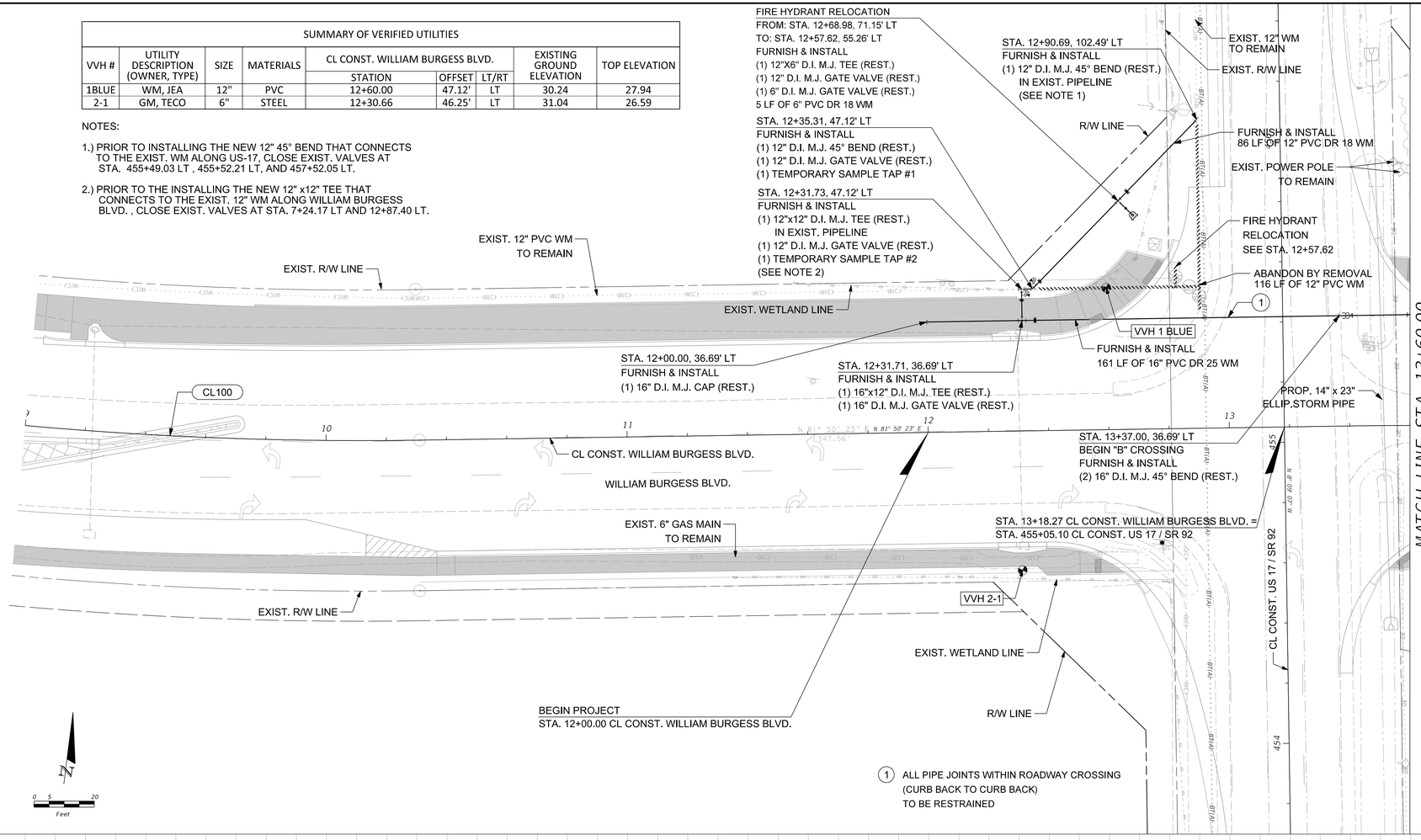
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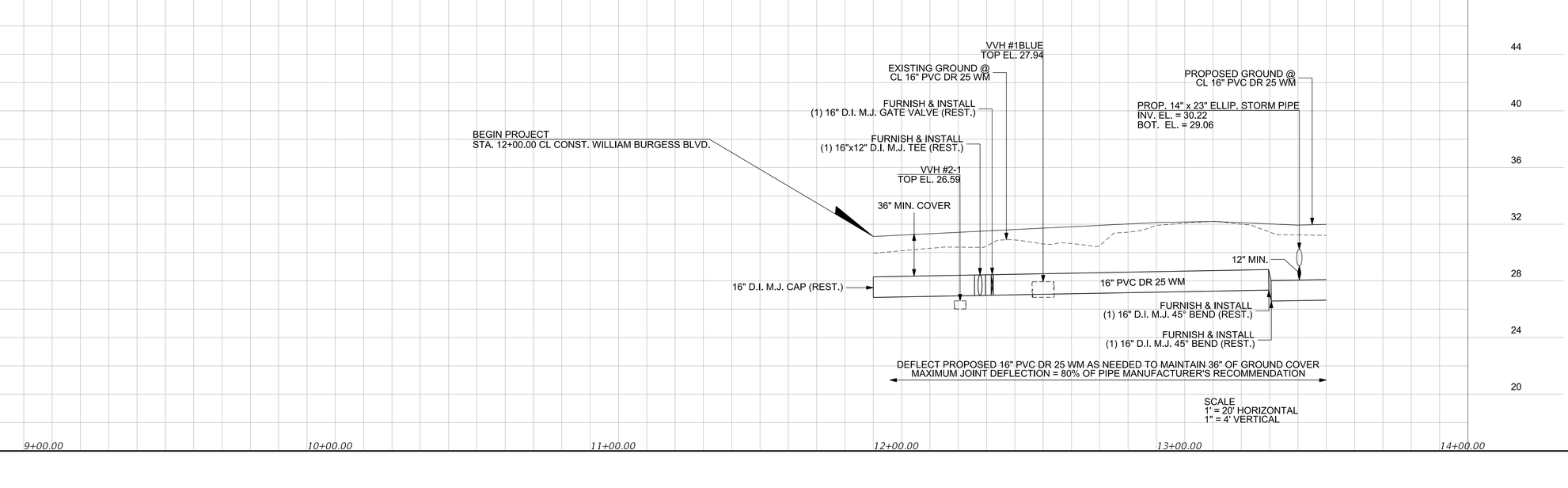
SUMMARY OF VERIFIED UTILITIES								
VVH #	UTILITY DESCRIPTION (OWNER, TYPE)	SIZE	MATERIALS	CL CONST. WILLIAM BURGESS BLVD.			EXISTING GROUND ELEVATION	TOP ELEVATION
				STATION	OFFSET	LT/RT		
1BLUE	WM, JEA	12"	PVC	12+60.00	47.12'	LT	30.24	27.94
2-1	GM, TECO	6"	STEEL	12+30.66	46.25'	LT	31.04	26.59

NOTES:

1.) PRIOR TO INSTALLING THE NEW 12" 45° BEND THAT CONNECTS TO THE EXIST. WM ALONG US-17, CLOSE EXIST. VALVES AT STA. 455+49.03 LT , 455+52.21 LT, AND 457+52.05 LT.

2.) PRIOR TO THE INSTALLING THE NEW 12" x12" TEE THAT CONNECTS TO THE EXIST. 12" WM ALONG WILLIAM BURGESS BLVD. , CLOSE EXIST. VALVES AT STA. 7+24.17 LT AND 12+87.40 LT.





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MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

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DATE: 10/24/2023

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WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

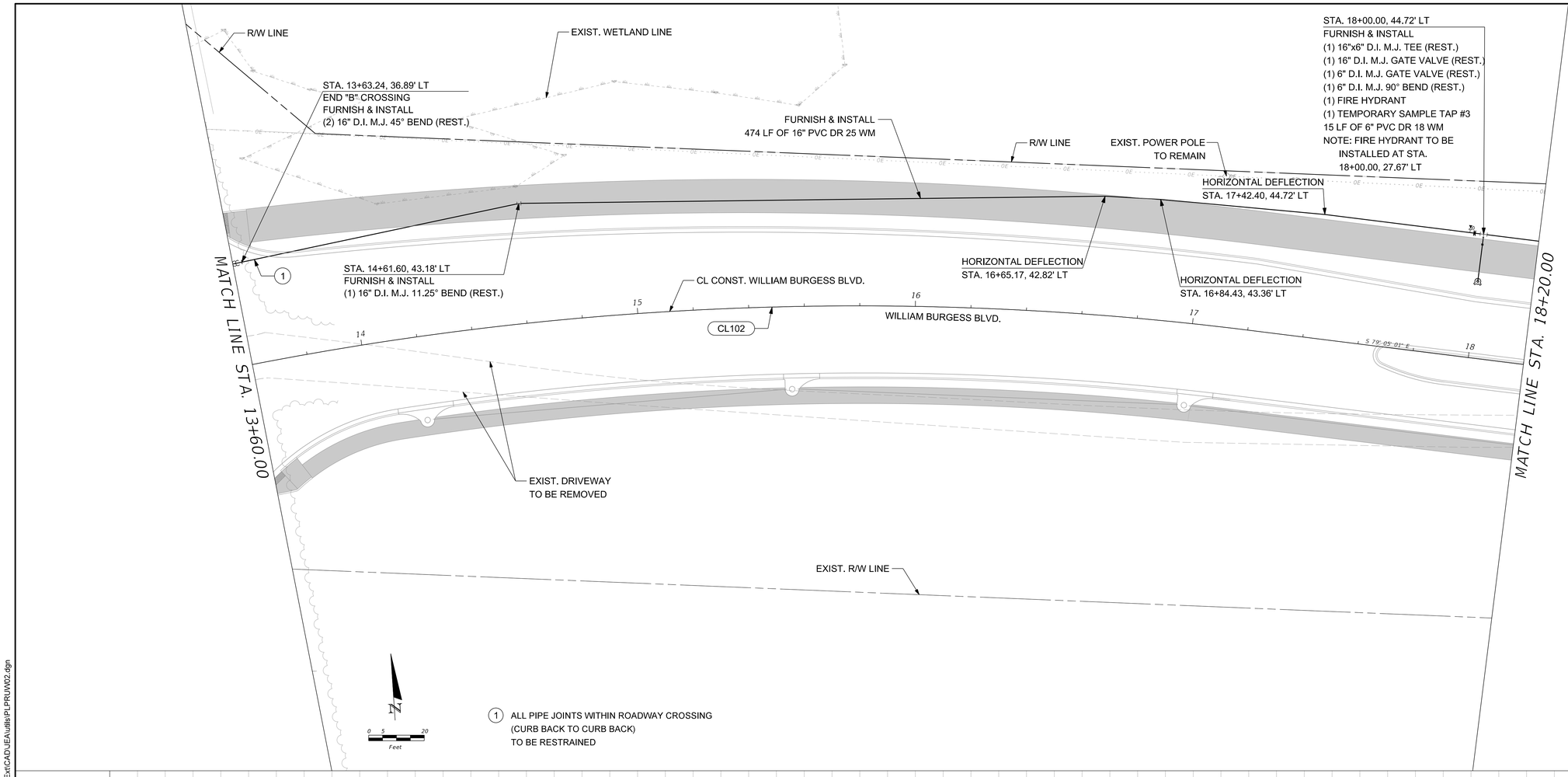
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SCALE: AS NOTED

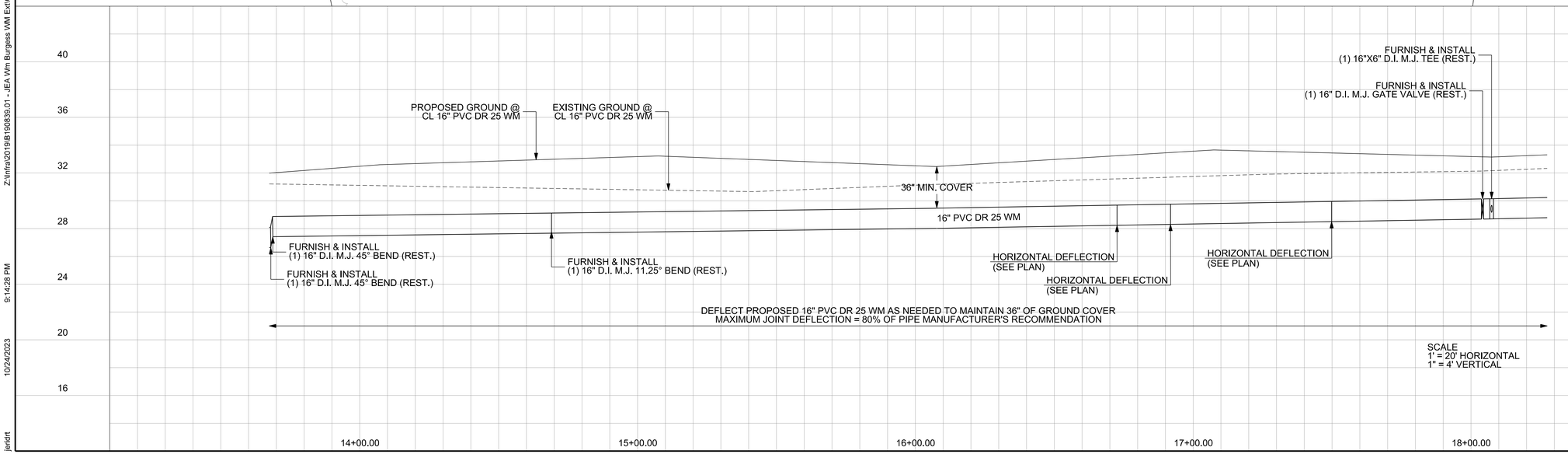
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SHEET NO. 5
DRAWING NO. WM-1

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WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

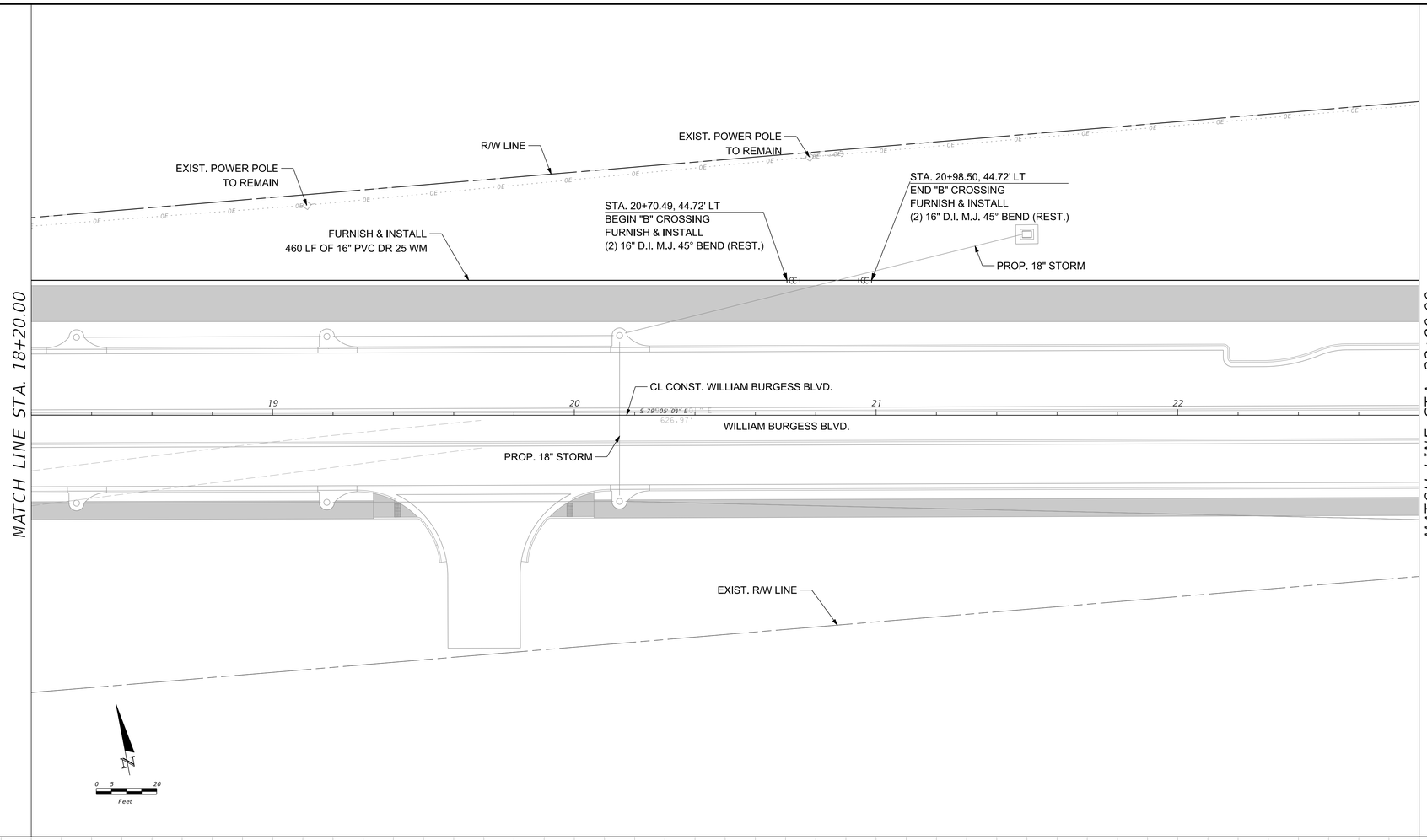
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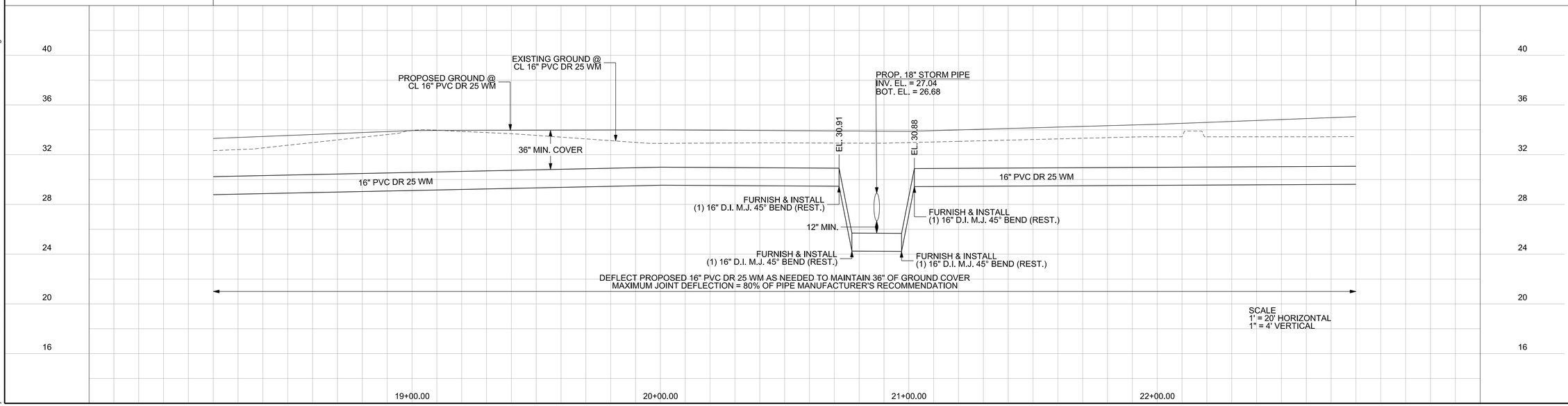
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SHEET NO. 6
DRAWING NO. WM-2

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WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

PROJ. NO.
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NO. SHEETS 43
SHEET NO. 7
DRAWING NO. WM-3

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EXIST. POWER POLE TO REMAIN

R/W LINE

EXIST. POWER POLE TO REMAIN

EXIST. 100' EASEMENT

R/W LINE

STA. 23+00.00, 44.72' LT
FURNISH & INSTALL
(1) 16"x6" D.I. M.J. TEE (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. 90° BEND (REST.)
(1) FIRE HYDRANT
16 LF OF 6" PVC DR 18 WM
NOTE: FIRE HYDRANT TO BE INSTALLED AT STA. 23+00.00, 29.19' LT

STA. 24+10.22, 47.79' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

STA. 25+43.25, 46.81' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

FURNISH & INSTALL
486 LF OF 16" PVC DR 25 WM

STA. 26+46.37, 43.54' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

MATCH LINE STA. 22+80.00

MATCH LINE STA. 27+40.00

EXIST. R/W LINE

CL CONST. WILLIAM BURGESS BLVD.

WILLIAM BURGESS BLVD.

CL103

S 79° 05' 01" E

EXIST. R/W LINE

N

0 5 20
Feet

FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

PROPOSED GROUND @
CL 16" PVC DR 25 WM

FURNISH & INSTALL
(1) 16" D.I. M.J. GATE VALVE (REST.)

FURNISH & INSTALL
(1) 16"X6" D.I. M.J. TEE (REST.)

EXISTING GROUND @
CL 16" PVC DR 25 WM

FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

36" MIN. COVER

16" PVC DR 25 WM

DEFLECT PROPOSED 16" PVC DR 25 WM AS NEEDED TO MAINTAIN 36" OF GROUND COVER
MAXIMUM JOINT DEFLECTION = 80% OF PIPE MANUFACTURER'S RECOMMENDATION

SCALE
1" = 20' HORIZONTAL
1" = 4' VERTICAL

40 36 32 28 24 20 16

23+00.00 24+00.00 25+00.00 26+00.00 27+00.00

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WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

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NO. SHEETS 43
SHEET NO. 8
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EXIST. PROPERTY LINE

EXIST. PROPERTY LINE

STA. 28+00.00, 37.41' LT
FURNISH & INSTALL
(1) 16"x6" D.I. M.J. TEE (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. 90° BEND (REST.)
(1) FIRE HYDRANT
9 LF OF 6" PVC DR 18 WM
NOTE: FIRE HYDRANT TO BE INSTALLED AT STA. 28+00.58, 29.41' LT

STA. 28+55.04, 44.21' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

FURNISH & INSTALL
493 LF OF 16" PVC DR 25 WM

HORIZONTAL DEFLECTION
STA. 29+54.95, 47.77' LT

STA. 30+65.34, 64.39' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

STA. 31+43.38, 71.08' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 22.50° BEND (REST.)

R/W LINE

MATCH LINE STA. 27+40.00

MATCH LINE STA. 32+00.00

CL CONST. WILLIAM BURGESS BLVD.

EXIST. R/W LINE

CL103

WILLIAM BURGESS BLVD.

S 12° 56' 13" E

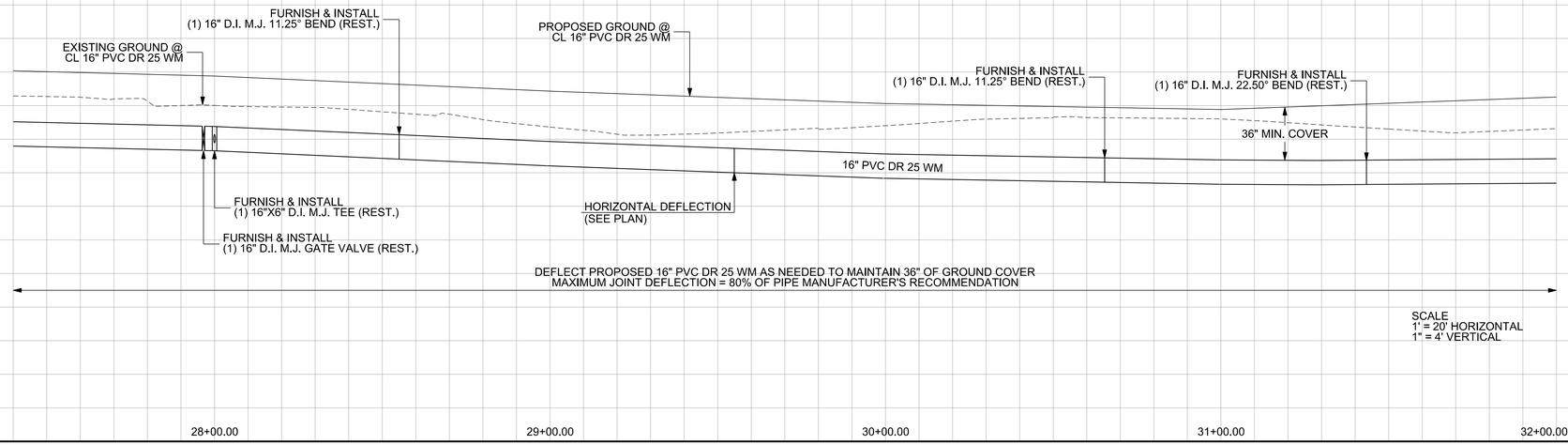
EXIST. R/W LINE

EXIST. 100' EASEMENT

EXIST. PROPERTY LINE

N

0 5 20
Feet



SCALE
1" = 20' HORIZONTAL
1" = 4' VERTICAL

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WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

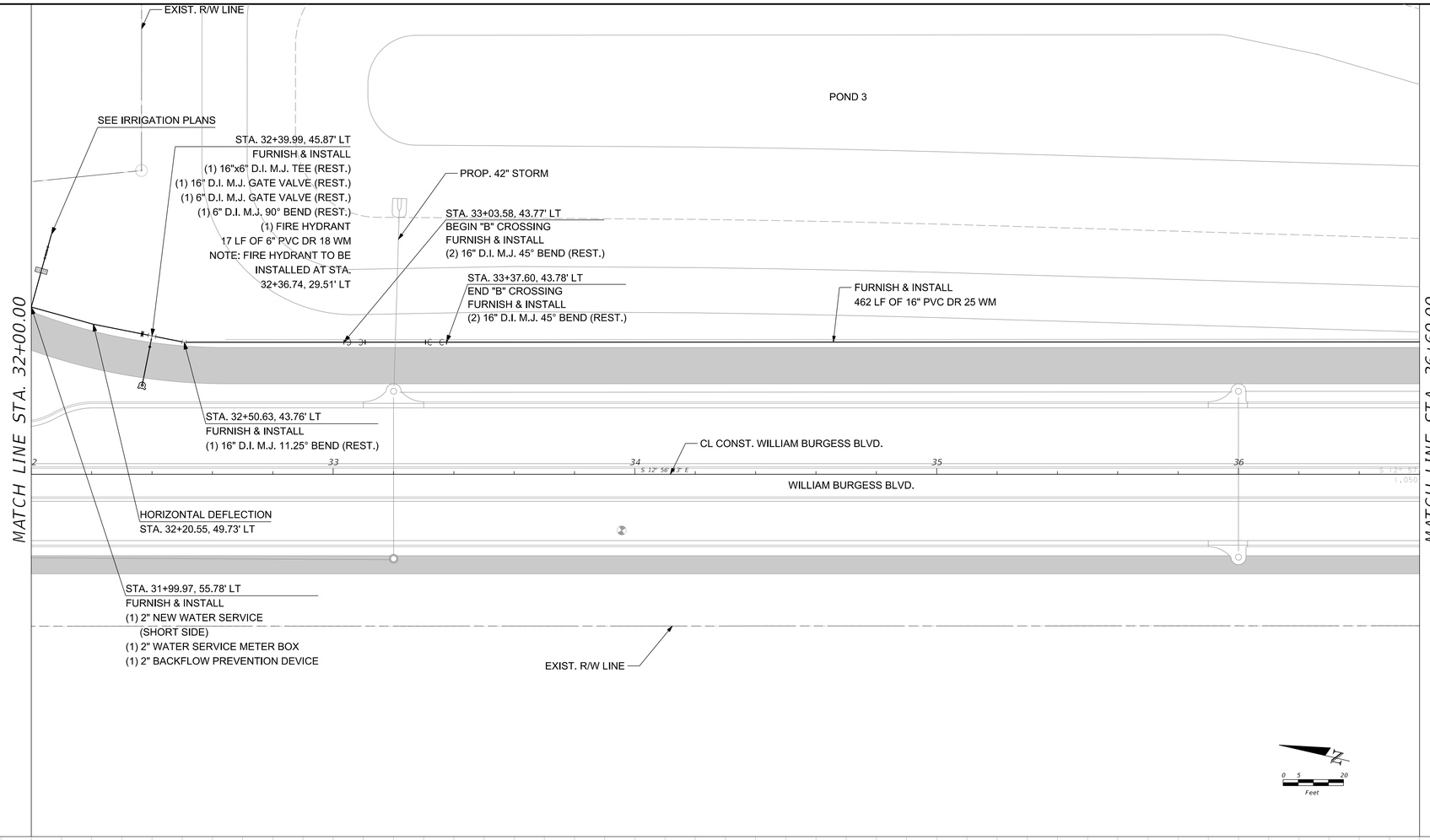
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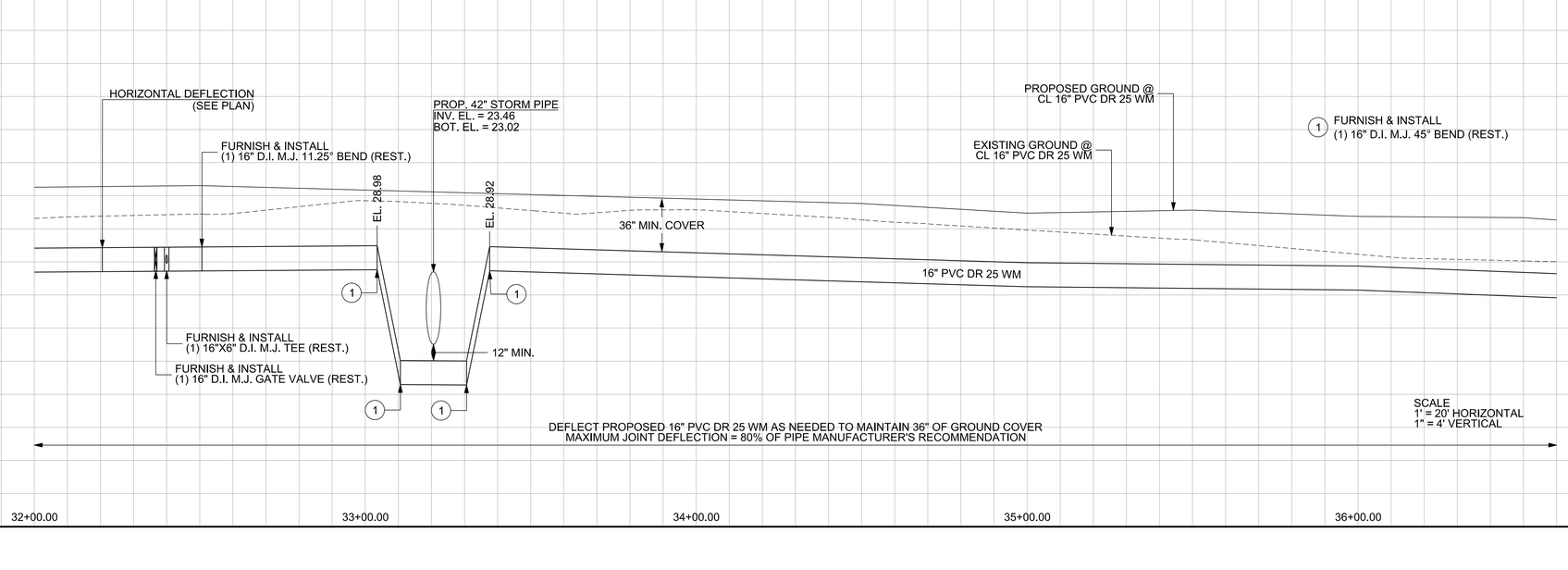
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DATE: 10/24/2023
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WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

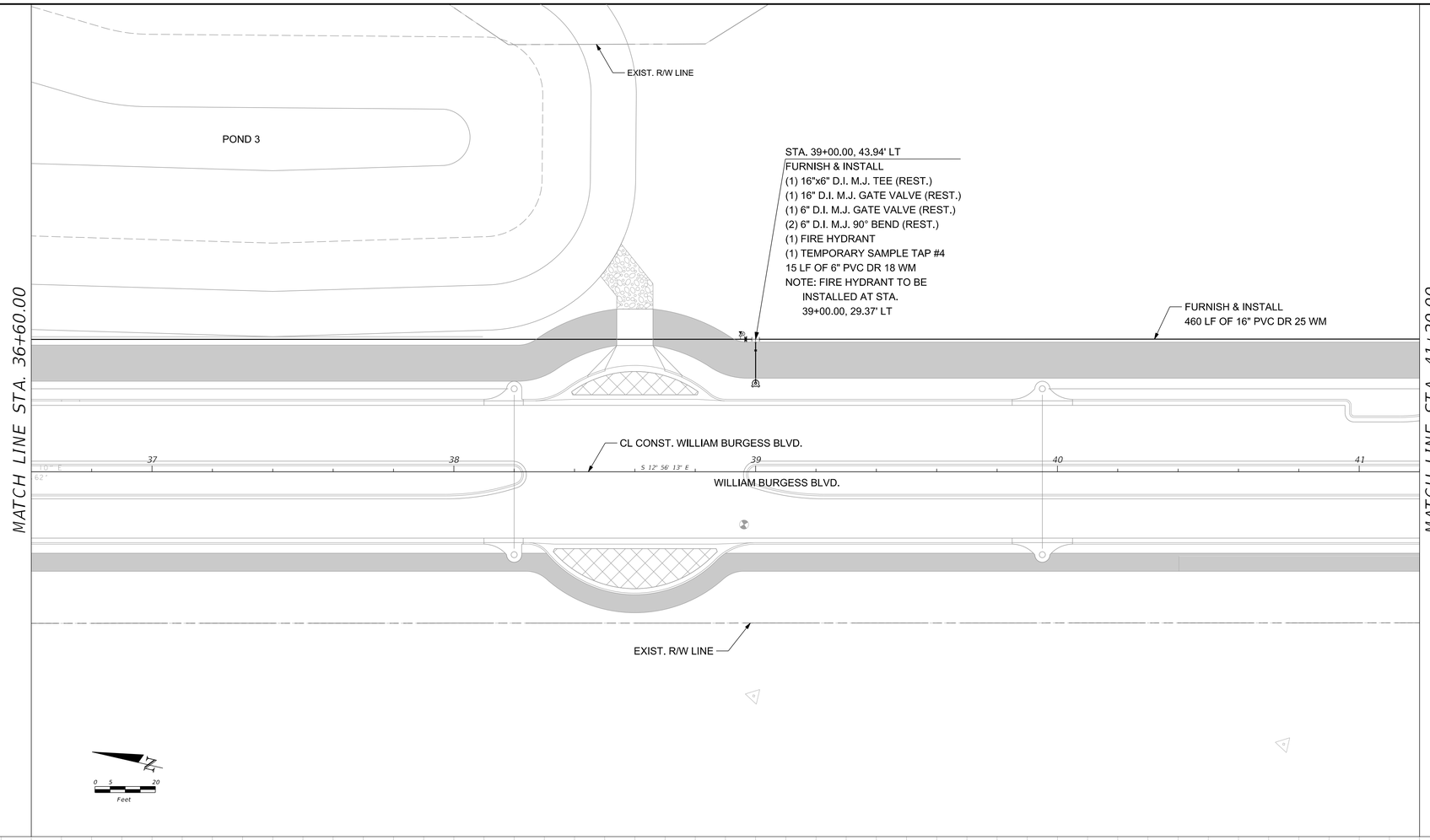
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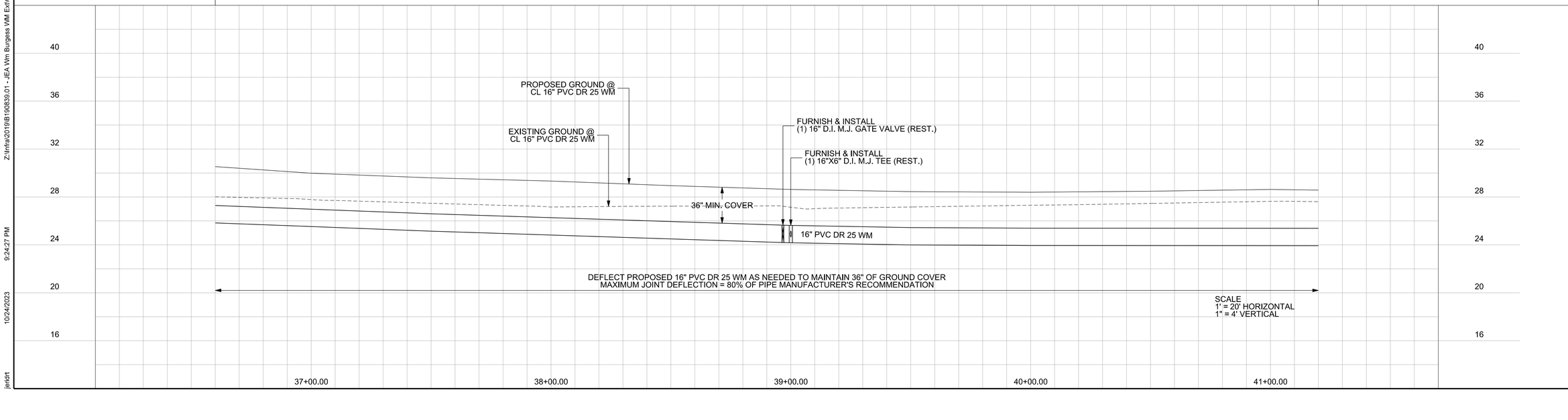
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FLORIDA REGISTRATION NO.
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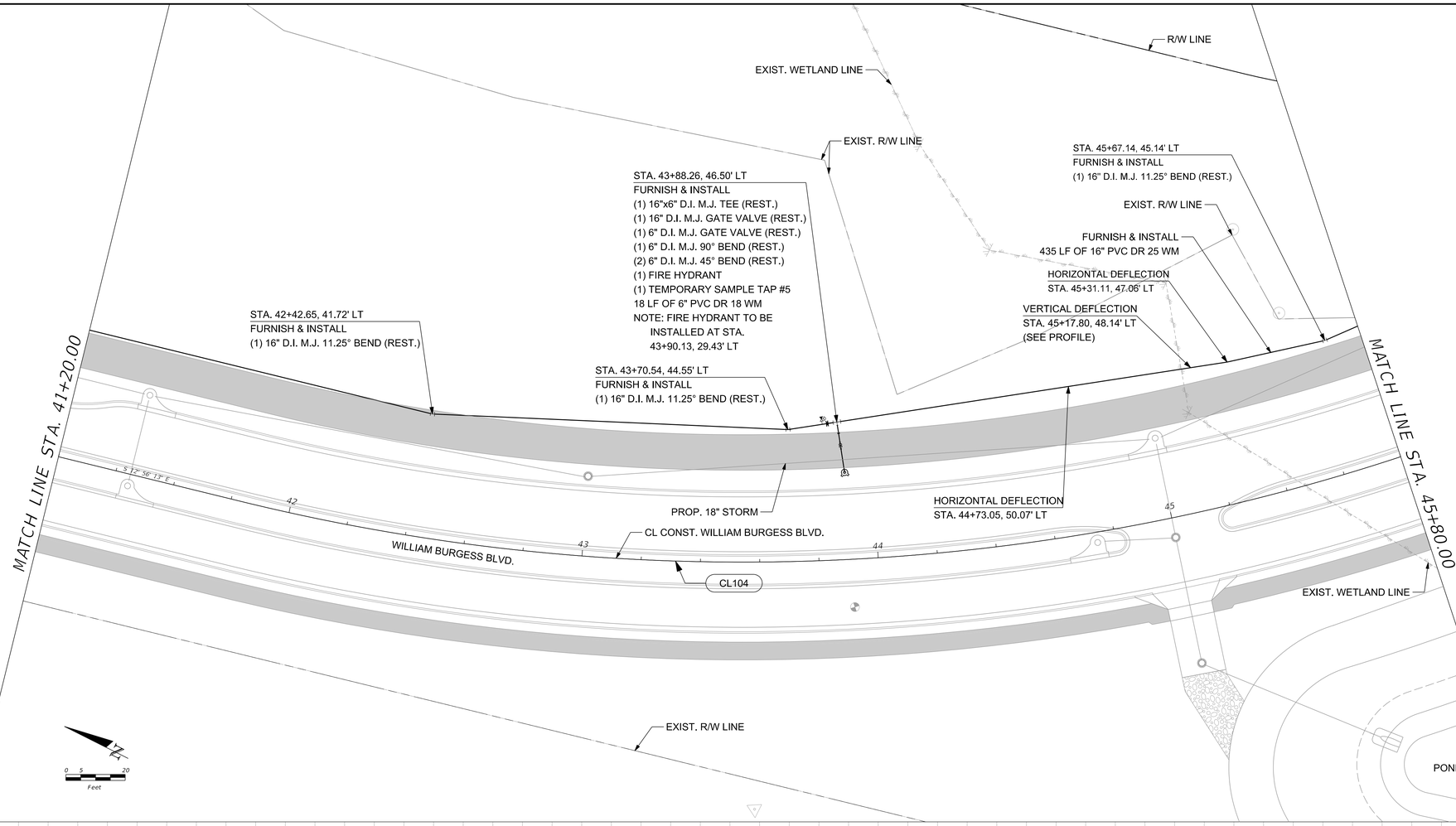
WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

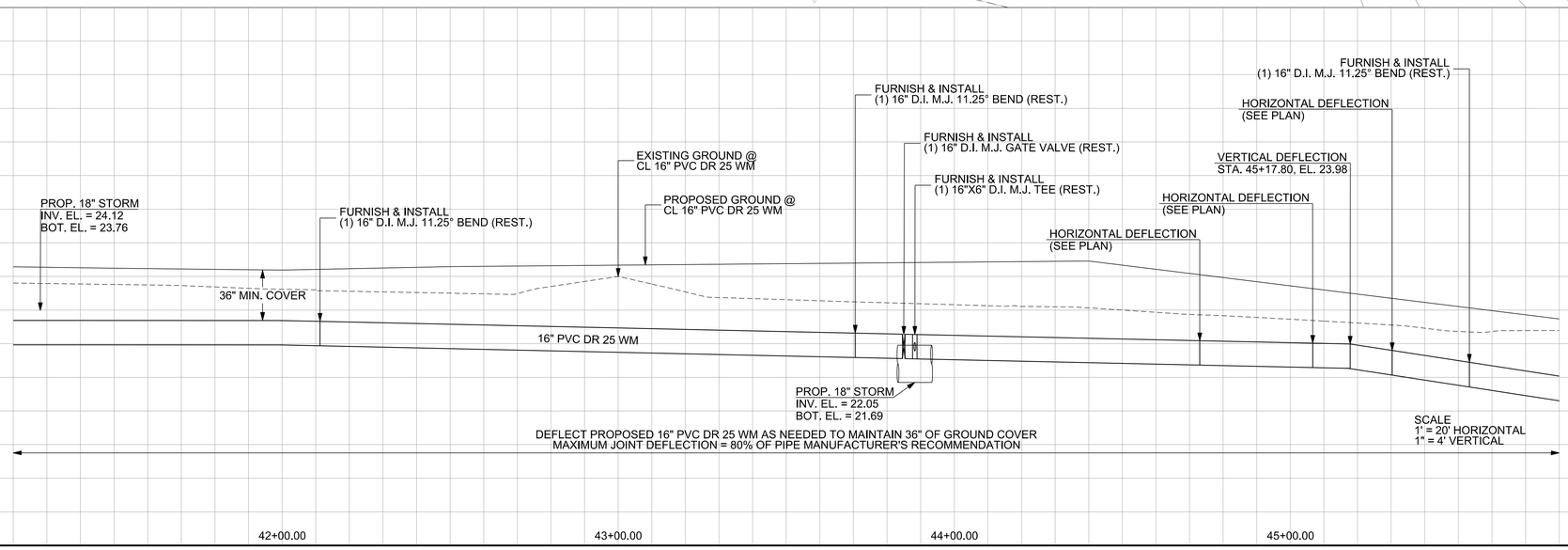
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DATE:	10/24/2023
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WATER AND SEWER PLAN/PROFILE
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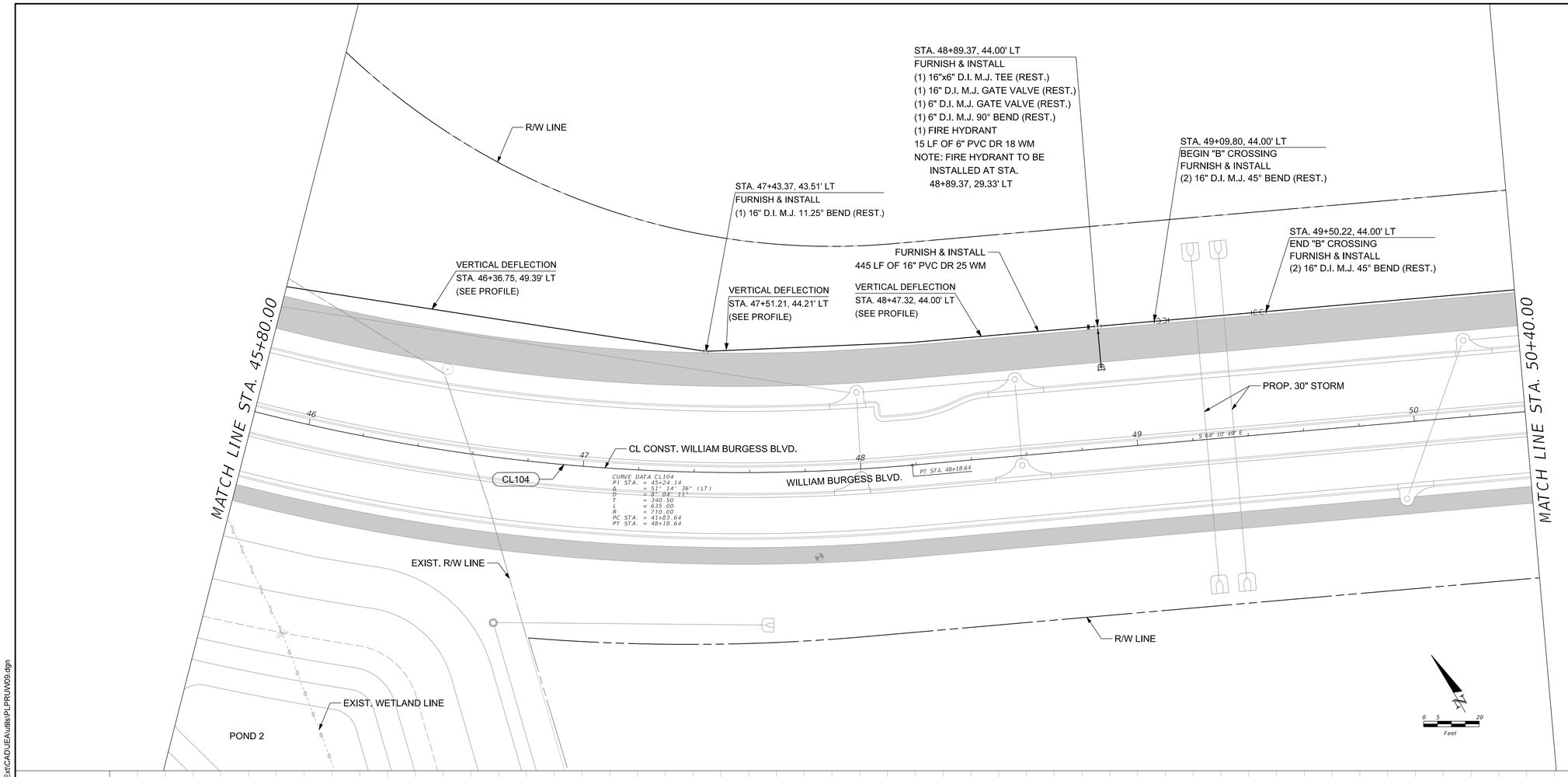
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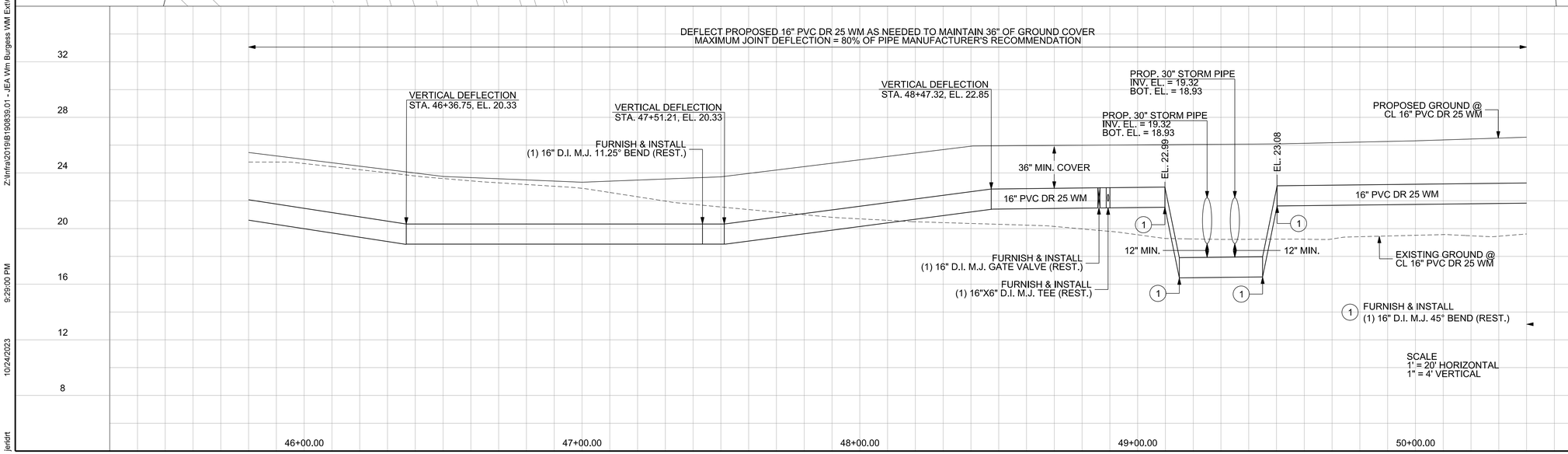
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DRAWING NO. WM-8

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WATER AND SEWER PLAN/PROFILE
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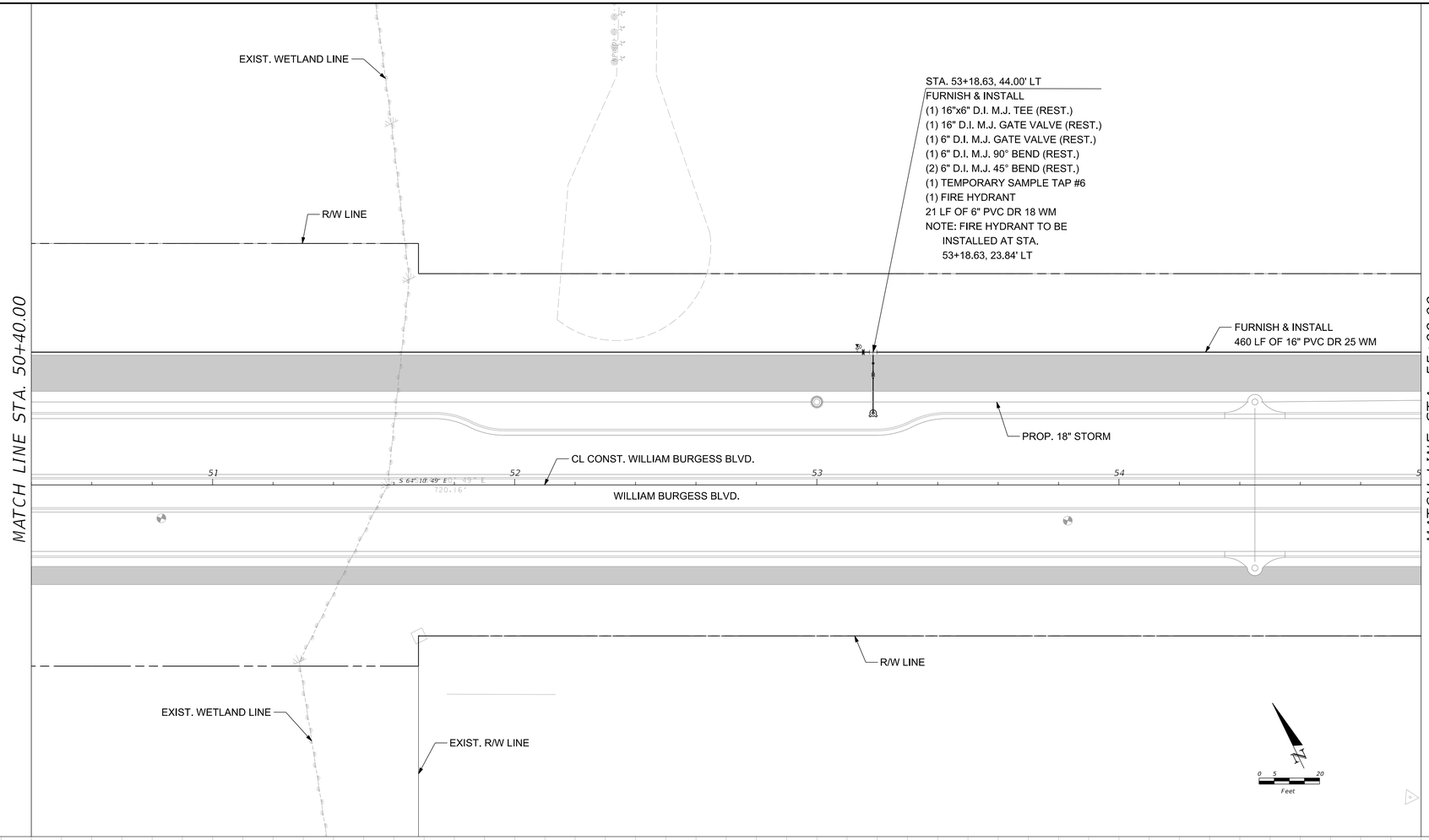
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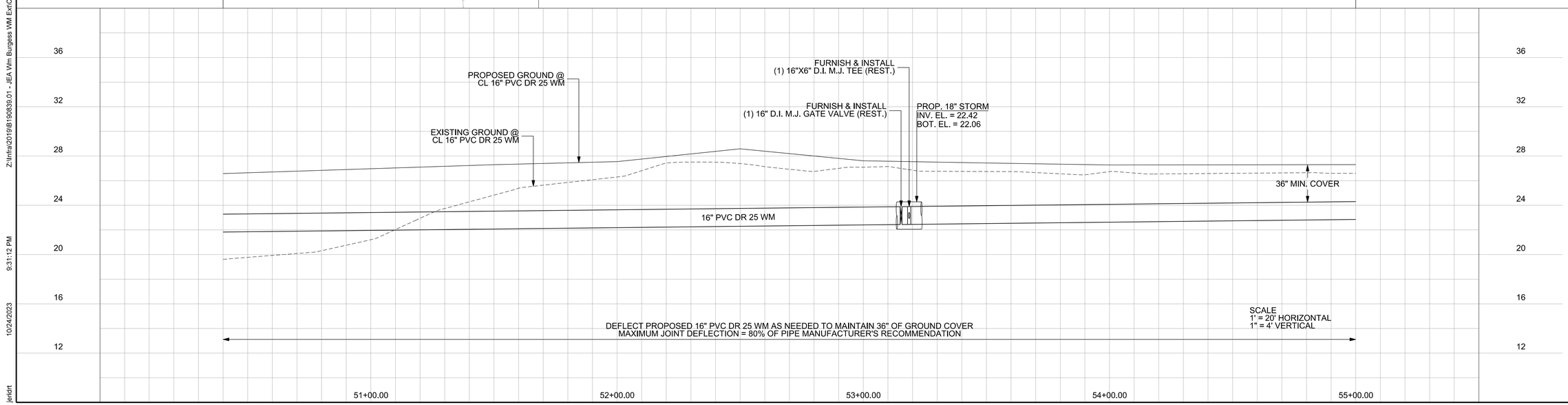
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SHEET NO. 13
DRAWING NO. WM-9

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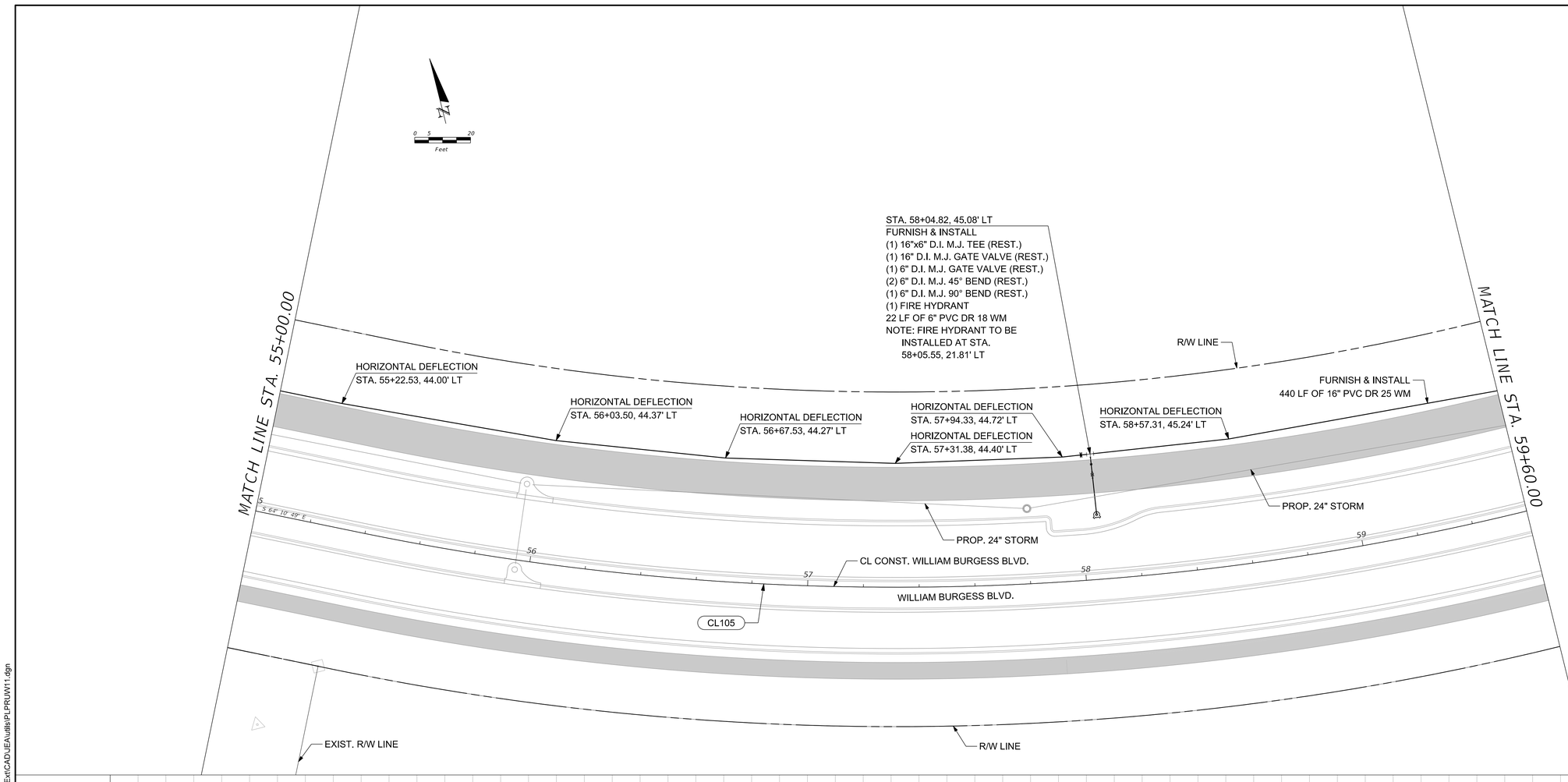
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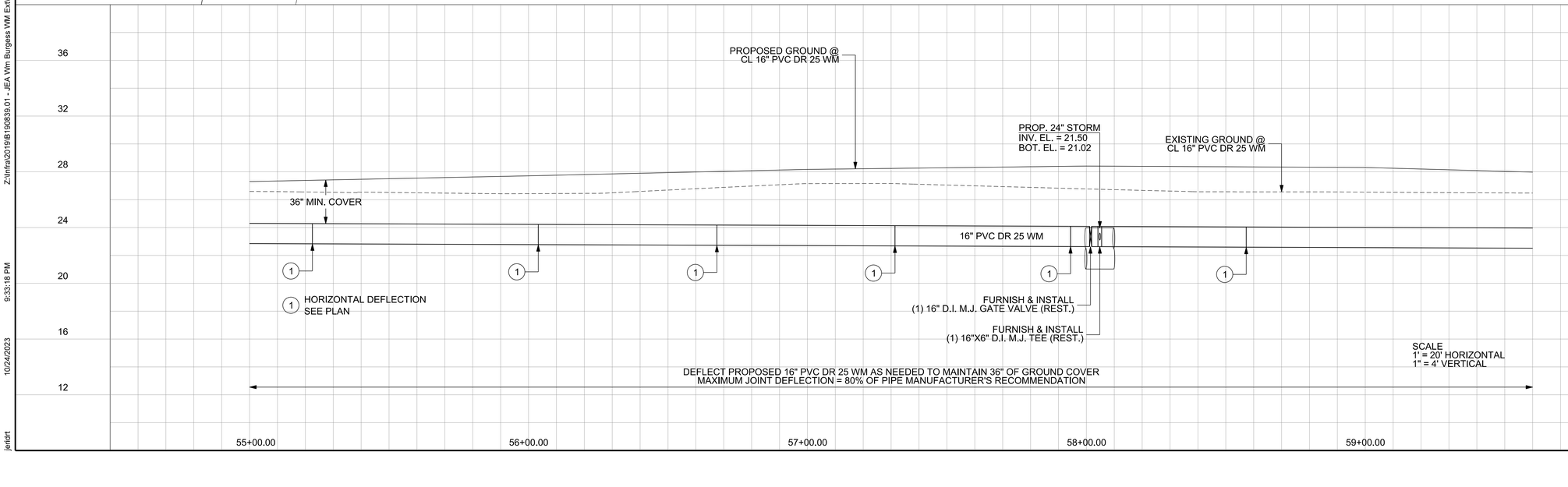
NO. SHEETS 43
SHEET NO. 14
DRAWING NO. WM-10

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KM
DATE: 10/24/2023

JEA
Building Community

WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

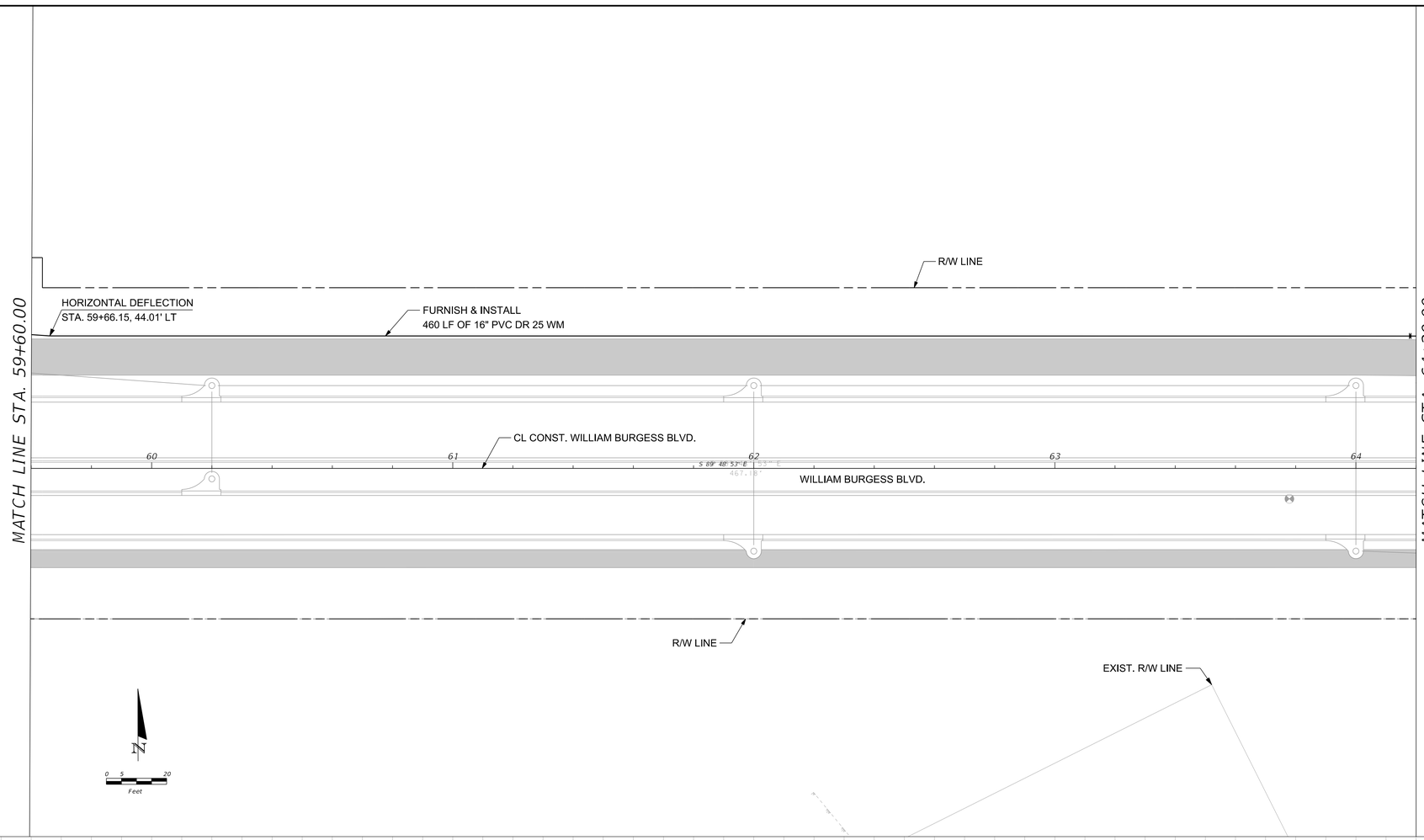
PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

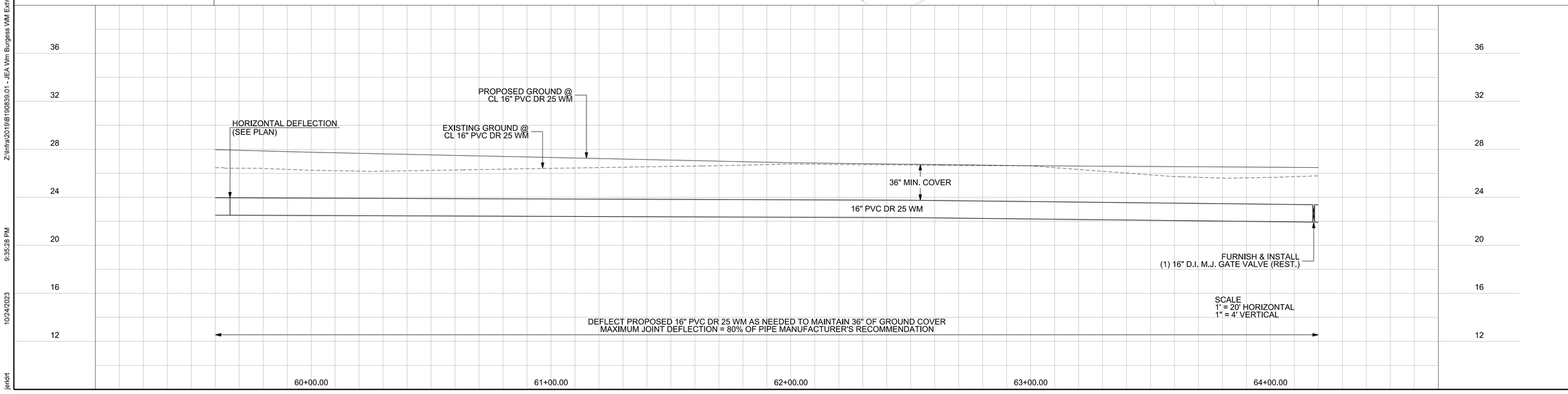
NO. SHEETS 43
SHEET NO. 15
DRAWING NO. WM-11

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904-363-1116
EB9951

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KM
DATE: 10/24/2023

JEA
Building Community

WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 16
DRAWING NO. WM-12

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EXIST. WETLAND LINE

EXIST. 16" JEA SPRAY FIELD WATER LINE TO REMAIN

STA. 64+21.34, 43.94' LT
FURNISH & INSTALL
(1) 16"x6" D.I. M.J. TEE (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. 90° BEND (REST.)
(1) FIRE HYDRANT
15 LF OF 6" PVC DR 18 WM
NOTE: FIRE HYDRANT TO BE INSTALLED AT STA. 64+21.33, 29.34' LT

VERTICAL DEFLECTION
STA. 65+52.50, 41.42' LT
(SEE PROFILE)

STA. 65+62.91, 41.61' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 22.50° BEND (REST.)

STA. 65+69.80, 38.87' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

VERTICAL DEFLECTION
STA. 65+72.50, 38.40' LT
(SEE PROFILE)

STA. 66+23.37, 47.81' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. CAP (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)

R/W LINE

EXIST. WETLAND LINE

STA. 68+60.00, 51.25' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. GATE VALVE (REST.)

STA. 68+57.73, 31.34' LT
FURNISH & INSTALL
(1) 16"x6" D.I. M.J. TEE (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. 90° BEND (REST.)
(1) TEMPORARY SAMPLE TAP #7
(1) FIRE HYDRANT
6 LF OF 6" PVC DR 18 WM
NOTE: FIRE HYDRANT TO BE INSTALLED AT STA. 68+57.79, 25.33' LT

MATCH LINE STA. 64+20.00

STA. 65+00.00, 41.88' LT
FURNISH & INSTALL
(1) 16"x8" D.I. M.J. TEE (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)

VERTICAL DEFLECTION
STA. 65+13.50, 41.54' LT
(SEE PROFILE)

HORIZONTAL DEFLECTION
STA. 64+47.18, 44.05' LT

HORIZONTAL DEFLECTION
STA. 64+84.67, 42.46' LT

FURNISH & INSTALL
264 LF OF 16" PVC DR 25 FM

HORIZONTAL DEFLECTION
STA. 66+20.00, 31.18' LT

HORIZONTAL DEFLECTION
STA. 68+42.00, 51.06' LT

MATCH LINE STA. 68+80.00

FURNISH & INSTALL
82 LF OF 8" PVC DR 18 WM

CL CONST. WILLIAM BURGESS BLVD.

HORIZONTAL DEFLECTION
STA. 67+93.23, 30.67' LT

VERTICAL DEFLECTION
STA. 68+00.00, 30.73' LT
(SEE PROFILE)

66

67

68

65

S 89° 48' 57" E

WILLIAM BURGESS BLVD.

STA. 65+63.07, 12.99' RT
BEGIN "B" CROSSING
FURNISH & INSTALL
(2) 16" D.I. M.J. 45° BEND (REST.)

FURNISH & INSTALL
472 LF OF 16" PVC DR 25 WM

S 72° 26' 58" E

CL106

STA. 64+98.24, 15.82' RT
FURNISH & INSTALL
(2) 8" D.I. M.J. 45° BEND (REST.)

FURNISH & INSTALL
118 LF OF 16" PVC DR 25 RM

PROP. 24" STORM

STA. 65+75.17, 42.67' RT
END "B" CROSSING
FURNISH & INSTALL
(2) 16" D.I. M.J. 45° BEND (REST.)

R/W LINE

STA. 64+97.47, 39.39' RT
FURNISH & INSTALL
(1) 8" D.I. M.J. CAP (REST.)

N

0 5 20
Feet

VERTICAL DEFLECTION
STA. 65+72.50, EL. 23.05

VERTICAL DEFLECTION
STA. 65+52.50, EL. 22.18

EXIST. 16" JEA SPRAY FEILD WATER LINE TO REMAIN

PROP. 24" STORM
INV. EL. = 20.58
BOT. EL. = 20.10

FURNISH & INSTALL
(1) 16"X8" D.I. M.J. TEE (REST.)

FURNISH & INSTALL
(1) 16" D.I. M.J. GATE VALVE (REST.)

VERTICAL DEFLECTION
STA. 65+13.50, EL. 23.18

12" MIN.

FURNISH & INSTALL
(1) 16"X6" D.I. M.J. TEE (REST.)

FURNISH & INSTALL
(1) 16" D.I. M.J. 22.50° BEND (REST.)

FURNISH & INSTALL
(1) 16" D.I. M.J. CAP (REST.)

FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

PROPOSED GROUND @
CL 16" PVC DR 25 WM

36" MIN. COVER

EL. 23.05

16" PVC DR 25 WM

EXISTING GROUND @
CL 16" PVC DR 25 WM

VERTICAL DEFLECTION
STA. 68+00.00, EL. 24.77

FURNISH & INSTALL
(1) 16" D.I. M.J. GATE VALVE (REST.)

16" PVC DR 25 FM

FURNISH & INSTALL
(1) 16" D.I. M.J. GATE VALVE (REST.)

1 HORIZONTAL DEFLECTION SEE PLAN

DEFLECT PROPOSED 16" PVC DR 25 WM AS NEEDED TO MAINTAIN 36" OF GROUND COVER
MAXIMUM JOINT DEFLECTION = 80% OF PIPE MANUFACTURER'S RECOMMENDATION

36 32 28 24 20 16 12

65+00.00 66+00.00 67+00.00 68+00.00

SCALE
1" = 20' HORIZONTAL
1" = 4' VERTICAL

gai consultants
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Jacksonville, Florida 32258
904-363-1116
EB9951

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNED BY: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KM
DATE: 10/24/2023

JEA Building Community

WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 17
DRAWING NO. WM-13

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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POND 1 RETENTION AREA

POND 1

0 5 20 Feet

PROP. FENCE

EXIST. WETLAND LINE

STA. 68+80.99, 51.47' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

STA. 68+99.63, 47.96' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 22.50° BEND (REST.)

STA. 69+03.16, 48.69' LT
FURNISH & INSTALL
(2) 16" D.I. M.J. 45° BEND (REST.)

STA. 69+40.00, 56.43' LT
FURNISH & INSTALL
(1) 2" AIR RELEASE VALVE ON 16" FM
IN LINED MANHOLE PER JEA PLATE S-29B

FURNISH & INSTALL
272 LF OF 16" PVC DR 25 FM

PROP. 36" STORM

SEE IRRIGATION PLANS

STA. 69+31.25, 32.11' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

STA. 68+87.42, 31.65' LT
FURNISH & INSTALL
(1) 2" NEW WATER SERVICE
(SHORT SIDE)
(1) 2" WATER SERVICE METER BOX
(1) 2" BACKFLOW PREVENTION DEVICE

R/W LINE

MATCH LINE STA. 68+80.00

VERTICAL DEFLECTION
STA. 71+25.55, 54.92' LT
(SEE PROFILE)

EXIST. WETLAND LINE

EXIST. FENCE
TO BE REMOVED

HORIZONTAL DEFLECTION
STA. 71+57.95, 46.89' LT
FURNISH & INSTALL
286 LF OF 16" PVC DR 25 WM

MATCH LINE STA. 72+00.00

STA. 70+42.27, 77.89' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

STA. 70+48.91, 56.81' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

WILLIAM BURGESS BLVD.

S 72° 26' 58" E 283.22'

CL CONST. WILLIAM BURGESS BLVD.

CL CONST. THERESA CT.

THERESA CT

EXIST. 10' EASEMENT (FPL)

EXIST. 30' EASEMENT (JEA)

EXIST. FENCE
TO REMAIN

EXIST. PROPERTY LINE

R/W LINE

@ CL 16" WM
INV. EL. = 19.10
BOT. EL. = 18.70

PROP. 36" STORM
@ CL 16" FM
INV. EL. = 18.67
BOT. EL. = 18.27

FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

FURNISH & INSTALL
(1) 2" AIR RELEASE VALVE ON 16" FM
IN LINED MANHOLE PER JEA PLATE S-29B

PROPOSED GROUND @
CL 16" PVC DR 25 WM

VERTICAL DEFLECTION
STA. 71+24.50, EL. 23.52

VERTICAL DEFLECTION
STA. 71+25.55, EL. 25.97

EXISTING GROUND @
CL 16" PVC DR 25 WM

EL. 19.69

EL. 24.51

FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

36" MIN. COVER

16" PVC DR 25 WM

EL. 23.39

16" PVC DR 25 FM

12" MIN.

FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

HORIZONTAL DEFLECTION
(SEE PLAN)

1 FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

2 FURNISH & INSTALL
(1) 16" D.I. M.J. 45° BEND (REST.)

FURNISH & INSTALL
(1) 16" D.I. M.J. 22.50° BEND (REST.)

DEFLECT PROPOSED 16" PVC DR 25 WM AS NEEDED TO MAINTAIN 36" OF GROUND COVER
MAXIMUM JOINT DEFLECTION = 80% OF PIPE MANUFACTURER'S RECOMMENDATION

SCALE
1' = 20' HORIZONTAL
1" = 4' VERTICAL

36 32 28 24 20 16 12

69+00.00 70+00.00 71+00.00 72+00.00

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Jacksonville, Florida 32258
904-363-1116
EB9951

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KM
DATE: 10/24/2023

JEA Building Community

WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 18
DRAWING NO. WM-14

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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EXIST. WETLAND LINE

EXIST. R/W LINE

POND 1

0 5 20 Feet

SUMMARY OF VERIFIED UTILITIES								
VVH #	UTILITY DESCRIPTION (OWNER, TYPE)	SIZE	MATERIALS	CL CONST. WILLIAM BURGESS BLVD.			EXISTING GROUND ELEVATION	TOP ELEVATION
				STATION	OFFSET	LT/RT		
1	GM, TECO	12"	STEEL	73+00.00	6.38'	LT	27.08	23.08
2	GM, TECO	12"	STEEL	74+22.00	19.92'	LT	27.17	23.64

MATCH LINE STA. 72+00.00

MATCH LINE STA. 75+40.00

STA. 72+07.79. 33.63' LT
FURNISH & INSTALL
(1) 16"x6" D.I. M.J. TEE (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. 90° BEND (REST.)
(1) FIRE HYDRANT
8 LF OF 6" PVC DR 18 WM
NOTE: FIRE HYDRANT TO BE INSTALLED AT STA. 72+05.97, 26.77' LT

STA. 72+38.25, 49.67' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

HORIZONTAL DEFLECTION
STA. 73+34.18, 45.21' LT

FURNISH & INSTALL
337 LF OF 16" PVC DR 25 FM

STA. 74+27.53, 35.14' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

STA. 72+33.70, 26.74' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 22.50° BEND (REST.)

EXIST. 12" GAS MAIN TO REMAIN

VVH 2

STA. 72+36.82, 24.35' LT
BEGIN "B" CROSSING
FURNISH & INSTALL
(1) 16" D.I. M.J. 45° BEND (REST.) ROTATED

VVH 1

CL CONST. WILLIAM BURGESS BLVD.

WILLIAM BURGESS BLVD.

N 70° 32' 09" E

N 62° 56' 00" E

STA. 72+37.39, 20.08' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 45° BEND (REST.)

STA. 72+44.66. 34.42' RT
FURNISH & INSTALL
(1) 16"x8" D.I. M.J. TEE (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)
(1) 8" D.I. M.J. CAP
12 LF OF 8" PVC DR 18 WM

EXIST. 10' EASEMENT (FPL)

EXIST. 30' EASEMENT (JEA)

EXIST. 16" RECLAIMED WATER MAIN TO REMAIN

EXIST. FENCE TO REMAIN

EXIST. 16" SANITARY FORCE MAIN TO REMAIN

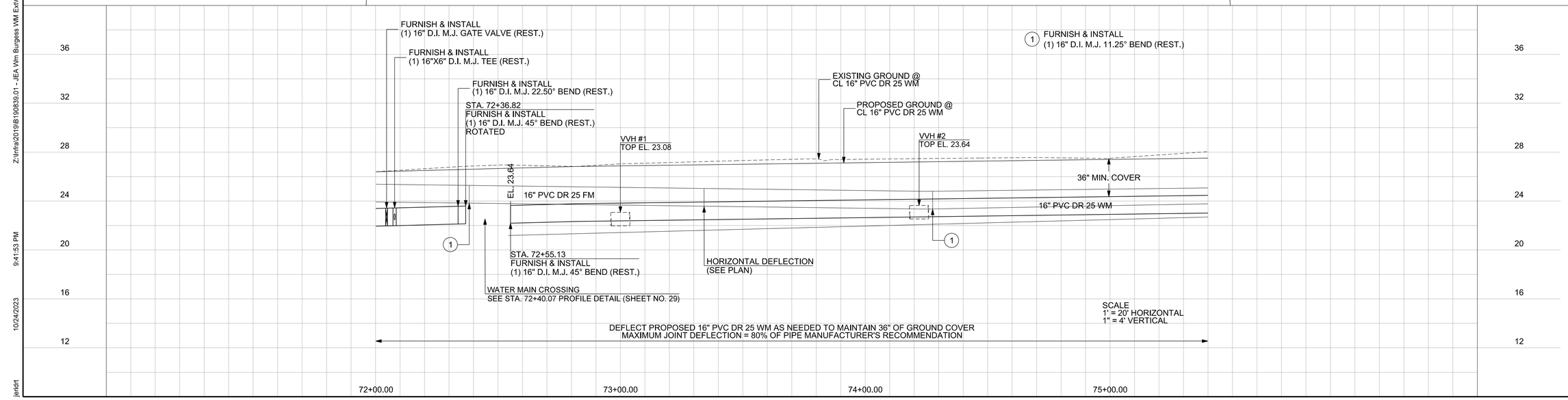
STA. 72+55.13, 54.72' RT
FURNISH & INSTALL
(1) 16" D.I. M.J. 45° BEND (REST.)

FURNISH & INSTALL
417 LF OF 16" PVC DR 25 WM

STA. 72+47.24, 53.70' RT
FURNISH & INSTALL
(1) 16" D.I. M.J. 45° BEND (REST.)

STA. 72+49.55, 55.47' RT
FURNISH & INSTALL
(1) 16" D.I. M.J. 45° BEND (REST.) ROTATED

(1) ALL PIPE JOINTS WITHIN ROADWAY CROSSING (CURB BACK TO CURB BACK) TO BE RESTRAINED



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904-363-1116

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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KM
DATE: 10/24/2023

JEA
Building Community

WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 19
DRAWING NO. WM-15

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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MATCH LINE STA. 75+40.00

STA. 75+66.04, 36.00' LT
BEGIN "B" CROSSING
FURNISH & INSTALL
(2) 16" D.I. M.J. 45° BEND (REST.)

POND 1

PROP. 24" STORM

STA. 75+88.67, 36.00' LT
END "B" CROSSING
FURNISH & INSTALL
(2) 16" D.I. M.J. 45° BEND (REST.)

R/W LINE

4'

YULEE HIGH SCHOOL

STA. 79+00.00, 36.00' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. GATE VALVE (REST.)

VVH 4

EXIST. 12" GAS MAIN
TO REMAIN

VVH 3

FURNISH & INSTALL
460 LF OF 16" PVC DR 25 FM

CL CONST. WILLIAM BURGESS BLVD.

N 62° 56' 00" E

WILLIAM BURGESS BLVD.

EXIST. FENCE
TO REMAIN

STA. 76+25.33. 35.00' RT
FURNISH & INSTALL
(1) 16"x6" D.I. M.J. TEE (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. GATE VALVE (REST.)
(2) 6" D.I. M.J. 45° BEND (REST.)
(2) 6" D.I. M.J. 90° BEND (REST.)
(1) FIRE HYDRANT
11 LF OF 6" PVC DR 18 WM
NOTE: FIRE HYDRANT TO BE
INSTALLED AT STA.
76+29.58. 28.29' RT

EXIST. 16" SANITARY FORCE MAIN
TO REMAIN

FURNISH & INSTALL
460 LF OF 16" PVC DR 25 WM

EXIST. 16" RECLAIMED WATER MAIN
TO REMAIN

VVH 5

EXIST. 10' EASEMENT (FPL)

EXIST. 30' EASEMENT (JEA)

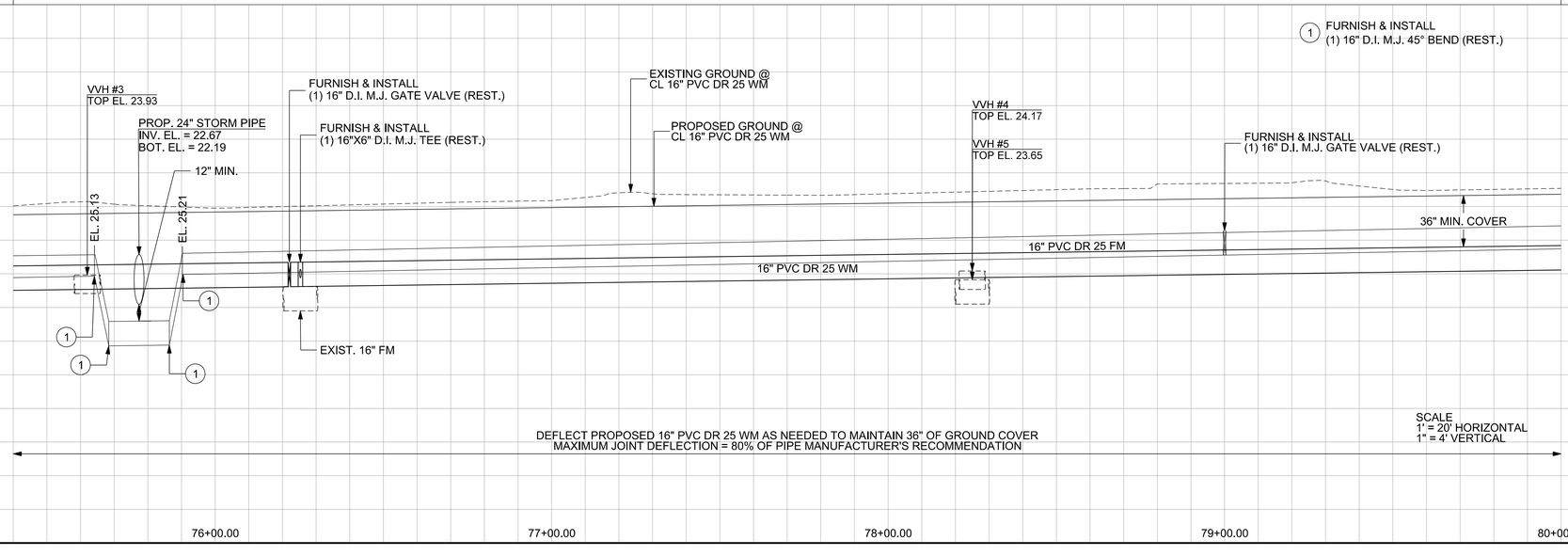
EXIST. PROPERTY LINE

MATCH LINE STA. 80+00.00

0 5 20
Feet

SUMMARY OF VERIFIED UTILITIES

VVH #	UTILITY DESCRIPTION (OWNER, TYPE)	SIZE	MATERIALS	CL CONST. WILLIAM BURGESS BLVD.			EXISTING GROUND ELEVATION	TOP ELEVATION
				STATION	OFFSET	LT/RT		
3	GM, TECO	12"	STEEL	75+62.00	20.97'	LT	27.61	23.93
4	GM, TECO	12"	STEEL	78+25.00	22.73'	LT	28.14	24.17
5	RM, JEA	16"	PVC	78+25.00	25.00'	RT	28.23	23.65



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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
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DATE: 10/24/2023

JEA
Building Community

WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

PROJ. NO.
DATE: 10/24/2023
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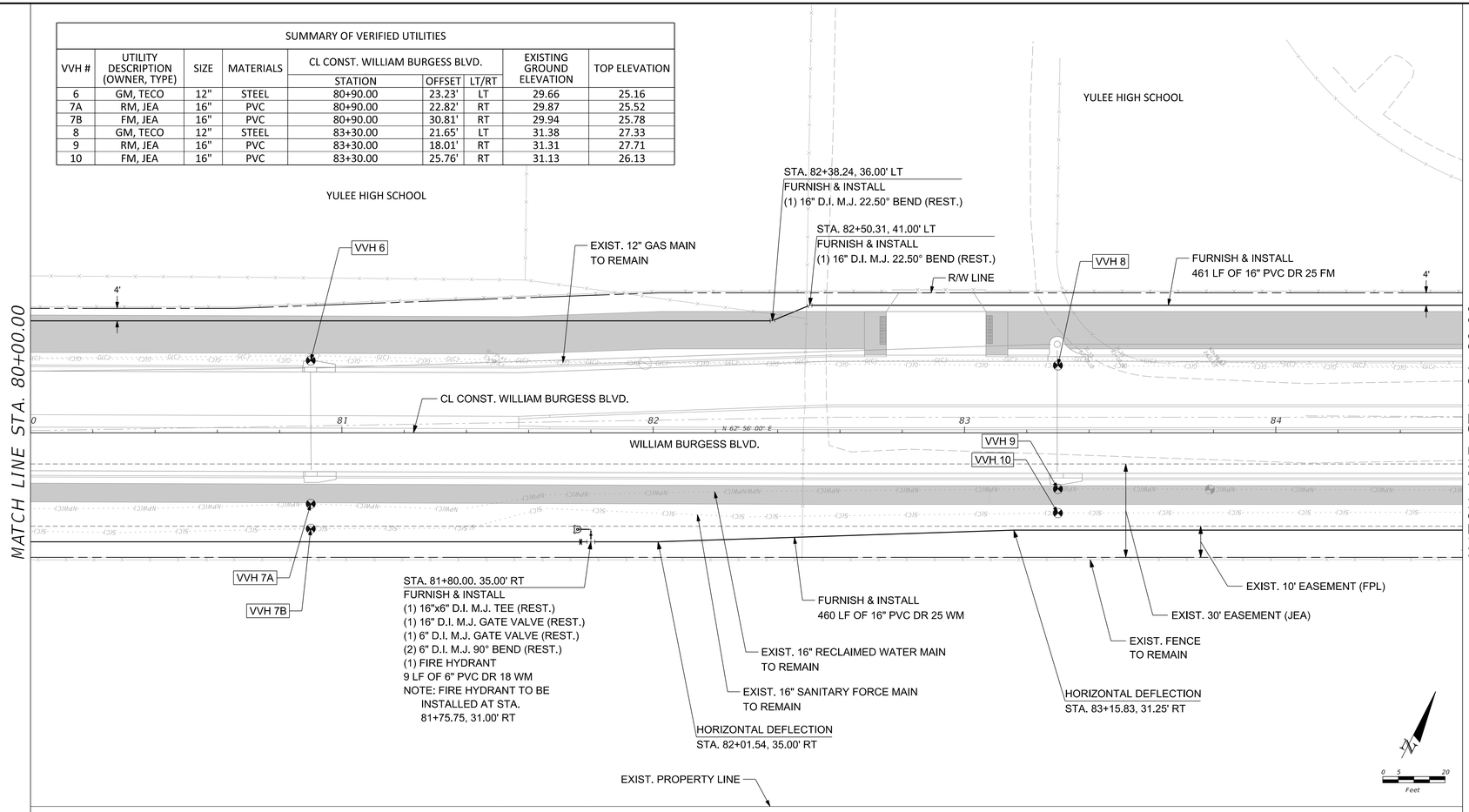
NO. SHEETS 43
SHEET NO. 20
DRAWING NO. WM-16

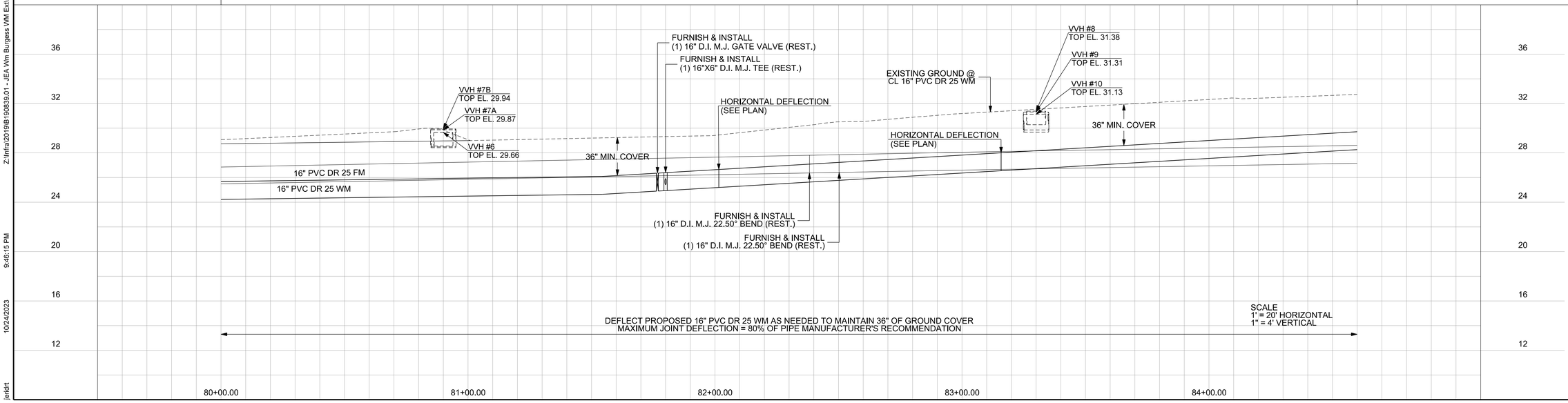
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SUMMARY OF VERIFIED UTILITIES								
VVH #	UTILITY DESCRIPTION (OWNER, TYPE)	SIZE	MATERIALS	CL CONST. WILLIAM BURGESS BLVD.			EXISTING GROUND ELEVATION	TOP ELEVATION
				STATION	OFFSET	LT/RT		
6	GM, TECO	12"	STEEL	80+90.00	23.23'	LT	29.66	25.16
7A	RM, JEA	16"	PVC	80+90.00	22.82'	RT	29.87	25.52
7B	FM, JEA	16"	PVC	80+90.00	30.81'	RT	29.94	25.78
8	GM, TECO	12"	STEEL	83+30.00	21.65'	LT	31.38	27.33
9	RM, JEA	16"	PVC	83+30.00	18.01'	RT	31.31	27.71
10	FM, JEA	16"	PVC	83+30.00	25.76'	RT	31.13	26.13





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NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNED BY: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KM
DATE: 10/24/2023

JEA
Building Community

WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

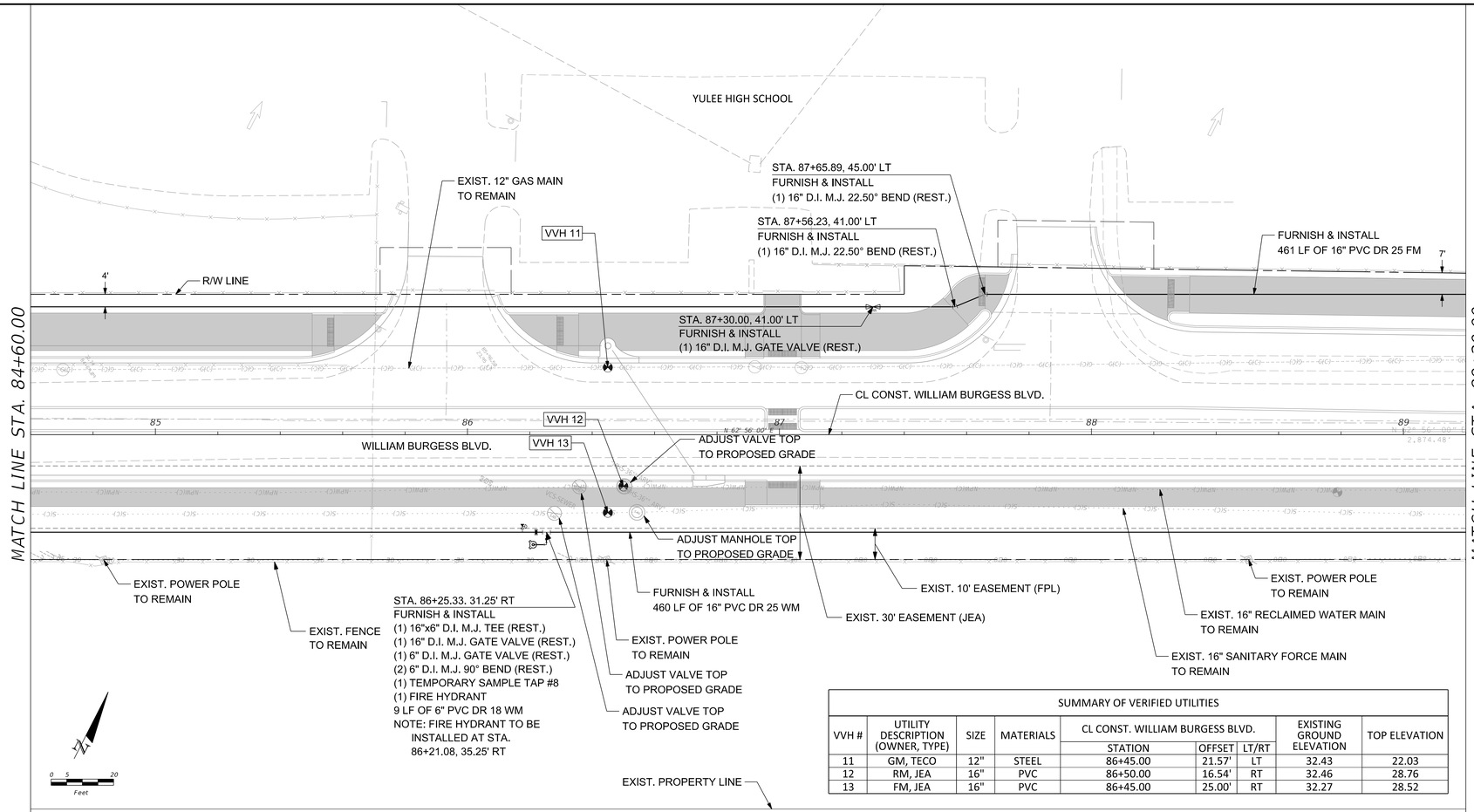
PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 21
DRAWING NO. WM-17

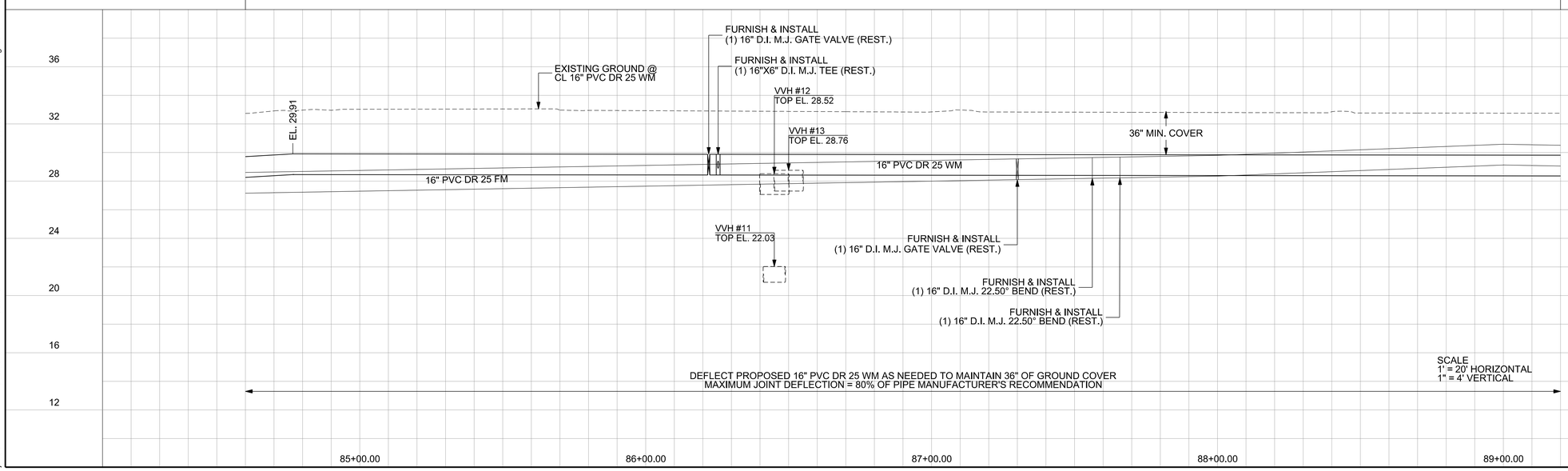
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SUMMARY OF VERIFIED UTILITIES								
VVH #	UTILITY DESCRIPTION (OWNER, TYPE)	SIZE	MATERIALS	CL CONST. WILLIAM BURGESS BLVD.			EXISTING GROUND ELEVATION	TOP ELEVATION
				STATION	OFFSET	LT/RT		
11	GM, TECO	12"	STEEL	86+45.00	21.57'	LT	32.43	22.03
12	RM, JEA	16"	PVC	86+50.00	16.54'	RT	32.46	28.76
13	FM, JEA	16"	PVC	86+45.00	25.00'	RT	32.27	28.52



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DESIGN ENGINEER: MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO. 74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KM
DATE: 10/24/2023

JEA Building Community

WATER AND SEWER PLAN/PROFILE WILLIAM BURGESS BLVD.

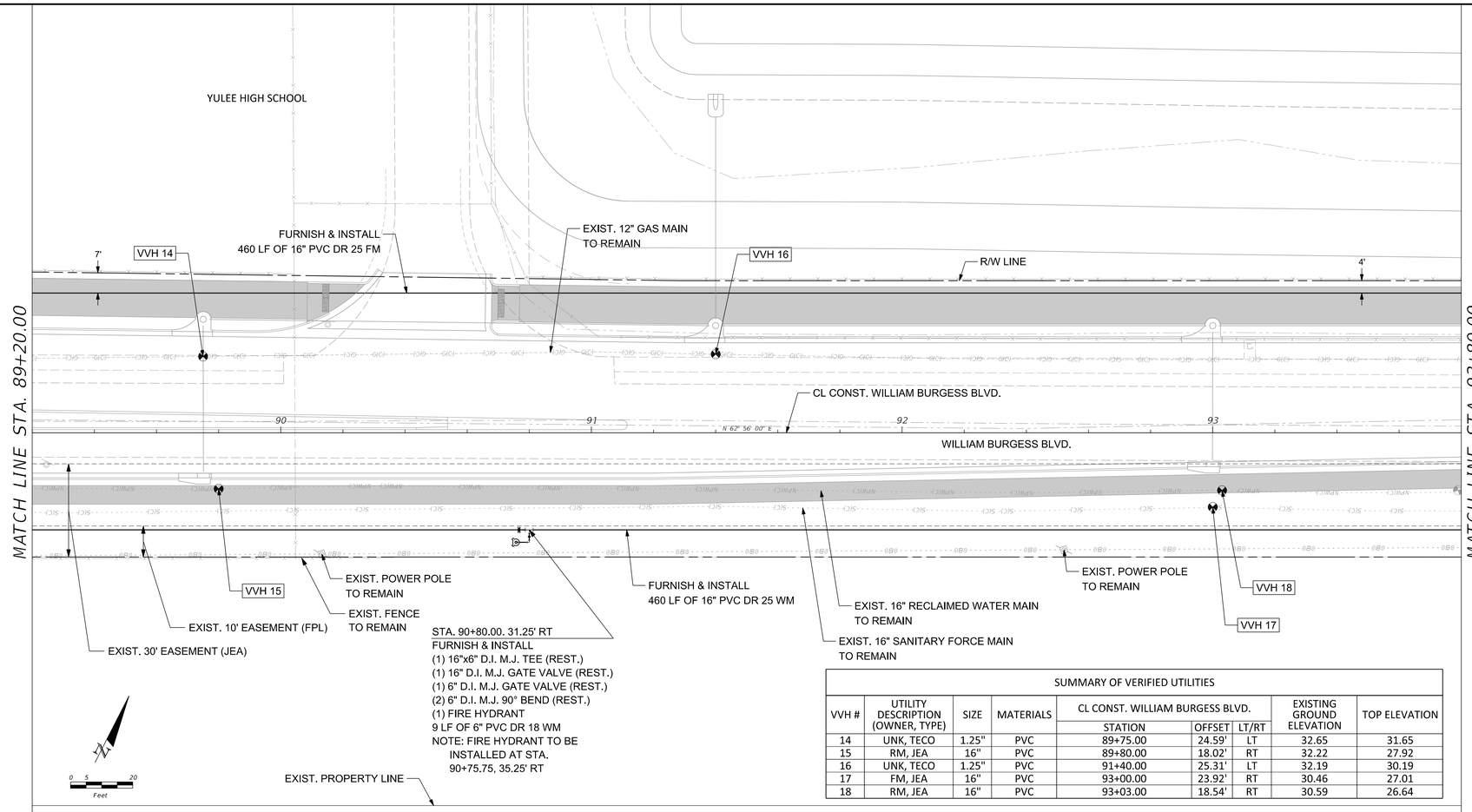
PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 22
DRAWING NO. WM-18

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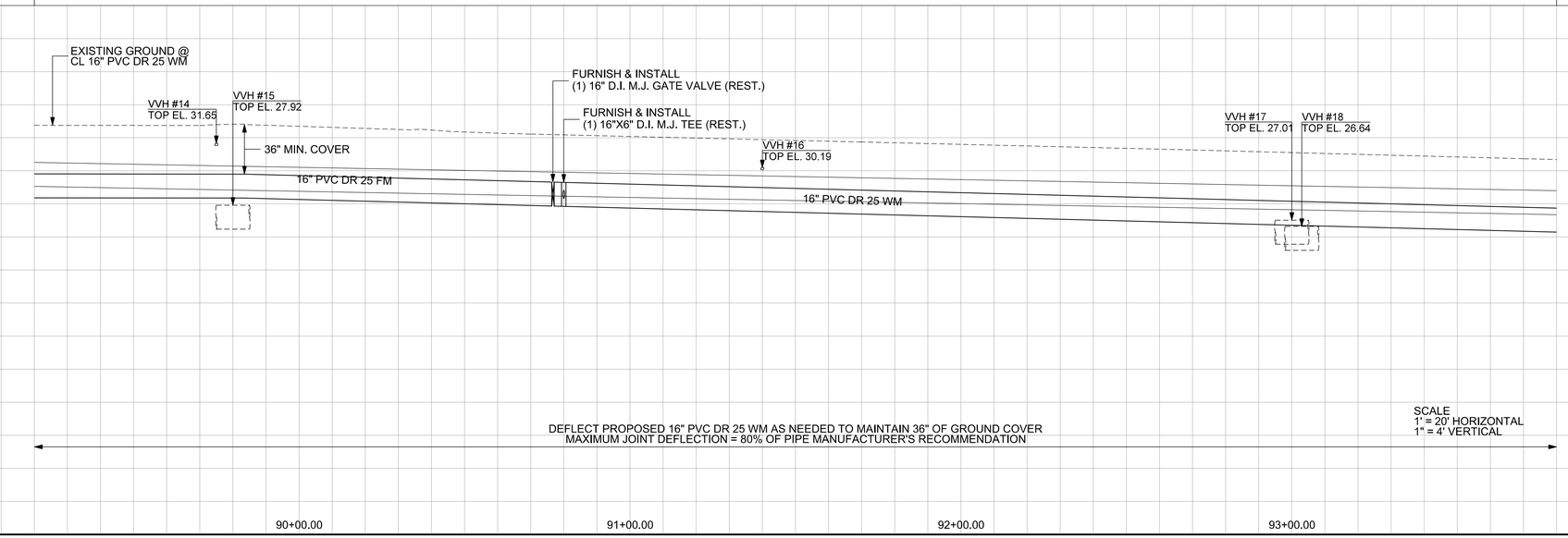
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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



SUMMARY OF VERIFIED UTILITIES

VVH #	UTILITY DESCRIPTION (OWNER, TYPE)	SIZE	MATERIALS	CL CONST. WILLIAM BURGESS BLVD.			EXISTING GROUND ELEVATION	TOP ELEVATION
				STATION	OFFSET	LT/RT		
14	UNK, TECO	1.25"	PVC	89+75.00	24.59'	LT	32.65	31.65
15	RM, JEA	16"	PVC	89+80.00	18.02'	RT	32.22	27.92
16	UNK, TECO	1.25"	PVC	91+40.00	25.31'	LT	32.19	30.19
17	FM, JEA	16"	PVC	93+00.00	23.92'	RT	30.46	27.01
18	RM, JEA	16"	PVC	93+03.00	18.54'	RT	30.59	26.64



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NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KM
DATE: 10/24/2023

JEA
Building Community

WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 23
DRAWING NO. WM-19

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YULEE HIGH SCHOOL

MATCH LINE STA. 93+80.00

MATCH LINE STA. 98+40.00

STA. 98+27.91, 41.75' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

FURNISH & INSTALL
462 LF OF 16" PVC DR 25 FM

R/W LINE

VVH 19

VVH 21

EXIST. 12" GAS MAIN
TO REMAIN

STA. 98+11.55, 45.00' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

4'

VVH 23

94 95 96 97 98

CL CONST. WILLIAM BURGESS BLVD.

N 62° 56' 00" E

WILLIAM BURGESS BLVD.

EXIST. POWER POLE
TO REMAIN

VVH 20

STA. 96+25.33, 31.25' RT
FURNISH & INSTALL
(1) 16"x6" D.I. M.J. TEE (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. GATE VALVE (REST.)
(2) 6" D.I. M.J. 90° BEND (REST.)
(1) FIRE HYDRANT
9 LF OF 6" PVC DR 18 WM
NOTE: FIRE HYDRANT TO BE
INSTALLED AT STA.
96+21.08, 35.25' RT

VVH 22

EXIST. POWER POLE
TO REMAIN

FURNISH & INSTALL
460 LF OF 16" PVC DR 25 WM

EXIST. 10' EASEMENT (FPL)

EXIST. 30' EASEMENT (JEA)

EXIST. 16" RECLAIMED WATER MAIN
TO REMAIN

EXIST. 16" SANITARY FORCE MAIN
TO REMAIN

EXIST. PROPERTY LINE

0 5 20
Feet

SUMMARY OF VERIFIED UTILITIES

VVH #	UTILITY DESCRIPTION (OWNER, TYPE)	SIZE	MATERIALS	CL CONST. WILLIAM BURGESS BLVD. STATION	OFFSET	LT/RT	EXISTING GROUND ELEVATION	TOP ELEVATION
19	UNK, TECO	1.25"	PVC	94+75.00	23.26'	LT	31.05	29.30
20	RM, JEA	16"	PVC	94+80.00	18.84'	RT	30.29	25.59
21	UNK, TECO	1.25"	PVC	96+40.00	24.74'	LT	29.59	28.09
22	RM, JEA	16"	PVC	96+38.00	19.66'	RT	28.76	24.41
23	UNK, TECO	1.25"	PVC	98+00.00	24.14'	RT	28.00	26.50

36 32 28 24 20 16 12

VVH #20
TOP EL. 25.59

EXISTING GROUND @
CL 16" PVC DR 25 WM

VVH #19
TOP EL. 29.30

FURNISH & INSTALL
(1) 16" D.I. M.J. GATE VALVE (REST.)

FURNISH & INSTALL
(1) 16"X6" D.I. M.J. TEE (REST.)

VVH #22
TOP EL. 24.41

VVH #21
TOP EL. 28.09

FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

VVH #23
TOP EL. 26.50

16" PVC DR 25 WM

16" PVC DR 25 FM

36" MIN. COVER

DEFLECT PROPOSED 16" PVC DR 25 WM AS NEEDED TO MAINTAIN 36" OF GROUND COVER
MAXIMUM JOINT DEFLECTION = 80% OF PIPE MANUFACTURER'S RECOMMENDATION

SCALE
1" = 20' HORIZONTAL
1" = 4' VERTICAL

94+00.00 95+00.00 96+00.00 97+00.00 98+00.00

gai consultants
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NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KM
DATE: 10/24/2023

JEA Building Community

WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 24
DRAWING NO. WM-20

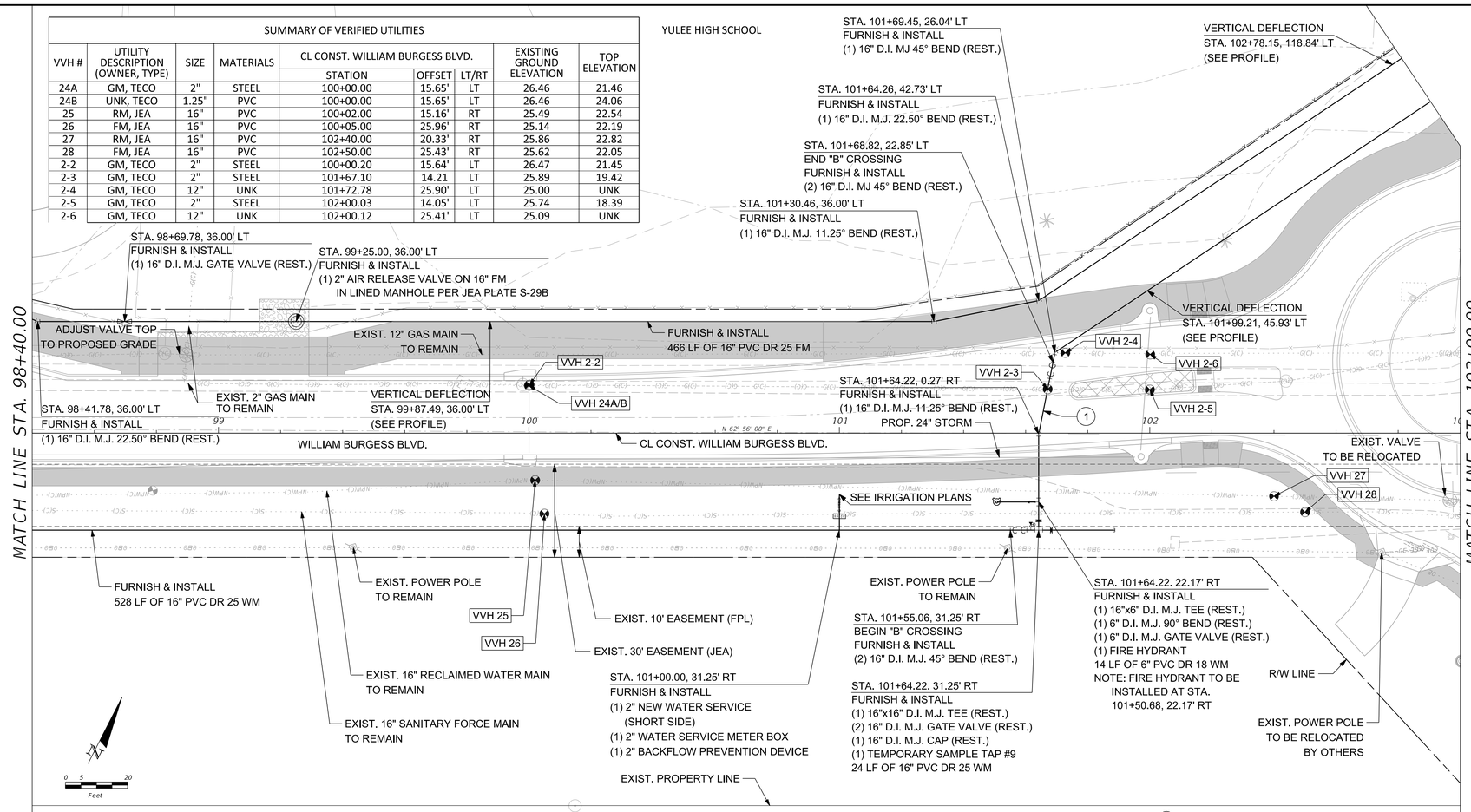
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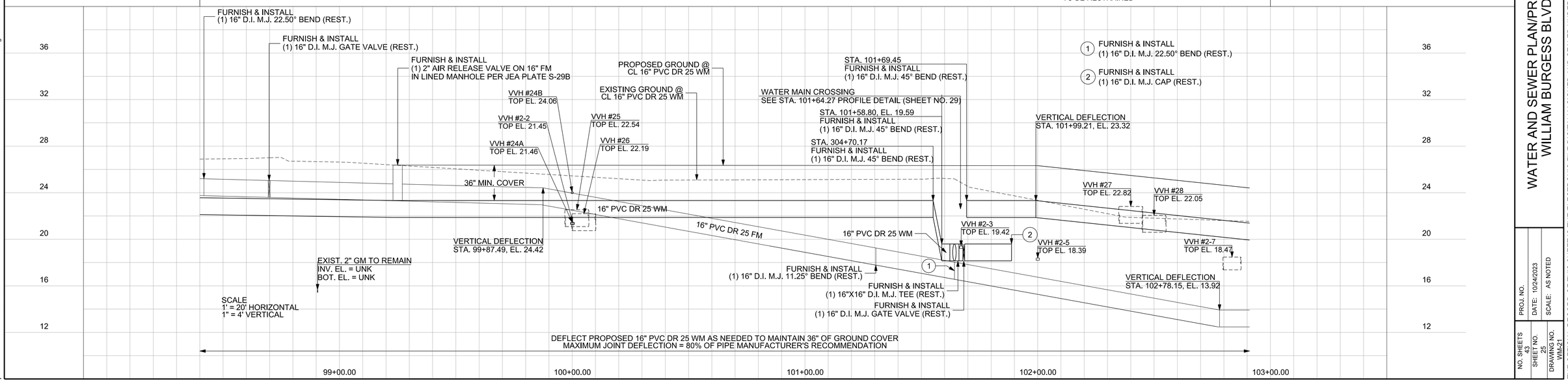
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SUMMARY OF VERIFIED UTILITIES

VVH #	UTILITY DESCRIPTION (OWNER, TYPE)	SIZE	MATERIALS	CL CONST. WILLIAM BURGESS BLVD.			EXISTING GROUND ELEVATION	TOP ELEVATION
				STATION	OFFSET	LT/RT		
24A	GM, TECO	2"	STEEL	100+00.00	15.65'	LT	26.46	21.46
24B	UNK, TECO	1.25"	PVC	100+00.00	15.65'	LT	26.46	24.06
25	RM, JEA	16"	PVC	100+02.00	15.16'	RT	25.49	22.54
26	FM, JEA	16"	PVC	100+05.00	25.96'	RT	25.14	22.19
27	RM, JEA	16"	PVC	102+40.00	20.33'	RT	25.86	22.82
28	FM, JEA	16"	PVC	102+50.00	25.43'	RT	25.62	22.05
2-2	GM, TECO	2"	STEEL	100+00.20	15.64'	LT	26.47	21.45
2-3	GM, TECO	2"	STEEL	101+67.10	14.21	LT	25.89	19.42
2-4	GM, TECO	12"	UNK	101+72.78	25.90'	LT	25.00	UNK
2-5	GM, TECO	2"	STEEL	102+00.03	14.05'	LT	25.74	18.39
2-6	GM, TECO	12"	UNK	102+00.12	25.41'	LT	25.09	UNK





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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNED BY: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KM
DATE: 10/24/2023

JEA
Building Community

WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 25
DRAWING NO. WM-21

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STA. 306+04.90, 59.64' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 22.50° BEND (REST.)

STA. 306+09.50, 57.02' LT
BEGIN "B" CROSSING
FURNISH & INSTALL
(2) 16" D.I. M.J. 45° BEND (REST.)
HORIZONTAL DEFLECTION
STA. 306+22.73, 64.01' LT

STA. 306+30.49, 52.40' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

STA. 306+33.65, 49.24' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 45° BEND (REST.)

PROP. 18" STORM R/W LINE

STA. 306+76.97, 49.24' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. CAP (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)

STA. 306+76.97, 44.85' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. CAP (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)

STA. 306+76.97, 32.34' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. CAP (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)

STA. 307+42.91, 24.97' LT
END "B" CROSSING
FURNISH & INSTALL
(2) 16" D.I. M.J. 45° BEND (REST.)

FURNISH & INSTALL
327 LF OF 16" PVC DR 25 WM

STA. 308+41.92, 25.52' LT
FURNISH & INSTALL
(1) 16"x6" D.I. M.J. TEE (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. 90° BEND (REST.)
(1) FIRE HYDRANT
7 LF OF 6" PVC DR 18 WM
NOTE: FIRE HYDRANT TO BE INSTALLED AT STA. 308+41.92, 32.24' LT

EXIST. R/W LINE

4.5'

YULEE HIGH SCOOL

0 5 20
Feet

MATCH LINE STA. 103+00.00

REMOVE EXIST. CAP
CONNECT TO EXIST. 16" FM
TO REMAIN

PROP. 15" STORM PIPE

HORIZONTAL DEFLECTION
STA. 305+69.12, 32.34' LT

HORIZONTAL DEFLECTION
STA. 306+32.15, 44.15' LT

HORIZONTAL DEFLECTION
STA. 306+50.78, 35.56' LT

REMOVE EXIST. CAP
CONNECT TO EXIST. 16" RM
TO REMAIN

CL CONST. WILLIAM BURGESS BLVD.

POT STA. 103+45.40

N 22° 56' 01" W

CL CONST. MINER RD.

MINER RD.

PROP. 15" STORM PIPE

STA. 306+74.90, 25.57' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 22.50° BEND (REST.)

EXIST. 18" STORM TO REMAIN

EXIST. POWER POLE TO REMAIN

VVH 2-7

EXIST. 12" GAS MAIN TO REMAIN

EXIST. 2" GAS MAIN TO REMAIN

EXIST. POWER POLE TO REMAIN

EXIST. R/W LINE

EXIST. R/W LINE

EXIST. POWER POLE TO REMAIN

EXIST. R/W LINE

1 EXIST. 18" STORM TO BE REMOVED

2 FURNISH & INSTALL
73 LF OF 16" DR 25 FM

3 FURNISH & INSTALL
151 LF OF 16" DR 25 FM

4 FURNISH & INSTALL
146 LF OF 16" DR 25 RM

5 PROP. 18" STORM PIPE

6 STA. 306+02.20, 44.85' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 45° BEND UP (REST.)

7 STA. 306+07.53, 32.34' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 45° BEND UP (REST.)

MATCH LINE STA. 309+20.00

SUMMARY OF VERIFIED UTILITIES

VVH #	UTILITY DESCRIPTION (OWNER, TYPE)	SIZE	MATERIALS	CL CONST. WILLIAM BURGESS BLVD.			EXISTING GROUND ELEVATION	TOP ELEVATION
				STATION	OFFSET	LT/RT		
2-7	GM, TECO	12"	STEEL	305+98.60	30.08'	RT	22.83	18.47

DEFLECT PROPOSED 16" PVC DR 25 WM AS NEEDED TO MAINTAIN 36" OF GROUND COVER
MAXIMUM JOINT DEFLECTION = 80% OF PIPE MANUFACTURER'S RECOMMENDATION

SCALE
1" = 20' HORIZONTAL
1" = 4' VERTICAL

FURNISH & INSTALL
(1) 16" D.I. M.J. 22.50° BEND (REST.)

FURNISH & INSTALL
(1) 16" D.I. M.J. 45° BEND (REST.)

FURNISH & INSTALL
(1) 16" D.I. M.J. 45° BEND (REST.)

PROPOSED GROUND @
CL 16" PVC DR 25 WM

EXIST. 18" STORM PIPE TO REMAIN
INV. EL. = 17.73
BOT. EL. = 17.37

EXIST. 18" STORM PIPE TO REMAIN
INV. EL. = 19.94
BOT. EL. = 19.73

FURNISH & INSTALL
(1) 16" D.I. M.J. 45° BEND (REST.)

FURNISH & INSTALL
(1) 16" D.I. M.J. 45° BEND (REST.)

EXISTING GROUND @
CL 16" PVC DR 25 WM

FURNISH & INSTALL
(1) 16" D.I. M.J. GATE VALVE (REST.)

FURNISH & INSTALL
(1) 16"X6" D.I. M.J. TEE (REST.)

PROP. 18" STORM PIPE
INV. EL. = 19.83
BOT. EL. = 17.61

36" MIN. COVER

12" MIN.

16" PVC DR 25 WM

16" PVC DR 25 FM

FURNISH & INSTALL
(1) 16" D.I. M.J. CAP (REST.)

1 HORIZONTAL DEFLECTION SEE PLAN

2 FURNISH & INSTALL
(1) 16" D.I. M.J. 22.50° BEND (REST.)

3 FURNISH & INSTALL
(1) 16" D.I. M.J. 11.25° BEND (REST.)

4 FURNISH & INSTALL
(1) 16" D.I. M.J. 45° BEND (REST.)

36 32 28 24 20 16 12

305+00.00 306+00.00 307+00.00 308+00.00 309+00.00

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Jacksonville, Florida 32258
904-363-1116

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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNED: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KM
DATE: 10/24/2023

JEA
Building Community

WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 26
DRAWING NO. WM-22

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YULEE HIGH SCOOL

STA. 309+40.00, 25.50' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 22.50° BEND (REST.)

STA. 309+67.29, 36.79' LT
FURNISH & INSTALL
(1) 16" D.I. M.J. 22.50° BEND (REST.)

ALL PIPE JOINTS WITHIN ROADWAY CROSSING
(EOP TO EOP)
TO BE RESTRAINED

EXIST. R/W LINE

FURNISH & INSTALL
463 LF OF 16" PVC DR 25 WM

STA. 313+41.92, 36.69' LT
FURNISH & INSTALL
(1) 16"x6" D.I. M.J. TEE (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. GATE VALVE (REST.)
(1) 6" D.I. M.J. 90° BEND (REST.)
(1) FIRE HYDRANT
7 LF OF 6" PVC DR 18 WM
NOTE: FIRE HYDRANT TO BE
INSTALLED AT STA.
313+41.92, 30.00' LT

4.5'

6.8'

CL CONST. MINER RD.

310 311 N 22° 56' 01" W 312 313

MINER RD.

MATCH LINE STA. 309+20.00

MATCH LINE STA. 313+80.00

EXIST. POWER POLE
TO REMAIN

EXIST. POWER POLE
TO REMAIN

EXIST. POWER POLE
TO REMAIN

EXIST. R/W LINE

EXIST. POWER POLE
TO REMAIN

EXIST. POWER POLE
TO REMAIN

N

0 5 20
Feet

36
32
28
24
20
16
12

FURNISH & INSTALL
(1) 16" D.I. M.J. 22.50° BEND (REST.)

EXISTING GROUND @
CL 16" PVC DR 25 WM

FURNISH & INSTALL
(1) 16"X6" D.I. M.J. TEE (REST.)

FURNISH & INSTALL
(1) 16" D.I. M.J. GATE VALVE (REST.)

36" MIN. COVER

16" PVC DR 25 WM

FURNISH & INSTALL
(1) 16" D.I. M.J. 22.50° BEND (REST.)

DEFLECT PROPOSED 16" PVC DR 25 WM AS NEEDED TO MAINTAIN 36" OF GROUND COVER
MAXIMUM JOINT DEFLECTION = 80% OF PIPE MANUFACTURER'S RECOMMENDATION

SCALE
1' = 20' HORIZONTAL
1" = 4' VERTICAL

310+00.00 311+00.00 312+00.00 313+00.00

gai consultants
12574 Flagler Center Blvd., Suite 202
Jacksonville, Florida 32258
904-363-1116
EB9951

NO.	BY	DATE	REVISIONS
6.			
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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KM
DATE: 10/24/2023

JEA
Building Community

WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 27
DRAWING NO. WM-23

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SUMMARY OF VERIFIED UTILITIES								
VVH #	UTILITY DESCRIPTION (OWNER, TYPE)	SIZE	MATERIALS	CL CONST. WILLIAM BURGESS BLVD.			EXISTING GROUND ELEVATION	TOP ELEVATION
				STATION	OFFSET	LT/RT		
4BLUE	WM, JEA	10"	PVC	317+70.00	23.84'	LT	25.31	20.35

YULEE HIGH SCOOL

MATCH LINE STA. 313+80.00

STA. 317+48.74, 35.11' LT
FURNISH & INSTALL
(1) 16"X10" D.I. M.J. TEE (REST.)
(1) 16" D.I. M.J. GATE VALVE (REST.)
(1) 16" D.I. M.J. CAP (REST.)
(1) 10" D.I. M.J. 90° BEND (REST.)
(1) TEMPORARY SAMPLE TAP #10
20 LF OF 10" PVC DR 18 WM

FURNISH & INSTALL
392 LF OF 16" PVC DR 25 WM

EXIST. R/W LINE

HORIZONTAL DEFLECTION
STA. 317+08.87, 35.09' LT

HORIZONTAL DEFLECTION
STA. 316+74.16, 36.61' LT

ADJUST VALVE TOP
TO PROPOSED GRADE

EXIST. 10" PVC WM
TO REMAIN

6.7'

5.1'

VVH 4 BLUE

CL CONST. MINER RD.

314 315 316 317 318

N 22° 56' 01" W

MINER RD.

CONNECT TO EXIST
10" GATE VALVE
TO REMAIN

EXIST. POWER POLE
TO REMAIN

EXIST. POWER POLE
TO REMAIN

EXIST. R/W LINE

EXIST. POWER POLE
TO REMAIN

EXIST. POWER POLE
TO REMAIN

ADJUST MANHOLE TOP
TO PROPOSED GRADE

EXIST. 16" SANITARY FORCE MAIN
TO REMAIN

END PROJECT
STA. 317+71.51 CL CONST. MINER RD.

0 5 20
Feet

36 32 28 24 20 16 12

END PROJECT
STA. 317+71.51 CL CONST. MINER RD.

FURNISH & INSTALL
(1) 16"X6" D.I. M.J. TEE (REST.)

FURNISH & INSTALL
D.I. M.J. GATE VALVE (REST.)

EXISTING GROUND @
CL 16" PVC DR 25 WM

HORIZONTAL DEFLECTION
(SEE PLAN)

HORIZONTAL DEFLECTION
(SEE PLAN)

36" MIN. COVER

16" PVC DR 25 WM

FURNISH & INSTALL
(1) 16" D.I. M.J. CAP (REST.)

FURNISH & INSTALL
(1) 16"x10" D.I. M.J. TEE (REST.)

VVH #4BLUE
TOP EL. 20.35

FURNISH & INSTALL
(1) 16" D.I. M.J. GATE VALVE (REST.)

SCALE
1" = 20' HORIZONTAL
1" = 4' VERTICAL

DEFLECT PROPOSED 16" PVC DR 25 WM AS NEEDED TO MAINTAIN 36" OF GROUND COVER
MAXIMUM JOINT DEFLECTION = 80% OF PIPE MANUFACTURER'S RECOMMENDATION

SCALE
1" = 20' HORIZONTAL
1" = 4' VERTICAL

314+00.00 315+00.00 316+00.00 317+00.00 318+00.00

gai consultants
12574 Flagler Center Blvd., Suite 202
Jacksonville, Florida 32258
904-363-1116
EB9951

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNED BY: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KM
DATE: 10/24/2023

JEA Building Community

WATER AND SEWER PLAN/PROFILE
WILLIAM BURGESS BLVD.

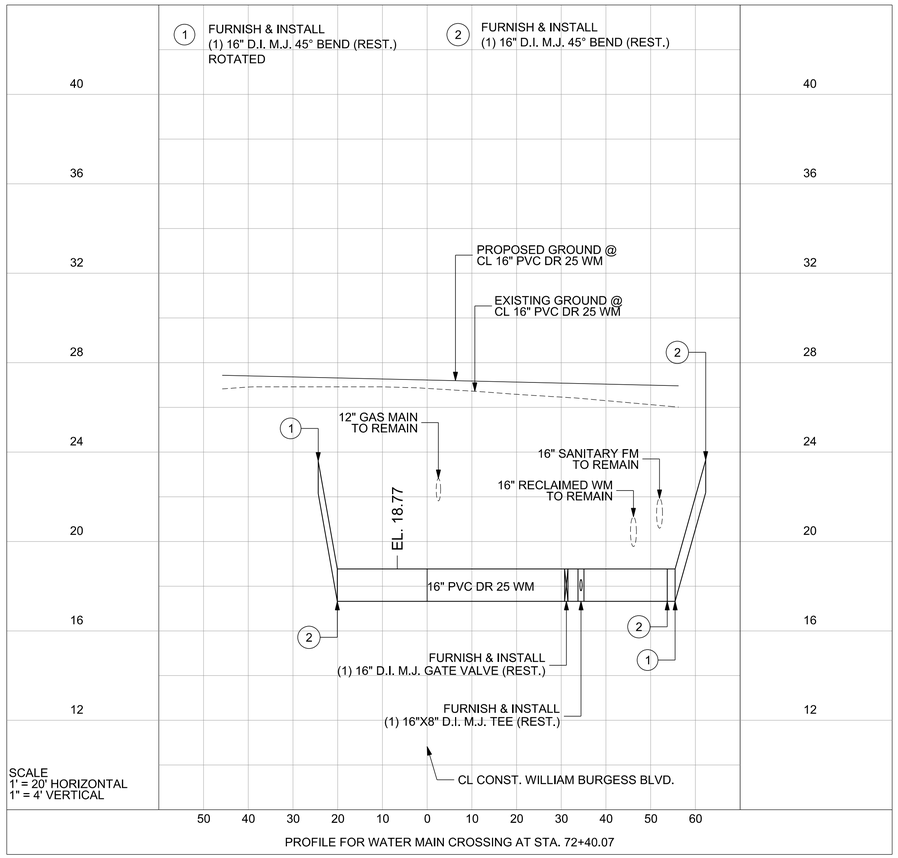
PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 28
DRAWING NO. WM-24

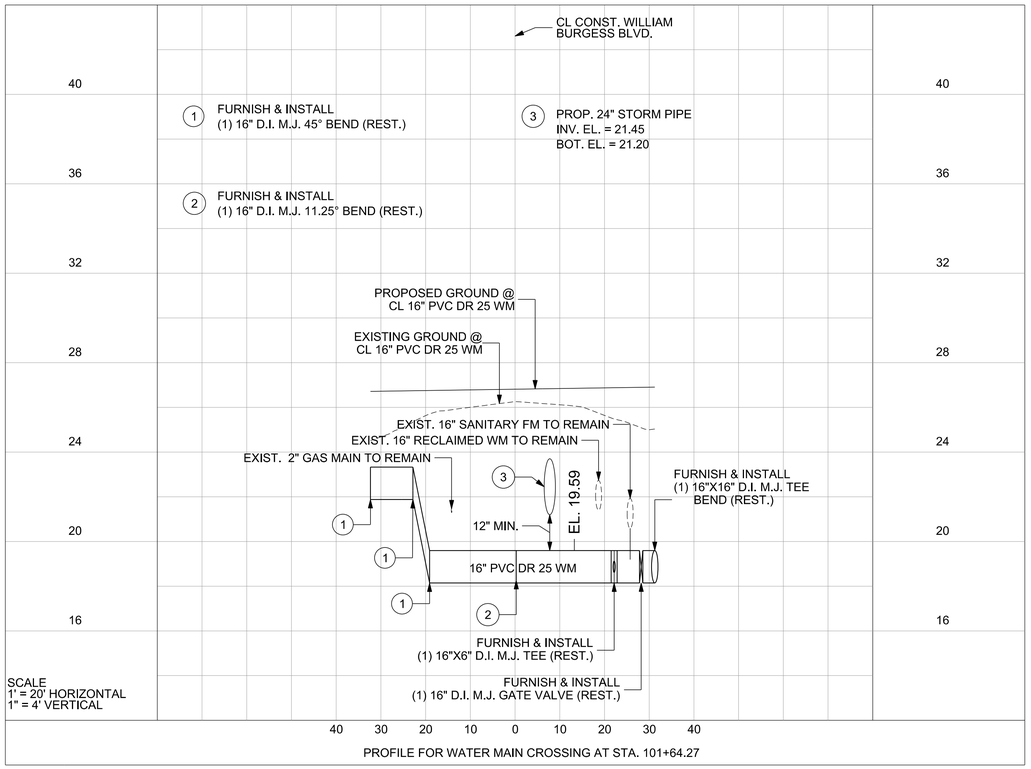
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PROFILE FOR WATER MAIN CROSSING AT STA. 72+40.07



PROFILE FOR WATER MAIN CROSSING AT STA. 101+64.27

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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

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WATER MAIN CROSSING PROFILES
WILLIAM BURGESS BLVD.

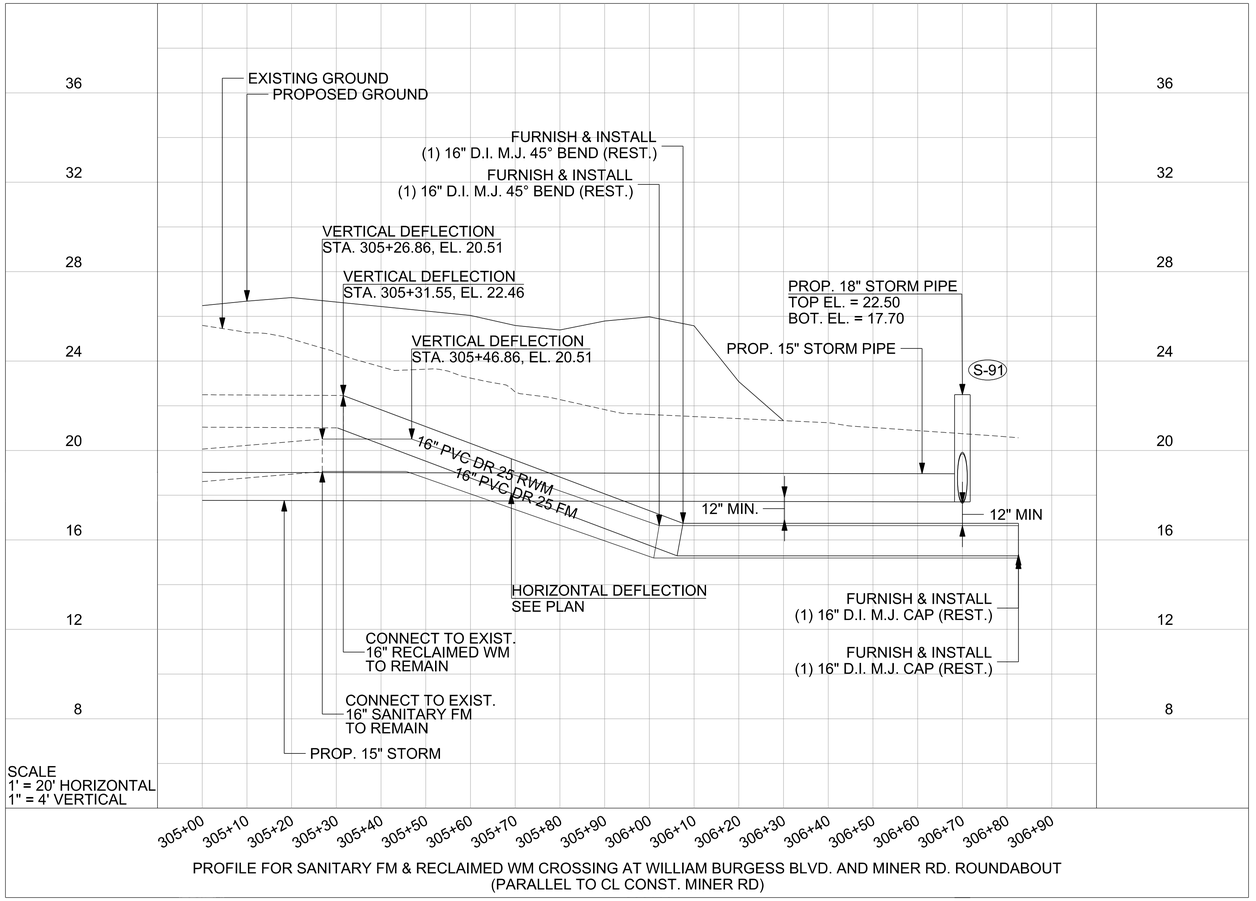
NO. SHEETS 43
SHEET NO. 29
DRAWING NO. DET-1

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

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PROFILE FOR SANITARY FM & RECLAIMED WM CROSSING AT WILLIAM BURGESS BLVD. AND MINER RD. ROUNDABOUT
(PARALLEL TO CL CONST. MINER RD)

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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

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WATER MAIN CROSSING PROFILES
WILLIAM BURGESS BLVD.

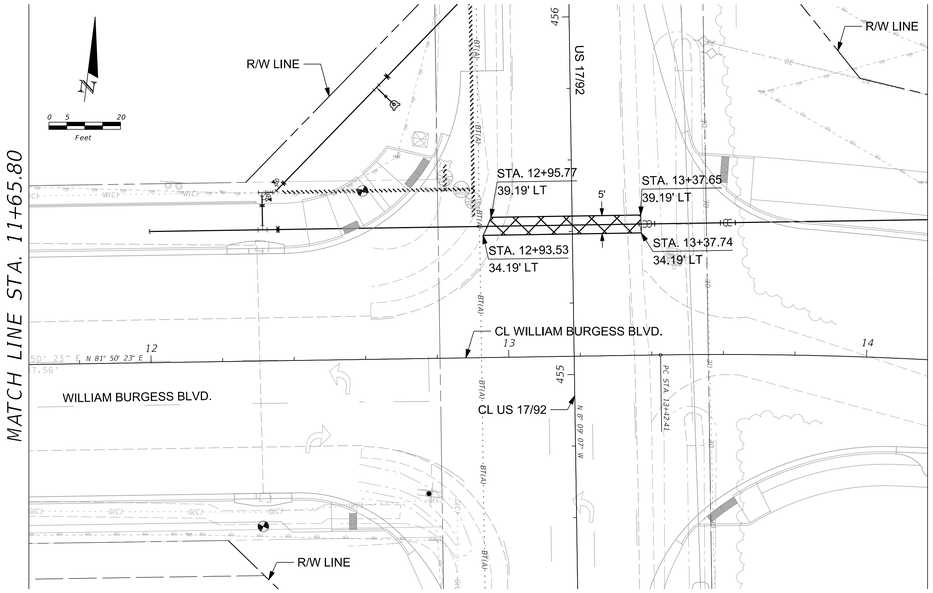
NO. SHEETS 43
SHEET NO. 30
DRAWING NO. DET-2
PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

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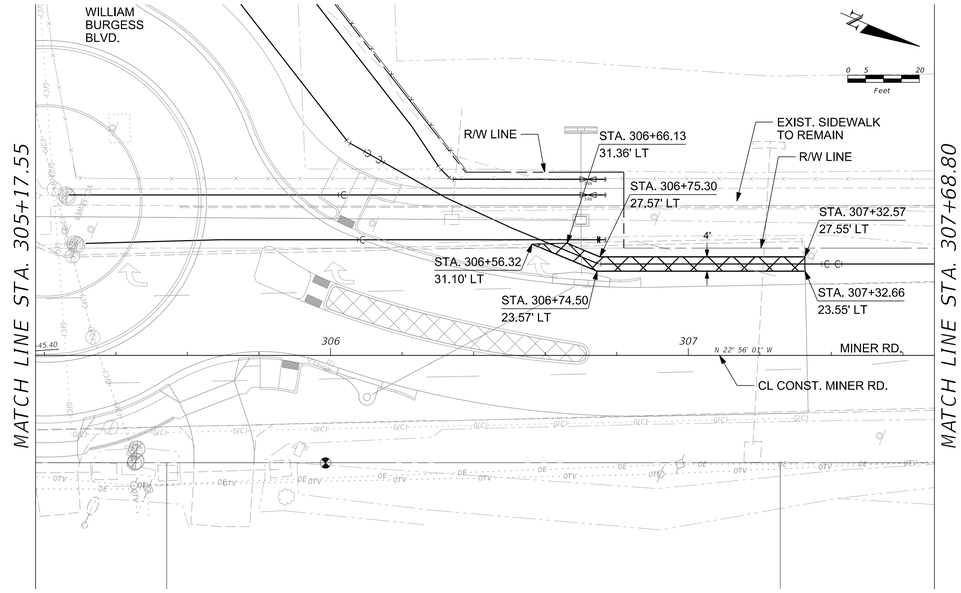
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PAVEMENT RECONSTRUCTION
TYPE SP-12.5 STRUCTURAL COURSE
(TRAFFIC B) (1-1/2")
OPTIONAL BASE GROUP 9
12" TYPE B STABILIZATION

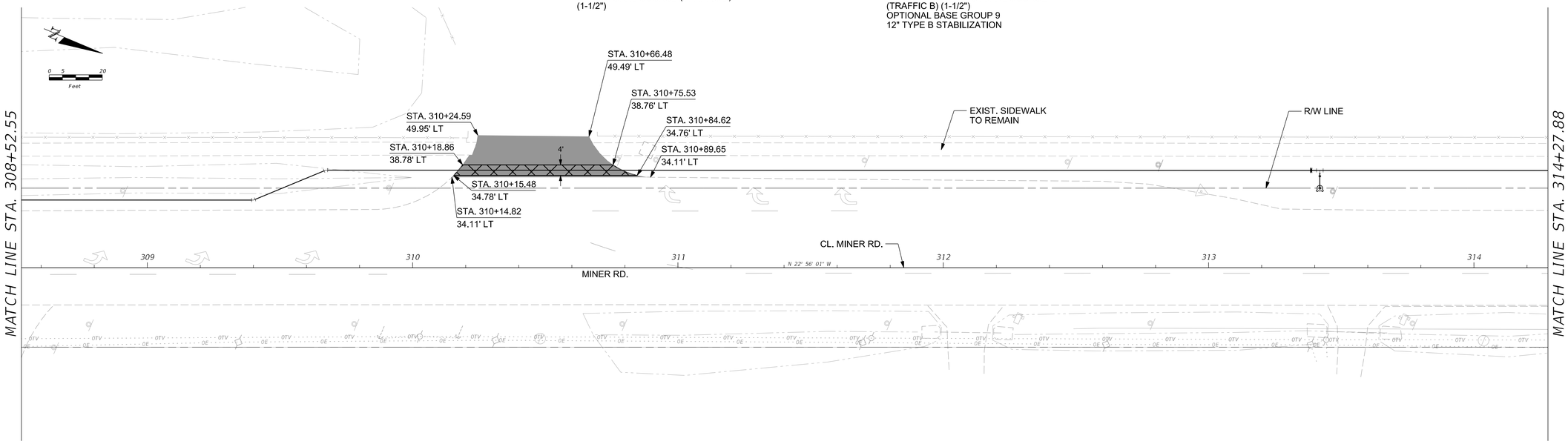


PAVEMENT RECONSTRUCTION
TYPE SP-12.5 STRUCTURAL COURSE
(TRAFFIC B) (1-1/2")
OPTIONAL BASE GROUP 9
12" TYPE B STABILIZATION



MILLING & RESURFACING WITH TYPE SP-12.5
STRUCTURAL COURSE (TRAFFIC B)
(1-1/2")

PAVEMENT RECONSTRUCTION
TYPE SP-12.5 STRUCTURAL COURSE
(TRAFFIC B) (1-1/2")
OPTIONAL BASE GROUP 9
12" TYPE B STABILIZATION



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DESIGN ENGINEER: MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO. 74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

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ROADWAY RECONSTRUCTION PLAN
WILLIAM BURGESS BLVD.

NO. SHEETS 43
SHEET NO. 31
DRAWING NO. R-1

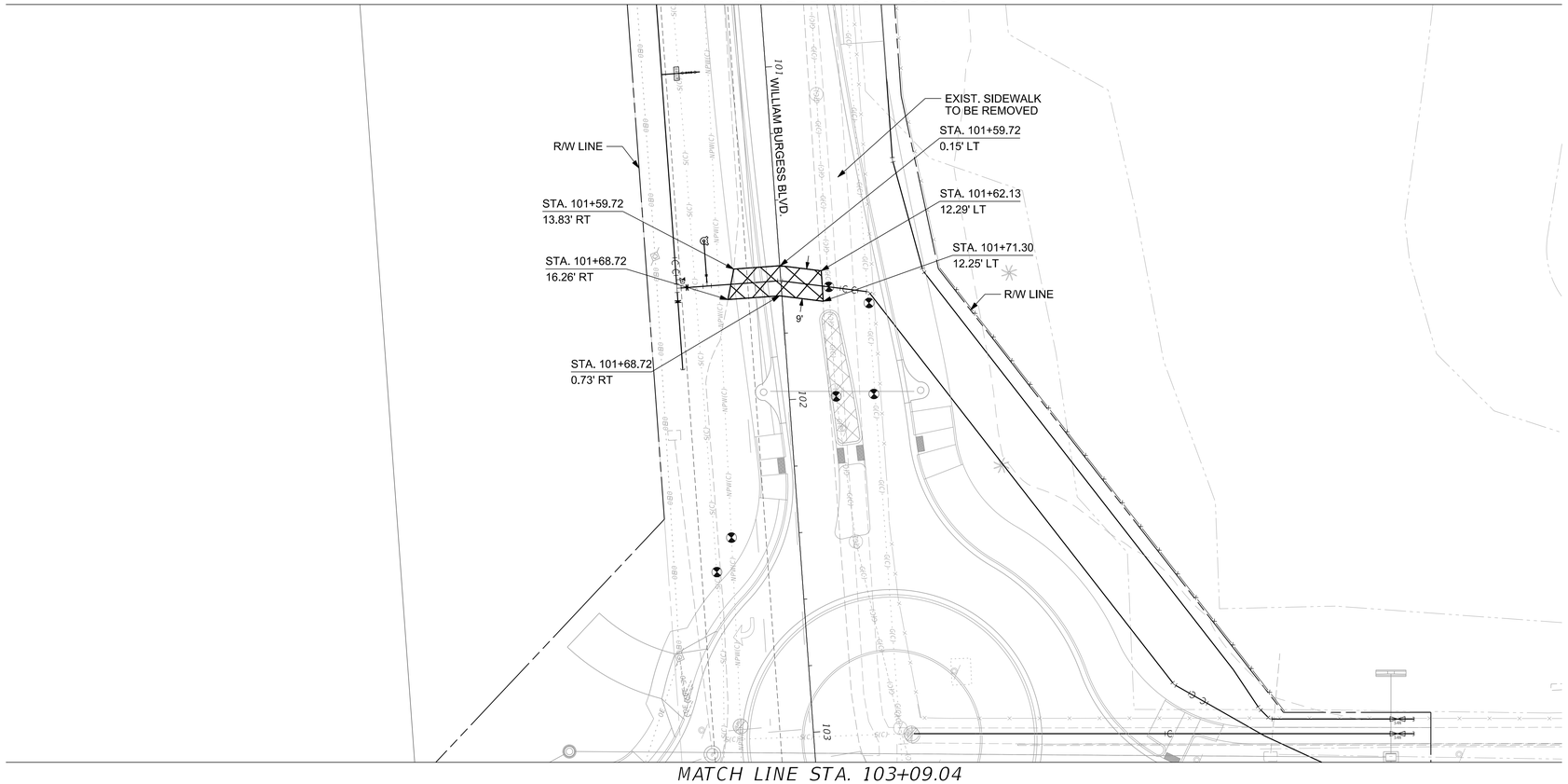
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MATCH LINE STA. 100+81.18



MATCH LINE STA. 103+09.04

PAVEMENT RECONSTRUCTION
TYPE SP-12.5 STRUCTURAL COURSE
(TRAFFIC B) (1-1/2")
OPTIONAL BASE GROUP 9
12" TYPE B STABILIZATION

N

0 5 20
Feet

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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

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ROADWAY RECONSTRUCTION PLAN
WILLIAM BURGESS BLVD.

NO. SHEETS 43
SHEET NO. 32
DRAWING NO. R-2

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

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HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

PROPOSED UTILITY

CONFLICTING UTILITY	POTABLE WATER			WASTEWATER GRAVITY AND FORCE MAIN			RECLAIMED WATER			VACUUM SEWERS		
	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*
POTABLE WATER	3' NOTE 1	12"	3' NOTE 2	6' to 10'	12" NOTE 5	6' NOTE 2	3'	12"	6' NOTE 2	3' to 10'	12"	3' NOTE 2
RECLAIMED WATER	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2
WASTEWATER (GRAVITY AND FORCE MAIN)	6' to 10'	12"	6' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
VACUUM SEWERS	3' to 10'	12"	3' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
RIGHT OF WAYS	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A
PERMANENT STRUCTURES (SIGNS, POLES, ETC.)	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A
STORM SEWERS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
GAS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
TREES	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A
ALL OTHER UTILITIES	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2

NOTES:

1. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTH, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
2. THE MINIMUM JOINT SPACING REQUIRED FROM CROSSING FROM OTHER UTILITIES WHILE STILL MAINTAINING MINIMUM VERTICAL SEPARATION.
3. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
4. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURES.
5. WATER MAIN SHOULD CROSS ABOVE OTHER PIPES WHENEVER POSSIBLE. WHEN WATER MAIN MUST BE BELOW OTHER UTILITY PIPING, THE MINIMUM SEPARATION SHALL BE 12 INCHES.
6. REFER TO POTABLE WATER PIPING- SECTION 350, III.4.11.

SEPARATION REQUIREMENTS FOR WATER, WASTEWATER AND RECLAIMED WATER MAINS

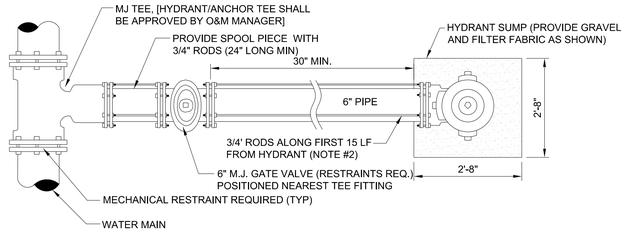
JANUARY 2022 PLATE W-10

WATER MAIN AND NON-WATER MAIN SEPARATION REQUIREMENTS - NOTES

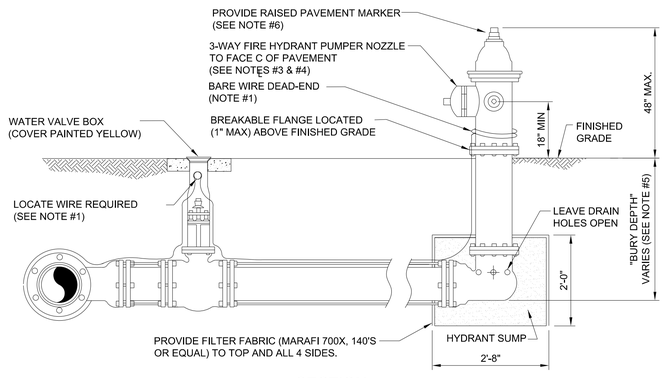
1. IT IS REQUIRED THAT "WATER MAINS" BE INSTALLED, CLEANED, DISINFECTED AND HAVE A SATISFACTORY BACTERIOLOGICAL SURVEY PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS, CHAPTER 62-555, F.A.C. AND LATEST JEA WATER AND SEWER STANDARDS. FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTIALLY TREATED, OR FINISHED DRINKING WATER; FIRE HYDRANT LEADS; AND SERVICE LINES THAT HAVE AN INSIDE DIAMETER OF THREE (3) INCHES OR GREATER. IN ADDITION, THE PHRASE "RECLAIMED WATER" REFERS TO THE WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
2. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER.
3. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS MAY BE REDUCED TO THREE (3) FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE SEWER (SPECIAL CASE).
4. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLE TWELVE (12) INCHES, ABOVE OR AT LEAST TWELVE (12) INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
5. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS A LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
6. AT THE UTILITY CROSSINGS DESCRIBED IN NOTES 4 AND 5 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE (3) FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINE CONVEYING RECLAIMED WATER.
7. NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SO THAT THE HYDRANTS ARE AT LEAST THREE (3) FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER; AT LEAST THREE (3) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER OR WASTEWATER FORCE MAIN.
8. WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE, THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER TO OBTAIN APPROVAL OF ANY ALTERNATIVE CONSTRUCTION METHODS, PRIOR TO CONSTRUCTION.

NOTES ON UTILITY SEPARATION REQUIREMENTS

JANUARY 2022 PLATE W-11



PLAN



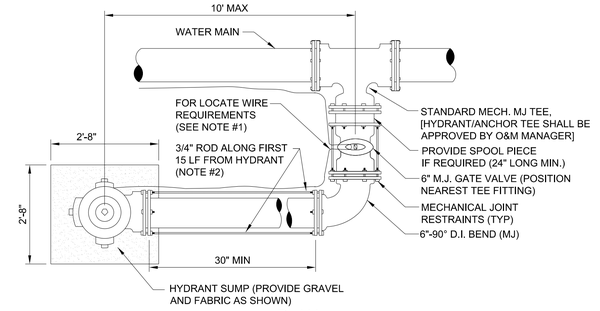
SECTION

NOTES:

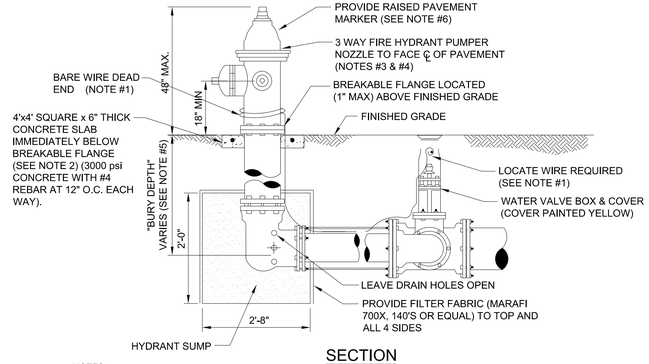
1. LOCATE WIRE SHALL BE ROUTED FROM THE VALVE TO THE HYDRANT AS SHOWN ABOVE LEAVING ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE. THE END OF THE WIRE SHALL BE SECURED TO THE PIPE MAIN. SEE SECTION 350, LOCATE WIRE INSTALLATION PARAGRAPH.
2. FIRE HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK AND NOT WITHIN SWALE/DITCH AREAS. THE DISTANCE RANGE FROM EDGE OF ADJACENT PAVEMENT, BACK OF CURB AND FACE OF SIDEWALK SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA AND APPLICABLE PERMITTING AGENCIES. DISTANCE SHALL BE MEASURED TO THE CLOSEST PART OF THE FIRE HYDRANT (I.E. THE PUMPER NOZZLE). THE MAXIMUM DISTANCE (BACK OF CURB) SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA. FOR OTHER LOCATION LIMITATIONS SEE PLATES W-10 AND W-11. IF PIPING BETWEEN TEE AND HYDRANT IS LONGER THAN 80 LF, AN ADDITIONAL 6" GATE VALVE IS REQUIRED AT THE HYDRANT LOCATION (PROVIDE 30" SEPARATION), ALL PIPING, VALVES AND FITTINGS ALONG THE HYDRANT BRANCH MAIN WHICH IS WITHIN 15 LF OF THE HYDRANT SHALL BE RESTRAINED UTILIZING ONLY TWO 3/4" DIA (THREADED ENDS) STEEL RODS AND EYE BOLTS (NO JOINT RESTRAINT DEVICES REQUIRED). A SPLIT SERRATED RING WITH RESTRAINT EARS (EBAA 15 PF06 or EQUAL) MAYBE USED IN THIS ASSEMBLY. ALL OTHER JOINTS ALONG THE HYDRANT BRANCH MAIN OUTSIDE OF THE FIRST 15 LF SHALL INCLUDE JOINT RESTRAINTS.
3. OPERATION OF THE FIRE HYDRANT SHALL BE EITHER FULL OPEN POSITION OR TOTALLY CLOSED POSITION. THE HYDRANT SHALL NOT BE UTILIZED TO THROTTLE OUTLET FLOW.
4. PRIOR TO PROJECT FINAL INSPECTION, THE HYDRANT AND ALL ABOVE GROUND PIPING SHALL BE RE-OILED, GREASED AND REPAINTED (RUS- KIL ENAMEL-INTERNATIONAL YELLOW OR EQUAL). PRIVATELY OWNED AND MAINTAINED FIRE HYDRANTS SHALL BE PAINTED RED.
5. FIRE HYDRANTS SHALL BE ORDERED WITH PROPER "BURY DEPTH" TO MEET ACTUAL FIELD CONDITIONS. THIS IS ESPECIALLY IMPORTANT FOR BRANCH LINES WHICH TEE-OFF A 12" OR LARGER WATER MAIN. UNLESS APPROVED OTHERWISE BY JEA, THE INSTALLATION OF (45°) BENDS IS NOT ACCEPTABLE WHEN UTILIZED TO CORRECT AN IMPROPERLY FURNISHED HYDRANT. THE USE OF HYDRANT EXTENSIONS SHOULD BE MINIMIZED.
6. BLUE REFLECTIVE MARKERS SHALL BE INSTALLED IN SUCH A MANNER THAT THE REFLECTIVE FACE OF THE MARKER IS PERPENDICULAR TO A LINE PARALLEL TO THE ROADWAY CENTERLINE. THE BLUE REFLECTIVE MARKERS SHALL BE PLACED IN THE CENTER OF THE TRAVEL LANE, DIRECTLY ACROSS FROM AND ADJACENT TO EACH FIRE HYDRANT.

FIRE HYDRANT INSTALLATION USING MECHANICAL JOINT TEE

JANUARY 2022 PLATE W-13



PLAN



SECTION

NOTES:

1. LOCATE WIRE SHALL BE ROUTED FROM THE VALVE TO THE HYDRANT AS SHOWN ABOVE LEAVING ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE. THE END OF THE WIRE SHALL BE SECURED TO THE PIPE MAIN. SEE SECTION 350, LOCATE WIRE INSTALLATION PARAGRAPH.
2. FIRE HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK. ALL HYDRANTS SHALL BE LOCATED NO LESS THAN THREE (3) FEET FROM THE EDGE OF PAVEMENT OR BACK OF CURB OF THE ADJACENT ROADWAY AND NO LESS THAN THREE (3) FEET FROM ANY PHYSICAL FEATURE WHICH MAY OBSTRUCT ACCESS OR VIEW OF ANY HYDRANT UNLESS OTHERWISE APPROVED BY THE JEA. THE MAXIMUM DISTANCE (BACK OF CURB) SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA. FOR OTHER LOCATION LIMITATIONS SEE PLATES W-10 AND W-11. IF PIPING BETWEEN TEE AND HYDRANT IS LONGER THAN 80 LF, AN ADDITIONAL 6" GATE VALVE IS REQUIRED AT THE HYDRANT LOCATION (PROVIDE 30" SEPARATION), ALL PIPING, VALVES AND FITTINGS ALONG THE HYDRANT BRANCH MAIN WHICH IS WITHIN 15 LF OF THE HYDRANT SHALL BE RESTRAINED UTILIZING ONLY TWO 3/4" DIA (THREADED ENDS) STEEL RODS AND EYE BOLTS (NO JOINT RESTRAINT DEVICES REQUIRED). A SPLIT SERRATED RING WITH RESTRAINT EARS (EBAA 15 PF06 or EQUAL) MAYBE USED IN THIS ASSEMBLY. ALL OTHER JOINTS ALONG THE HYDRANT BRANCH MAIN OUTSIDE OF THE FIRST 15 LF SHALL INCLUDE JOINT RESTRAINTS.
3. OPERATION OF THE FIRE HYDRANT SHALL BE EITHER FULL OPEN POSITION OR TOTALLY CLOSED POSITION. THE HYDRANT SHALL NOT BE UTILIZED TO THROTTLE OUTLET FLOW.
4. PRIOR TO PROJECT FINAL INSPECTION, THE HYDRANT AND ALL ABOVE GROUND PIPING SHALL BE RE-OILED, GREASED AND REPAINTED (RUS- KIL ENAMEL-INTERNATIONAL YELLOW OR EQUAL). PRIVATELY OWNED AND MAINTAINED FIRE HYDRANTS SHALL BE PAINTED RED.
5. FIRE HYDRANTS SHALL BE ORDERED WITH PROPER "BURY DEPTH" TO MEET ACTUAL FIELD CONDITIONS. THIS IS ESPECIALLY IMPORTANT FOR BRANCH LINES WHICH TEE-OFF A 12" OR LARGER WATER MAIN. UNLESS APPROVED OTHERWISE BY JEA, THE INSTALLATION OF (45°) BENDS IS NOT ACCEPTABLE WHEN UTILIZED TO CORRECT AN IMPROPERLY FURNISHED HYDRANT. THE USE OF HYDRANT EXTENSIONS SHOULD BE MINIMIZED.
6. BLUE REFLECTIVE MARKERS SHALL BE INSTALLED IN SUCH A MANNER THAT THE REFLECTIVE FACE OF THE MARKER IS PERPENDICULAR TO A LINE PARALLEL TO THE ROADWAY CENTERLINE. THE BLUE REFLECTIVE MARKERS SHALL BE PLACED IN THE CENTER OF THE TRAVEL LANE, DIRECTLY ACROSS FROM AND ADJACENT TO EACH FIRE HYDRANT.

FIRE HYDRANT INSTALLATION LIMITED SPACE

JANUARY 2022 PLATE W-14

gai consultants
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EB9951

REVISIONS

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DESIGN ENGINEER: MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO. 74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

JEA
Building Community

JEA WATER MAIN DETAILS

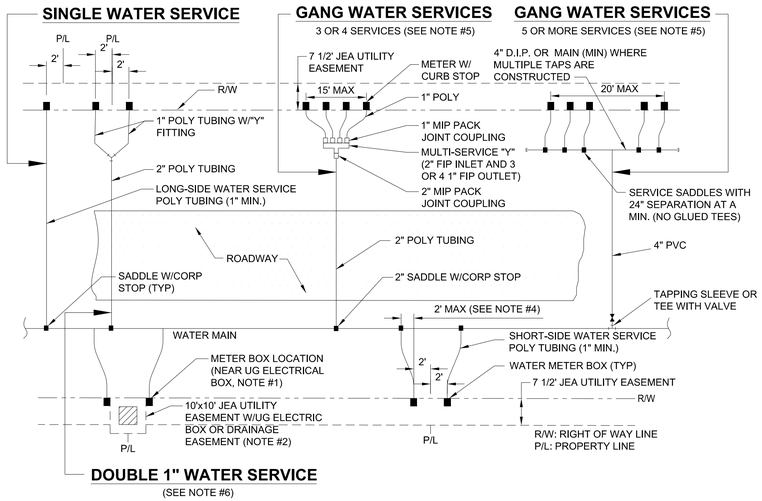
NO. SHEETS 43
SHEET NO. 33
DRAWING NO. DET-3
PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

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A LOCATE WIRE SHALL BE PLACED ON SERVICES 10FT OR GREATER.



DOUBLE 1" WATER SERVICE

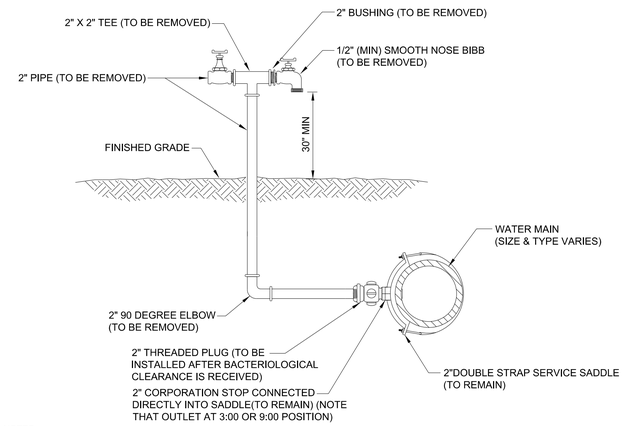
(SEE NOTE #6)

NOTES :

1. THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS. ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. TYPICALLY, THE METER BOX SHALL LOCATED AT THE R/W LINE BUT INSIDE THE 7 1/2' ELECTRIC EASEMENT.
2. UNLESS SPECIFIED OTHERWISE BY THE APPLICABLE COUNTY (NASSAU, CLAY OR ST. JOHNS COUNTY), THE METER BOX SHALL BE LOCATED IN THE JEA 7 1/2' UTILITY EASEMENT, AND TWO FEET INSIDE OF THE PROLONGATION OF ONE OF THE SIDE PROPERTY LINES. IF A CONFLICT EXISTS WITH OTHER UTILITIES, THE METER BOX MAY BE ADJUSTED TO FOUR FEET (MAX.) INSIDE PROPERTY LINES (IN LIEU OF TWO FEET). UNLESS APPROVED OTHERWISE BY JEA, THE WATER METER BOX SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN SIDEWALKS OR DRIVEWAYS), IF THE METER BOX IS APPROVED BY JEA TO BE LOCATED IN A DRIVEWAY OR SIDEWALK, THEN THE CONSTRUCTION SHALL MEET STANDARD DETAIL NUMBERS W-3&4, AT A MINIMUM (SEE W-3 AND W-4 FOR THE REQUIREMENTS OF SPECIAL ORDER POLYMER BOX AND TOP) . SET TOP OF BOX AT FINISHED GRADE. IF AN UNAPPROVED METER BOX IS IDENTIFIED BY JEA, THEN THE CONTRACTOR OR CUSTOMER SHALL BE RESPONSIBLE FOR THE COST OF RELOCATING ANY METER BOX WHICH IS LOCATED IN THE SIDEWALK OR DRIVEWAY OR THE COST TO PROVIDE THE CORRECT METER BOX. JEA SHALL APPROVE ALL DEVIATIONS TO THE ABOVE PRIOR TO CONSTRUCTION.
3. IF DRAINAGE OR OTHER EASEMENT LOCATED BETWEEN LOTS, METER BOXES SHALL BE LOCATED AT THE EASEMENT LINE BUT OUTSIDE THE EASEMENT AREA.
4. FOR SINGLE SERVICES, THE HORIZONTAL DISTANCE (PERPENDICULAR TO THE MAIN)BETWEEN THE SERVICES SADDLE AND THE METER BOX SHALL BE 2 FEET MAXIMUM. FOR DOUBLE 1" SERVICES, THE 2" POLY MAIN SHALL BE LOCATED CENTERED BETWEEN THE TWO METER BOXES. LOCATE WIRE IS REQUIRED ON ALL SERVICES 10' OR GREATER IN LENGTH. IF LOCATE WIRE IS REQUIRED, THE WIRE SHALL RUN FROM THE METER BOX (W/ PIG TAIL) TO THE MAIN (DEAD END SHALL BE TAPED WITH NO CONNECTION TO MAIN WIRE WITH THE LAST 24 INCHES STRIPED OF INSULATION/BARE WIRE AS GROUND). ALL EXCEPTIONS TO THIS REQUIREMENT MUST BE APPROVED BY JEA. THIS WILL ASSIST IN LOCATING EXISTING SERVICE LINES IN THE FUTURE.
5. GANG WATER SERVICES: FOR 3 OR 4 SERVICES IN ONE AREA, A DUCTICLE IRON PIPE (D.I.P.) WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG SIDE SERVICES WHERE SHOWN ON THE DRAWINGS. LOCATE WIRE SHALL EXTEND FROM ONE METER BOX TO CORP STOP AT WATER MAIN. FOR 5 OR MORE SERVICES IN ONE AREA, A WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG SIDE SERVICES WHERE SHOWN ON THE DRAWINGS (TAPS STAGGERED AND AT 2 FEET ON CENTER-MIN). FOR WATER SUPPLY HEADERS WHERE 5 OR MORE TAPS ARE CONSTRUCTED, THE HEADER PIPE SHALL BE 4" AT A MINIMUM. EXAMPLE: CONSTRUCT A 4" MAIN PVC CROSSING THE STREET FOR 5 RESIDENTIAL CUSTOMERS, UTILIZING 4" DIP, 4" PIPE, 4"X1" SADDLES AND 1" CORP STOPS (NO GLUED TEE FITTINGS). THE 4" OR LARGER D.I.P. WATER MAIN MUST BE SIZED AND DESIGNED BY THE P.E. ENGINEER.
6. DOUBLE 1" WATER SERVICES IS ALLOWED FOR SHORT SIDE OR LONG SIDE SERVICES AND WHERE SHOWN ON THE DRAWINGS.
7. A 1" IRRIGATION SERVICE MAYBE TAPPED INTO THE (1" MIN) DOMESTIC WATER SERVICE LINE (WHICH SERVES THE SAME CUSTOMER) UTILIZING A 1" BRONZE "Y" FITTING. (IN AREAS WHERE NO RECLAIMED WATER IS AVAILABLE).
8. No 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
9. RECLAIMED WATER METER BOXES OR SERVICES SHALL BE CONSTRUCTED SIMILAR TO THE ABOVE AND SHALL BE LOCATED, AT A MIN. OF 10' FROM THE POTABLE WATER SERVICE, AND/OR BOX AND NOT ALLOWED IN CONCRETE OR ASPHALT UNLESS APPROVED OTHERWISE BY JEA.
10. SERVICE SIZE SHALL BE SAME AS THE METER SIZE.

WATER OR RECLAIM SERVICE INSTALLATIONS 2" AND SMALLER METER

JANUARY 2022 PLATE W-1

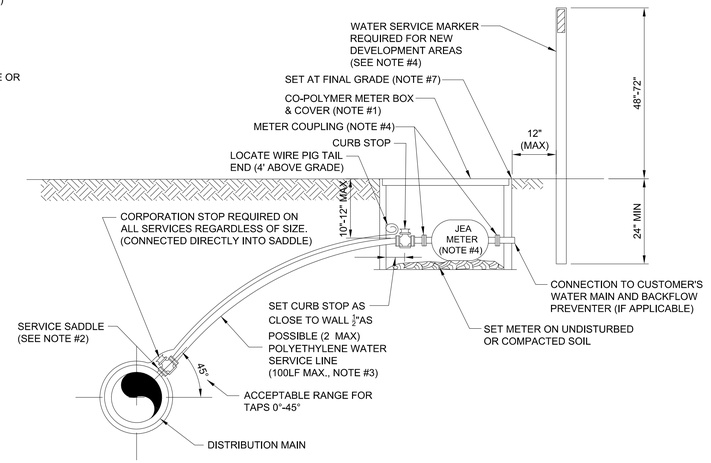


NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. ALL PIPE & FITTING SHALL BE GALVANIZED MATERIAL OR PVC (S-40).
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTING (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED
4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

2" TEMPORARY SAMPLE TAP FOR STUB OUT

JANUARY 2022 PLATE W-26

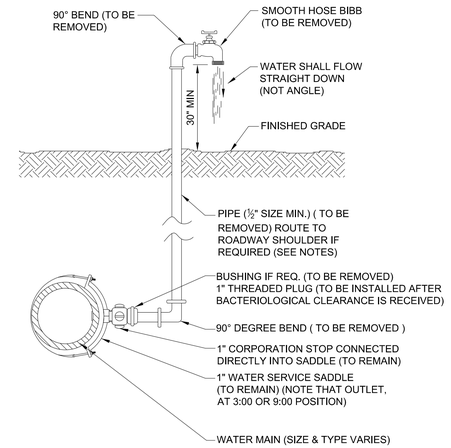


NOTES:

1. SEE PLATE W-1 FOR METER LOCATION REQUIREMENTS.
2. SINGLE BAND SADDLES SHALL BE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION). FOR WET TAPS OR WATER MAINS 12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED. BRASS SADDLES MAY BE UTILIZED ON NEW 1 INCH AND SMALLER WATER SERVICES WHICH ARE INSTALLED ON A DRY 10 INCH OR SMALLER PVC WATER MAIN.
3. NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY J.E.A. CONSTRUCT POLY LINE WITH 24" (MIN.) COVER UNDER ROADWAYS. THE POLY WATER SERVICE LINE SHALL BE SAME SIZE AS THE METER (1" MINIMUM) AND BE INSTALLED PERPENDICULAR TO THE MAIN AND NOT EXCEED 100LF UNLESS APPROVED OTHERWISE BY JEA.
4. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (I.E.: IF NO METER IS INSTALLED). WATER SERVICES SERVING VACANT LOTS (SERVICE NOT IN USE), SHALL INCLUDE A "W" CUT INTO THE CURB (CLOSEST TO THE METER BOX), AND PAINTED BLUE (PAINTED PURPLE FOR RECLAIMED WATER). IN ADDITION, FOR NEW DEVELOPMENT AREAS WHERE THE WATER SERVICE IS "NOT IN USE", A LANDSCAPE TIMBER OR 3x3 MIN. P.T. POST (TOP PAINTED BLUE OR PURPLE FOR RECLAIMED WATER). THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HEX ON BARREL TYPE).
5. NO 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE METER OR ELECTRONIC DEVICES IF DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.
7. METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (i.e. NO DIRT, TRASH OR OTHER DEBRIS PLACED ON TOP OF BOX).
8. LOCATE WIRING REQUIRED ON ALL SERVICES 10' OR GREATER IN LENGTH. SEE PLATE W-44.

WATER SERVICE DETAIL- 2" AND SMALLER METER

JANUARY 2022 PLATE W-2

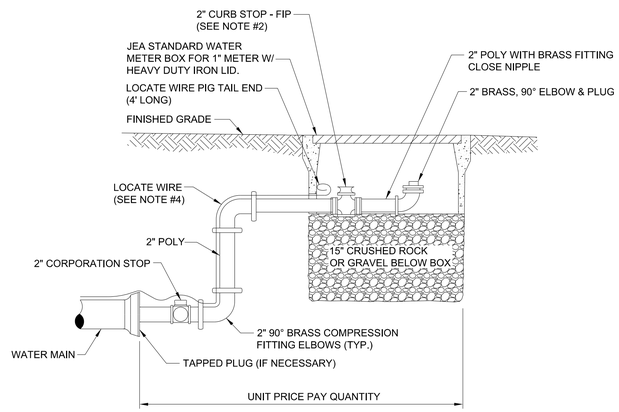


NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED), AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. PIPE AND FITTINGS SHALL BE PVC (SCH. 40) OR GALV. MATERIAL.
4. THE USE OF THE ABOVE CONSTRUCTION FOR A TEMPORARY SAMPLE POINT SHALL BE LIMITED TO AREAS WHERE A SAMPLE TAP BY ALTERNATIVE METHODS (SEE W-24) IS NOT FEASIBLE OR IF DIRECTED OTHERWISE BY JEA.
5. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS AS OUTLINED BY JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

TEMPORARY SAMPLE TAP

JANUARY 2022 PLATE W-25



NOTES:

1. PIPE SHALL BE POLYETHYLENE. FITTINGS SHALL BE BRASS.
2. THE 2" CURB STOP SHALL BE ALL BRONZE. FITTINGS SHALL BE BRASS.
3. ANY RECLAIMED WATER VALVE SHALL HAVE RECLAIMED EMBLEM.
4. LOCATE WIRE FOR 10' OR GREATER IN LENGTH.
5. CANNOT BE PLACED UNDER CONCRETE OR PAVEMENT.
6. PLACE 2 FEET PAST LAST WATER MAIN SERVICE CONNECTION.

FLUSHING VALVE BELOW GRADE

JANUARY 2022 PLATE W-28

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DESIGN ENGINEER: MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO. 74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

JEA
Building Community

JEA WATER MAIN DETAILS

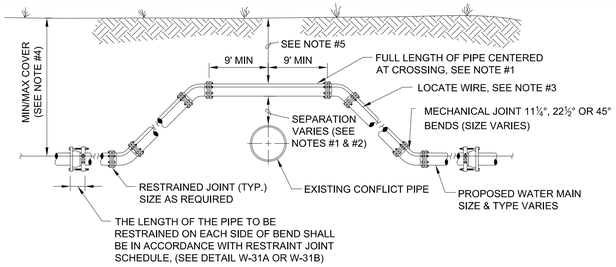
PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 34
DRAWING NO. DET-4

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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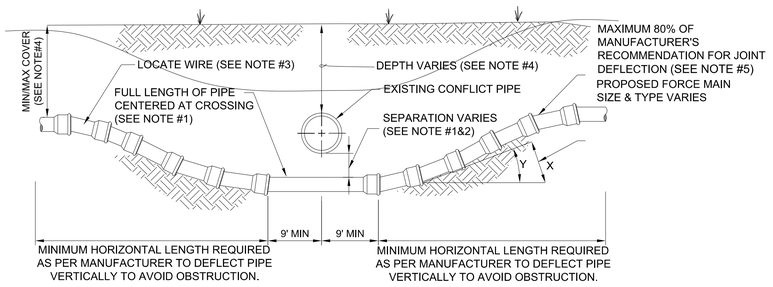
CASE "A" CROSSING

NOTES:

1. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.
2. FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE DETAIL (W-10 AND W-11).
3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.
4. THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREAS, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
5. IF UTILITY CONFLICT IS LOCATED IN A NON-TRAFFIC AREA (NO TRAFFIC LOADS) AND THE NEW PIPE IS D.I.P., THEN THE MINIMUM COVER MAY BE REDUCED TO 24 INCHES (ONLY IN THE AREA OF THE CONFLICT).

ADJUSTMENT OVER EXISTING UTILITIES MECHANICAL RESTRAINTS

JANUARY 2022 PLATE W-32



CASE "B" CROSSING

NOTES:

1. IF EXISTING CONFLICT PIPE IS A WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSING.
2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (W-10 & W-11).
3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.
4. THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE A MINIMUM OF 30" IN UNPAVED AREAS AND 36" IN PAVED AREAS WITH A MAXIMUM COVER OF 60" UNLESS APPROVED OTHERWISE BY JEA. COVER FOR PIPING 24" SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS APPROVED OTHERWISE BY JEA. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.
5. JEA ONLY ALLOWS 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20LF PIPE LENGTH.

MAXIMUM ALLOWED OFFSET FOR PIPE BY JOINT DEFLECTION

PVC PIPE

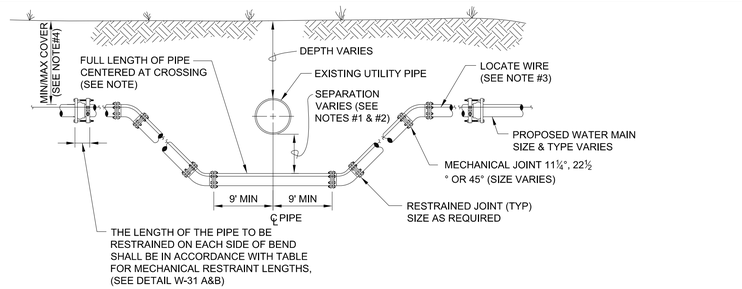
PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
2	30	7°	158 FT
4	10	2.4°	480 FT
6	10	2.4°	480 FT
8	10	2.4°	480 FT
10	10	2.4°	480 FT
12	8.5	2°	564 FT
14 - 24	5	1.2°	960 FT
30 - 48	3.25	0.8°	1477 FT

DUCTILE IRON PIPE (Mechanical Joint)

PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
-	-	-	-
4	27	6.5°	177 FT
6	24	5.7°	200 FT
8 - 12	17.5	4.2°	273 FT
14 - 16	12	2.9°	400 FT
18 - 20	10	2.4°	477 FT
24 - 30	8	1.9°	600 FT
36	7	1.7°	687 FT
42 - 48	6.7	1.6°	716 FT

ADJUSTMENT UNDER EXISTING UTILITIES PIPE JOINT DEFLECTION

JANUARY 2022 PLATE W-40



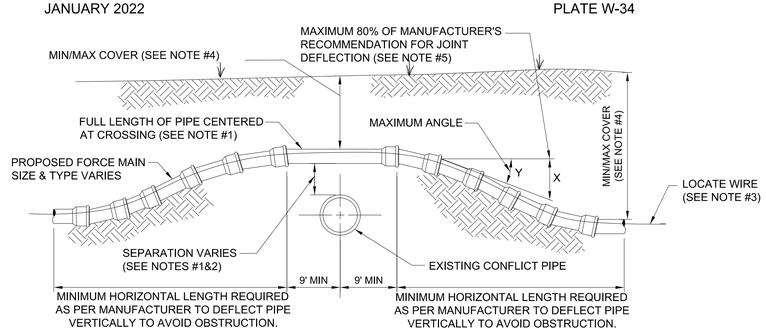
CASE "B" CROSSING

NOTES:

1. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557
2. FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE DETAILS (W-10 AND W-11)
3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.
4. THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREA, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
5. IN LOCATIONS WHERE WATER/RECLAIM MAINS CROSS UNDER A BOX-CULVERT, OR 36-INCH DIAMETER AND LARGER STORM WATER MAIN, JEA WILL REQUIRE DIP TO BE UTILIZED FOR THE MAIN.

ADJUSTMENT UNDER EXISTING UTILITIES MECHANICAL RESTRAINTS

JANUARY 2022 PLATE W-34



CASE "A" CROSSING

NOTES:

1. IF EXISTING CONFLICT PIPE IS A WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSING.
2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-10 & W-11).
3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.
4. THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE A MINIMUM OF 30" IN UNPAVED AREAS AND 36" IN PAVED AREAS WITH A MAXIMUM COVER OF 60" UNLESS APPROVED OTHERWISE BY JEA. COVER FOR PIPING 24" SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS APPROVED OTHERWISE BY JEA. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.
5. JEA ONLY ALLOWS 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20LF PIPE LENGTH.

MAXIMUM ALLOWED OFFSET FOR PIPE BY JOINT DEFLECTION

PVC PIPE

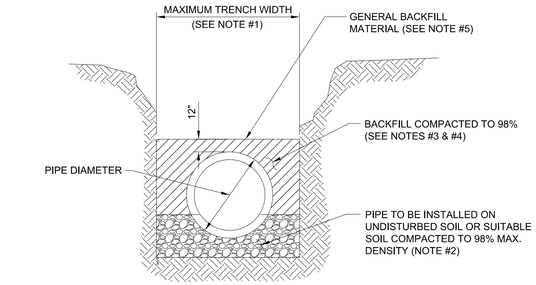
PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
2	30	7°	158 FT
4	10	2.4°	480 FT
6	10	2.4°	480 FT
8	10	2.4°	480 FT
10	10	2.4°	480 FT
12	8.5	2°	564 FT
14 - 24	5	1.2°	960 FT
30 - 48	3.25	0.8°	1477 FT

DUCTILE IRON PIPE (Mechanical Joint)

PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
-	-	-	-
4	27	6.5°	177 FT
6	24	5.7°	200 FT
8 - 12	17.5	4.2°	273 FT
14 - 16	12	2.9°	400 FT
18 - 20	10	2.4°	477 FT
24 - 30	8	1.9°	600 FT
36	7	1.7°	687 FT
42 - 48	6.7	1.6°	716 FT

ADJUSTMENT OVER EXISTING UTILITIES PIPE JOINT DEFLECTION

JANUARY 2022 PLATE W-41



TYPICAL TRENCH

NOTES:

1. TRENCH SIDES SHALL BE APPROXIMATELY VERTICAL BETWEEN AN ELEVATION OF 1 FOOT ABOVE THE TOP OF THE PIPE AND THE CENTER LINE OF THE PIPE; OTHERWISE, TRENCH SIDES SHALL BE AS VERTICAL AS POSSIBLE OR AS REQUIRED BY OSHA STANDARDS. REFER TO THE MEASUREMENT AND PAYMENT SECTION (SECTION #801, PARAGRAPH #4)) TO DETERMINE MAXIMUM PAYLINE WIDTHS.
2. BELL HOLE SHALL BE DUG TO PERMIT THE ENTIRE STRAIGHT BARREL OF THE PIPE TO REST ON THE UNDISTURBED TRENCH BOTTOM. BOULDERS OR LOOSE ROCKS LARGER THAN 3/4 INCH IN SIZE WILL NOT BE PERMITTED IN BACKFILL UP TO 1 FOOT ABOVE THE TOP OF THE PIPE.
3. BACK FILL MATERIAL UP TO A LEVEL OF 1 FOOT OVER THE PIPE SHALL CONSIST OF AASHTO CLASS A-3 SOIL (SUITABLE SOIL) AND SHALL EXCLUDE CLAY MATERIALS AND LOOSE ROCKS LARGER THAN 3/4 INCH SIZE.
4. BACKFILL MATERIAL UP TO A LEVEL 1 FOOT OVER THE TOP OF PIPE OR BOTTOM OF STRUCTURES SHALL BE PLACED IN 6 INCH COMPACTED THICKNESS LAYERS AND SHALL BE COMPACTED TO 98% OF IT'S MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D1557.
5. SEE " EXCAVATION AND EARTHWORK", SECTION 408 FOR ADDITIONAL REQUIREMENTS INCLUDING REMOVAL AND REPLACEMENT OF UNSUITABLE SOILS, DEWATERING, COMPACTION REQUIREMENTS AND DENSITY TESTING OF COMPACTED SOILS.

OPEN CUT TRENCH FOR PRESSURE PIPE

JANUARY 2022 IN CITY RIGHT OF WAY PLATE W-42

NOTES:

1. FOR UNPAVED LOCATIONS, A PRECAST CONCRETE VALVE PAD SHALL BE PROVIDED AND INSTALLED FLUSH WITH GRADE. CONCRETE PAD IS NOT REQUIRED FOR VALVE LOCATED IN THE ROADWAY, UNLESS SHOWN OR NOTED OTHERWISE.
2. LOCATING WIRE IS REQUIRED ON ALL PRESSURE PIPING (SEE DETAILW-44).
3. A "V" CUT SHALL BE CARVED IN THE CURB CLOSEST/ADJACENT/(ASPHALT IF NO CURB) TO ALL BELOW GRADE VALVES. THE "V" CUT IS TO BE PAINTED BLUE WATER/PURPLE RECLAIMED.
4. IN PAVED AREAS, INSTALL VALVE AT A DEPTH TO ALLOW A 12" MIN. DISTANCE BETWEEN THE VALVE COVER PLATE AND THE TOP OF THE VALVE OPERATING NUT. OUTSIDE OF PAVED AREAS (GRASS), INSTALL VALVE AT A DEPTH TO ALLOW A 6" MINIMUM DISTANCE BETWEEN THE VALVE COVER AND THE TOP OF THE VALVE OPERATING NUT. OPERATING NUT/STEM EXTENSION SHALL BE PROVIDED (WHERE APPLICABLE) SO THAT THE OPERATING NUT WILL BE NO MORE THAN 30 INCHES BELOW FINISHED GRADE.
5. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS. ROUTE LOCATE WIRES THRU A "V" CUT IN THE TOP OF THE 6" PVC RISER PIPE FOR LOCATE WIRE ACCESS INTO VALVE BOX. THE LOCATE WIRES WITH A 24" LONG PIG-TAIL AT THE TOP SHALL BE CONNECTED TOGETHER WITH A WIRE NUT.
6. BRASS IDENTIFICATION TAG INDICATING "WATER", VALVE SIZE, DIRECTION AND TURNS TO OPEN & VALVE TYPE. PROVIDE A ¼" HOLE IN BRASS TAG AND ATTACH TAG (TWIST WIRE AROUND TAG) TO THE END OF THE LOCATE WIRE. TAGS ARE NOT REQUIRED ON VALVES INSTALLED ON FIRE HYDRANT BRANCH LINES.
7. IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (ROUND OR SQUARE) POURED CONCRETE PAD W/2 - #4 REBAR AROUND PERIMETER, MAY BE USED.
8. GRAVEL SHALL BE PROVIDED UNDER ALL VALVES 20" AND LARGER. THE MINIMUM VERTICAL LIMIT OF GRAVEL IS 12" UNDER THE VALVE UP TO ¼ THE OVERALL HEIGHT OF THE VALVE.
9. FOR VALVES 12 INCH AND SMALLER, PROVIDE A WHITE OR BLACK PLASTIC DEBRIS SHIELD WHICH INSTALLS BELOW THE OPERATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE OPERATING NUT AND MINIMIZE INFILTRATION. SHIELD SHALL BE BY AFC, BOXLOK OR APPROVED EQUAL.
10. ALL VALVES SHALL BE INSTALLED WITH AN ELECTRIC LOCATE MARKER. MARKER SHALL BE 4" DIA. COLOR CODED BALL MARKER (3M-1403XR FOR WATER AND 1408XR FOR RECLAIMED WATER).

WATER VALVE INSTALLATION DETAIL

JANUARY 2022 PLATE W-18

gai consultants
12574 Flagler Center Blvd., Suite 202
Jacksonville, Florida 32258
904-363-1116
EB9951

NO.	BY	DATE	REVISIONS
6.			
5.			
4.			
3.			
2.			
1.			

DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

JEA
Building Community
STATE OF FLORIDA

JEA WATER MAIN DETAILS

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 35
DRAWING NO. DET-5

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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LENGTH (L) TO BE RESTRAINED (SEE PLATE Nos. 38C & 38D FOR ADDITIONAL DETAILS)

NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS				VERTICAL OFFSETS 45° BENDS (SEE NOTE 4)		VALVES OR DEAD ENDS
	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	UPPER L (FT.)	LOWER L (FT.)	L (FT.)
4	21	9	5	3	17	3	47
6	30	13	6	3	23	4	66
8	38	16	8	4	30	6	86
10	45	19	9	5	36	7	103
12	53	22	11	6	43	8	121
14	61	26	13	6	50	9	140
16	66	28	14	7	55	10	154
18	73	30	15	8	60	11	170
20	79	33	16	8	66	12	186
24	79	33	16	8	77	15	185
30	93	39	19	10	97	17	222
36	106	39	21	11	107	20	257
42	117	49	24	12	120	24	289
48	144	53	26	13	133	26	321

REDUCERS	
SIZE (IN.)	L (FT.)
6x4	34
8x6	36
8x4	62
10x8	35
10x6	63
12x10	36
12x8	64
16x12	66
16x10	92
20x18	35
20x16	66
20x12	117
24x20	56
24x18	80
24x16	101
30x24	78
30x20	121
36x30	78
36x24	141
42x36	75
42x30	140
48x42	75
48x36	139

TEES SEE NOTE 5		
RUN SIZE (IN.)	BRANCH SIZE (IN.)	L (FT.)
4	4	F.O.
4	6 4 < LESS	10 F.O.
8	8 6 < LESS	29 F.O.
10	10 8 6 < LESS	45 13 F.O.
12	12 10 8 < LESS	62 32 F.O.
16	16 12 10 10 < LESS	94 39 5 F.O.
20	20 16 12 10 < LESS	125 76 14 F.O.
24	24 20 16 12 < LESS	124 84 36 F.O.
30	30 24 20 16 16 < LESS	159 104 60 5 F.O.
36	36 30 24 20 16 < LESS	192 142 83 33 F.O.
42	42 36 30 24 20 16 < LESS	223 178 124 59 5 F.O.
48	48 42 36 30 24 20 < LESS	253 209 162 104 34 F.O.

F.O. = FITTING ONLY

PVC PIPE RESTRAINT NOTES:

1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: PVC PIPE, SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE.
3. BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
4. VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, Lu IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. LI IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
6. HDPE TO PVC TRANSITIONS: THE PVC PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).
7. THE INSTALLATION OF BELL HARNESS RESTRAINTS AT PVC JOINTS (DR-18 & 25 PIPE) SHALL BE COMPLETED PER THE MANUFACTURERS RECOMMENDATION, WHICH INCLUDES NOT OVER TIGHTENING THE PARALLEL RODS/NUTS. THESE NUTS SHOULD ONLY BE SNUG TIGHT. THE HOME MARKS ON THE PIPE SHOULD ALWAYS BE VISIBLE AFTER THE RESTRAINT IS INSTALLED. OVERHOMING THE JOINT MAY CAUSE A FAILURE AT THE BELL RESULTING IN A SERVICE OUTAGE.

PVC PIPE RESTRAINT JOINT SCHEDULE

JANUARY 2022 PLATE W-31A

LENGTH (L) TO BE RESTRAINED (SEE PLATE Nos. 38C & 38D FOR ADDITIONAL DETAILS)

NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS				VERTICAL OFFSETS 45° BENDS (SEE NOTE 4)		VALVES OR DEAD ENDS
	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	UPPER L (FT.)	LOWER L (FT.)	L (FT.)
4	17	7	4	2	11	3	30
6	24	15	5	3	15	4	42
8	31	13	6	3	20	5	55
10	36	15	8	4	23	6	65
12	42	18	9	5	27	7	77
14	48	20	10	5	31	7	87
16	53	22	11	6	35	8	97
18	58	24	12	6	39	9	107
20	63	27	13	6	42	10	118
24	63	27	13	7	49	12	118
30	75	31	15	8	59	14	141
36	86	36	17	9	68	17	163
42	95	40	19	10	76	19	183
48	117	43	21	11	84	21	203

REDUCERS	
SIZE (IN.)	L (FT.)
6x4	22
8x6	23
8x4	39
10x8	22
10x6	40
12x10	23
12x8	41
16x12	42
16x10	58
20x18	22
20x16	42
20x12	74
24x20	36
24x18	51
24x16	64
30x24	50
30x20	77
36x30	50
36x24	89
42x36	48
42x30	89
48x42	48
48x36	88

TEE SEE NOTE 5		
RUN SIZE (IN.)	BRANCH SIZE (IN.)	L (FT.)
4	4	F.O.
4	6 4 < LESS	6 F.O.
8	8 6 < LESS	19 F.O.
10	10 8 6 < LESS	29 9 F.O.
12	12 10 8 < LESS	40 21 F.O.
16	16 12 10 8 < LESS	60 25 3 F.O.
20	20 16 12 10 < LESS	79 48 9 F.O.
24	24 20 16 12 < LESS	79 54 23 F.O.
30	30 24 20 16 12 < LESS	101 66 38 4 F.O.
36	36 30 24 20 16 12 < LESS	122 90 53 21 1 F.O.
42	42 36 30 24 20 16 12 < LESS	141 113 79 38 3 1 F.O.
48	48 42 36 30 24 20 < LESS	160 133 103 66 22 F.O.

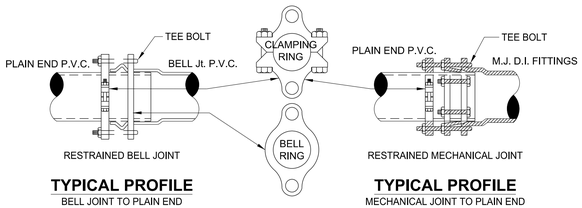
F.O. = FITTING ONLY

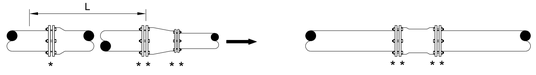
DUCTILE IRON PIPE RESTRAINT NOTES:

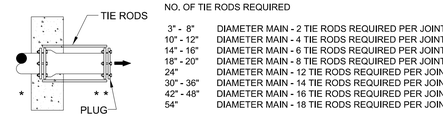
1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: DUCTILE IRON PIPE (WITHOUT POLY WRAP), SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE. FOR D.I.P. W/POLY WRAP, USE RESTRAINT JOINT SCHEDULE FOR PVC PIPE.
3. BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
4. VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM, PER THE DETAILS, Lu IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. Li IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
6. HDPE TO D.I.P. TRANSITIONS: THE D.I.P. PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).

DUCTILE IRON PIPE RESTRAINT JOINT SCHEDULE

JANUARY 2022 PLATE W -31B





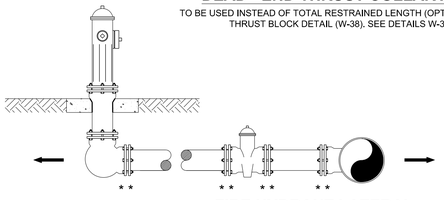


NO. OF TIE RODS REQUIRED

3" - 8"	DIAMETER MAIN - 2 TIE RODS REQUIRED PER JOINT (3/4" ROD)
10" - 12"	DIAMETER MAIN - 4 TIE RODS REQUIRED PER JOINT (3/4" ROD)
14" - 16"	DIAMETER MAIN - 6 TIE RODS REQUIRED PER JOINT (3/4" ROD)
18" - 20"	DIAMETER MAIN - 8 TIE RODS REQUIRED PER JOINT (3/4" ROD)
24"	DIAMETER MAIN - 12 TIE RODS REQUIRED PER JOINT (3/4" ROD)
30" - 36"	DIAMETER MAIN - 14 TIE RODS REQUIRED PER JOINT (1" ROD)
42" - 48"	DIAMETER MAIN - 16 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
54"	DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)

DEAD - END THRUST COLLAR ANCHOR

TO BE USED INSTEAD OF TOTAL RESTRAINED LENGTH (OPTIONAL) SIZE AS PER THRUST BLOCK DETAIL (W-38). SEE DETAILS W-36 & W-37.

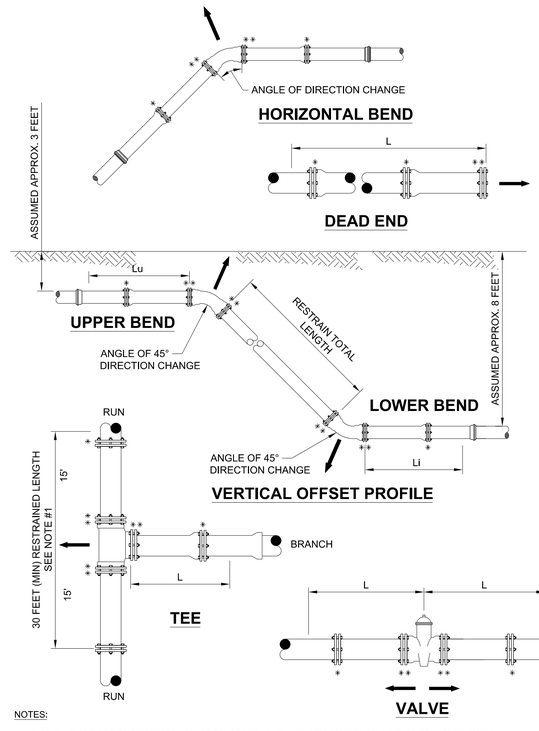


GENERAL NOTE:

1. PAY ITEM " * " DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIS.
2. PAY ITEM " ** " DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.
3. ➡ INDICATES DIRECTION OF THRUST FORCE.

MECHANICAL RESTRAINT DETAILS - I

JANUARY 2022 PLATE W-31C



NOTES:

1. TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN.).
2. PAY ITEM *** DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIC.
3. PAY ITEM **** DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.

MECHANICAL RESTRAINT DETAILS - II

JANUARY 2022 PLATE W-31D

gai consultants
12574 Flagler Center Blvd., Suite 202
Jacksonville, Florida 32258
904-363-1116
EB9951

NO.	BY	DATE	REVISIONS
6.			
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2.			
1.			

DESIGN ENGINEER: MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO. 74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

JEA Building Community

JEA WATER MAIN DETAILS

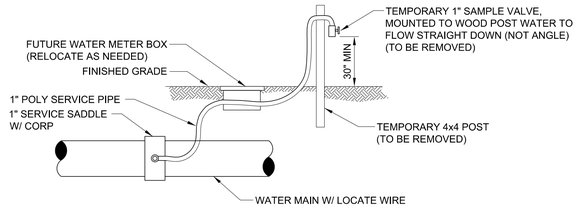
PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 36
DRAWING NO. DET-46

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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jerlart

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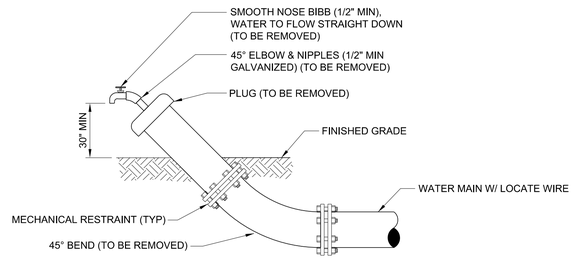
TEMPORARY SAMPLE TAP UTILIZING A NEW 1" WATER SERVICE

NOTES::

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROAD SHOULDERS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. THE CONTRACTOR SHALL UTILIZE THE ABOVE ALTERNATIVE METHODS FOR CONSTRUCTION OF TEMPORARY SAMPLE POINTS IN ALL AREAS, WHERE POSSIBLE.
4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

TEMPORARY SAMPLE TAP ALTERNATIVE METHOD A

JANUARY 2022 PLATE W-24



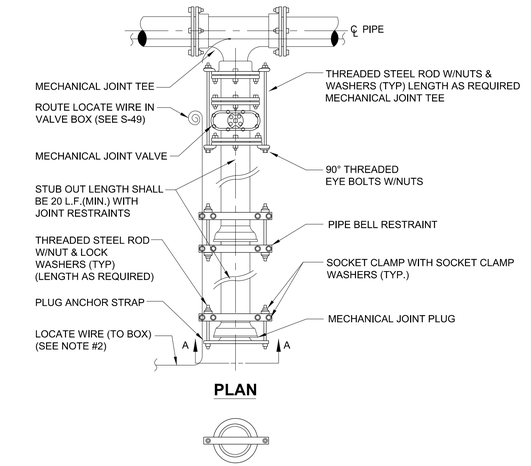
TEMPORARY SAMPLE TAP UTILIZING PLUG AT FLUSHING LOCATION

NOTES::

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROAD SHOULDERS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. THE CONTRACTOR SHALL UTILIZE THE ABOVE ALTERNATIVE METHODS FOR CONSTRUCTION OF TEMPORARY SAMPLE POINTS IN ALL AREAS, WHERE POSSIBLE.
4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

TEMPORARY SAMPLE TAP ALTERNATIVE METHOD B

JANUARY 2022 PLATE W-24A



PLAN

SECTION "A-A"

NOTES:

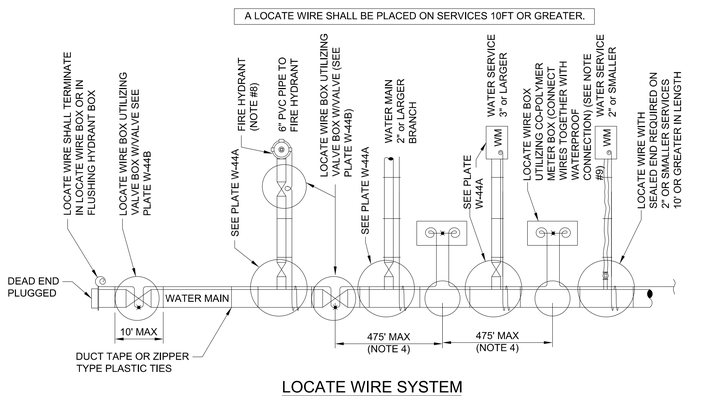
1. IN LIEU OF BELL/ROD RESTRAINTS, MECHANICAL JOINT RESTRAINTS MAY BE USED.
2. LOCATING WIRE REQUIRED, UTILIZING A LOCATE WIRE BOX INSTALLED AT PLUG LOCATION.
3. NUMBER OF TIE RODS REQUIRED IS AS FOLLOWS:

3" - 8"	DIAMETER MAIN - 2 TIE RODS REQUIRED PER JOINT (3/4" ROD)
10" - 12"	DIAMETER MAIN - 4 TIE RODS REQUIRED PER JOINT (3/4" ROD)
14" - 16"	DIAMETER MAIN - 6 TIE RODS REQUIRED PER JOINT (3/4" ROD)
18" - 20"	DIAMETER MAIN - 8 TIE RODS REQUIRED PER JOINT (3/4" ROD)
24"	DIAMETER MAIN -12 TIE RODS REQUIRED PER JOINT (3/4" ROD)
30" - 36"	DIAMETER MAIN -14 TIE RODS REQUIRED PER JOINT (1" ROD)
42" - 48"	DIAMETER MAIN -16 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
54"	DIAMETER MAIN -18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)

4. THE LOCATION OF THE DEAD END PLUG SHALL NOT BE UNDER PAVEMENT, IF POSSIBLE. THE STUB OUT SHALL EXTEND BEYOND THE INTERSECTION AREAS OR ROAD CROSSING BY 10 FEET (MIN.) WHERE POSSIBLE.

PLUGGED DEAD END USING MECHANICAL RESTRAINTS

JANUARY 2022 PLATE W-37



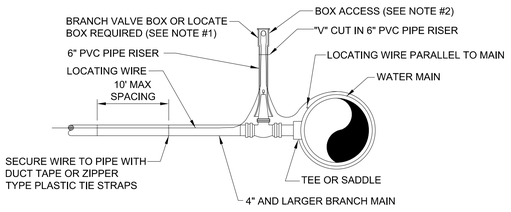
LOCATE WIRE SYSTEM

NOTES:

1. LOCATING WIRE TO BE INSTALLED IN EITHER THE ONE OR ELEVEN O'CLOCK POSITION ON ALL DUCTILE IRON 0R PVC (PRESSURE MAINS). LOCATE WIRE SHALL ALSO BE INSTALLED ON ALL (HDPE) POLY MAIN PIPING (1:00 OR 11:00 POSITION, IF POSSIBLE).
2. SECURE LOCATING WIRE TO PVC & D.I.P. WATER MAIN BY USE OF DUCT TAPE OR ZIPPER TYPE PLASTIC TIE STRAPS SPACED AT A MAXIMUM DISTANCE OF TEN (10') AND AT EACH SIDE OF BELL JOINT OR FITTING.
3. THE ENTIRE LOCATING SYSTEM SHALL BE SUBJECTED TO TESTING TO DETERMINE ITS RELIABILITY, WHERE INSTALLED UNDER PAVEMENT AREAS, TESTING SHALL BE DONE PRIOR TO THE PLACEMENT OF PAVEMENT, UNLESS APPROVED OTHERWISE BY JEA.
4. LOCATING WIRE SHALL TERMINATE WITHIN AN ACTIVE VALVE BOX (WITH A VALVE) OR A METER BOX (IF NO VALVE) AT 475' INTERVALS. SEE DETAIL PLATE W-44B. WIRE CONNECTIONS BELOW GROUND (OUTSIDE OF A BOX) SHALL BE AVOIDED.
5. REFER TO SECTION 350 FOR LOCATE WIRE SPECIFICATIONS.
6. "■" INDICATES THAT THE WIRES ARE CONNECTED TOGETHER WITH A WATERPROOF CONNECTION. (SEE DETAIL W-44B)
7. "@" INDICATES A WIRE PIG-TAIL (4' LONG)
8. FOR FIRE HYDRANT LOCATE WIRE REQUIREMENTS AND EXCLUSIONS, SEE PLATES W-12,13 AND 14.
9. AN "LW" CUT SHALL BE CARVED IN THE CONCRETE CURB AND PAINTED AT ALL LOCATE WIRE BOXES.
10. FOUR LANES OF TRAFFIC (HAVING TWO LANES OF TRAFFIC IN EACH DIRECTION) OR GREATER THE LOCATE WIRE AND VALVE BOX SHALL BE OFF-SET TO THE RIGHT-OF-WAY.

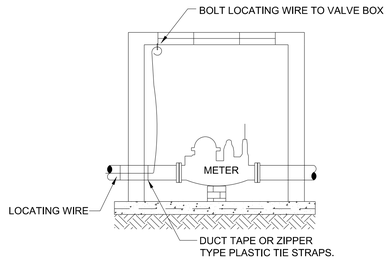
LOCATE WIRE CONSTRUCTION FOR WATER MAINS

JANUARY 2022 PLATE W-44



BRANCH FORCE MAIN

(2" AND LARGER WATER MAIN OR 3" AND LARGER WATER SERVICE PIPE)



CONNECTION AT LARGE METER BOX

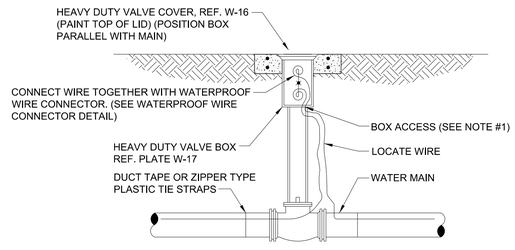
(3" OR LARGER SERVICE)

NOTES:

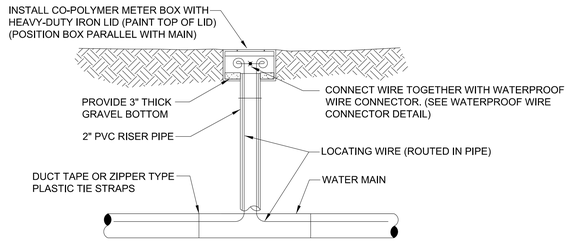
1. NOTE THAT THE BRANCH WIRE IS NOT CONNECTED TO THE MAIN WIRE.
2. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE SECTION (SEE W-18).
3. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE AND LOCATE POINTS.

LOCATE WIRE FOR BRANCH MAIN

JANUARY 2022 PLATE W-44A



LOCATE WIRE BOX UTILIZING VALVE BOX



LOCATE WIRE BOX UTILIZING METER BOX

LOCATE WIRE BOX

JANUARY 2022 PLATE W-44B

gai consultants
12574 Flagler Center Blvd., Suite 202
Jacksonville, Florida 32258
904-363-1116
EB9951

NO.	BY	DATE	REVISIONS
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DESIGN ENGINEER: MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO. 74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

JEA Building Community

JEA WATER MAIN DETAILS

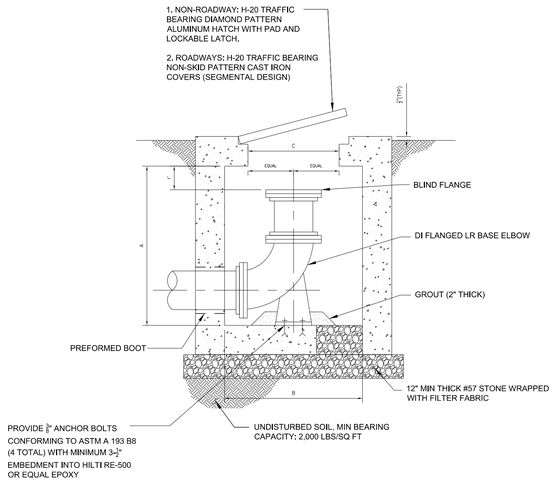
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DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 37
DRAWING NO. DET-7

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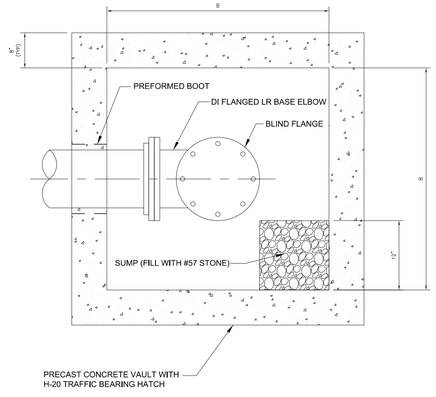
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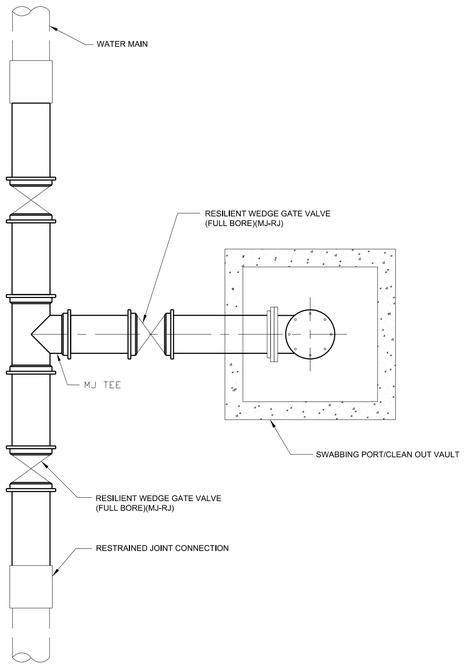
SWABBING PORT AND CLEAN OUT VAULT DETAIL - SECTION

JANUARY 2022 PLATE W-45



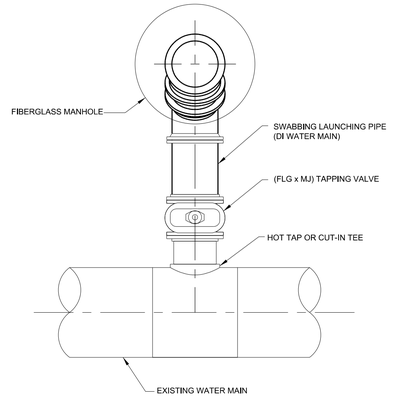
SWABBING PORT AND CLEAN OUT VAULT DETAIL - - PLAN

JANUARY 2022 PLATE W-45A



SWABBING LAUNCHING STATION DETAIL FOR NEW WATER MAIN UP TO 24"

JANUARY 2022 PLATE W-45B

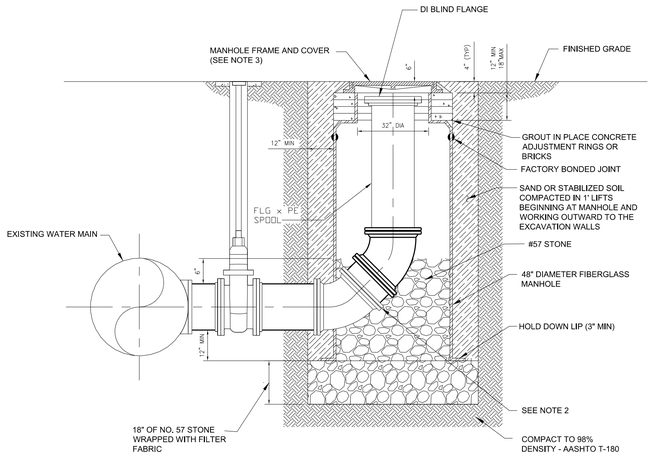


NOTES:

1. FOR HOT TAP CONNECTIONS ON EXISTING WATER MAINS 10" DIAMETER AND GREATER, DIAMETER OF TAPPING VALVE AND PIG LAUNCHING PIPE SHALL BE ONE NOMINAL SIZE LESS THAN EXISTING WATER MAIN.

SWABBING PIG LAUNCHING STATION DETAIL FOR WATER MAINS UP TO 24" - PLAN

JANUARY 2022 PLATE W-45C



NOTES:

1. PROVIDE ALL MATERIALS IN ACCORDANCE TO JEA WATER AND WASTEWATER STANDARD SPECIFICATIONS.
2. USE TWO VERTICAL 45 DEGREE MJ BENDS OR LONG RADIUS 90 DEGREE MJ BEND.
3. PROVIDE STANDARD JEA FRAME AND COVER.
4. RESTRAIN ALL JOINTS.

RETROFIT SWABBING LAUNCHING STATION DETAIL FOR WATER MAINS UP TO 24" - SECTION

JANUARY 2022 PLATE W-45D

gai consultants
12574 Flagler Center Blvd., Suite 202
Jacksonville, Florida 32258
904-363-1116
EB9951

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DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

JEA Building Community

JEA WATER MAIN DETAILS

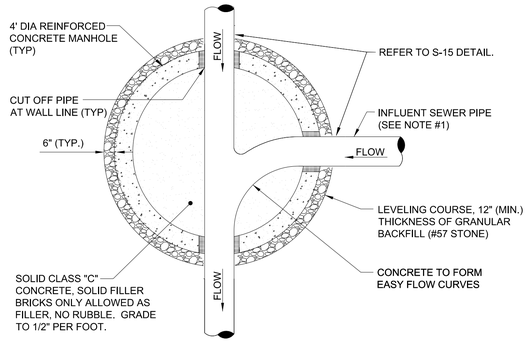
PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 38
DRAWING NO. DET-8

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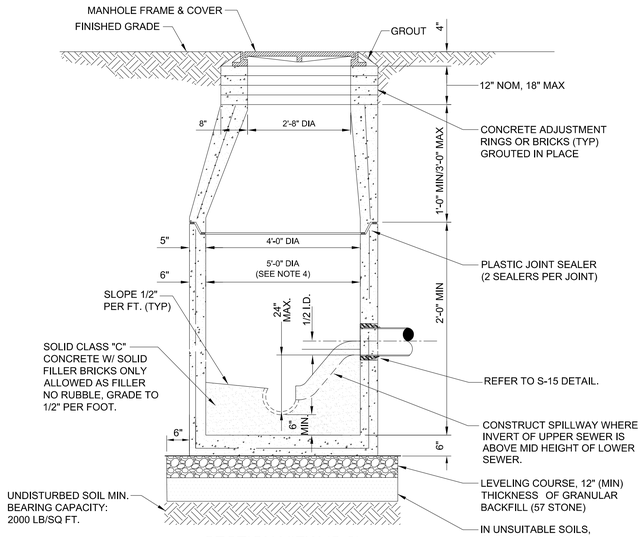


NOTES:

1. THE ANGLE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE SHALL BE BETWEEN 90° - 180° UNLESS OTHERWISE APPROVED BY JEA.

PLAN VIEW (S-3)

(FOR SECTION VIEW SEE S-2)



SECTION VIEW (S-2)

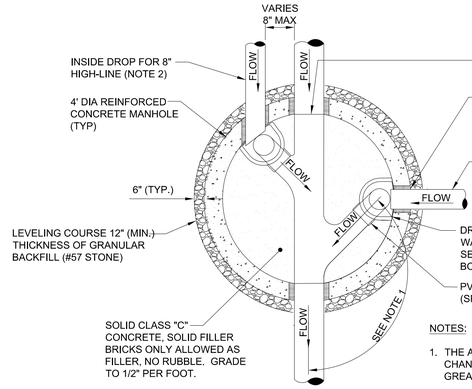
(FOR PLAN VIEW SEE S-3)

NOTES:

1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
2. THE INTERIOR AND EXTERIOR OF MANHOLE AND ADJUSTING RINGS SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL.
3. IF SPECIALTY LINER IS TO BE INSTALLED ON INSIDE SURFACE OF MANHOLE, THE BITUMINOUS WATERPROOFING MATERIAL SHALL BE OMITTED ON THE INSIDE.
4. JUNCTION MANHOLE (CLOSEST TO WETWELL) SHALL BE 5' DIA WITH SPECIALTY LINER.
5. ALL MANHOLE JOINTS BELOW THE TOP COVER SECTION SHALL INCLUDE A 6" WIDE (MIN) EXTERIOR JOINT TAPE (WITH PRIMER). TAPE ON THE CONE SECTION IS OPTIONAL. SEE PLATE S-17.
6. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).

SANITARY SEWER TYPE "A" MANHOLE 8"-21" SEWERS

JANUARY 2022 — PLATES S-2, S-3

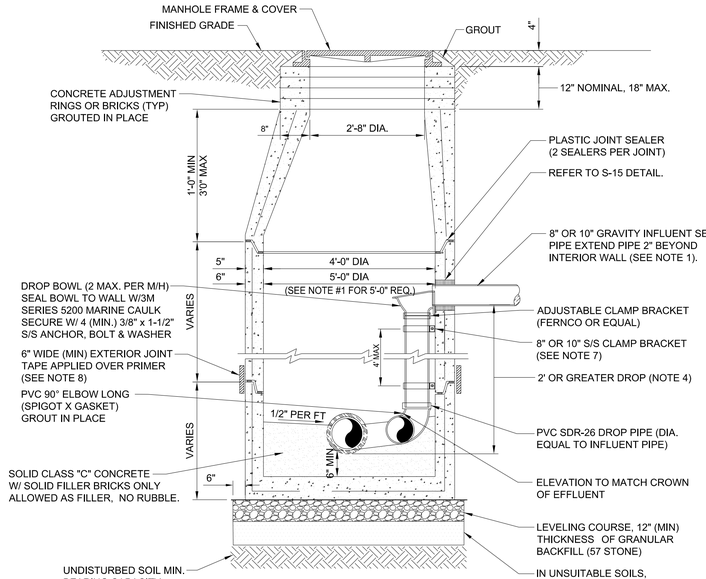


NOTES:

1. THE ANGLE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE SHALL BE 90° OR GREATER UNLESS APPROVED OTHERWISE BY JEA.
2. THE 8" HIGH-LINE, WHERE UTILIZED, SHALL ENTER THE MANHOLE ON-CENTER OR OFF-CENTER AS SHOWN ABOVE.

PLAN VIEW (S-5)

(FOR SECTION VIEW SEE S-4)



SECTION VIEW (S-4)

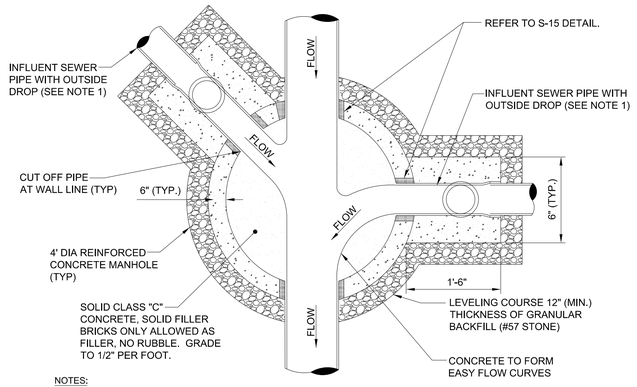
(FOR PLAN VIEW SEE S-5)

NOTES:

1. THIS ASSEMBLY IS FOR 8" OR 10" GRAVITY INFLUENT LINES ONLY. NO DROPS ALLOWED FOR FORCE MAINS. MAXIMUM OF 2 INSIDE DROP BOWLS PER MANHOLE. A 5'-0" DIA. MANHOLE (6" THICK WALLS) IS REQUIRED IF TWO INSIDE DROPS ARE CONSTRUCTED WITH ONE OR BOTH BEING 10" SIZE. DROP BOWL BY RELINER OR APPROVED EQUAL REQUIRED. THE INSIDE DROP FOR AN 8" HIGH-LINE SHALL BE CONSTRUCTED SIMILAR TO ABOVE (SEE PLATE S-5).
2. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
3. THE INTERIOR AND EXTERIOR OF MANHOLE AND THE INTERIOR OF ADJUSTMENT RINGS SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL.
4. TYPE "B" MANHOLE MUST BE USED FOR 2' OR GREATER INFLUENT PIPE DROPS.
5. THE DROP BOWL ASSEMBLY SHALL BE INSTALLED PRIOR TO APPLICATION OF SPECIALTY LINING MATERIAL.
6. A TYPE "D" MANHOLE SHALL BE UTILIZED WHEN THREE OR MORE (2' OR GREATER) DROPS ARE INVOLVED OR WHEN INFLUENT PIPES AREA LARGER THAN 10" IN SIZE.
7. ADJUSTABLE CLAMPING BRACKET (MIN. 2 PER DROP BOWL ASSY). 1-1/2" WIDE, 11 GA. W/ 3/8" DIA. 18-8 PINCH BOLTS AND NUTS. SECURE TO M/H WALL WITH (2) 3/8" X 1" BOLT, ANCHOR & WASHER PER BRACKET ASSY. ALL 304 OR 316 STAINLESS STEEL MATERIALS.
8. ALL M/H JOINTS BELOW THE TOP CONE SECTION SHALL INCLUDE A 6" WIDE (MIN) EXTERIOR JOINT TAPE (W/PRIMER). TAPE ON THE CONE SECTION IS OPTIONAL.
9. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).

SANITARY SEWER TYPE "B" MANHOLE 8"-10" SEWERS

JANUARY 2022 — PLATES S-4, S-5

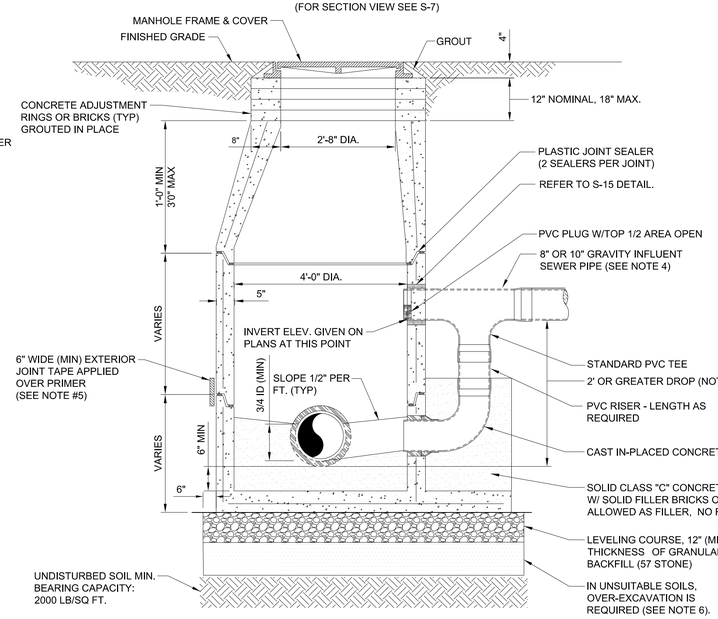


NOTES:

1. THE ANGLE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE SHALL BE 90° OR GREATER UNLESS APPROVED OTHERWISE BY JEA.
2. THE INTERIOR AND EXTERIOR OF THE MANHOLE AND THE INTERIOR OF THE ADJUSTMENT RINGS SHALL BE GIVEN 2 COATS OF BITUMINOUS WATERPROOFING MATERIAL.
3. IF SPECIALITY LINER IS TO BE INSTALLED ON INSIDE OF MANHOLE, THE BITUMINOUS WATERPROOFING MATERIAL SHALL BE OMITTED ON THE INSIDE.
4. TYPE "D" MANHOLES SHALL BE USED FOR 12" OR LARGER INFLUENT PIPES W/ 2' OR GREATER INFLUENT DROP.

PLAN VIEW (S-8)

(FOR SECTION VIEW SEE S-7)



SECTION VIEW (S-7)

(FOR PLAN VIEW SEE S-8)

NOTES:

1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478 WITH 4000 LB. CONC., TYPE II CEMENT, ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
2. THE INTERIOR AND EXTERIOR OF MANHOLE AND THE INTERIOR OF THE ADJUSTMENT RINGS SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL.
3. IF SPECIALTY LINER IS TO BE INSTALLED ON INSIDE SURFACE OF MANHOLE, THE BITUMINOUS WATERPROOFING SHALL BE, OMITTED ON INSIDE.
4. TYPE "D" MANHOLE SHALL BE USED FOR 12" OR LARGER INFLUENT PIPES W/ 2' OR GREATER INFLUENT DROP.
5. ALL M/H JOINTS BELOW THE TOP CONE SECTION SHALL INCLUDE A 6" WIDE (MIN) EXTERIOR JOINT TAPE (W/PRIMER). TAPE ON THE CONE SECTION IS OPTIONAL.
6. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).

SANITARY SEWER TYPE "D" MANHOLE 12"-21" SEWERS

JANUARY 2022 — PLATES S-7, S-8

gai consultants
12574 Flagler Center Blvd., Suite 202
Jacksonville, Florida
904-363-1116
EB9951

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DESIGN ENGINEER: MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO. 74635

DESIGNED BY: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

JEA — Building Community

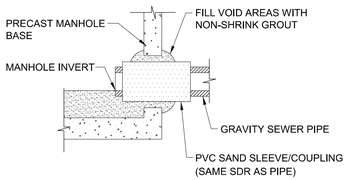
JEA FORCE MAIN DETAILS

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SHEET NO. DET-3
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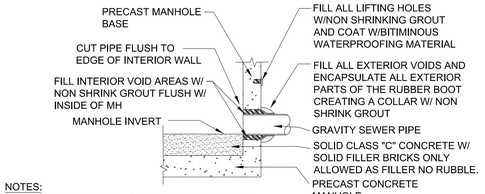
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PVC SAND SLEEVE

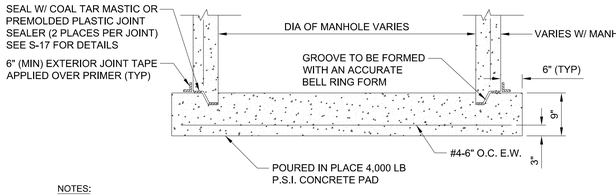
(FOR EXISTING AND NEW M/H CONSTRUCTION)



NOTES:
RUBBER BOOT, DOUBLE BANDED, 316 S/S CLAMPS, MEETING THE ASTM C923 STANDARD. Kor-N-Seal® I EX SERIES CONNECTOR WITH DOUBLE STAINLESS STEEL BANDS OR EQUAL

RUBBER BOOT

(FOR NEW M/H CONSTRUCTION ONLY, MAXIMUM DEPTH 15FT)



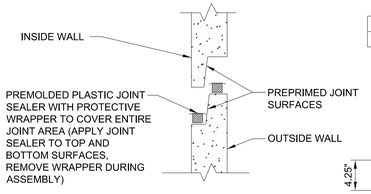
NOTES:

THE USE OF THE POURED IN PLACE MANHOLE BOTTOM SHALL BE MINIMIZED AND SHALL BE SPECIFICALLY APPROVED BY JEA PRIOR TO CONSTRUCTION.

MANHOLE BOTTOM

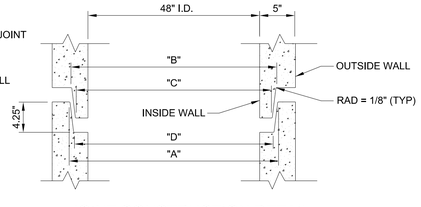
MANHOLE PIPE CONNECTION DETAIL

JANUARY 2022 PLATE S-15

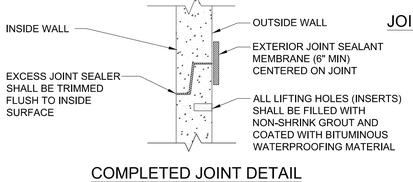


JOINT ASSEMBLY DETAIL

MANHOLE JOINT	"A"	"B"	"C"	"D
7° JOINT ANGLE	53.043	52.543	51.500	52.000



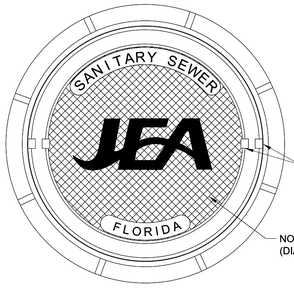
JOINT CONSTRUCTION DETAIL

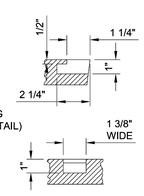


COMPLETED JOINT DETAIL

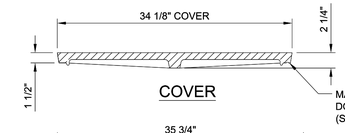
PRECAST SEWER MANHOLE JOINT DETAIL

JANUARY 2022 PLATE S-17

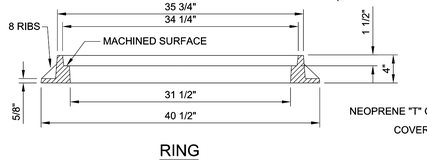




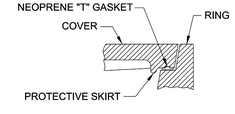
PICKHOLE DETAIL



COVER



RING



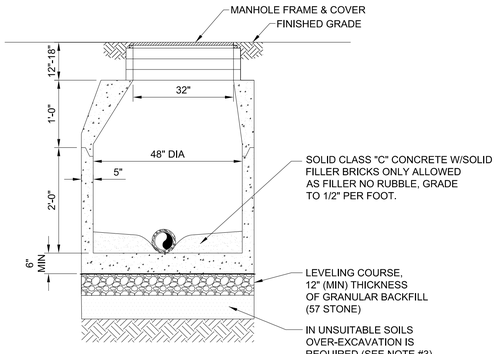
GROOVE & GASKET DETAIL

NOTES:

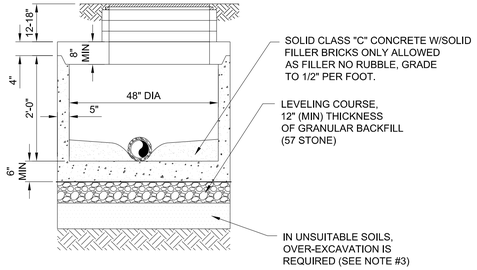
1. MATERIAL: ASTM A-48 CLASS 35B GRAY IRON.
2. RING WEIGHT 230 LBS APPROX.
3. COVER WEIGHT 230 LBS. APPROX.
4. ALL DIMENSIONS ARE SHOWN IN INCHES.
5. FOR MANHOLES WHICH WILL BE MAINTAINED BY JEA (INCLUDING UTILITY DEDICATION PROJECTS), THE COVER SHALL INCLUDE THE "JEA" LOGO AND A NEOPRENE GASKET.
6. FOR MANHOLES WHICH WILL BE MAINTAINED BY PARTIES OTHER THAN JEA (SUCH AS PRIVATE SEWER COLLECTION SYSTEMS, PRIVATE (FORCE MAIN) PUMP OUT BOX AND SYSTEMS NOT MAINTAINED BY JEA), THE COVER SHALL INCLUDE "SANITARY SEWER" GENERIC LETTERING (NO "JEA" LOGO OR NEOPRENE GASKET).

SANITARY SEWER MANHOLE FRAME AND COVER

JANUARY 2022 PLATE S-1



TYPE - "C" MANHOLE



TYPE - "C" MANHOLE WITH FLAT TOP

SECTION VIEWS

NOTES:

1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
2. THE INTERIOR AND EXTERIOR OF MANHOLE AND INTERIOR OF ADJUSTMENT RINGS SHALL BE GIVEN TWO COAT OF BITUMINOUS WATERPROOFING MATERIAL.
3. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).

SANITARY SEWER TYPE "C" MANHOLE 8"-21" SEWERS

JANUARY 2022 PLATE S-6

gai consultants
12574 Flagler Center Blvd., Suite 202
Jacksonville, Florida 32258
904-363-1116
EB9951

NO.	BY	DATE	REVISIONS
6.			
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3.			
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1.			

DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

JEA Building Community

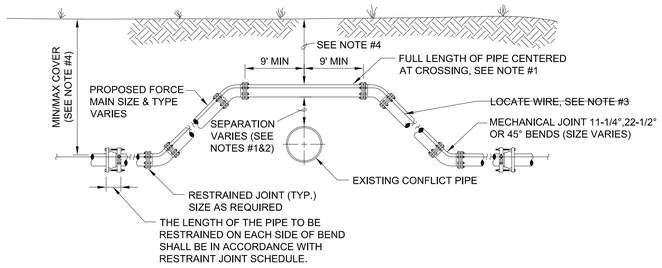
JEA FORCE MAIN DETAILS

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED
NO. SHEETS 43
SHEET NO. 40
DRAWING NO. DET-10

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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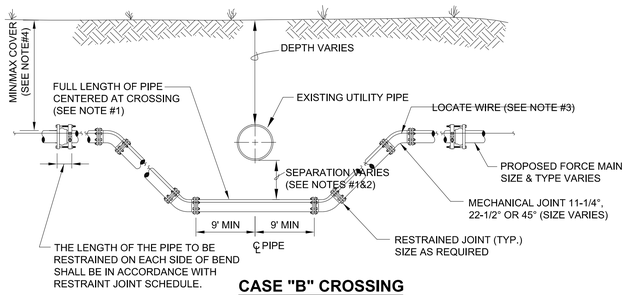
CASE "A" CROSSING

NOTES:

1. IF EXISTING CONFLICT PIPE IS A WATER OR RECLAIMED WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSINGS.
2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-26 & S-27).
3. LOCATING WIRE REQUIRED: SEE DETAIL S-49.
4. THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREAS, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS PRE-APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
5. THE SOILS BETWEEN THE MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.

ADJUSTMENT OVER EXISTING UTILITIES MECHANICAL RESTRAINTS

JANUARY 2022 PLATE S-39



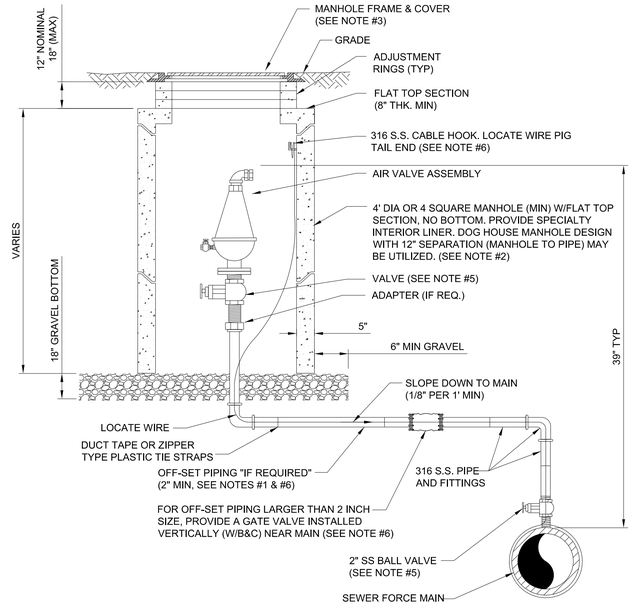
CASE "B" CROSSING

NOTES:

1. IF EXISTING CONFLICT PIPE IS A WATER OR RECLAIMED WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED.A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSINGS.
2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-26 & S-27).
3. LOCATING WIRE REQUIRED: SEE DETAIL S-49.
4. THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREAS, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS PRE-APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
5. THE SOILS BETWEEN THE MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.

ADJUSTMENT UNDER EXISTING UTILITIES MECHANICAL RESTRAINTS

JANUARY 2022 PLATE S-41

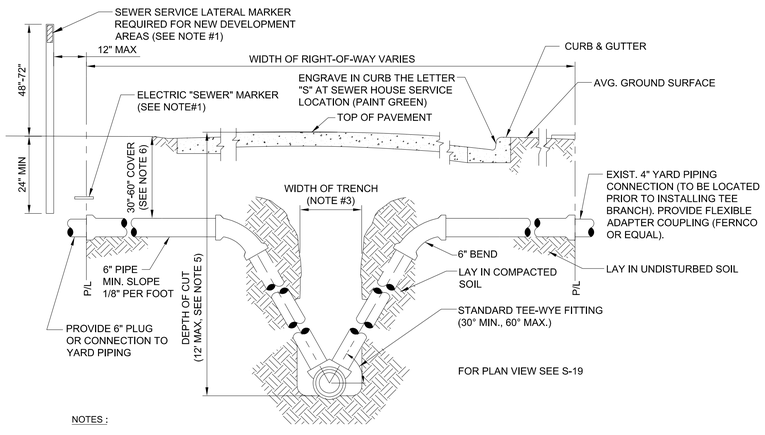


NOTES:

1. THE AIR ASSEMBLY MANHOLE SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA (I.E. LOCATED IN NON-TRAFFIC AREAS). IF OFF-SET PIPING IS REQUIRED, THE PIPING SHALL BE 2 INCH MINIMUM, (SAME SIZE AS AIR VALVE INLET). FOR PIPE SIZES 3 INCH AND SMALLER: PIPING SHALL BE 316 STAINLESS STEEL SCH.40, STD GRADE, THREADED. FOR PIPE SIZES 4 INCH AND LARGER: PIPING SHALL BE 316 STAINLESS STEEL SCH. 10 (MIN), WELDED OR PVC DR-18 PIPE AND FITTINGS-RESTRAINED.
2. THE CONCRETE MANHOLE SHALL INCLUDE A POLYURETHANE SPECIALTY LINER (PER SPEC SECTION 446) TO BE INSTALLED ON THE INTERIOR SURFACES INCLUDING THE RISER SECTION TOP AND THE ADJUSTMENT RINGS. A BITUMINOUS WATERPROOFING MATERIAL SHALL BE PROVIDED ON THE OUTSIDE SURFACES OF THE MANHOLE.
3. FRAME AND COVER SHALL BE JEA STANDARD. THE COVER SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT (REMOVE GASKET IF NECESSARY FROM THE UNDER SIDE OF STANDARD JEA COVER). THE COVER (WHEN FLIPPED OPEN) MUST CLEAR THE AIR VALVE ASSEMBLY AT ALL TIMES OR A SQUARE TOP WITH ALUMINUM DOOR SHALL BE PROVIDED (NON-TRAFFIC LOCATIONS ONLY).
4. FOR PIPE SIZES 3 INCH AND SMALLER, PROVIDE A STAINLESS STEEL BALL VALVE (2" MIN). FOR PIPE SIZES 4 INCH AND LARGER, PROVIDE A FLANGE GATE VALVE (WHEEL OPERATOR) OR PLUG VALVE. (LEVER ARM OPERATOR) SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
5. FOR A 2" AIR VALVE, PROVIDE 2" STAINLESS STEEL BALL VALVE AT THE MAIN. FOR AIR VALVES LARGER THAN 2" SIZE, PROVIDE A TAPPING SLEEVE OR DUCTILE IRON TEE FITTING. ALSO, FOR OFF-SET PIPING LARGER THAN 2 INCH SIZE, PROVIDE A GATE VALVE (INSTALLED VERTICALLY NEAR MAIN). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE.

AIR VALVE ASSEMBLY INSIDE MANHOLE

JANUARY 2022 PLATE S-29

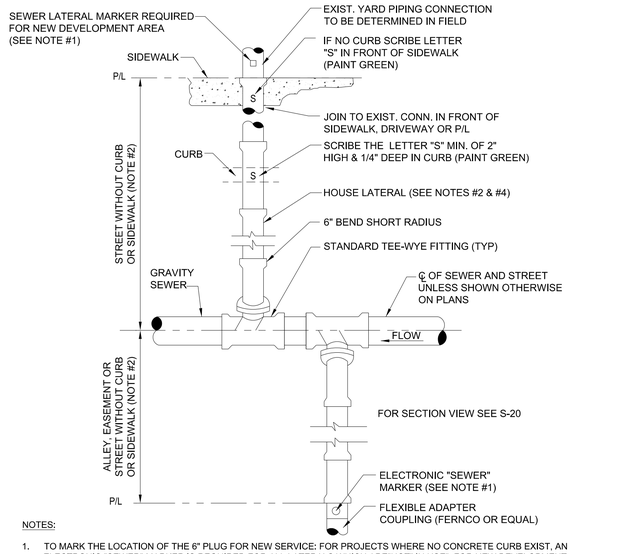


NOTES :

1. TO MARK THE LOCATION OF THE 6" PLUG FOR NEW SERVICE: FOR PROJECTS WHERE NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER IS REQUIRED FOR ALL LATERALS WHICH ARE"NOT" IN USE", FOR NEW DEVELOPMENT AREAS WHERE THE SEWER LATERAL IS "NOT IN USE", A LANDSCAPE TIMBER OR 3x3 MIN. P.T. POST (TOP PAINTED GREEN) SHALL BE INSTALLED. WHERE REQUIRED BY JEA OR NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER SHALL BE INSTALLED TO MARKER SHALL ALSO BE INSTALLED.
2. THE MINIMUM SIZE OF ALL HOUSE LATERALS SHALL BE 6 INCHES. THE MAXIMUM LENGTH OF A HOUSE LATERAL SHALL BE 60 FEET (LENGTH BETWEEN SEWER MAIN OR MANHOLE TO CUSTOMERS PROPERTY LINE).
3. SEE MEASUREMENT AND PAYMENT SECTION FOR MAXIMUM PAYMENT WIDTHS.
4. ALL GRAVITY SEWER MAINS AND ASSOCIATED SEWER LATERAL PIPE AND FITTINGS (INCLUDING THE TEE-WYE FITTING) SHALL BE PVC SDR-26.
5. UNLESS APPROVED OTHERWISE BY A JEA O&M MANAGER, NO GRAVITY SEWER MAIN WITH SEWER SERVICE LATERALS SHALL BE CONSTRUCTED WITH A "DEPTH OF CUT" GREATER THAN 12 FEET.
6. SEWER SERVICE LATERALS ASSOCIATED WITH GRAVITY SEWER MAINS WHICH ARE DEEPER THAN 12 FEET, MUST BE ROUTED TO A GRAVITY SEWER HIGH-LINE, A MANHOLE OR OTHER JEA APPROVED METHOD.
7. THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER, WHERE POSSIBLE (CONTINGENT UPON MEETING THE CUSTOMER'S ON-SITE CONDITIONS AND LOCAL CONSTRUCTION STANDARDS). A LATERAL REQUIRING MORE THAN 60" OF COVER MUST BE APPROVED, PRIOR TO CONSTRUCTION, BY JEA.

HOUSE LATERAL - SECTION VIEW

JANUARY 2022 PLATE S-20



NOTES:

1. TO MARK THE LOCATION OF THE 6" PLUG FOR NEW SERVICE: FOR PROJECTS WHERE NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER IS REQUIRED FOR ALL LATERALS WHICH ARE"NOT" IN USE", FOR NEW DEVELOPMENT AREAS WHERE THE SEWER LATERAL IS "NOT IN USE", A LANDSCAPE TIMBER OR 3x3 MIN. P.T. POST (TOP PAINTED GREEN) SHALL BE INSTALLED. WHERE REQUIRED BY JEA OR NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER SHALL BE INSTALLED TO MARKER SHALL ALSO BE INSTALLED.
2. THE MINIMUM SIZE OF ALL HOUSE LATERALS SHALL BE 6 INCHES. THE MAXIMUM LENGTH OF A HOUSE LATERAL SHALL BE 60 FEET (LENGTH BETWEEN SEWER MAIN OR MANHOLE TO CUSTOMERS PROPERTY LINE).
3. NO SEWER SERVICE CONNECTIONS PERMITTED ON GRAVITY SEWER PIPE WHICH ARE 16" AND LARGER.
4. ALL GRAVITY SEWER MAINS AND ASSOCIATED SEWER LATERAL PIPE AND FITTINGS (INCLUDING THE TEE-WYE FITTING) SHALL BE PVC SDR-26.

HOUSE LATERAL - PLAN VIEW

JANUARY 2022 PLATE S-19

gai consultants
12574 Flagler Center Blvd., Suite 202
Jacksonville, Florida 32258
904-363-1116
EB9951

NO.	BY	DATE	REVISIONS
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1.			

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

JEA Building Community

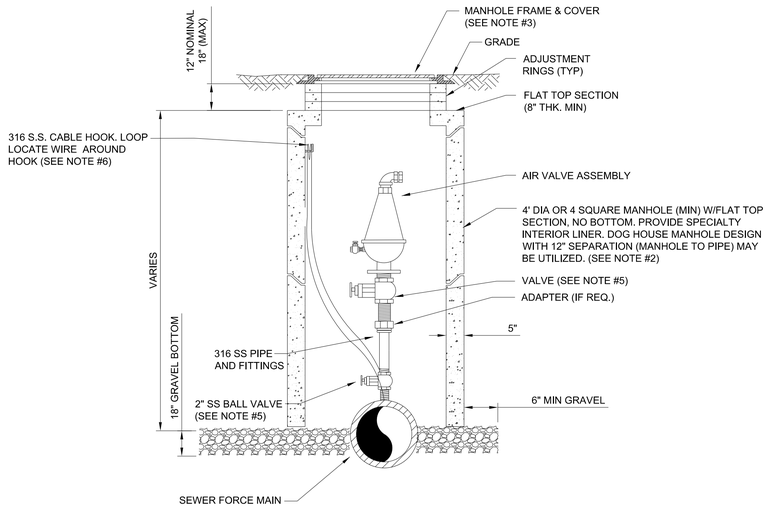
JEA FORCE MAIN DETAILS

NO. SHEETS 43
SHEET NO. 41
DRAWING NO. DET-11
PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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NOTES:

1. THE AIR ASSEMBLY MANHOLE SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA (I.E. LOCATED IN NON-TRAFFIC AREAS).
2. THE CONCRETE MANHOLE SHALL INCLUDE A POLYURETHANE SPECIALTY LINER (PER SPEC SECTION 446) TO BE INSTALLED ON THE INTERIOR SURFACES INCLUDING THE RISER SECTION TOP AND THE ADJUSTMENT RINGS. A BITUMINOUS WATERPROOFING MATERIAL SHALL BE PROVIDED ON THE OUTSIDE SURFACES OF THE MANHOLE.
3. FRAME AND COVER SHALL BE JEA STANDARD. THE COVER SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT (REMOVE GASKET IF NECESSARY FROM THE UNDER SIDE OF STANDARD JEA COVER). THE COVER (WHEN FLIPPED OPEN) MUST CLEAR THE AIR VALVE ASSEMBLY AT ALL TIMES OR A SQUARE TOP WITH ALUMINUM DOOR SHALL BE PROVIDED (NON-TRAFFIC LOCATIONS ONLY).
4. FOR PIPE SIZES 3 INCH AND SMALLER, PROVIDE A STAINLESS STEEL BALL VALVE (2" MIN). FOR PIPE SIZES 4 INCH AND LARGER, PROVIDE A FLANGE GATE VALVE (WHEEL OPERATOR) OR PLUG VALVE. (LEVER ARM OPERATOR) SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
5. FOR A 2" AIR VALVE, PROVIDE 2" STAINLESS STEEL BALL VALVE AT THE MAIN. FOR AIR VALVES LARGER THAN 2" SIZE, PROVIDE A TAPPING SLEEVE OR DUCTILE IRON TEE FITTING. ALSO, FOR OFF-SET PIPING LARGER THAN 2 INCH SIZE, PROVIDE A GATE VALVE (INSTALLED VERTICALLY NEAR MAIN). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE.

AIR VALVE ASSEMBLY INSIDE MANHOLE IN ROW

JANUARY 2022 PLATE S-29B

PVC PIPE RESTRAINT NOTES:

1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: PVC PIPE, SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE.
3. BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
4. VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, Lu IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. LI IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
5. TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
6. HDPE TO PVC TRANSITIONS: THE PVC PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).
7. THE INSTALLATION OF BELL HARNESS RESTRAINTS AT PVC JOINTS (DR-18 & 25 PIPE) SHALL BE COMPLETED PER THE MANUFACTURERS RECOMMENDATION, WHICH INCLUDES NOT OVER TIGHTENING THE PARALLEL RODS/NUTS. THESE NUTS SHOULD ONLY BE SNUG TIGHT. THE HOME MARKS ON THE PIPE SHOULD ALWAYS BE VISIBLE AFTER THE RESTRAINT IS INSTALLED. OVERHOMING THE JOINT MAY CAUSE A FAILURE AT THE BELL RESULTING IN A SERVICE OUTAGE.

LENGTH (L) TO BE RESTRAINED (SEE PLATE Nos. 38C & 38D FOR ADDITIONAL DETAILS)

NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS				VERTICAL OFFSETS 45° BENDS (SEE NOTE 4)		VALVES OR DEAD ENDS
	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	UPPER L (FT.)	LOWER L (FT.)	L (FT.)
4	21	9	5	3	17	3	47
6	30	13	6	3	23	4	66
8	38	16	8	4	30	6	86
10	45	19	9	5	36	7	103
12	53	22	11	6	43	8	121
14	61	26	13	6	50	9	140
16	66	28	14	7	55	10	154
18	73	30	15	8	60	11	170
20	79	33	16	8	66	12	186
24	79	33	16	8	77	15	185
30	93	39	19	10	97	17	222
36	106	39	21	11	107	20	257
42	117	49	24	12	120	24	289
48	144	53	26	13	133	26	321

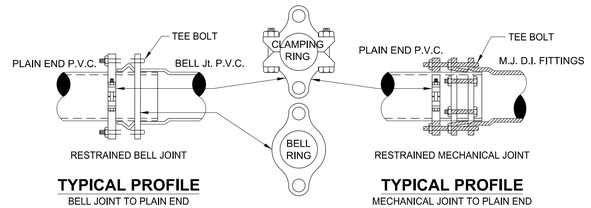
REDUCERS	
SIZE (IN.)	L (FT.)
6x4	34
8x6	36
8x4	62
10x8	35
10x6	63
12x10	36
12x8	64
16x12	66
16x10	92
20x18	35
20x16	66
20x12	117
24x20	56
24x18	80
24x16	101
30x24	78
30x20	121
36x30	78
36x24	141
42x36	75
42x30	140
48x42	75
48x36	139

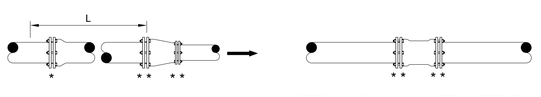
TEES SEE NOTE 5		
RUN SIZE (IN.)	BRANCH SIZE (IN.)	L (FT.)
4	4	F.O.
4	6	10
	4 < LESS	F.O.
8	8	29
	6 < LESS	F.O.
10	10	45
	8	13
	6 < LESS	F.O.
12	12	62
	10	32
	8 < LESS	F.O.
16	16	94
	12	39
	10	5
	10 < LESS	F.O.
20	20	125
	16	76
	12	14
	10 < LESS	F.O.
24	24	124
	20	84
	16	36
	12 < LESS	F.O.
30	30	159
	24	104
	20	60
	16	5
	16 < LESS	F.O.
36	36	192
	30	142
	24	83
	20	33
	16 < LESS	F.O.
42	42	223
	36	178
	30	124
	24	59
	20	5
	16 < LESS	F.O.
48	48	253
	42	209
	36	162
	30	104
	24	34
	20 < LESS	F.O.

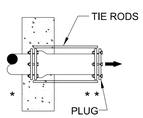
F.O. = FITTING ONLY

PVC PIPE RESTRAINT JOINT SCHEDULE

JANUARY 2022 PLATE S-38A







NO. OF TIE RODS REQUIRED

3" - 8"	DIAMETER MAIN - 2 TIE RODS REQUIRED PER JOINT (3/4" ROD)
10" - 12"	DIAMETER MAIN - 4 TIE RODS REQUIRED PER JOINT (3/4" ROD)
14" - 16"	DIAMETER MAIN - 6 TIE RODS REQUIRED PER JOINT (3/4" ROD)
18" - 20"	DIAMETER MAIN - 8 TIE RODS REQUIRED PER JOINT (3/4" ROD)
24"	DIAMETER MAIN - 12 TIE RODS REQUIRED PER JOINT (3/4" ROD)
30" - 36"	DIAMETER MAIN - 14 TIE RODS REQUIRED PER JOINT (1" ROD)
42" - 48"	DIAMETER MAIN - 16 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
54"	DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)

DEAD - END THRUST COLLAR ANCHOR

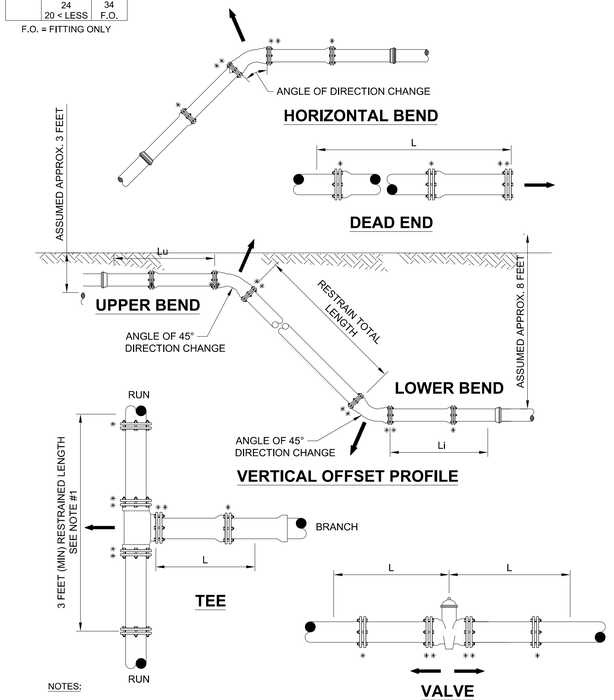
TO BE USED INSTEAD OF TOTAL RESTRAINED LENGTH (OPTIONAL) SIZE AS PER THRUST BLOCK DETAIL (W-38). SEE DETAILS W-36 & W-37.

GENERAL NOTE:

1. PAY ITEM " * " DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIS.
2. PAY ITEM " ** " DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.
3. ➡ INDICATES DIRECTION OF THRUST FORCE.

MECHANICAL RESTRAINT DETAILS - I

JANUARY 2022 PLATE S-38C



NOTES:

1. TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 6 FEET (MIN.). THE PROJECT ENGINEER CAN INCREASE THIS LENGTH TO REDUCE THE NUMBER OF RESTRAINS REQUIRED. ANY CHANGES TO THIS TABLE MUST BE SUMMITTED TO JEA FOR APPROVAL.
2. PAY ITEM "*" DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIC.
3. PAY ITEM "**" DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.

MECHANICAL RESTRAINT DETAILS - II

JANUARY 2022 PLATE S-38D

gai consultants
12574 Flagler Center Blvd., Suite 202
Jacksonville, Florida 32258
904-363-1116
EB9951

NO.	BY	DATE	REVISIONS
6.			
5.			
4.			
3.			
2.			
1.			

DESIGN ENGINEER: MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO. 74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

JEA
Building Community

JEA FORCE MAIN
DETAILS

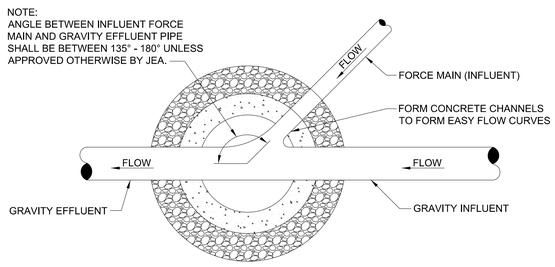
PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 42
DRAWING NO. DET-12

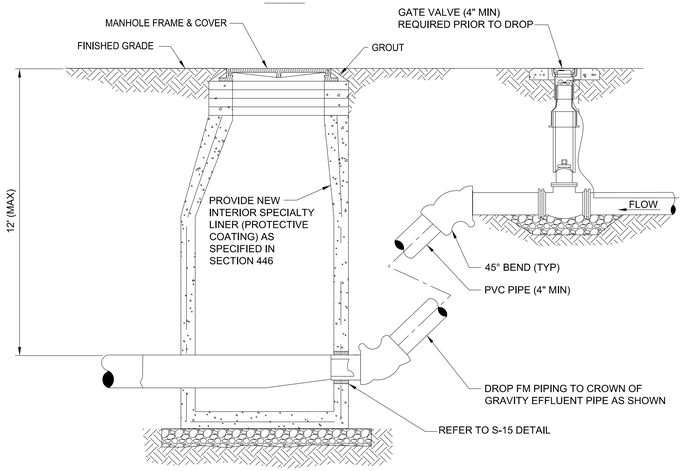
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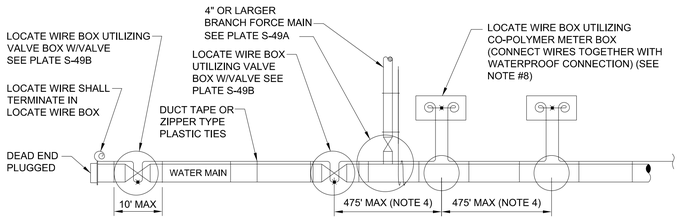
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PLAN



SECTION



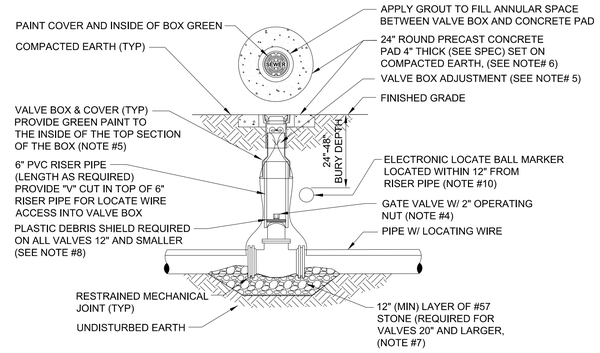
LOCATE WIRE SYSTEM

NOTES:

1. LOCATING WIRE TO BE INSTALLED IN EITHER THE ONE OR ELEVEN O'CLOCK POSITION ON ALL DUCTILE IRON 0R PVC (PRESSURE MAINS). LOCATE WIRE SHALL ALSO BE INSTALLED ON ALL (HDPE) POLY MAIN PIPING (1:00 OR 11:00 POSITION, IF POSSIBLE).
2. SECURE LOCATING WIRE TO PVC FORCE MAIN BY USE OF DUCT TAPE OR ZIPPER TYPE PLASTIC TIE STRAPS SPACED AT A MAXIMUM DISTANCE OF TEN (10') AND AT EACH SIDE OF BELL JOINT OR FITTING.
3. THE ENTIRE LOCATING SYSTEM SHALL BE SUBJECTED TO TESTING TO DETERMINE ITS RELIABILITY. WHERE INSTALLED UNDER PAVEMENT AREAS, TESTING SHALL BE DONE PRIOR TO THE PLACEMENT OF PAVEMENT, UNLESS APPROVED OTHERWISE BY JEA.
4. LOCATING WIRE SHALL TERMINATE WITHIN AN ACTIVE VALVE BOX (WITH A VALVE) OR A METER BOX (IF NO VALVE) AT 475' INTERVALS. SEE DETAIL PLATE S-49B. WIRE CONNECTIONS BELOW GROUND (OUTSIDE OF A BOX) SHALL BE AVOIDED.
5. LOCATING WIRE SHALL BE 12 GAUGE COPPER WIRE WITH .03 INCHES (MINUMUM) HDPE INSULATION THICKNESS, 0.141 INCHES (MINIMUN) O.D. RATED BREAK LOAD 250LBS., UF RATED (DIRECT BURIAL), GREEN COLOR. FOR HDD INSTALLATIONS, THE LOCATE WIRE SHALL BE COPPER CODED STEEL AS SPECIFIED IN SPEC. SECTION 750.
6. "●" INDICATES THAT THE WIRES ARE CONNECTED TOGETHER WITH WATERPROOF CONNECTION. (SEE DETAIL W-49B)
7. "◎" INDICATES A WIRE PIG-TAIL (24" LONG)
8. AN "LW" CUT SHALL BE CARVED IN THE CONCRETE CURB AND PAINTED AT ALL LOCATE WIRE BOXES.
9. FOUR LANES OF TRAFFIC (HAVING TWO LANES OF TRAFFIC IN EACH DIRECTION) OR GREATER THE LOCATE WIRE AND VALVE BOX SHALL BE OFF-SET TO THE RIGHT-OF-WAY.

LOCATE WIRE CONSTRUCTION FOR FORCE MAINS

JANUARY 2022 PLATE S-49

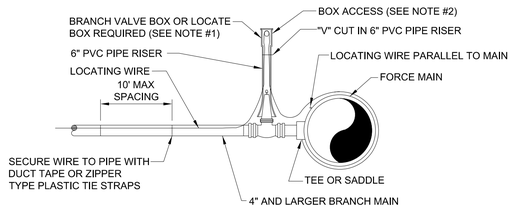


NOTES:

1. FOR UNPAVED LOCATIONS, A PRECAST CONCRETE VALVE PAD SHALL BE PROVIDED AND INSTALLED FLUSH WITH GRADE. CONCRETE PAD IS NOT REQUIRED FOR VALVE LOCATED IN THE ROADWAY, UNLESS SHOWN OR NOTED OTHERWISE.
2. LOCATING WIRE IS REQUIRED ON ALL PRESSURE PIPING (SEE DETAIL S-49).
3. A "V" CUT SHALL BE CARVED IN THE CURB CLOSEST/(ASPHALT IF NO CURB) ADJACENT TO ALL BELOW GRADE VALVES. THE "V" CUT IS TO BE PAINTED GREEN.
4. IN PAVED AREAS, INSTALL VALVE AT A DEPTH TO ALLOW A 12" MIN. DISTANCE BETWEEN THE VALVE COVER PLATE AND THE TOP OF THE VALVE OPERATING NUT. OUTSIDE OF PAVED AREAS (GRASS), INSTALL VALVE AT A DEPTH TO ALLOW A 6" MINIMUM DISTANCE BETWEEN THE VALVE COVER AND THE TOP OF THE VALVE OPERATING NUT. OPERATING NUT/STEM EXTENSION SHALL BE PROVIDED (WHERE APPLICABLE) SO THAT THE OPERATING NUT WILL BE NO MORE THAN 30 INCHES BELOW FINISHED GRADE.
5. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS. ROUTE LOCATE WIRES THRU A "V" CUT IN THE TOP OF THE 6" PVC RISER PIPE FOR LOCATE WIRE ACCESS INTO VALVE BOX. THE LOCATE WIRES WITH A 24" LONG PIG-TAIL AT THE TOP SHALL BE CONNECTED TOGETHER WITH A WIRE NUT.
6. BRASS IDENTIFICATION TAG INDICATING "SEWER", VALVE SIZE, DIRECTION AND TURNS TO OPEN & VALVE TYPE. PROVIDE A ½" HOLE IN BRASS TAG AND ATTACH TAG (TWIST WIRE AROUND TAG) TO THE END OF THE LOCATE WIRE. TAGS ARE NOT REQUIRED ON VALVES INSTALLED ON FIRE HYDRANT BRANCH LINES.
7. IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (ROUND OR SQUARE) POURED CONCRETE PAD W/2 - #4 REBAR AROUND PERIMETER, MAY BE USED.
8. GRAVEL SHALL BE PROVIDED UNDER ALL VALVES 20" AND LARGER. THE MINIMUM VERTICAL LIMIT OF GRAVEL IS 12" UNDER THE VALVE UP TO ⅓ THE OVERALL HEIGHT OF THE VALVE.
9. FOR VALVES 12 INCH AND SMALLER, PROVIDE A WHITE OR BLACK PLASTIC DEBRIS SHIELD WHICH INSTALLS BELOW THE OPERATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE OPERATING NUT AND MINIMIZE INFILTRATION. SHIELD SHALL BE BY AFC, BOXLOK OR APPROVED EQUAL.
10. ALL VALVES SHALL BE INSTALLED WITH AN ELECTRIC LOCATE MARKER. MARKER SHALL BE 4" DIA. COLOR CODED BALL MARKER (3M-1404XR FOR SEWER).

SEWER VALVE DETAIL

JANUARY 2022 PLATE S-30



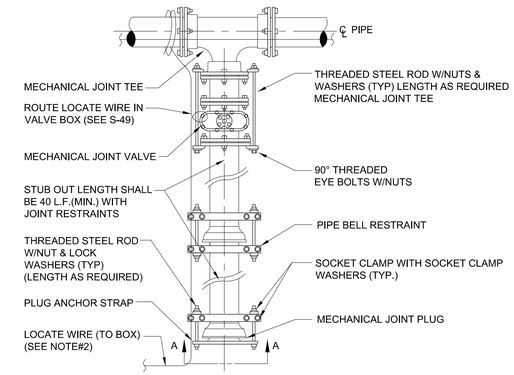
BRANCH FORCE MAIN
(4" AND LARGER SEWER MAIN)

NOTE:

1. NOTE THAT THE BRANCH WIRE IS NOT CONNECTED TO THE MAIN WIRE.
2. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE SECTION (SEE S-30).
3. LOCATE WIRE BOX SHALL BE INSTALLED OUTSIDE OF SIDEWALKS, DRIVEWAYS AND PAVEMENT.
4. "◎" INDICATES A WIRE PIG-TAIL (4' LONG)

LOCATE WIRE FOR BRANCH MAIN

JANUARY 2022 PLATE S-49A



PLAN



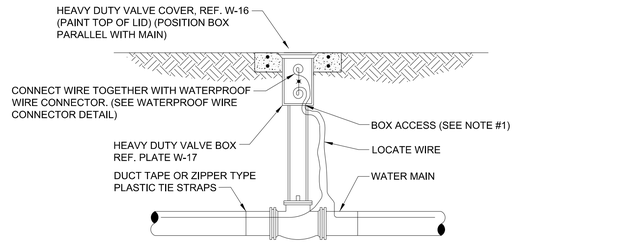
SECTION "A-A"

NOTES:

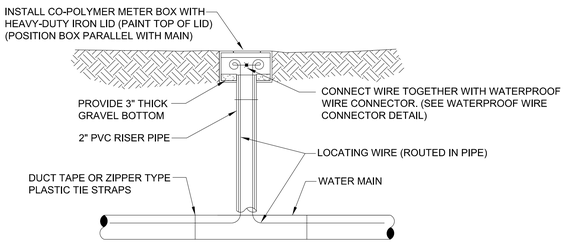
1. IN LIEU OF BELL/ROD RESTRAINTS, MECHANICAL JOINT RESTRAINTS MAY BE USED.
2. LOCATING WIRE REQUIRED, UTILIZING A LOCATE WIRE BOX INSTALLED AT PLUG LOCATION.
3. NUMBER OF TIE RODS REQUIRED IS AS FOLLOWS:
   - 3" - 8" DIAMETER MAIN - 2 TIE RODS REQUIRED PER JOINT (3/4" ROD)
   - 10" - 12" DIAMETER MAIN - 4 TIE RODS REQUIRED PER JOINT (3/4" ROD)
   - 14" - 16" DIAMETER MAIN - 6 TIE RODS REQUIRED PER JOINT (3/4" ROD)
   - 18" - 20" DIAMETER MAIN - 8 TIE RODS REQUIRED PER JOINT (3/4" ROD)
   - 24" DIAMETER MAIN -12 TIE RODS REQUIRED PER JOINT (3/4" ROD)
   - 30" - 36" DIAMETER MAIN -14 TIE RODS REQUIRED PER JOINT (1" ROD)
   - 42" - 48" DIAMETER MAIN -16 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
   - 54" DIAMETER MAIN -18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
4. THE LOCATION OF THE DEAD END PLUG SHALL NOT BE UNDER PAVEMENT, IF POSSIBLE. THE STUB OUT SHALL EXTEND BEYOND THE INTERSECTION AREAS OR ROAD CROSSING BY 10 FEET (MIN.) WHERE POSSIBLE.

PLUGGED DEAD END USING MECHANICAL RESTRAINTS

JANUARY 2022 PLATE S-44



LOCATE WIRE BOX UTILIZING VALVE BOX



LOCATE WIRE BOX UTILIZING METER BOX

LOCATE WIRE BOX

JANUARY 2022 PLATE S-49B

gai consultants
12574 Flagler Center Blvd., Suite 202
Jacksonville, Florida 32258
904-363-1116
EB9951

NO.	BY	DATE	REVISIONS
6.			
5.			
4.			
3.			
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1.			

DESIGN ENGINEER
MATTHEW M. BOLYARD
FLORIDA REGISTRATION NO.
74635

DESIGNER: MB
DRAWN BY: RJ
DATE: 10/24/2023
CHECKED BY: KS
DATE: 10/24/2023

JEA Building Community

JEA FORCE MAIN DETAILS

PROJ. NO.
DATE: 10/24/2023
SCALE: AS NOTED

NO. SHEETS 43
SHEET NO. 43
DRAWING NO. DET-13

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NASSAU COUNTY ENGINEERING

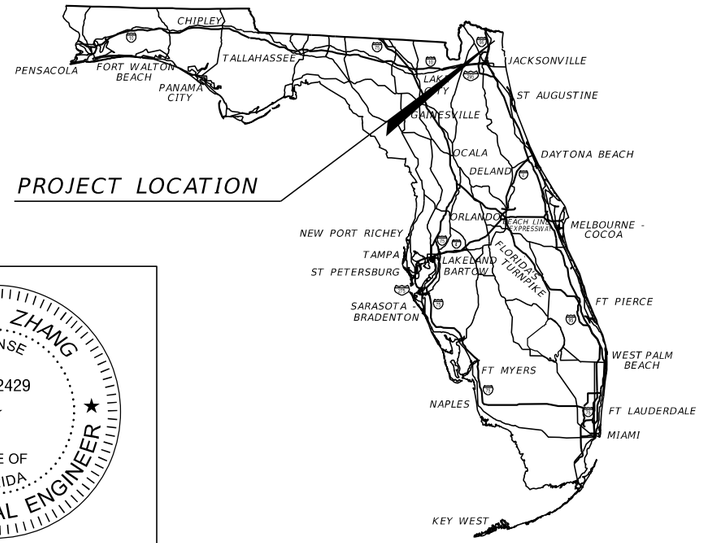
CONTRACT PLANS

WILLIAM BURGESS BLVD. EXTENSION

LIGHTING PLANS

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	TABULATION OF QUANTITIES
L-3	GENERAL NOTES
L-4	POLE DATA
L-5 - L-8	LIGHTING PLAN
L-9	SERVICE PANEL DETAIL
L-10	METER POST DETAIL



WENSHU ZHANG
LICENSE
No. 82429
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ON THE DATE ADJACENT TO THE SEAL

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NASSAU COUNTY
BOARD OF COUNTY COMMISSIONERS

JOHN F. MARTIN, DISTRICT 1
A.M. "HUPP" HUPPMAN, DISTRICT 2
JEFF GRAY, DISTRICT 3
ALYSON MCCOLLOUGH, DISTRICT 4
KLYNT A. FARMER, DISTRICT 5

ROADWAY PLANS
ENGINEER OF RECORD:

WENSHU ZHANG, P.E.
P.E. NO.: 82429
GAI CONSULTANTS, INC
12574 FLAGLER CENTER BLVD., SUITE 202
JACKSONVILLE, FL 32258
CONTRACT NO.:
VENDOR NO.: 251260999-002

NASSAU COUNTY PROJECT MANAGER:

ROBERT T. COMPANION, P.E.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2021/2022 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Nassau County Ordinance 99-17, Roadway and Drainage Standards

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, JULY 2021 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

SHEET NO.
L-1

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			L-5		L-6		L-7		L-8											
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	235		710		471		236								1652		1652	
0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	307		167		155		73								702		702	
0635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	7		10		7		2								26		26	
0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1		1		1		1								4		4	
0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	50		225		40		235								550		550	
0639 3 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1		1		1		1								4		4	
0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1		1		1		1								4		4	
0715 1 11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	LF	2334		2850		2382		564								8130		8130	
0715 61111	LIGHT POLE COMPLETE, F&I, STANDARD POLE STANDARD FOUNDATION, 30' MOUNTING HEIGHT, 8' ARM LENGTH	EA	6		6		6		2								20		20	
0715 7 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	1		1		1		1								4		4	

REVISIONS			
REV	DATE	BY	DESCRIPTION

gai consultants
transforming ideas into reality®
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Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

WENSHU ZHANG, P.E. Lic. No. 82429

SCALE:	AS SHOWN
DATE:	9/26/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	WZ

PROJECT NO. / DASH NO.
B190839.00

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TABULATION OF QUANTITIES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
L-2

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1. THE CONTRACTOR SHALL BE AWARE OF ALL EXISTING AND PROPOSED UTILITIES AS SHOWN IN THE ROADWAY PLANS. THE LOCATIONS OF EXISTING AND PROPOSED UTILITIES ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNER(S) AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND REQUEST UTILITY COMPANIES TO LOCATE AND STAKE UNDERGROUND UTILITIES PRIOR TO EXCAVATING.

2. ALL CONDUIT SHALL BE CAREFULLY CLEANED, BEFORE AND AFTER INSTALLATION. UPON COMPLETION OF THE CONDUIT INSTALLATION, THE CONTRACTOR SHALL CLEAR EACH CONDUIT WITH A TUBE CLEANER EQUIPED WITH A MANDREL OF A DIAMETER NOT LESS THAN EIGHTY PERCENT (80%) OF THE NOMINAL INSIDE DIAMETER OF THE CONDUIT.

3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING THE CONSTRUCTION OPERATION, UNLESS OTHERWISE PERMITTED BY ANY APPLICABLE MAINTENANCE OF TRAFFIC (MOT) OR TEMPORARY TRAFFIC CONTROL (TCP) PLANS.

4. ROADSIDE PULL BOXES SHALL HAVE AN AASHTO HS-20 LOAD RATING AS A MINIMUM.

5. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, EQUIPMENT SPECIFICATIONS OR DESIGN DATA FOR MATERIAL PROPOSED FOR THE PROJECT AND SHALL INCLUDE BUT NOT BE LIMITED TO:

   A) LUMINAIRE AND LUMINAIRE PHOTOMETRICS, SUBMITTAL SHALL INCLUDE A COMPUTER PRINTOUT SHOWING HORIZONTAL FOOT-CANDLE LEVELS TO BE OBTAINED USING THE SUBMITTED LUMINAIRES ON THE PROJECT.
   B) CONDUCTORS, CONDUIT, GROUND RODS AND PULL BOXES.
   C) FUSES, FUSE HOLDERS, SURGE PROTECTION DEVICES (SPD's), POLE CABLE DISTRIBUTION SYSTEM, PANELBOARDS, CIRCUIT BREAKERS, CONTRACTORS, TERMINAL BLOCKS, PHOTO CELLS, CONTROL TRANSFORMERS, AND ENCLOSURES.
   D) LIGHTING POLES INCLUDING ARM.
   E) FOUNDATIONS.
   F) COPIES OF ALL WARRANTIES FROM THE MANUFACTURER.

6. CONDUIT LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. CONDUIT MUST BE PLACED WITHIN THE RIGHT-OF-WAY, BUT CAN BE ADJUSTED TO FIT AROUND EXISTING AND PROPOSED UTILITIES. WHERE PLANNED LOCATION OF LIGHTING CONDUIT RUNS 36" UNDER PAVEMENT IS FOUND TO CONFLICT WITH UNDERGROUND UTILITIES, THE LIGHTING CONDUIT POSITION SHALL BE ALTERED VERTICALLY OR HORIZONTALLY TO AVOID THE CONFLICT AS RECOMMENDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. A 24" ABSOLUTE MINIMUM DEPTH SHALL BE MAINTAINED WHERE LIGHTING CONDUITS ARE RELOCATED CLOSER THAN 36" BELOW THE GROUND SURFACE AND SHALL BE PLACED IN AN ADDITIONAL 3" PVC SLEEVE OR BACKFILLED WITH A MINIMUM OF 4" X 4" OF CONCRETE.

7. PAY ITEM DESCRIPTIONS MAY BE FOUND IN THE CURRENT FDOT BASIS OF ESTIMATES HANDBOOK.

8. 715-61-111: PROPOSED LIGHTING POLE, ARM, AND LUMINAIRE ARE TO CONFORM TO LIGHTING STANDARDS AS OUTLINED IN THE WILLIAM BURGESS CONTEXT AND CONNECTIVITY BLUEPRINT FROM THE NASSAU COUNTY DEPARTMENT OF PLANNING AND ECONOMIC OPPORTUNITY.

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REVISIONS

REV	DATE	BY	DESCRIPTION

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WENSHU ZHANG, P.E. Lic. No. 82429

SCALE:	AS SHOWN
DATE:	9/26/2023
DRAWN:	JD
CHECKED:	RT
APPROVED:	WZ

PROJECT NO. / DASH NO.
B190839.00

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GENERAL NOTES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
L-3

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POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
1	A	455+97.80 ℄ Const. US 17	8'	146	30'	20' FROM EOP	715-4-11
2	A	455+71.49 ℄ Const. US 17	8'	146	30'	8' FROM FOC	715-4-11
3	A	13+58.16 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
4	A	14+05.72 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
5	A	12+24.34 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
6	A	12+63.45 ℄ Const. WBB	8'	146	30'	4' FROM FOC	715-4-11
7	A	454+03.95 ℄ Const. US 17	8'	146	30'	35' FROM EOP	715-4-11
8	A	454+54.76 ℄ Const. US 17	8'	146	30'	4' FROM FOC	715-4-11
9	B	70+24.30 ℄ Const. WBB	8'	146	30'	1' FROM FOSW	715-4-11
10	B	72+00.00 ℄ Const. WBB	8'	146	30'	1' FROM FOSW	715-4-11
11	B	69+51.94 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
12	B	70+46.35 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
13	B	71+46.60 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
14	B	204+00.00 ℄ Const. Theresa Ct.	8'	146	30'	1' FROM BOSW	715-4-11
15	C	306+20.29 ℄ Const. Miner Rd.	8'	146	30'	1' FROM BOSW	715-4-11
16	C	102+46.27 ℄ Const. WBB	8'	146	30'	9' FROM BOSW	715-4-11
17	C	101+88.96 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
18	C	102+81.63 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
19	C	305+53.64 ℄ Const. Miner Rd.	8'	146	30'	1' FROM BOSW	715-4-11
20	C	304+45.20 ℄ Const. Miner Rd.	8'	146	30'	9' FROM FOC	715-4-11
21	D	87+17.25 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
22	D	86+84.79 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11

PEDESTRIAN LIGHTING DESIGN CRITERIA NEW CONSTRUCTION

Average Initial Intensity (Horizontal)	3.0 Foot Candles (Std.) 1.5 Foot Candles (Min.)
Average Initial Intensity (Vertical)	1.5 Foot Candles (Std.) 1.2 Foot Candles (Min.)
Uniformity Ratio Avg./Min.	4:1 Or Less
Max./Min.	10:1 Or Less
Wind Speed	120 MPH

LEGEND

SYMBOLS	DESCRIPTION
⬭—o	Single arm LED teardrop lumininare with shade. Designed for Type III distribution. Luminaire wired for 120 volt operation. Pole mounting height 30 ft. Use curve 1914LED-RLM431-3L40T3-MDL09-A or equal.
——— ∘ ———	Direct buried conduit with lighting conductors inside (conduit and conductor size as shown on plan sheets).
——— ∘ ∘ ———	Directional bored conduit with lighting conductors inside (conduit and conductor size as shown on plan sheets).
□	Pull box. For specifications see Section 635 of Standard Specifications For Road And Bridge Construction.
▯○	Proposed lighting load center.

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WENSHU ZHANG, P.E. Lic. No. 82429

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DATE:	9/26/2023
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CHECKED:	RT
APPROVED:	WZ

PROJECT NO. / DASH NO.: B190839.00

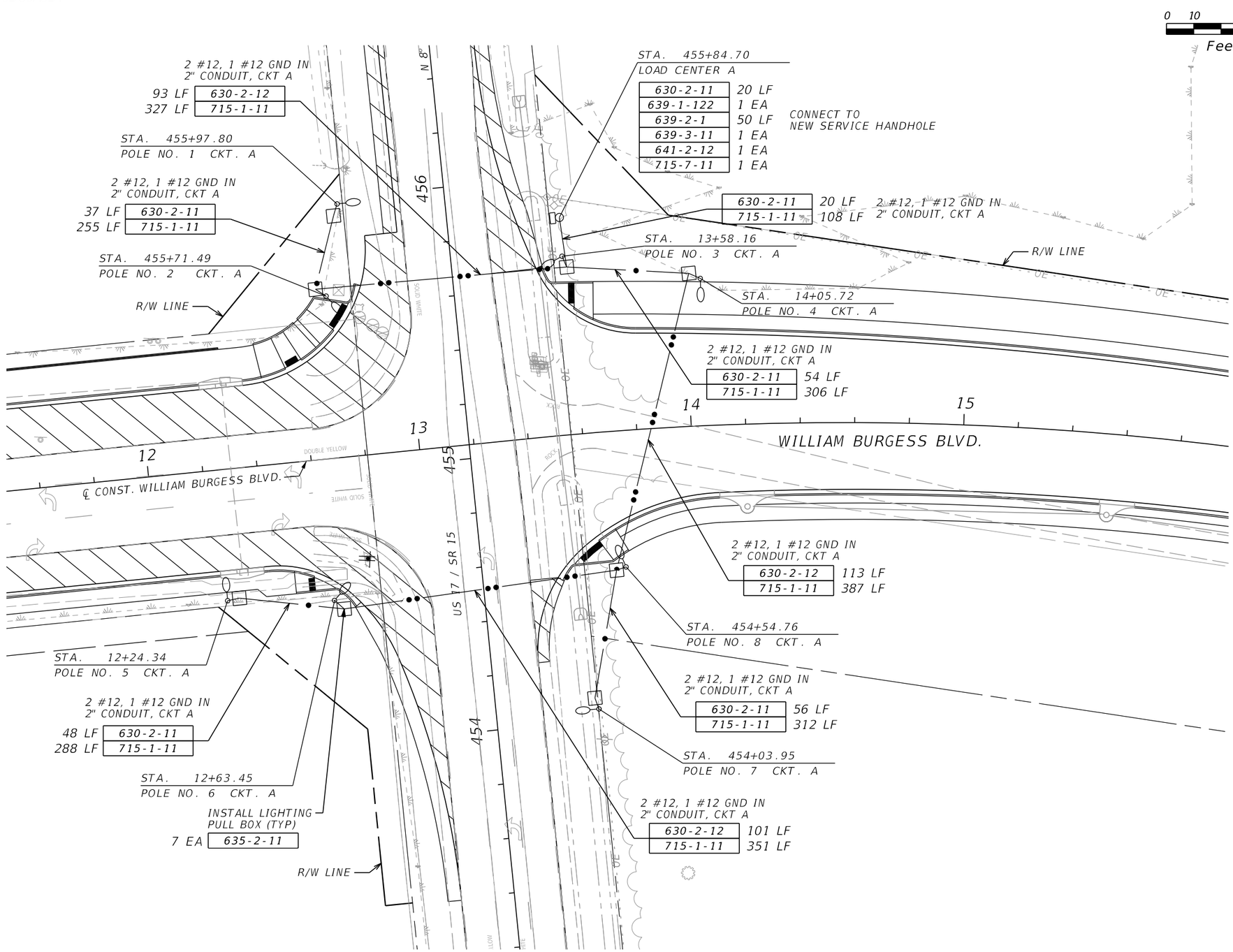
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POLE DATA AND LEGEND SHEET

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. L-4

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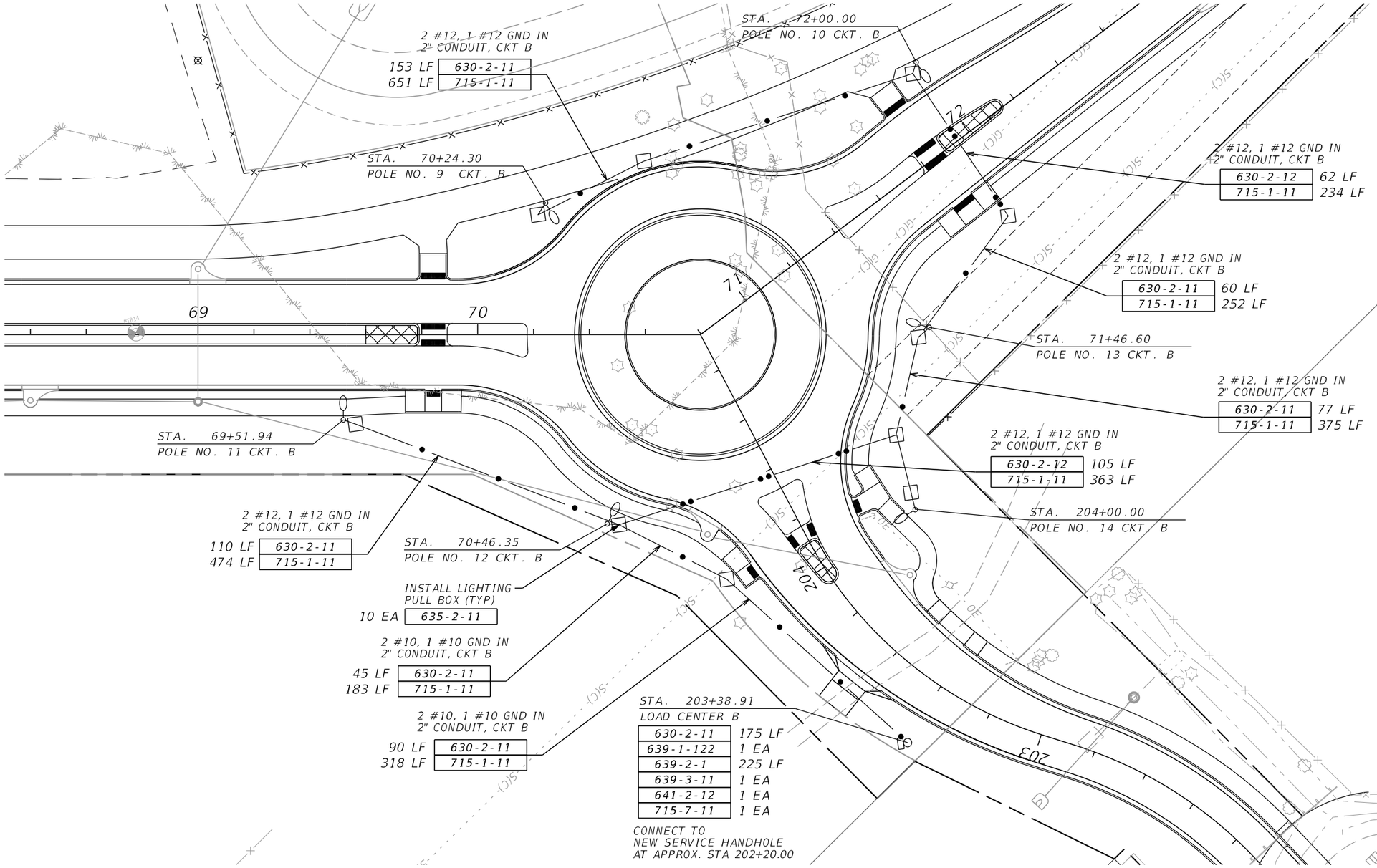
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LIGHTING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
L-5

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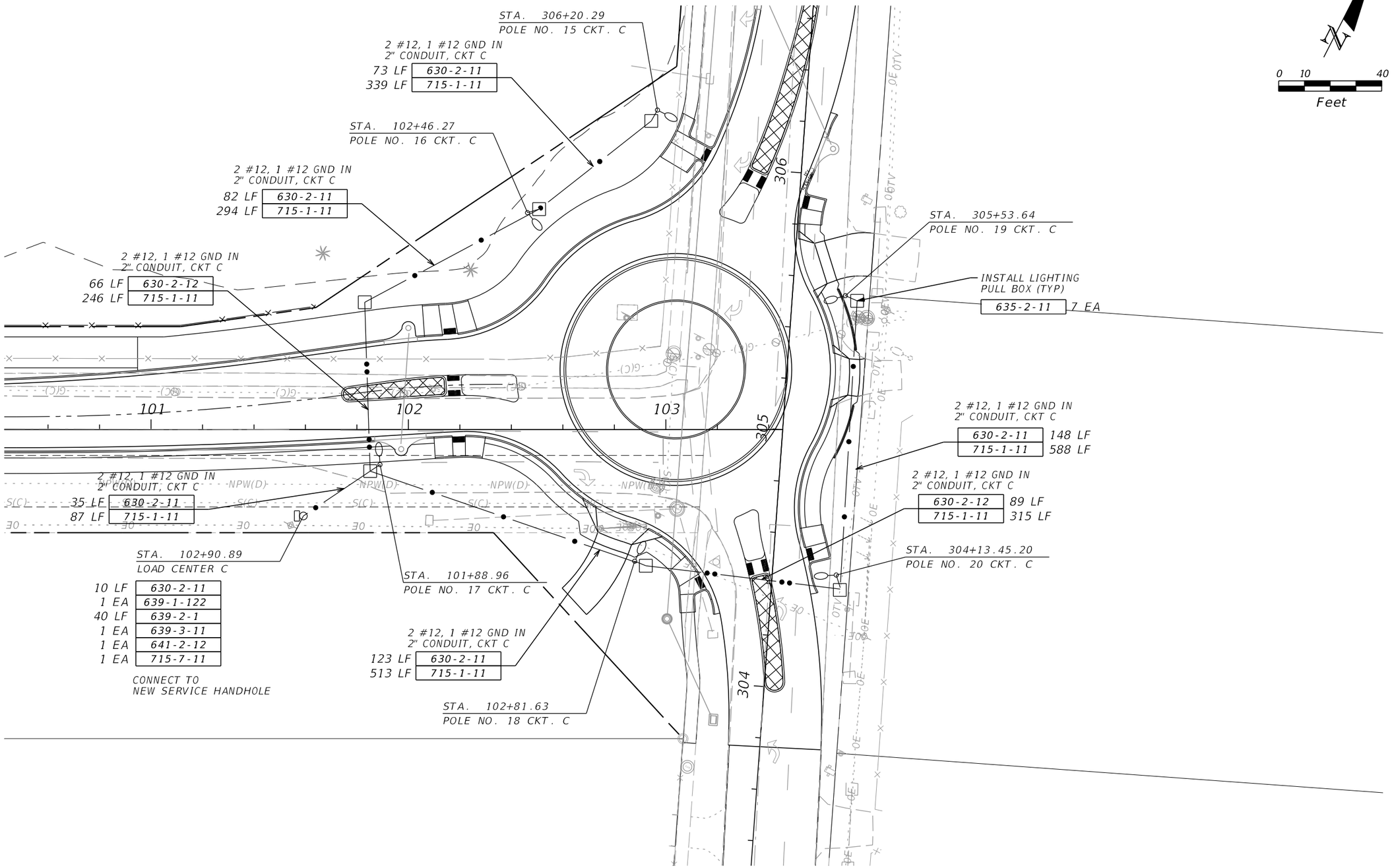
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LIGHTING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
L-6

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APPROVED:	WZ

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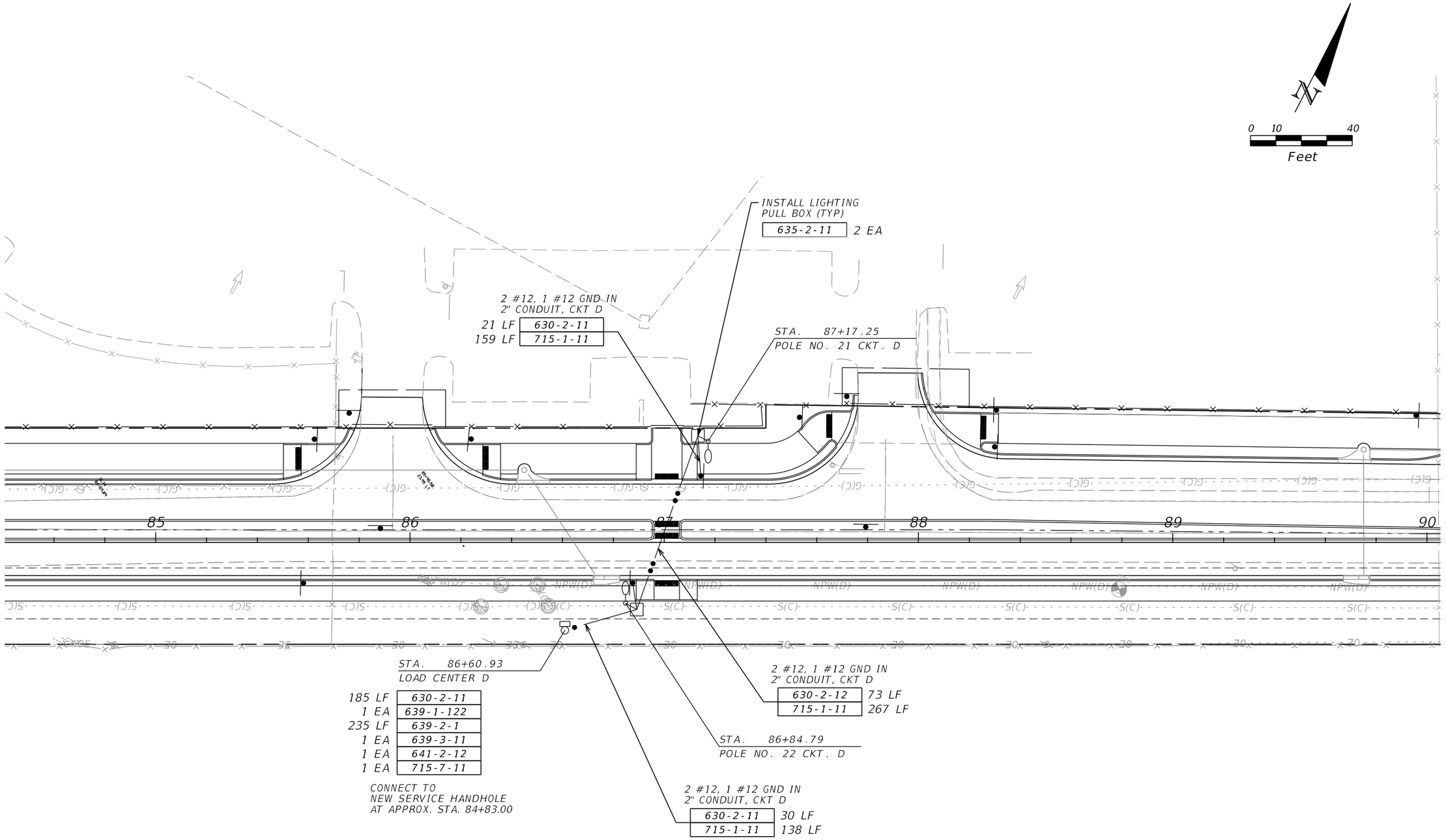
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LIGHTING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

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LIGHTING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.: L-8

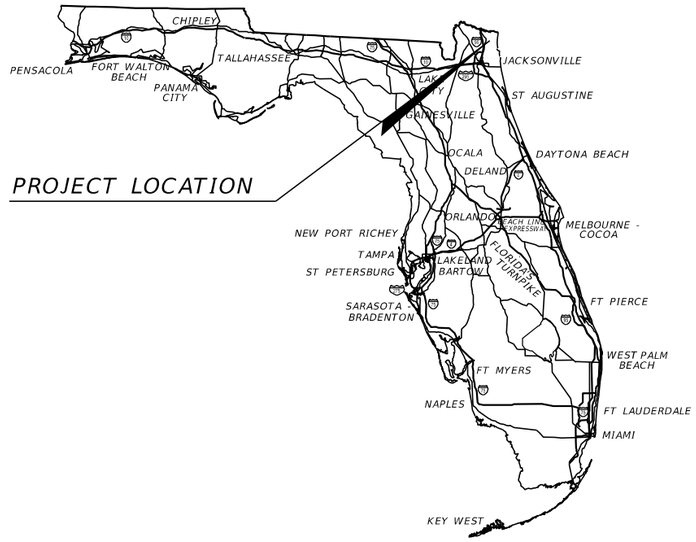
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NASSAU COUNTY ENGINEERING

CONTRACT PLANS

WILLIAM BURGESS BLVD. EXTENSION

SIGNALIZATION PLANS



INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	TABULATION OF QUANTITIES
T-4	GENERAL NOTES
T-5 - T-6	SIGNALIZATION PLAN
T-7	MAST ARM TABULATION
T-8	MAST ARM ASSEMBLY DATA TABLE
T-9	SIGNALIZATION DETAILS
T-10	GUIDESIGN WORKSHEET
T-11	REPORT OF SPT BORINGS

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2021/2022 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Nassau County Ordinance 99-17, Roadway and Drainage Standards

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, JULY 2021 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

NASSAU COUNTY
BOARD OF COUNTY COMMISSIONERS

JOHN F. MARTIN, DISTRICT 1
A.M. "HUPP" HUPPMAN, DISTRICT 2
JEFF GRAY, DISTRICT 3
ALYSON MCCOLLOUGH, DISTRICT 4
KLYNT A. FARMER, DISTRICT 5

SIGNALIZATION PLANS ENGINEER OF RECORD:

RANDAL S. THOMPSON, P.E.
P.E. NO.: 80321
GAI CONSULTANTS, INC
12574 FLAGLER CENTER BLVD., SIUTE 202
JACKSONVILLE, FL 32258
CONTRACT NO.:
VENDOR NO.: 251260999-002

NASSAU COUNTY PROJECT MANAGER:

ROBERT T. COMPANION, P.E.

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SHEET NO.
T-1

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RANDAL STEWART THOMPSON
LICENSE
No. 80321
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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ON THE DATE ADJACENT TO THE SEAL

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JACKSONVILLE, FL 32258
RANDAL S. THOMPSON, P.E. NO. 80321

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SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	TABULATION OF QUATITIES
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T-10	GUIDESIGN WORKSHEET

JOHN A. IYA
LICENSE
No 77294
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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CSI GEO, INC.
2394 ST. JOHNS BLUFF S., SUITE 200
JACKSONVILLE, FL 32246
JOHN A. IYA, P.E. 77294

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SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-11	REPORT OF SPT BORINGS

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RONALD F. HOOGLAND, P.E. Lic. No. 45247

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SIGNATURE SHEET

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
T-2

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			T-4		T-5															
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	932														932		932	
0630 2 12	CONDUIT, FURNISH & INSTALL, JACK & BORE	LF	232														232		232	
0632 7 1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1														1		1	
0635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	22														22		22	
0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1														1		1	
0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	200														200		200	
0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1														1		1	
0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	5														5		5	
0649 21 6	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 50'	EA	2														2		2	
0649 21 10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA	2														2		2	
0650 1 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS			8												8		8	
0650 1 16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM 4 SECTION, 1 WAY	AS			4												4		4	
0653 1 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	2														2		2	
0653 1 12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	AS	3														3		3	
0660 1 110	LOOP DETECTOR, INDUCTIVE, F&I, TYPE 10	EA	10														10		10	
0660 2102	LOOP ASSEMBLY, F&I, TYPE B	AS	4														4		4	
0660 2106	LOOP ASSEMBLY, F&I, TYPE F	AS	8														8		8	
0665 1 11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	8														8		8	
0670 5111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS	1														1		1	
0684 1 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	1														1		1	
0685 1 11	UNINTERRUPTABLE POWER SUPPLY, F&I, LINE INTERACTIVE	EA	1														1		1	
0700 3201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA			4												4		4	
0700 5 21	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12 SF	EA			2												2		2	
0700 5 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA			2												2		2	

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RANDAL S. THOMPSON, P.E. Lic. No. 80321

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TABULATION OF QUANTITIES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
T-3

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1. VERIFY COLOR CODES FOR BOTH SIGNAL AND COMMUNICATION CABLE WITH THE LOCAL MAINTAINING AGENCY BEFORE ORDERING.

2. SPARE CONDUIT RUNS FROM THE CONTROLLER BASE SHALL BE TERMINATED ONE EACH IN THE NEAREST LOOP-IN PULL BOX AND SIGNAL CABLE PULL BOX.

3. ALL TYPE F LOOPS SHALL BE MODIFIED TO 30 FEET IN LENGTH AND SHALL EXTEND 4 FEET IN FRONT OF STOP BAR.

4. WHERE FOOTER OR FOUNDATION ARE TO BE INSTALLED BY AUGERING OR DRILLING, SURVEY AND STAKE OR PAINT TO AN ACCURACY OF 0.1' PRIOR TO REQUESTING UTILITY LOCATES. STAKE OR PAINT THE CENTER OF EACH LOCATION AND CLEARLY LABEL WITH STATION, OFFSET, IDENTIFY STRUCTURE NUMBER, AND DIAMETER OF EXCAVATION IN INCHES.

5. WHERE AUGERING OR DRILLING EXCAVATE THE FIRST 4 FEET BY NON MECHANICAL AND NON DESTRUCTIVE MEANS.

6. WHEN BORING UNDER ROADWAY PAVEMENT, MAINTAIN A BORE DEPTH EQUAL TO TEN TIMES THE BORED DIAMETER OR GREATER AS MEASURED FROM THE TOP OF PAVEMENT TO THE TOP OF THE BORE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

7. SIGNALIZATION WORK SHALL BE PERFORMED IN ACCORDANCE WITH FDOT FY 2021-2022 STANDARD PLANS, AND FDOT JULY 2021 STANDARD SPECIFICATIONS.

8. PAY ITEM DESCRIPTIONS MAY BE FOUND IN THE CURRENT FDOT BASIS OF ESTIMATES HANDBOOK.

9. PRIMARY GROUND ROD SHALL BE LOCATED IN A PULL BOX.

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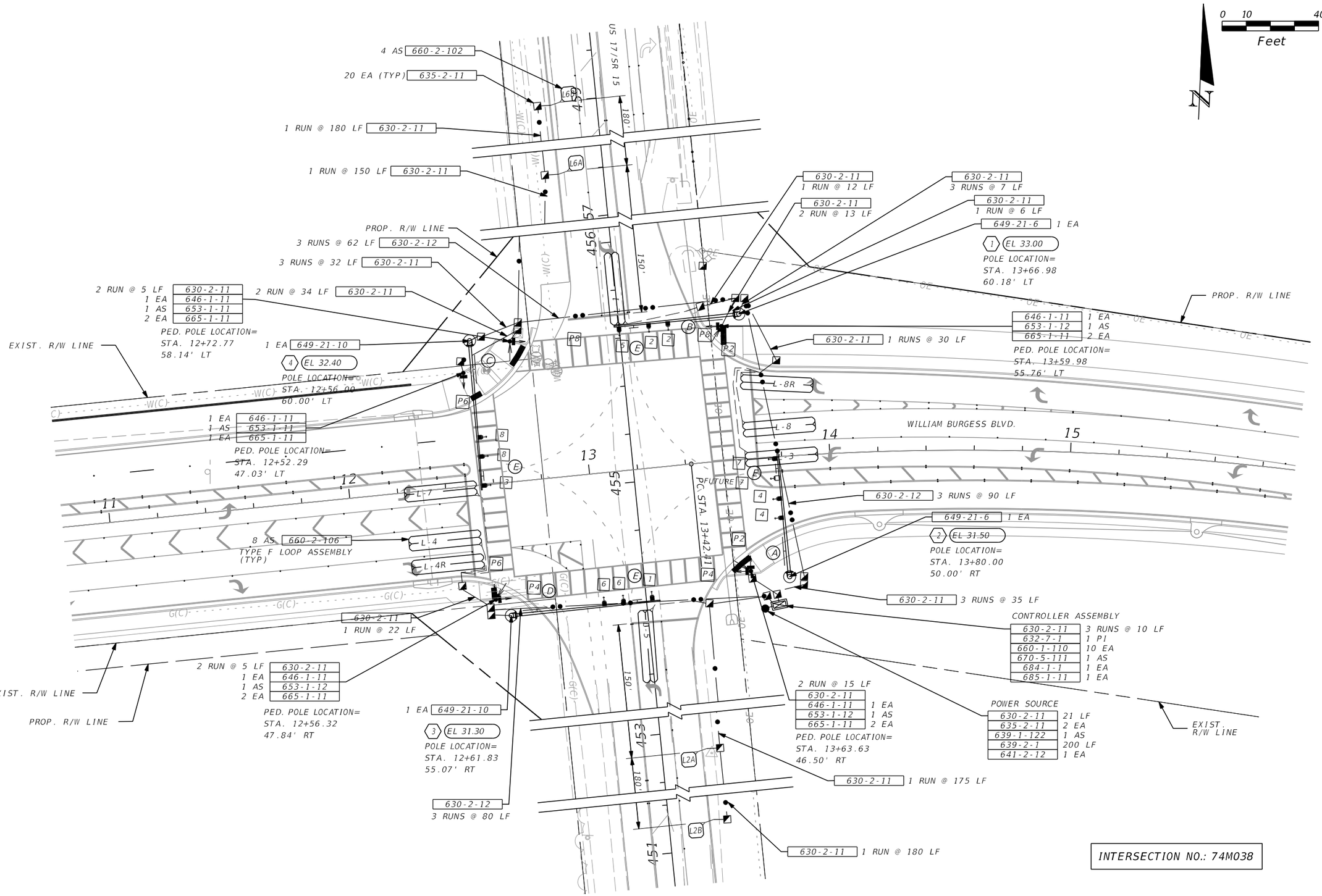
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GENERAL NOTES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
T-4

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SIGNALIZATION PLAN

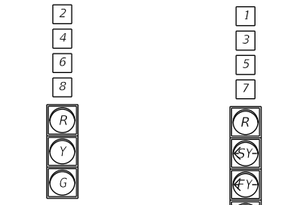
WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
T-5

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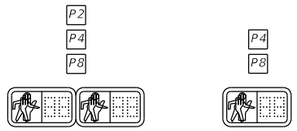
SIGNAL HEAD DETAILS



3-SECT., 1-WAY
8 AS
650-1-14

4-SECT., 1-WAY
4 AS
650-1-16

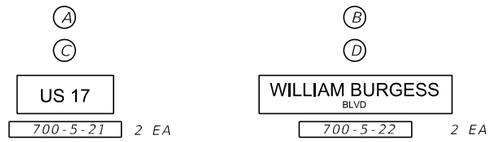
ITEMS 650-1-14 AND 650-1-16 SHALL INCLUDE BACKPLATE WITH RETRO-REFLECTIVE BORDER



PED. SIGNAL
COUNT-DOWN
1-SECT., 2-WAY

PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY

MAST ARM MOUNTED SIGN DETAILS



700-5-21 2 EA

700-5-22 2 EA

LED (EDGE LIT) INTERNALLY ILLUMINATED
SIGNS DOUBLE SIDED



FTP-85-13
700-1-11 4 AS

SIGNALIZATION NOTES

1. MAJOR STREET IS US 17/SR 15 MOVEMENTS 1, 2, 5, AND 6. MINOR STREET IS WILLIAM BURGESS BLVD. MOVEMENTS 3, 4, 7, AND 8.
2. POSTED SPEED LIMIT ON US 17/SR 15 IS 50 MPH.
3. ALL SIGNAL EQUIPMENT SHALL BE COMPATIBLE 100% WITH EXISTING NASSAU COUNTY SYSTEM.
4. INSTALL TRAFFICWARE GROUP NEMA TS2, TYPE 1 980 ATC WITH SYNCROGREEN INTERSECTION LICENSE FOR ADAPTIVE SIGNAL CONTROL.
5. TRAFFICWARE GROUP, MALFUNCTION MANAGEMENT UNIT TYPE 16 MODEL MMU-516L WITH ETHERNET (APL#678-016-007).
6. INSTALL ITS EXPRESS MANAGED FIELD ETHERNET SWITCH MODEL 8012-24 (APL# 684-002-028).
7. ALL COMPONENTS SHALL BE INSTALLED WITHIN A TRAFFICWARE GROUP, WIRED CABINET ASSEMBLY TS-2 SIZE 6, MODEL 70006-TS2/FL.
8. ATC CONTROLLER AND VIDEO DETECTION SHALL BE CONFIGURED FOR FULL ATMS CAPABILITIES AND BE\ COMPATIBLE WITH NASSAU COUNTY ATMS.
9. UPS, ALPHA NOVUS FXM-1100, WITH COMPONENTS TO BE INTERNALLY MOUNTED IN CONTROLLER CABINET. (APL# 685-002-009-C)
10. UTILIZE ILLUMINATED DUAL SIDED LED ILLUMINATED STREET SIGNS.

ADDITIONAL NOTES FOR THE CABINET

1. CAMERAS FOR VIDEO DETECTION ABOVE SHALL BE FLIR INFRARED
2. LUMINAIRE INTERFACE ON POWER PANEL
3. KEYS FOR CONTROLLER DOOR AND POLICE ACCESS
4. MANUAL POLICE CORD

ADDITIONAL NOTES FOR REMOTE CONNECTION TO ATMS

1. 1 CISCO 829 INDUSTRIAL INTEGRATED SERVICES ROUTER FOR VERIZON CELL SERVICE.
2. 1 MULTIBAND OUTDOOR OMNI-DIRECTIONAL STICK ANTENNA
3. 1 ANTENNA LIGHTENING ARRESTOR KIT
4. 1 ANTENNA MOUNT AND CABLES SPECIFIC FOR THE INSTALLATION
5. 1 ITS EXPRESS, MANAGED FIELD ETHERNET SWITCH MODEL 8012

CONTROLLER TIMINGS

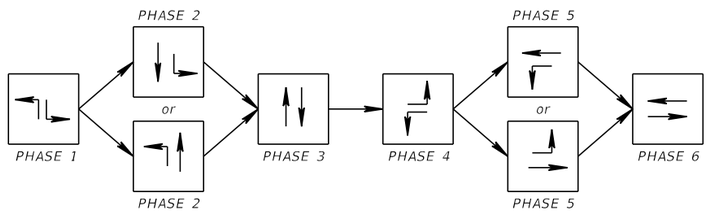
TIMING FUNCTION									
MOVEMENT NUMBER		1	2	3	4	5	6	7	8
TIMING FUNCTION	MINIMUM GREEN	4	20	4	6	4	20	4	6
	EXTENSION	3	2.5	3	3	3	2.5	3	3
	MAXIMUM GREEN 1	12	54	11	36	12	42	11	18
	MAXIMUM GREEN 2								
	YELLOW CLEARANCE	5.1	5.1	4	4	5.1	5.1	4	4
	ALL RED	2.0	2.0	2.4	2.7	2.0	2.0	2.4	2.7
	PEDESTRIAN WALK		7		7		7		7
	PED. CLEARANCE		28		26		22		20
	RECALL		MIN				MIN		

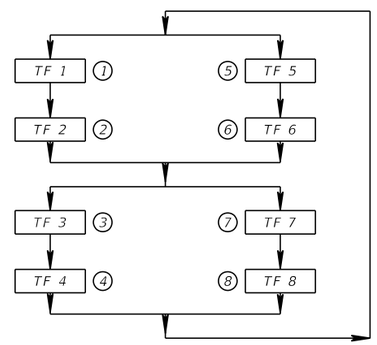
DETECTORS FOR LOOPS

LOOP	NO. OF LOOPS	NO. OF NEW DETS.	NO. OF EXIST. DETS.	DELAY TIME (SEC)
L-1	1	1		5
L-2A	1	1		0
L-2B	1	1		0
L-3	1	1		5
L-4	1	1		0
L-4R	1	1		0
L-5	1	1		5
L-6A	1	1		0
L-6B	1	1		0
L-7	1	1		5
L-8	1	1		0
L-8R	1	1		0

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

S.O.P. 10 (MOD.)





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12574 Flagler Center Blvd, Suite 202
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904.363.1110
Certificate of Authorization:EB9951

RANDAL S. THOMPSON, P.E. Lic. No. 80321

SCALE:	AS SHOWN
DATE:	9/26/2023
DRAWN:	JD
CHECKED:	SM
APPROVED:	RT

PROJECT NO. / DASH NO.
B190839.00

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SIGNALIZATION PLAN

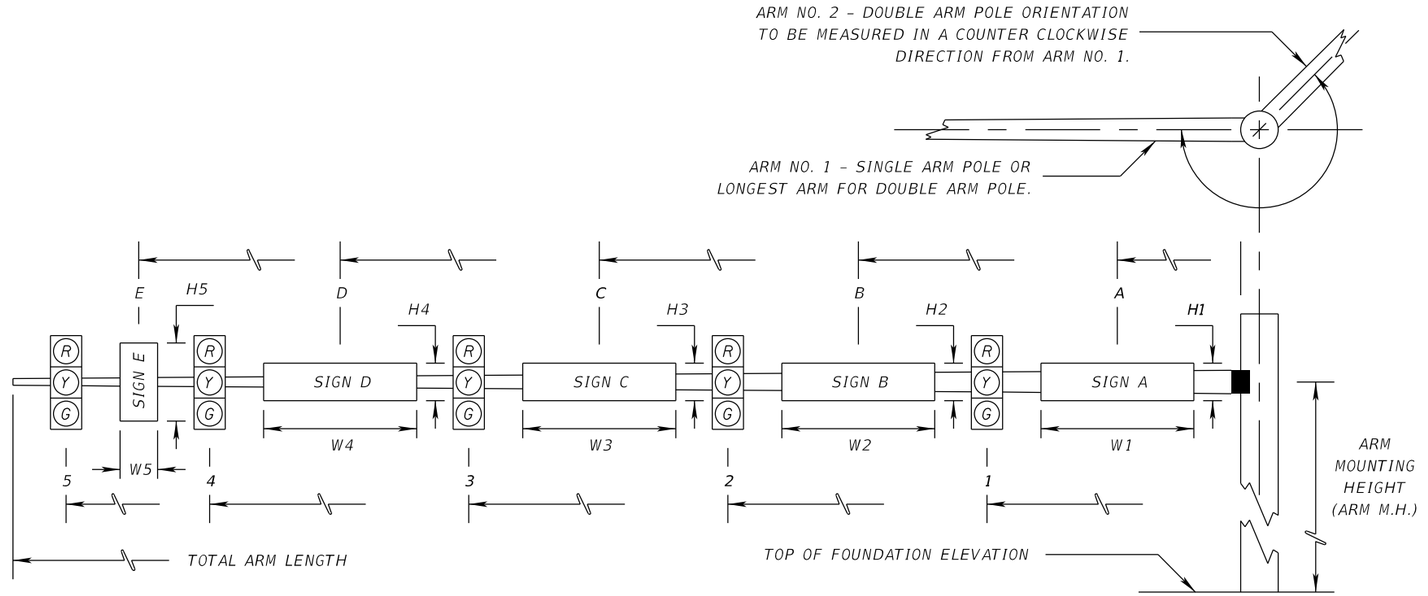
WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
T-6

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SPECIAL INSTRUCTIONS

ID NO.	PED. BUTTON		PED. SIGNALS		HANDHOLE LOCATION



* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUND. ELEVATION	RDWY ARM NO.	CROWN ELEV.	LUMI-NAIRE Y/N	TERM. COMP. Y/N	SIGNAL DATA: SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	SIGNAL DATA: DISTANCE FROM POLE 1	*	2	*	3	*	4	*	5	*	TOTAL ARM LENGTH	ARM M.H.	ANGLE BETWEEN DUAL ARMS 90/270	SIGN DATA: DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN A	H1	W1	B	H2	W2	C	H3	W3	D	H4	W4	E	H5	W5	PAINT COLOR
1	T-4	13+66.98	33.50	1	32.23	N	Y	V	Y	N	27.9	3	35.9	3	48.3	4					50	20		10.0	2.0	8.5	42.2	3.0	2.5											GALVANIZED
---	-----	----------	-------	2																			-----																
2	T-4	13+80.00	32.00	1	31.60	N	Y	V	Y	N	22.8	3	30.8	3	47.5	4					50	21		10.0	2.0	8.5	43.4	3.0	2.5											GALVANIZED
---	-----	----------	-------	2																			-----																
3	T-4	12+61.83	31.80	1	32.18	N	Y	V	Y	N	37.1	3	45.1	3	57.1	4					60	22		10.0	2.0	8.5	50.8	3.0	2.5											GALVANIZED
---	-----	----------	-------	2																			-----																
4	T-4	12+56.00	32.90	1	31.91	N	Y	V	Y	N	38.4	3	46.4	3	58.5	4					60	21		10.0	2.0	8.5	54.6	3.0	2.5											GALVANIZED
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2	**FUTURE LOADING**			1	31.60	N	Y	V	Y	N	22.8	3	30.8	3	39.4	3	47.5	3			50	21		10.0	2.0	8.5														GALVANIZED
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RANDAL S. THOMPSON, P.E. Lic. No. 80321

SCALE:	AS SHOWN
DATE:	9/26/2023
DRAWN:	JD
CHECKED:	SM
APPROVED:	RT

PROJECT NO. / DASH NO.: B190839.00

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MAST ARM TABULATION

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. T-7

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STANDARD MAST ARM ASSEMBLIES DATA TABLE

STRUCTURE ID NUMBERS	DESIGNATION	FIRST ARM		SECOND ARM		UF (deg)	LL (deg)	POLE			DRILLED SHAFT ID
		ARM ID	FAA (ft.)	ARM ID	FAA (ft.)			POLE ID	UAA (ft.)	UB (ft.)	
74M038-1	A50/S-P3/S/12/4.5	A50/S						P3/S		20	DS/12/4.5
74M038-2	A50/S-P3/S/12/4.5	A50/S						P3/S		21	DS/12/4.5
74M038-3	A60/S-P4/S/12/4.5	A60/S						P4/S		22	DS/12/4.5
74M038-4	A60/S-P4/S/12/4.5	A60/S						P4/S		21	DS/12/4.5

NOTES:

1. IF ANY ENTRY APPEARS IN COLUMN FAA, A SHORTER ARM REQUIRED. THIS IS OBTAINED BY REMOVING LENGTH FROM THE ARM TIP AND THE ARM LENGTH SHORTENED FROM FA TO FAA. SAA SIMILAR.
2. IF AN ENTRY APPEARS IN COLUMN UAA, A SHORTER POLE IS REQUIRED. THIS IS OBTAINED BY REMOVING LENGTH FROM THE POLE TIP AND THE POLE HEIGHT SHORTENED FROM UA TO UAA.
3. WORK THIS SHEET WITH THE SIGNAL DESIGNER'S "MAST ARM TABULATION". SEE "MAST ARM TABULATION" FOR SPECIAL INSTRUCTIONS THAT INCLUDE NON-STANDARD HANDHOLE LOCATION, PAINT COLOR, TERMINAL DEPARTMENT REQUIREMENT, AND PEDESTRIAN FEATURES.
4. WORK WITH INDEXES 649-030 AND 649-031
5. HARD AUGERING SHOULD BE ANTICIPATED DUE TO THE PRESENCE OF VERY DESNSE SANDS BETWEEN APPROXIMATE ELEVATIONS OF +19' AND +24'.

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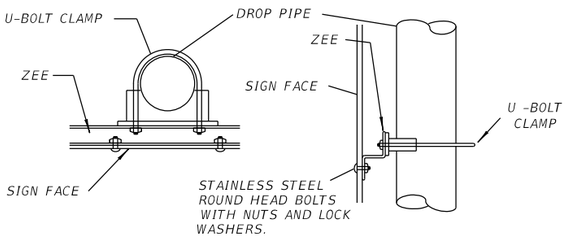
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MAST ARM ASSEMBLY DATA TABLE

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

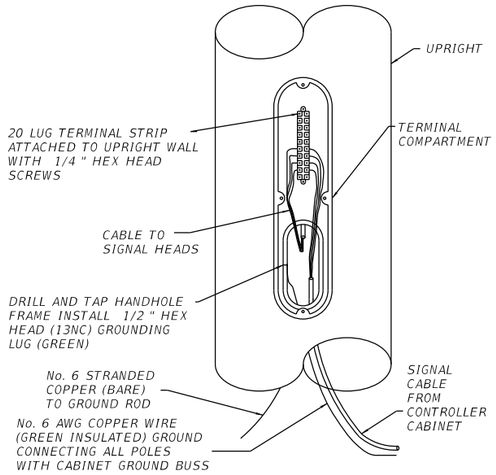
SHEET NO.
T-8

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



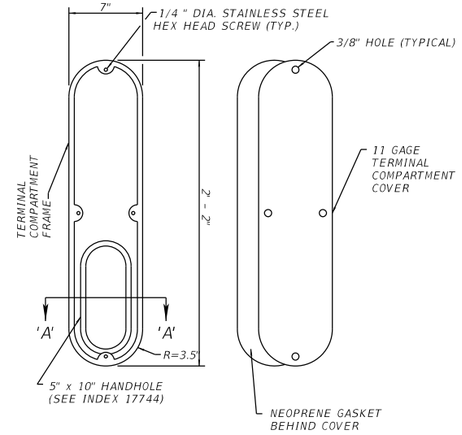
DROP PIPE SIGN DETAIL

N.T.S.



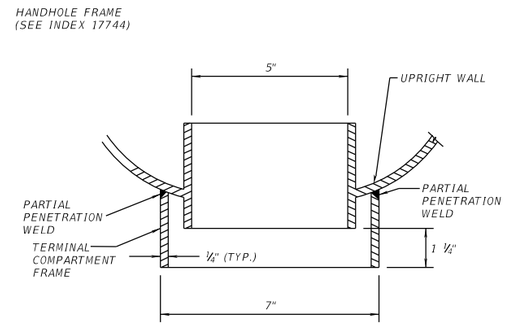
WIRING DETAILS

N.T.S.



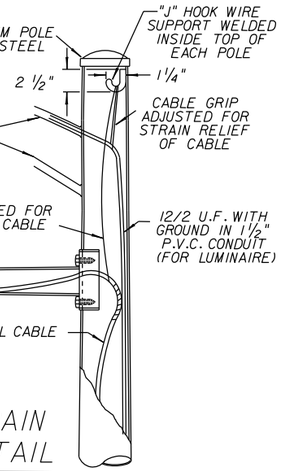
TERMINAL COMPARTMENT FRAME AND COVER DETAIL

N.T.S.



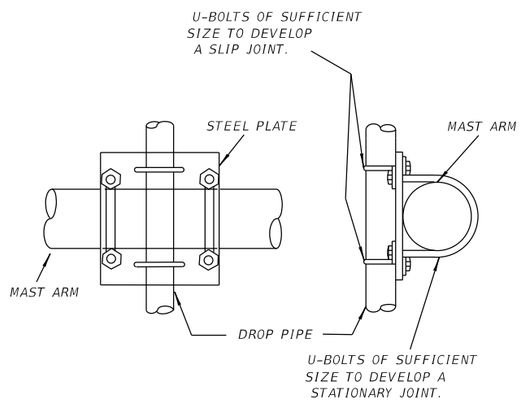
SECTION "A-A"

N.T.S.



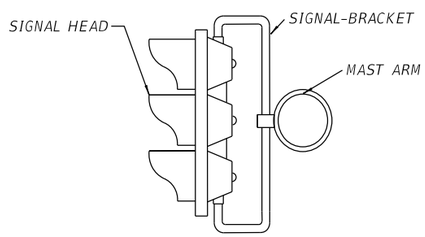
TYPICAL CABLE STRAIN RELIEF DETAIL

NTS



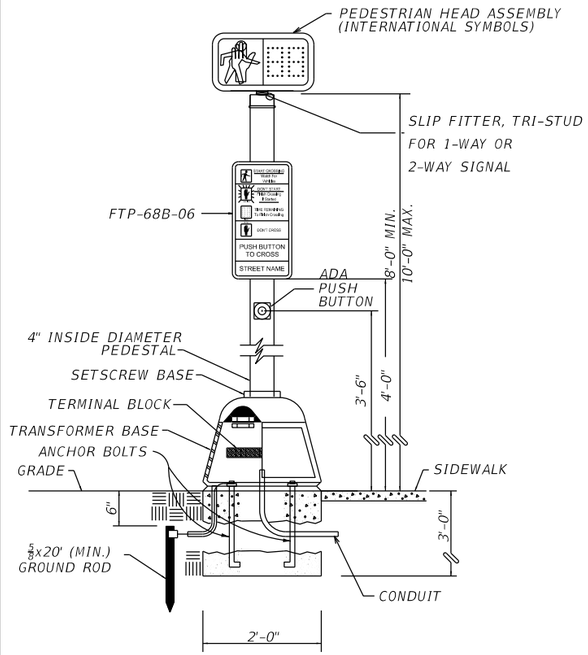
SIGN ARM BRACKET

N.T.S.



SIGNAL HEAD BRACKET ATTACHMENT DETAIL

N.T.S.



PEDESTRIAN SIGNAL PEDESTAL DETAIL

NTS

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Certificate of Authorization:EB9951

RANDAL S. THOMPSON, P.E. Lic. No. 80321

SCALE:	AS SHOWN
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DRAWN:	JD
CHECKED:	SM
APPROVED:	RT

PROJECT NO. / DASH NO.: B190839.00

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SIGNALIZATION DETAILS

SHEET NO.: T-9

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

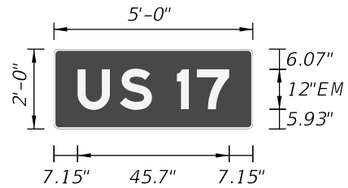
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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

PANEL		BORDER			none
WIDTH	5'-0"	WIDTH	0.5"		
HEIGHT	2'-0"	RADII	1.5"		
LEGEND	Yellow	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



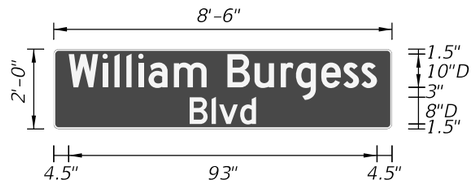
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY			U	S		I	T	L																		
SPACE	7.2		12.7	9.7	7.5	6	9.7	7.2	45.7																	
COPY																										
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SIGN NAME	WBB	QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER			none
WIDTH	8'-6"	WIDTH	0.5"		
HEIGHT	2'-0"	RADII	1.5"		
LEGEND	Yellow	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY		W	i	l	l	i	a	m		B	u	r	g	e	s	s		L								
SPACE	4.5	10.2	3.6	3.6	3.6	3.1	7.6	9.9	6.2	8.2	7.9	4.6	7.6	6.7	5.4	4.7	4.5	93								
COPY		B	l	v	d		L																			
SPACE	41	6.6	2.2	6.3	4.8	41	20																			
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SPACE																										

SIGN NAME		QTY		SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH		WIDTH			
HEIGHT		RADII			
LEGEND		COLOR			
COLOR					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY																										
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SIGN NAME		QTY		SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH		WIDTH			
HEIGHT		RADII			
LEGEND		COLOR			
COLOR					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY																										
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RONALD F. HOOGLAND, P.E. Lic. No. 45247

SCALE:	AS SHOWN
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CHECKED:	RT
APPROVED:	RH

PROJECT NO. / DASH NO.: B190839.00

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GUIDE SIGN WORKSHEET

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.: T-10

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

LEGEND

FINE SAND; SLIGHTLY SILTY FINE SAND (SP-SM)

SILTY FINE SAND (SM)

STANDARD PENETRATION TEST (SPT) BORING LOCATION

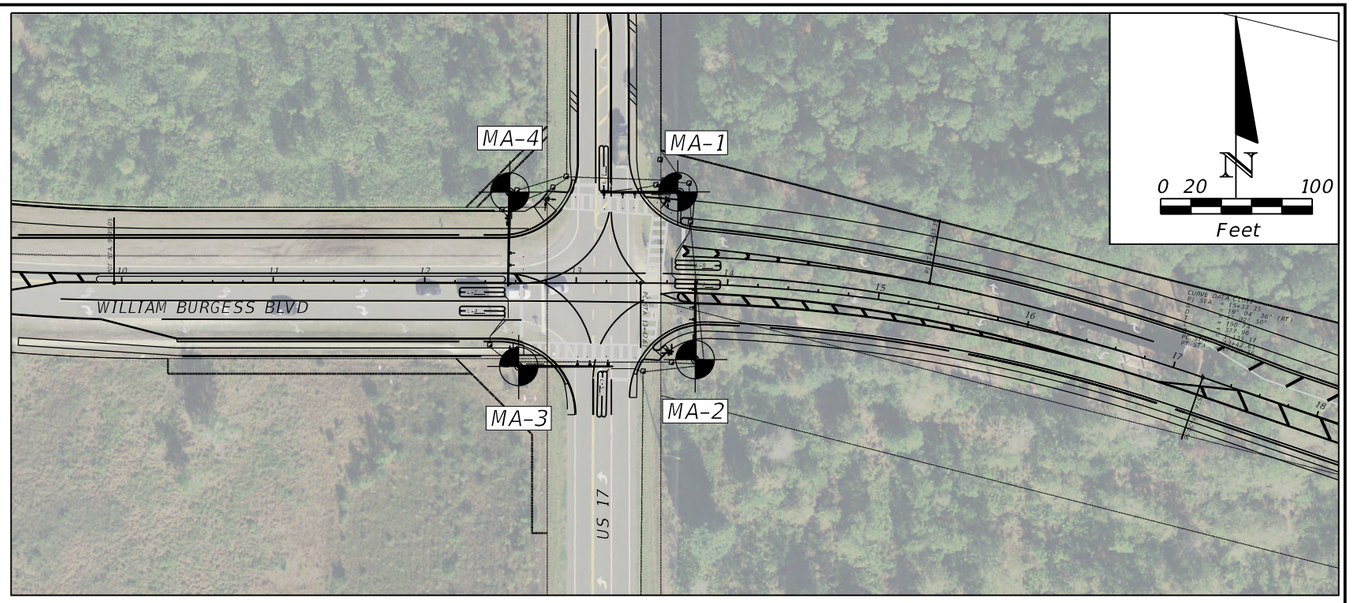
GROUND WATER LEVEL AT TIME OF DRILLING

(SP) SOIL TYPE BASED ON UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)

50/X" NUMBER OF BLOWS TO DRIVE SAMPLER X INCHES

N STANDARD PENETRATION RESISTANCE IN BLOWS PER FT (N-VALUE)

W MOISTURE CONTENT
-200 PERCENT FINES CONTENT
OC% ORGANIC CONTENT



GRANULAR MATERIALS

RELATIVE DENSITY	AUTOMATIC HAMMER SPT N-VALUE (BLOWS/FOOT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40

SILT AND CLAYS

CONSISTENCY	AUTOMATIC HAMMER SPT N-VALUE (BLOWS/FOOT)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

STANDARD PENETRATION TEST DATA

SPOON INSIDE DIA.	1.44 INCHES
SPOON OUTSIDE DIA.	2.0 INCHES
AVG. HAMMER DROP	30.0 INCHES
HAMMER WEIGHT	140.0 LBS.

NOTES:

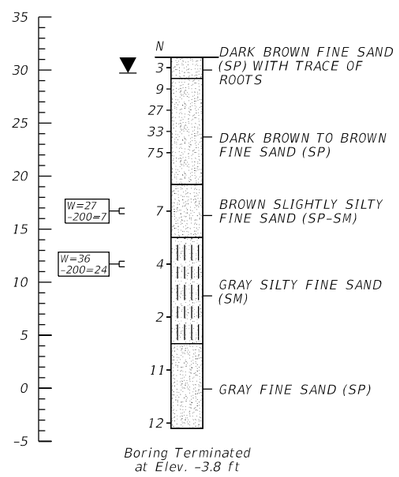
1) DRILL AND PENETRATION TESTING WAS PERFORMED IN ACCORDANCE WITH ASTM D-1586.

2) LAYER BOUNDARIES ARE APPROXIMATE AND MAY VARY BETWEEN OR AWAY FROM BORING LOCATIONS.

ENVIRONMENTAL CLASSIFICATION

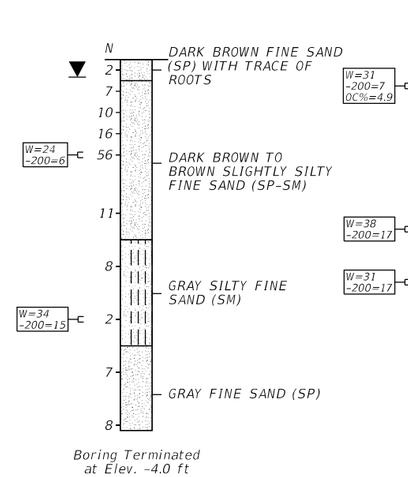
SUBSTRUCTURE:
CONCRETE: EXTREMELY AGGRESSIVE (pH<5)
STEEL: EXTREMELY AGGRESSIVE (pH<6)

BOR # MA-1
STA. 13+67
OFF. 60' LT
LAT. 30°36'52.46"N
LONG. 81°35'50.86"W
ELEV. 31.2'
DATE 03/26/2021
HAMMER Auto



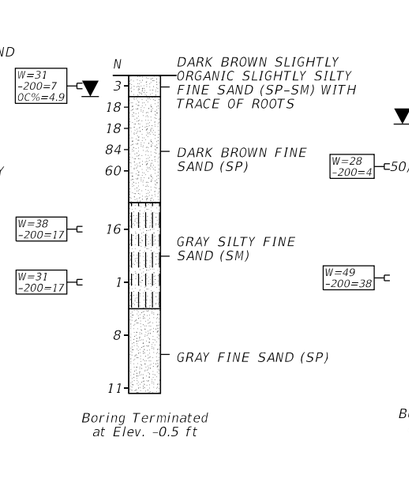
Boring Terminated at Elev. -3.8 ft

BOR # MA-2
STA. 13+80
OFF. 50' RT
LAT. 30°36'51.40"N
LONG. 81°35'50.56"W
ELEV. 31.0'
DATE 03/26/2021
HAMMER Auto



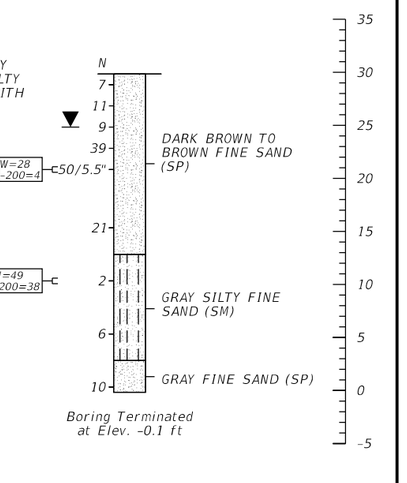
Boring Terminated at Elev. -4.0 ft

BOR # MA-3
STA. 12+62
OFF. 55' RT
LAT. 30°36'51.19"N
LONG. 81°35'51.80"W
ELEV. 29.5'
DATE 03/25/2021
HAMMER Auto



Boring Terminated at Elev. -0.5 ft

BOR # MA-4
STA. 12+56
OFF. 60' LT
LAT. 30°36'52.30"N
LONG. 81°35'52.13"W
ELEV. 29.9'
DATE 03/25/2021
HAMMER Auto



Boring Terminated at Elev. -0.1 ft

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

JOHN A. IYA, P.E.
P.E. LICENSE NO.: 77294
CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD S., SUITE 200
JACKSONVILLE, FLORIDA 32246

DRAWN BY, TO
CHECKED BY, NA
DESIGNED BY, LC
CHECKED BY, JI

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
-	NASSAU	-

SHEET TITLE, REPORT OF SPT BORINGS MAST ARM STRUCTURES

REF. DWG. NO.

PROJECT NAME, WILLIAM BURGESS BOULEVARD EXTENSION

SHEET NO. T-11

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

NASSAU COUNTY ENGINEERING

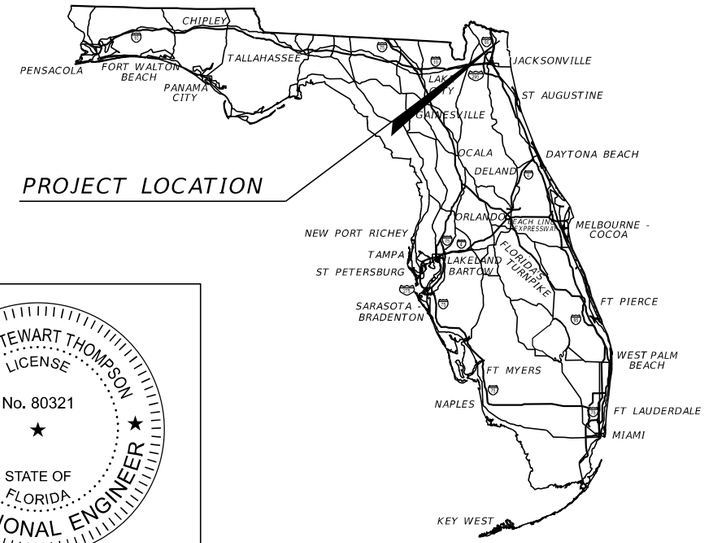
CONTRACT PLANS

WILLIAM BURGESS BLVD. EXTENSION

SIGNING AND PAVEMENT MARKING PLANS

INDEX OF SIGNING & PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2 - S-4	TABULATION OF QUANTITIES
S-5	GENERAL NOTES
S-6 - S-28	SIGNING & PAVEMENT MARKING PLAN
S-29 - S-30	GUIDESIGN WORKSHEET



RANDAL STEWART THOMPSON
LICENSE
No. 80321
STATE OF FLORIDA
PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

NASSAU COUNTY
BOARD OF COUNTY COMMISSIONERS

JOHN F. MARTIN, DISTRICT 1
A.M. "HUPP" HUPPMAN, DISTRICT 2
JEFF GRAY, DISTRICT 3
ALYSON MCCOLLOUGH, DISTRICT 4
KLYNT A. FARMER, DISTRICT 5

ROADWAY PLANS
ENGINEER OF RECORD:

RANDAL S. THOMPSON, P.E.
P.E. NO.: 80321
GAI CONSULTANTS, INC
12574 FLAGLER CENTER BLVD, SUITE 202
JACKSONVILLE, FL 32258
CONTRACT NO.:
VENDOR NO.: 251260999-002

NASSAU COUNTY PROJECT MANAGER:

ROBERT T. COMPANION, P.E.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2021/2022 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Nassau County Ordinance 99-17, Roadway and Drainage Standards

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, JULY 2021 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

SHEET NO.
S-1

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																TOTAL THIS SHEET	
			S-6		S-7		S-8		S-9		S-10		S-11		S-12		S-13			
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
0654 2 11	MID-BLOCK CROSS WALK:	AS																		
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12SF	AS	4				2												6	
0700 1 60	SINGLE POST SIGN, REMOVE	AS	3		2														5	
0700 12 21	SIGN BEACON, F&I, GROUND MOUNT - SOLAR POWERED, ONE BEACON	AS																		
0706 1 3	RAISED PAVEMENT MARKER, TYPE B WITHOUT FINAL SURFACE MARKINGS	EA																		
	WHITE/RED	EA	26		73		30												129	
	MONO-DIRECTIONAL YELLOW	EA	3		5		17								34		34		93	
	YELLOW/YELLOW	EA	40		96		55												191	
	BLUE	EA			1		1		1		1		1		2		1		8	
0710 17	REMOVE NON-CONFLICTING MARKINGS	SF																		
0710 11101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	0.294		0.475		0.374		0.463		0.205		0.237		0.230		0.234		2.512	
0710 11123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	116		626														742	
0710 11124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHERVON, 18"	LF	29		248		66		35		13		10		76				477	
0710 11125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	134		679														813	
0710 11131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6"	GM	0.063		0.039										0.017				0.119	
0710 11141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION. 6"	GM			0.021														0.021	
0710 11144	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-2 DOTTED EXTENSION LINE FOR ROUNDABOUT, 12	GM																		
0710 11160	PAINTED PAVEMENT MARKINGS, STANDARE, WHITE, MESSAGE OR SYMBOL	EA	2		1														3	
0710 11170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	7		12		6												25	
0710 11201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.257		0.346		0.300		0.408		0.181		0.212		0.203		0.182		2.089	
0710 11224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	30		125		47								33				235	
0710 11241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINES/6-10 DOTTED EXTENSION, 6"	GM	0.014		0.054										0.016		0.023		0.107	
0710 11290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	2		2		17								34		66		121	
0710 90	PAINTED PAVEMENT MARKINGS - FINAL SURFACE	LS																		
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	116		626														742	
0711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	29		248		66		35		13		10		76				477	
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	48		49														97	
0711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/6-10 GAP EXTENSION, 6"	GM			0														0.021	
0711 11144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED EXTENSION LINE, 12" FOR ROUNDABOUT	GM																		
0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	2		1														3	
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	7		12		6												25	
0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	30		125		47								33				235	
0711 11241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE/6-10 DOTTED EXTENSION LINE, 6"	GM	0.014		0.054										0.016		0.023		0.107	
0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	86		630														716	
0711 16101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.294		0.475		0.374		0.463		0.205		0.237		0.230		0.234		2.512	
0711 16131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP OF 3-9 LANE DROP	GM	0.063		0.039										0.017				0.119	
0711 16201	THERMOPLASTIC, STANDARD-OTHER, YELLOW, SOLID, 6"	GM	0.257		0.346		0.300		0.408		0.181		0.212		0.203		0.182		2.089	

REVISIONS

REV	DATE	BY	DESCRIPTION

gai consultants
transforming ideas into reality®
12574 Flagler Center Blvd, Suite 202
Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

RANDAL S. THOMPSON, P.E. Lic. No. 80321

SCALE:	AS SHOWN
DATE:	9/26/2023
DRAWN:	JD
CHECKED:	WZ
APPROVED:	RT

PROJECT NO. / DASH NO.
B190839.00

This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

TABULATION OF QUANTITIES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-2

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																TOTAL THIS SHEET	
			S-14		S-15		S-16		S-17		S-18		S-19		S-20		S-21			
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
0654 2 11	MID-BLOCK CROSS WALK:	AS															2		2	
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12SF	AS							4		19		2		5		10		40	
0700 1 60	SINGLE POST SIGN, REMOVE	AS									1						1		2	
0700 12 21	SIGN BEACON, F&I, GROUND MOUNT - SOLAR POWERED, ONE BEACON	AS													1				1	
0706 1 3	RAISED PAVEMENT MARKER, TYPE B WITHOUT FINAL SURFACE MARKINGS	EA																		
	WHITE/RED	EA															12		12	
	MONO-DIRECTIONAL YELLOW	EA									24				9				33	
	YELLOW/YELLOW	EA									36		44		14				94	
	BLUE	EA	1		1		1		1		1		1		1		1		8	
0710 17	REMOVE NON-CONFLICTING MARKINGS	SF																		
0710 11101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	0.250		0.240		0.254		0.205		0.265		0.220		0.220		0.247		1.901	
0710 11123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF							108		112						253		473	
0710 11124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHERVON, 18"	LF	42		10				21								9		82	
0710 11125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF							60		132						332		524	
0710 11131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6"	GM																		
0710 11141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION. 6"	GM																		
0710 11144	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-2 DOTTED EXTENSION LINE FOR ROUNDABOUT, 12	GM									0.015								0.015	
0710 11160	PAINTED PAVEMENT MARKINGS, STANDARE, WHITE, MESSAGE OR SYMBOL	EA									3						2		5	
0710 11170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA									3						2		5	
0710 11201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.212		0.213		0.220		0.208		0.286		0.324		0.258		0.229		1.950	
0710 11224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF									24		8		20				52	
0710 11241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINES/6-10 DOTTED EXTENSION, 6"	GM																		
0710 11290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF									11				4				15	
0710 90	PAINTED PAVEMENT MARKINGS - FINAL SURFACE	LS																		
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF							108		112						253		473	
0711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	42		10				21								9		82	
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF									12						75		87	
0711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/6-10 GAP EXTENSION, 6"	GM																		
0711 11144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED EXTENSION LINE, 12" FOR ROUNDABOUT	GM									0.015								0.015	
0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA									3						2		5	
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA									3						2		5	
0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF									24		8		20				52	
0711 11241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE/6-10 DOTTED EXTENSION LINE, 6"	GM																		
0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF							60		120						257		437	
0711 16101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.250		0.240		0.254		0.205		0.265		0.220		0.220		0.247		1.901	
0711 16131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP OF 3-9 LANE DROP	GM																		
0711 16201	THERMOPLASTIC, STANDARD-OTHER, YELLOW, SOLID, 6"	GM	0.212		0.213		0.220		0.208		0.286		0.324		0.258		0.229		1.950	

REVISIONS			
REV	DATE	BY	DESCRIPTION

gai consultants
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12574 Flagler Center Blvd, Suite 202
Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

RANDAL S. THOMPSON, P.E. Lic. No. 80321

SCALE:	AS SHOWN
DATE:	9/26/2023
DRAWN:	JD
CHECKED:	WZ
APPROVED:	RT

PROJECT NO. / DASH NO.
B190839.00

This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.

TABULATION OF QUANTITIES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-3

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			S-22		S-23		S-24		S-25		S-26		S-27		S-28					
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
0654 2 11	MID-BLOCK CROSS WALK:	AS																	2	
0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12SF	AS	1		3		19		1								24		70	
0700 1 60	SINGLE POST SIGN, REMOVE	AS					6										6		13	
0700 12 21	SIGN BEACON, F&I, GROUND MOUNT - SOLAR POWERED, ONE BEACON	AS			1												1		2	
0706 1 3	RAISED PAVEMENT MARKER, TYPE B WITHOUT FINAL SURFACE MARKINGS	EA																		
	WHITE/RED	EA	29		11						7		24		37		108		249	
	MONO-DIRECTIONAL YELLOW	EA	7				39										46		172	
	YELLOW/YELLOW	EA	46		36		44		14		26		20		38		224		509	
	BLUE	EA	1		1		1										3		19	
0710 17	REMOVE NON-CONFLICTING MARKINGS	SF					90		66								156		156	
0710 11101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	0.330		0.263		0.184				0.167		0.229		0.251		1.424		5.837	
0710 11123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	124				177										301		1516	
0710 11124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHERVON, 18"	LF	42														42		601	
0710 11125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	144				180										324		1661	
0710 11131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 10-30 OR 3-9 SKIP, 6"	GM																	0.119	
0710 11141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION. 6"	GM											0.032				0.032		0.053	
0710 11144	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-2 DOTTED EXTENSION LINE FOR ROUNDABOUT, 12	GM					0.015										0.015		0.030	
0710 11160	PAINTED PAVEMENT MARKINGS, STANDARE, WHITE, MESSAGE OR SYMBOL	EA					3						1		1		5		13	
0710 11170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	6		3		3				2		6		7		27		57	
0710 11201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	0.329		0.256		0.328		0.057		0.196		0.152		0.182		1.500		5.539	
0710 11224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	50		10		226		72		27				66		451		738	
0710 11241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINES/6-10 DOTTED EXTENSION, 6"	GM																	0.107	
0710 11290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	3				17										20		156	
0710 90	PAINTED PAVEMENT MARKINGS - FINAL SURFACE	LS																	1	
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	124				177										301		1516	
0711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	42														42		601	
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF																	184	
0711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/6-10 GAP EXTENSION, 6"	GM											0.032				0.032		0.053	
0711 11144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED EXTENSION LINE, 12" FOR ROUNDABOUT	GM					0.015										0.015		0.030	
0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA					3						1		1		5		13	
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	6		3		3				2		6		7		27		57	
0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	50		10		226		72		27				66		451		738	
0711 11241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE/6-10 DOTTED EXTENSION LINE, 6"	GM																	0.107	
0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	144				180										324		1477	
0711 16101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.330		0.263		0.184				0.167		0.229		0.251		1.424		5.837	
0711 16131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6", 10-30 SKIP OF 3-9 LANE DROP	GM																	0.119	
0711 16201	THERMOPLASTIC, STANDARD-OTHER, YELLOW, SOLID, 6"	GM	0.329		0.256		0.328		0.057		0.196		0.152		0.182		1.500		5.539	

REVISIONS

REV	DATE	BY	DESCRIPTION

gai consultants
transforming ideas into reality®
12574 Flagler Center Blvd, Suite 202
Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

RANDAL S. THOMPSON, P.E. Lic. No. 80321

SCALE: AS SHOWN
DATE: 9/26/2023
DRAWN: JD
CHECKED: WZ
APPROVED: RT

PROJECT NO. / DASH NO.
B190839.00

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TABULATION OF QUANTITIES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-4

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GENERAL NOTES

1. MAINTAIN EXISTING STREET NAME SIGNS FOR 911 PURPOSES. COST FOR ALL RELOCATIONS DURING MAINTENANCE OF TRAFFIC TO BE INCLUDED UNDER RELATED PAY ITEMS(S).

2. FINAL PAVEMENT MARKING MATERIAL SHALL BE AS FOLLOWS:
   - LONGITUDINAL SOLID: STANDARD THERMOPLASTIC
   - TRANSVERSE/OTHER: PREFORMED THRMOPLASTIC

3. EXISTING SIGNS TO REMAIN UNLESS OTHERWISE INDICATED IN PLANS.

4. ALL PAVEMENT STRIPING SHALL EXTEND 5- FT BEYOND TIE-IN-LIMITS PER ORD.11.92.

5. PER THE FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 711, WAIT AT LEAST 14 DAYS AFTER CONSTRUCTING THE FINAL ASPHALT SURFACE COURSE TO PLACE THERMOPLASTIC PAVEMENT MARKINGS. PROVIDE TEMPORARY PAVEMENT MARKINGS DURING INTERIM PERIOD PRIOR TO OPENING THE ROAD TO TRAFFIC. ALL INTERIM STRIPING SHALL BE PAINT.

6. PAY ITEM NO. 077-1-50A, RELOCATE SIGN, TO INCLUDE RELOCTION OF THE YULEE HIGH SCHOOL SIGN AT THE CORNER OF MINER RD., CONSTRUCTION OF NEW FOUNDATION, AND REMOVAL OF EXISTING FOUNDATION. CONTRACTOR TO COORDINATE WITH THE NASSAU COUNTY SCHOOL BOARD FOR THE FINAL LOCATION. CONTRACTOR TO PROVIDE DESIGN SERVICES FOR THE NEW SIGN FOUNDATION.

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GENERAL NOTES

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RANDAL S. THOMPSON, P.E. Lic. No. 80321

SCALE:	AS SHOWN
DATE:	9/26/2023
DRAWN:	JD
CHECKED:	WZ
APPROVED:	RT

PROJECT NO. / DASH NO.
B190839.00

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TEMPORARY TRAFFIC CONTROL PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-5

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

N

0 10 40
Feet

BEGIN STRIPING
STA. 4+21.67

BEGIN PROJECT
STA. 4+31.22

RAILROAD PAVEMENT MESSAGE
SEE FDM EXIBIT 220-1
(SHEET 39 THIS PLAN SET)
FOR DETAILS

TO REMAIN

W02-01
24" X 30"
700-1-11
1 AS

SPEED LIMIT 35

W04-02R
36" X 36"
700-1-11
1 AS

RELOCATED MEMORIAL SIGNS

DIRECTIONAL ARROW PER
FDOT INDEX 711-001 (TYP)

PAVEMENT MESSAGE PER
FDOT INDEX 711-001 (TYP)

6" WHITE (3' - 9' SKIP)
W/R RPM's 24' C.C.

6" DBL YELLOW W/
Y/Y RPM's 20' C.C.

18" YELLOW
20' C.C. (TYP.)

6" WHITE W/ W/R
RPM's 20' C.C.

6" WHITE W/ W/R
RPM's 20' C.C.

24" WHITE

6" WHITE

1823.2' R

850.42' R

PC STA. 7+25.31

+13.52

+20.20

+64.20

+96.08

STA. 9+20.00

MATCHLINE STA.

4 5 6 7 8 9

12' 12' 11' 10' 11' 10' 12' 12'

℄ CONST. WILLIAM BURGESS BLVD.

+02.60 +46.20 +39.82 +06.26 +60.97 +18.34 +35.02

WILLIAM BURGESS BLVD.

1327.0' R

6" WHITE

6" YELLOW

18" YELLOW
20' C.C. (TYP.)

6" YELLOW (2' - 4' SKIP)
45' R (TYP.)

18" WHITE
20' C.C. (TYP.)

24" WHITE

6" WHITE W/ W/R
RPM's 20' C.C.

6" WHITE

6" DBL YELLOW

6" YELLOW
12" WHITE

YELLOW NOSE PAINT
W/ MD/Y RPMs (8" O.C.)
PER FDOT STD. PLANS

6" DBL YELLOW W/
Y/Y RPM's 20' C.C.

NO PASSING ZONE

700-1-60
1 AS
TO BE REMOVED

700-1-60
1 AS
TO BE REMOVED

JCT 17

700-1-60
1 AS
TO BE REMOVED

JCT 17

M02-01
21" X 15"
M01-04
24" X 24"
700-1-11
1 AS

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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-6

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

MATCHLINE STA. 9+20.00

MATCHLINE STA. 14+80.00

MATCHLINE STA. 456+00.00

MATCHLINE STA. 454+00.00

WILLIAM BURGESS BLVD.

US 17 / SR 15

PG STA. 13+42.41

1 R05-03 24" X 24" 700-1-11 1 AS

NO MOTOR VEHICLES

TO BE REMOVED 700-1-60 1 AS

SPEED LIMIT 35

STOP 700-1-60 1 AS TO BE REMOVED

R/W LINE

0 10 40 Feet

EXIST. R/W LINE

PROP. R/W LINE

PROPOSED R/W LINE

EXIST. MEMORIAL SIGNS TO BE RELOCATED TO STA. 8+00.00

DIRECTIONAL ARROW PER FDOT INDEX 711-001 (TYP)

PAVEMENT MESSAGE PER FDOT INDEX 711-001 (TYP)

6" WHITE W/ W/R RPM's 20' C.C.

18" YELLOW 20' C.C. (TYP.)

6" WHITE (10'-30' SKIP)

℄ CONST. WILLIAM BURGESS BLVD.

6" WHITE W/ W/R RPM's 20' C.C.

6" DBL YELLOW W/ Y/Y RPM's 20' C.C.

6" YELLOW

6" WHITE W/ W/R RPM's 20' C.C.

6" WHITE

18" WHITE 20' C.C. (TYP.)

YELLOW NOSE PAINT W/ MD/Y RPMs (8" O.C.) PER FDOT STD. PLANS

24" WHITE

12" WHITE (TYP.)

18" WHITE 20' C.C. (TYP.)

6" YELLOW (2'-4' SKIP)

1475.1' R

999.1' R

975.3' R

1104.4' R

6" WHITE W/ W/R RPM's 20' C.C.

6" DBL YELLOW W/ Y/Y RPM's 20' C.C.

18" YELLOW 20' C.C. (TYP.)

6" WHITE (2'-4' SKIP)

R60' (TYP.)

R655'

+69.80 +79.90 +62.45 +06.25 +93.53 +45.31 +36.22 +48.49 +00.13 +69.77 +37.71 +69.76

10 11 12 13 14

455 454

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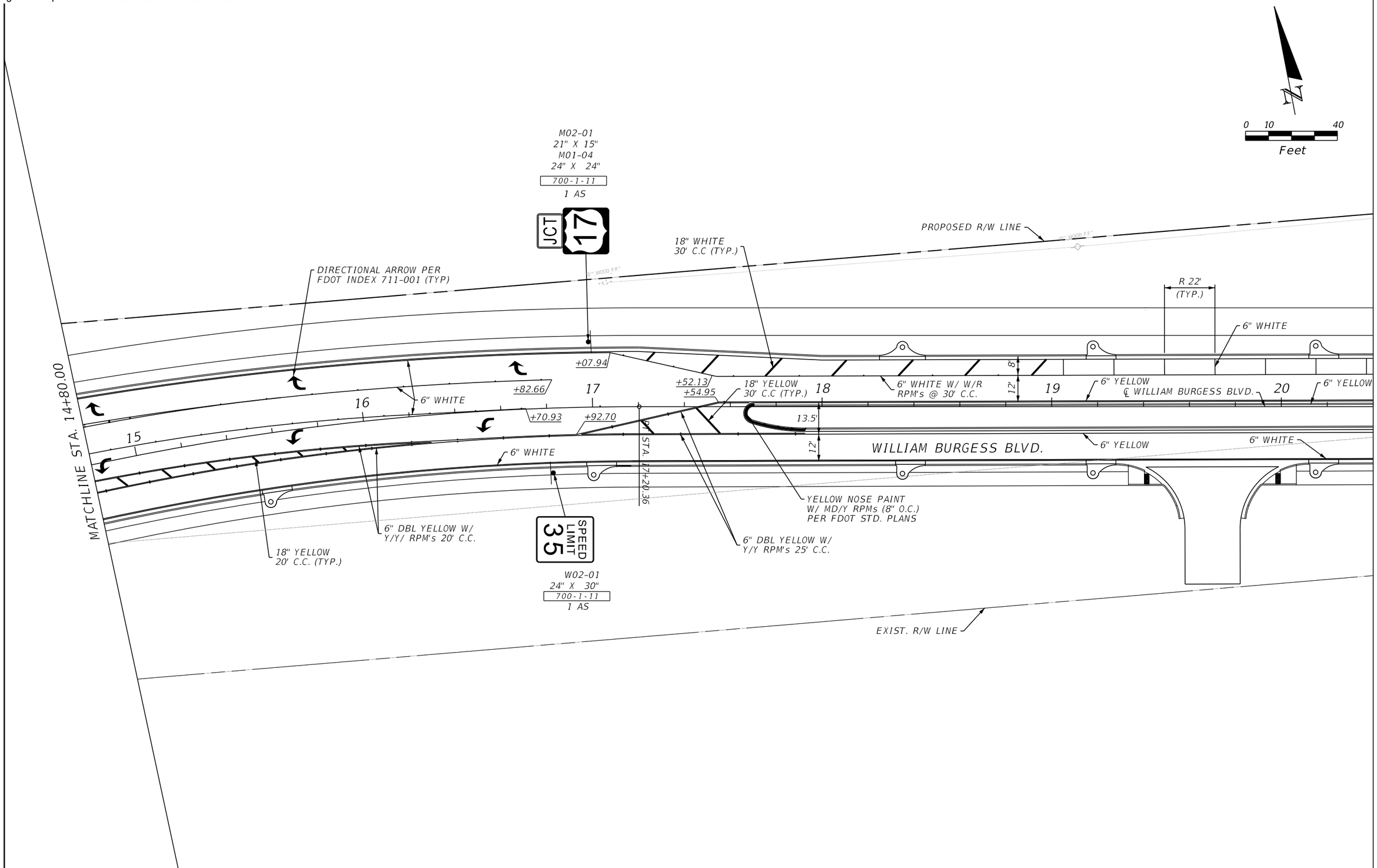
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. S-7

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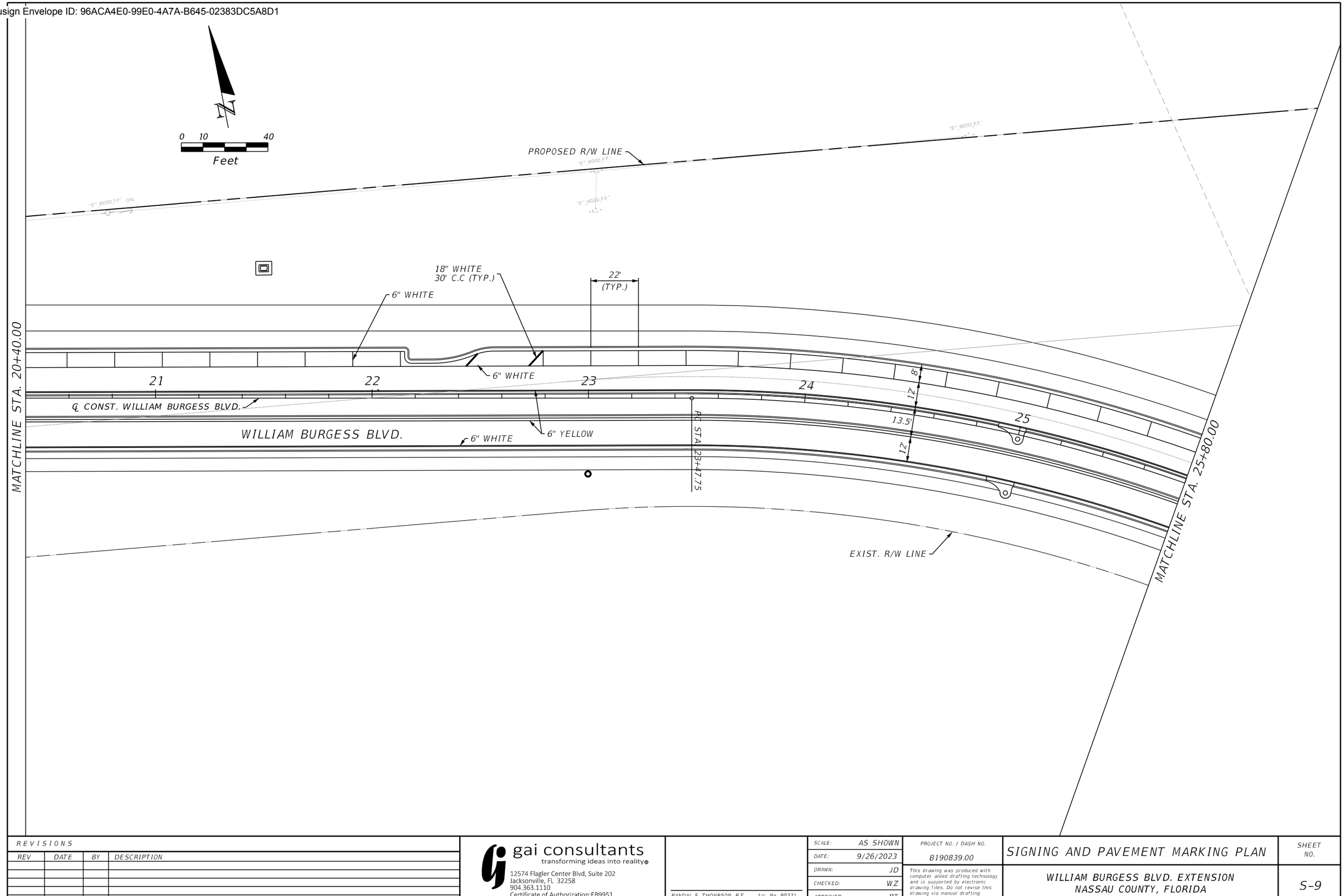
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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-8

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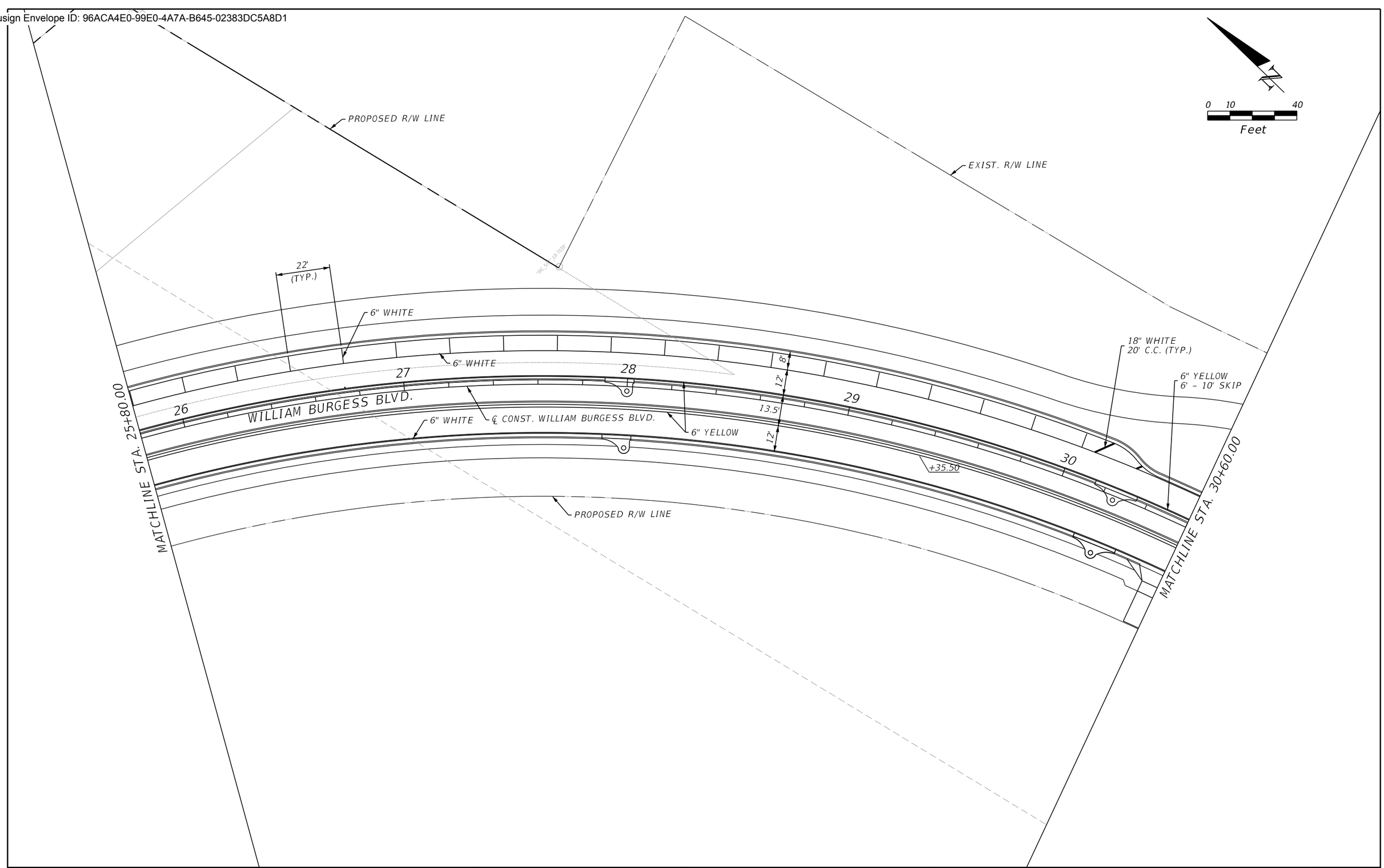
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-9

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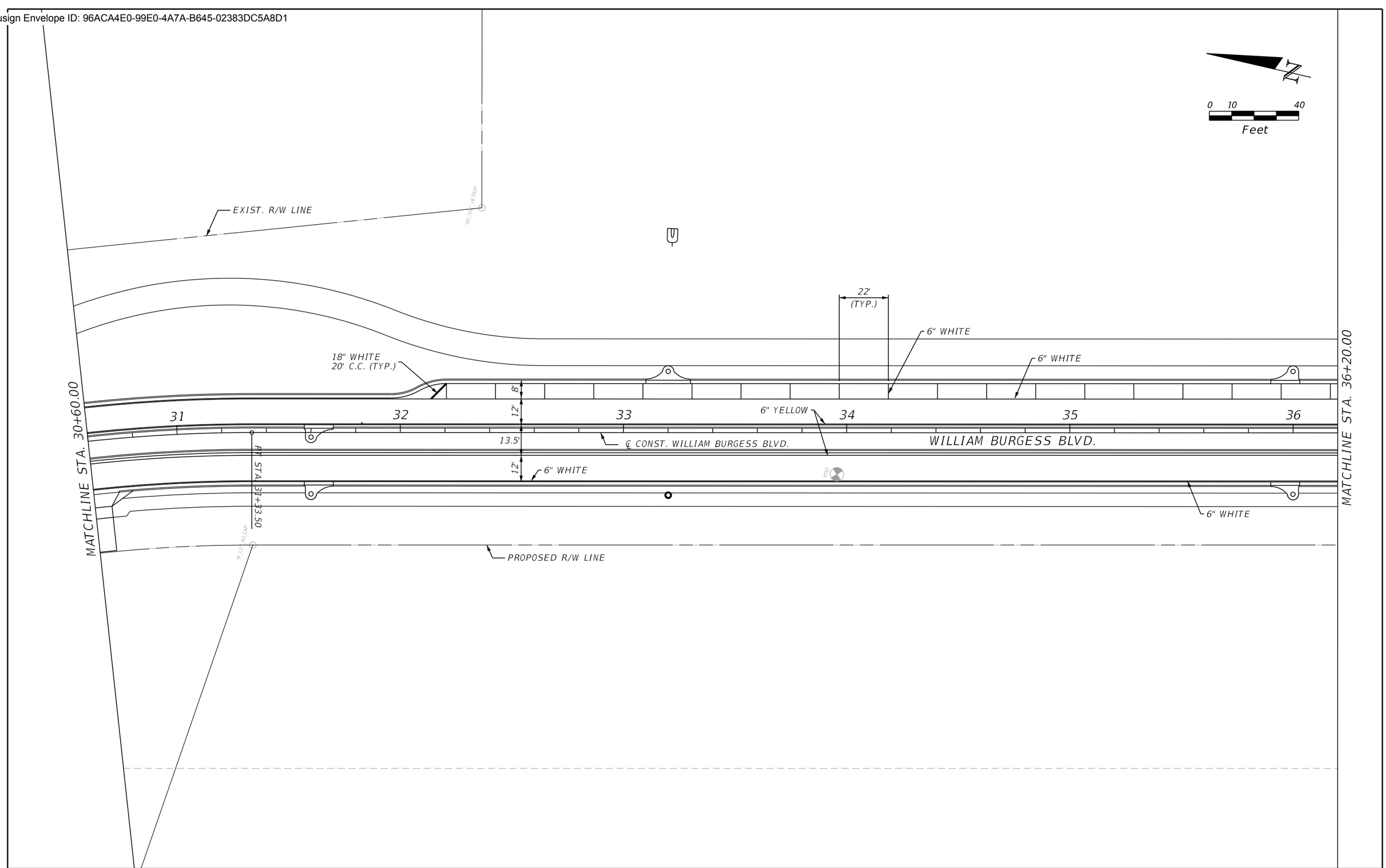
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NASSAU COUNTY, FLORIDA

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S-10

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PROJECT NO. / DASH NO.
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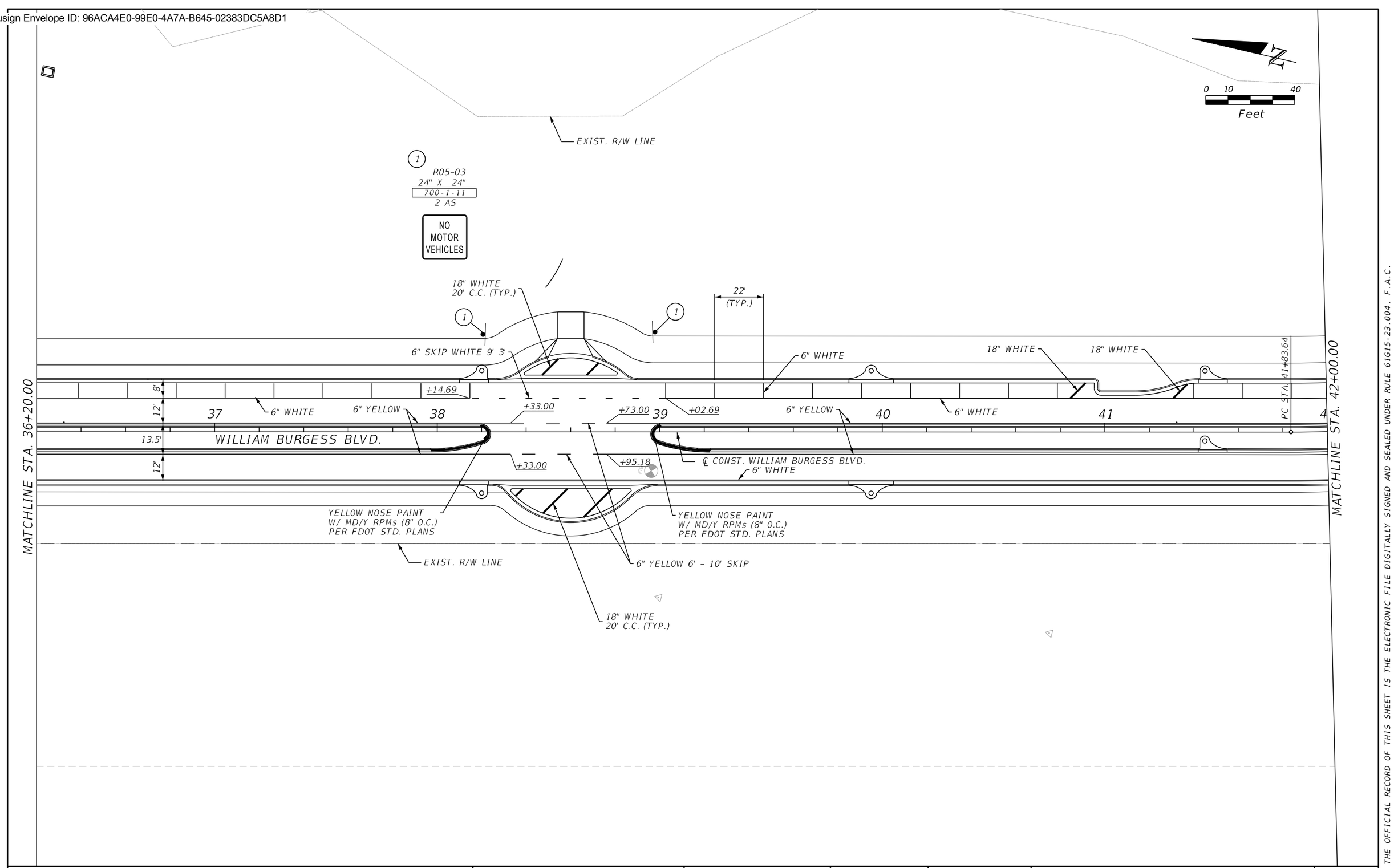
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-11

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DATE:	9/26/2023
DRAWN:	JD
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APPROVED:	RT

PROJECT NO. / DASH NO.
B190839.00

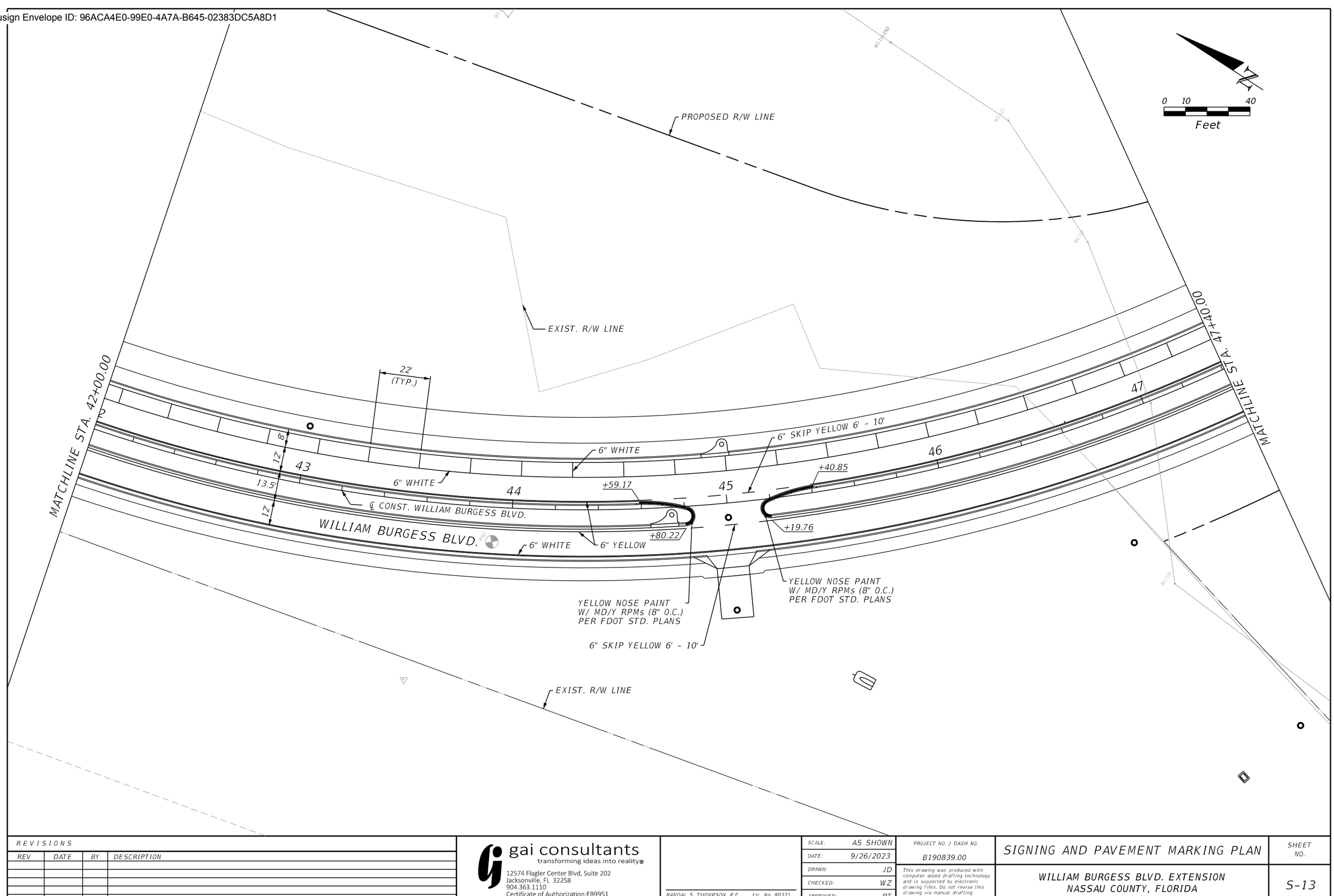
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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-12

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CHECKED:	WZ
APPROVED:	RT

PROJECT NO. / DASH NO.
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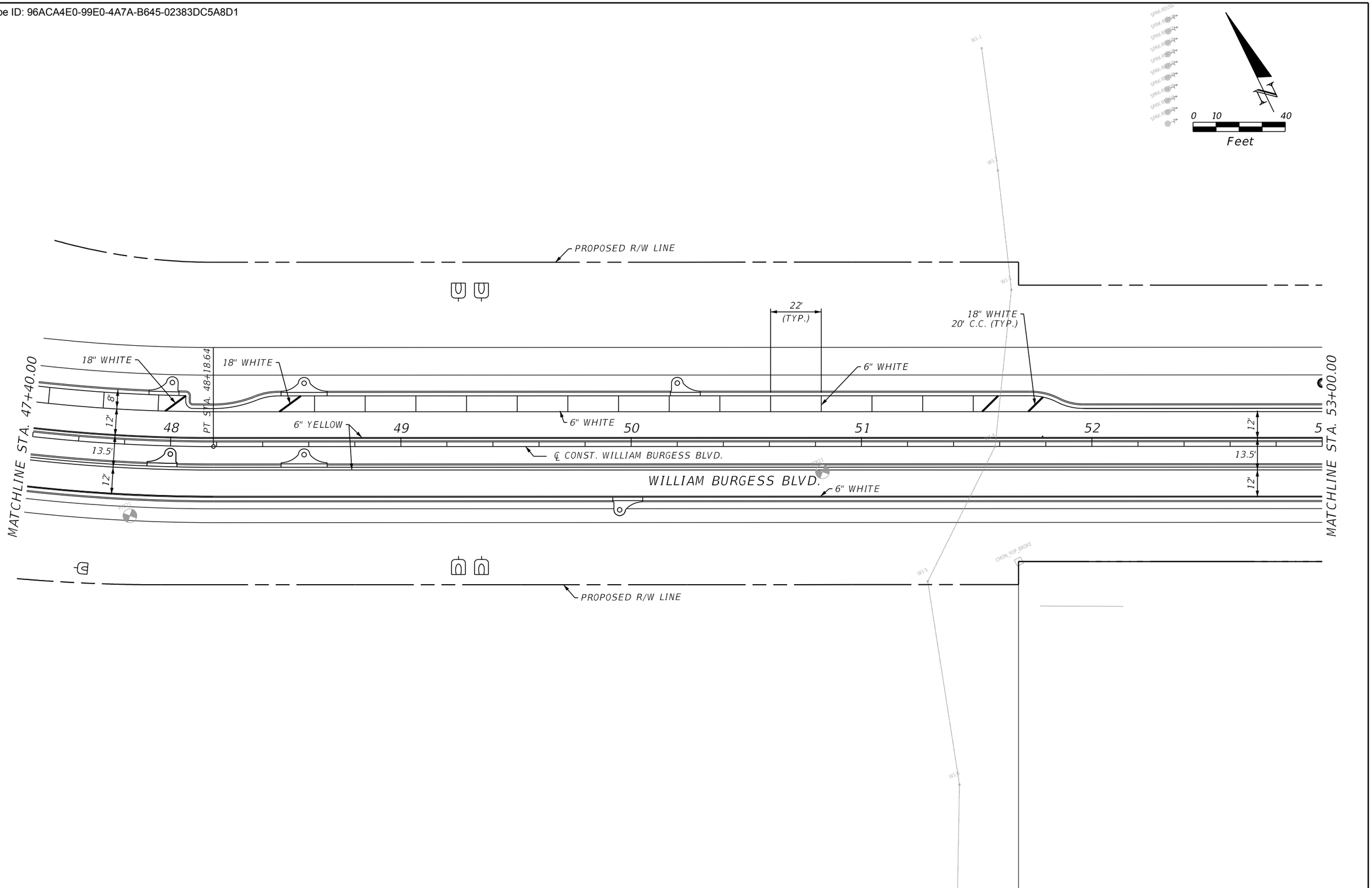
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

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S-13

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PROJECT NO. / DASH NO.
B190839.00

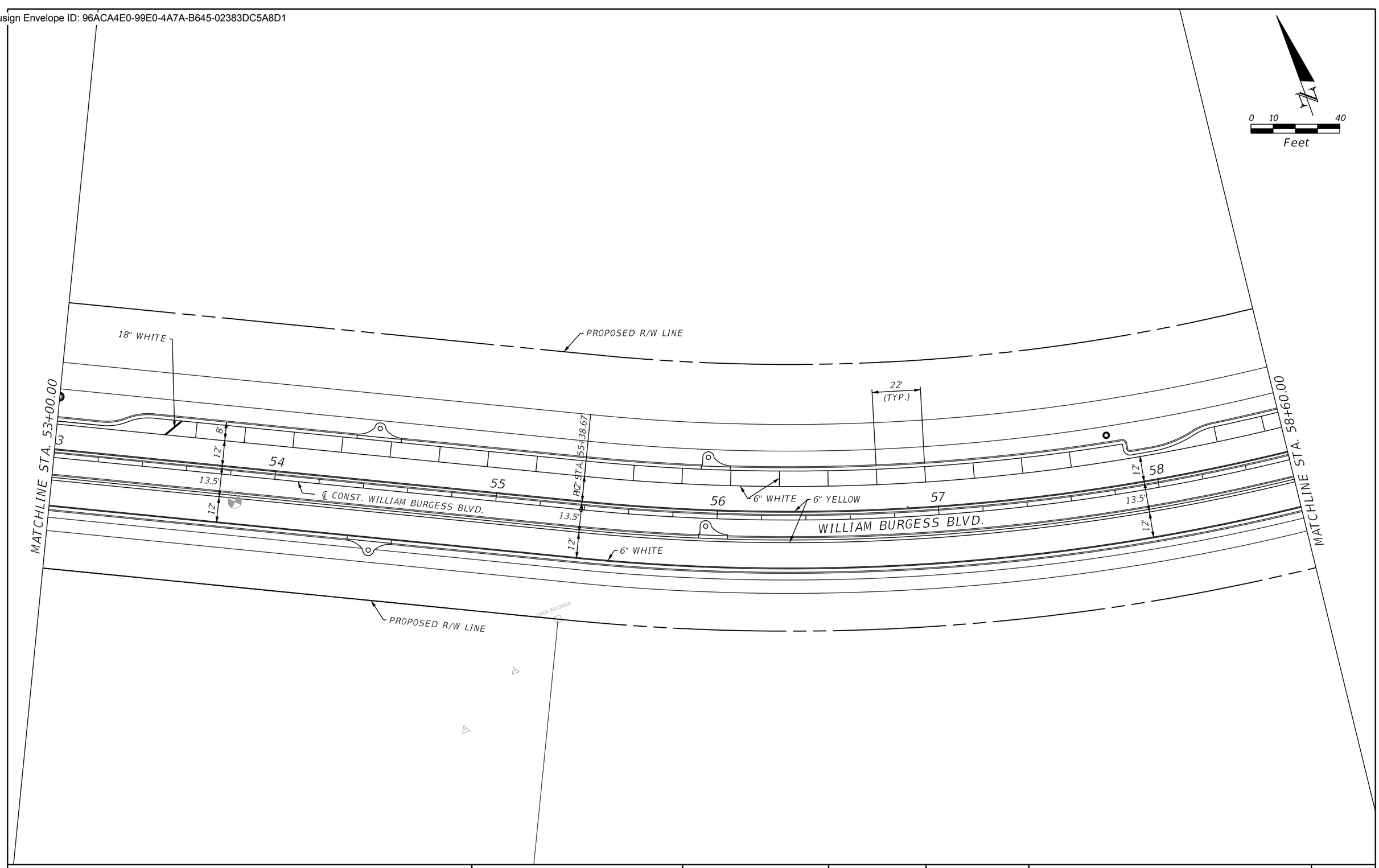
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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-14

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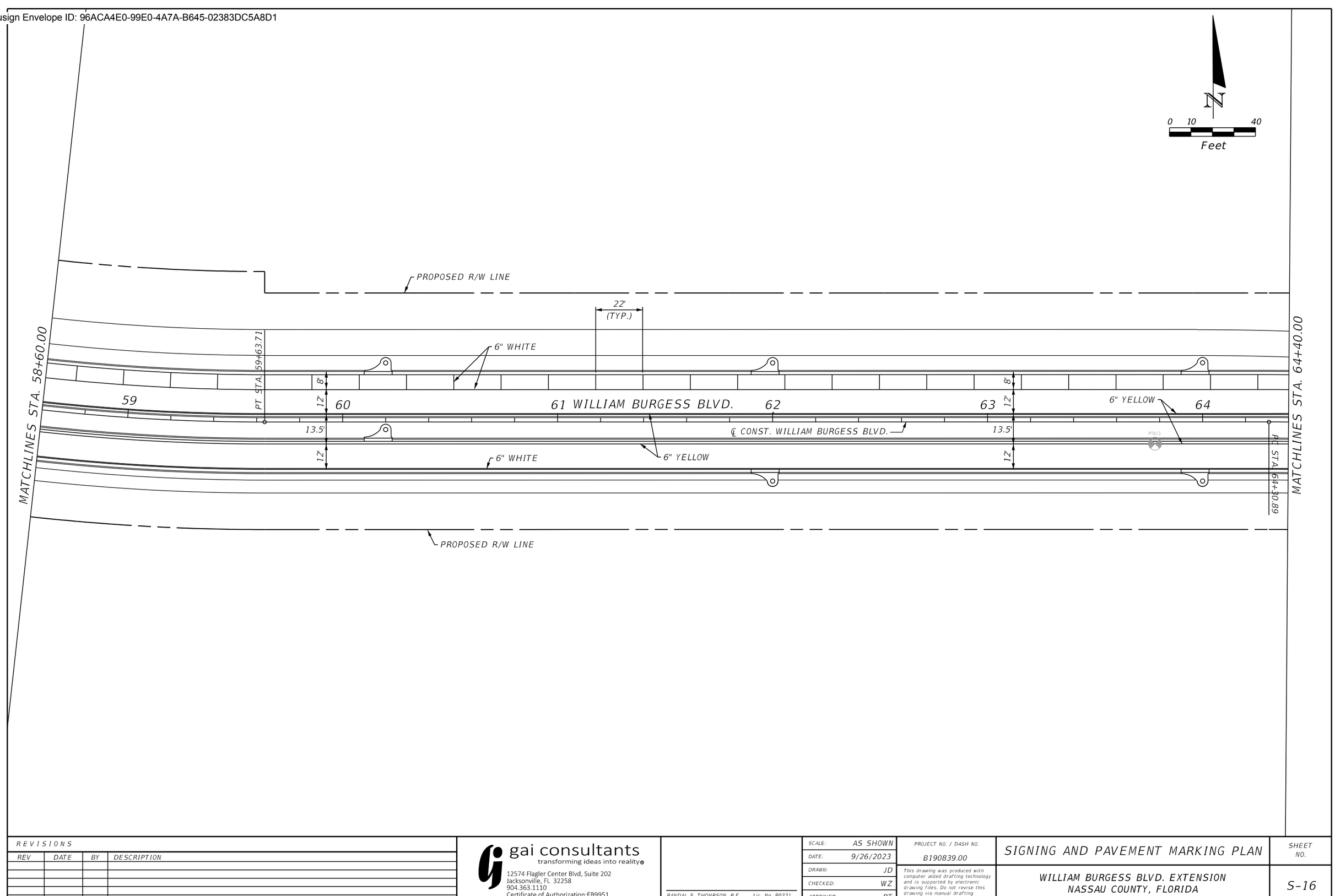
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-15

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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-16

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1
R05-03
24" X 24"
700-1-11
2 AS
NO MOTOR VEHICLES

N
0 10 40
Feet

MATCHLINE STA. 64+40.00

6" WHITE
18" WHITE
20' C.C. (TYP.)
6" YELLOW
12'
65
66
WILLIAM BURGESS BLVD.
67
68
6" WHITE
6" DBL. YELLOW
PROPOSED R/W LINE

W02-01
24" X 30"
700-1-11
1 AS
SPEED LIMIT 35

W11-02
30" X 30"
W16-07P
24" X 12"
700-1-11
1 AS

12" WHITE
(TYP.)

PT STA. 67+96.48
6" YELLOW
℄ CONST. WILLIAM BURGESS BLVD.
69

MATCHLINE STA. 70+00.00

25 MPH
PROPOSED R/W LINE
10'

W02-06
30" X 30"
W13-01P
18" X 18"
700-1-11
1 AS

W11-02
30" X 30"
W16-07P
24" X 12"
700-1-11
1 AS

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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-17

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MATCHLINE STA. 72+40.00

℄ CONST. WILLIAM BURGESS BLVD.

WILLIAM BURGESS BLVD.

24" WHITE (TYP)

DIRECTIONAL ARROW PER FDOT INDEX 711-001 (TYP)

6" WHITE

PROPOSED R/W LINE

12" SKIP WHITE 2'-4' (TYP.)

10' (TYP.)

PT STA. 204+11.90

PI STA. 201+79.69

6" WHITE (TYP.)

6" DBL. YELLOW W/ Y/Y RPM's 20' C.C.

PC STA. 202+99.12

PT STA. 202+68.98

PI STA. 202+11.86

6" DBL. YELLOW W/ Y/Y RPM's 40' C.C.

PI STA. 204+94.30

6" YELLOW (TYP)

6" YELLOW (TYP.)

12' WHITE (TYP.)

18" YELLOW 20' C.C. (TYP.)

PROPOSED R/W LINE

MATCHLINE STA. 70+00.00

** YELLOW NOSE PAINT W/ MD/Y RPMs (8" O.C.) PER FDOT STD. PLANS

① W02-06 30" X 30" W13-01P 18" X 18" 700-1-11 2 AS

② W11-02 30" X 30" W16-07P 24" X 12" 700-1-11 4 AS

③ WBB RA 96" X 18" 700-1-11 2 AS

④ THERESA 66" X 18" 700-1-11 1 AS

⑤ R06-04 30" X 24" 700-1-11 3 AS

⑥ R01-02 36" X 36" X 36" 700-1-11 3 AS

R09-09 MOD 24" X 15" 700-1-11 1 AS

END OF SIDEWALK

W02-06 30" X 30" W13-01P 18" X 18" 700-1-11 1 AS

25 MPH

TO BE REMOVED 700-1-60 1 AS

DEAD END

EXIST. R/W LINE

℄ CONST. THERESA CT.

6" WHITE

6" DBL. YELLOW

+20.00

THERESA CT.

24" WHITE

EXIST. R/W LINE

STOP

R01-01 36" X 36" 700-1-11 1 AS

STOP

TO REMAIN

RADIO CT.

RADIO AVE.

0 10 40 Feet

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904.363.1110
Certificate of Authorization:EB9951

RANDAL S. THOMPSON, P.E. Lic. No. 80321

SCALE:	AS SHOWN
DATE:	9/26/2023
DRAWN:	JD
CHECKED:	WZ
APPROVED:	RT

PROJECT NO. / DASH NO. B190839.00

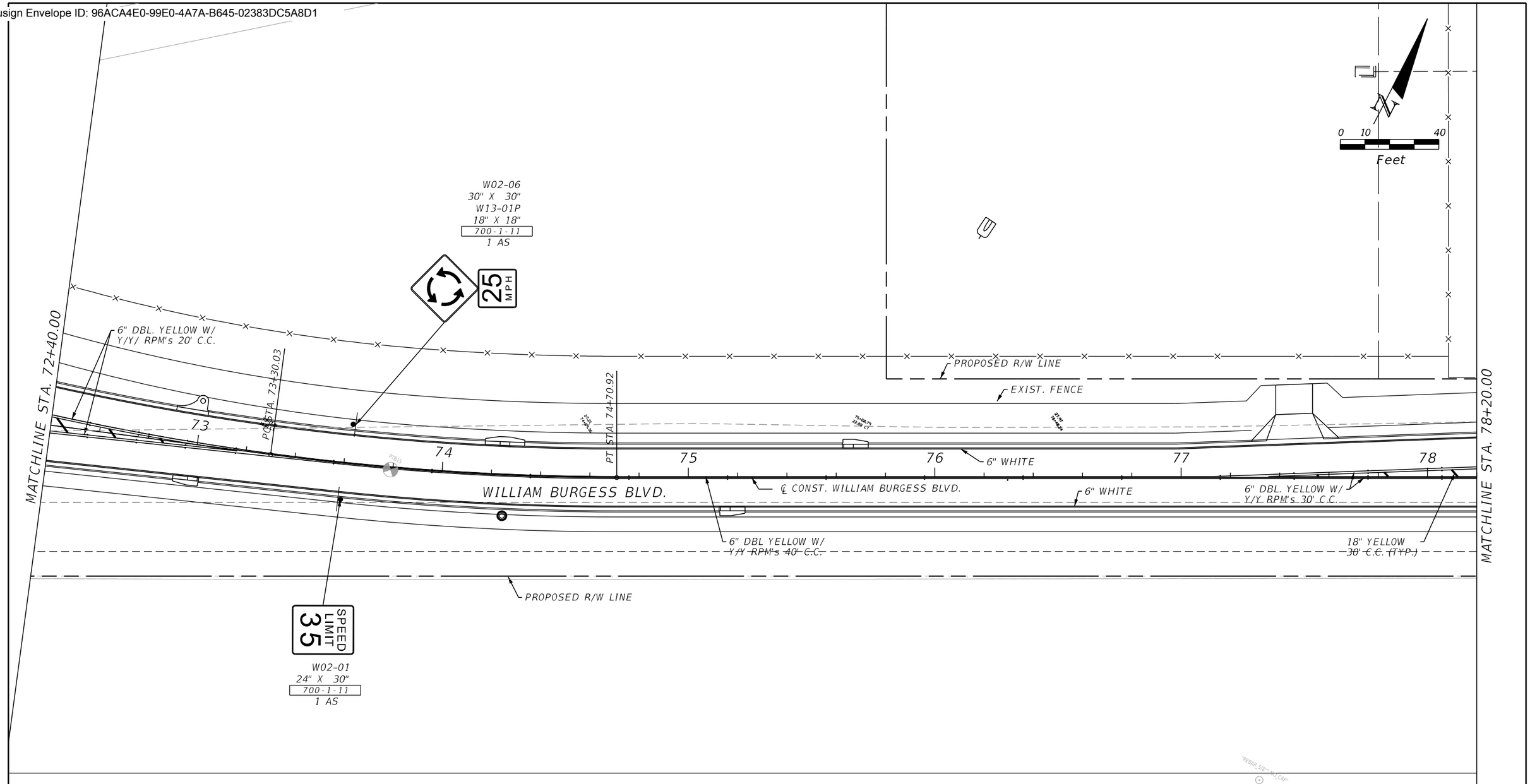
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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. S-18

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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DATE:	9/26/2023
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APPROVED:	RT

PROJECT NO. / DASH NO.
B190839.00

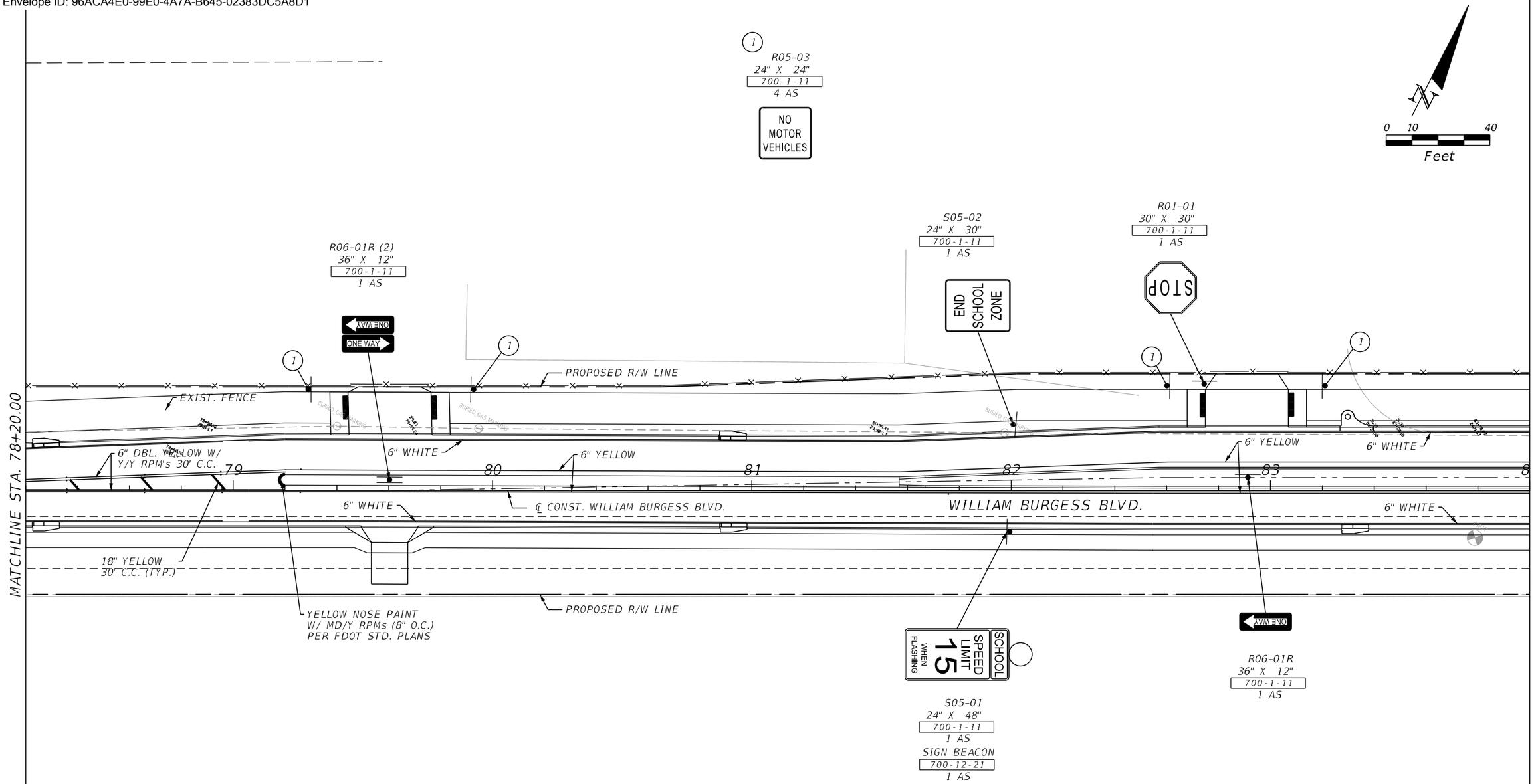
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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-19

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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DATE:	9/26/2023
DRAWN:	JD
CHECKED:	WZ
APPROVED:	RT

PROJECT NO. / DASH NO.
B190839.00

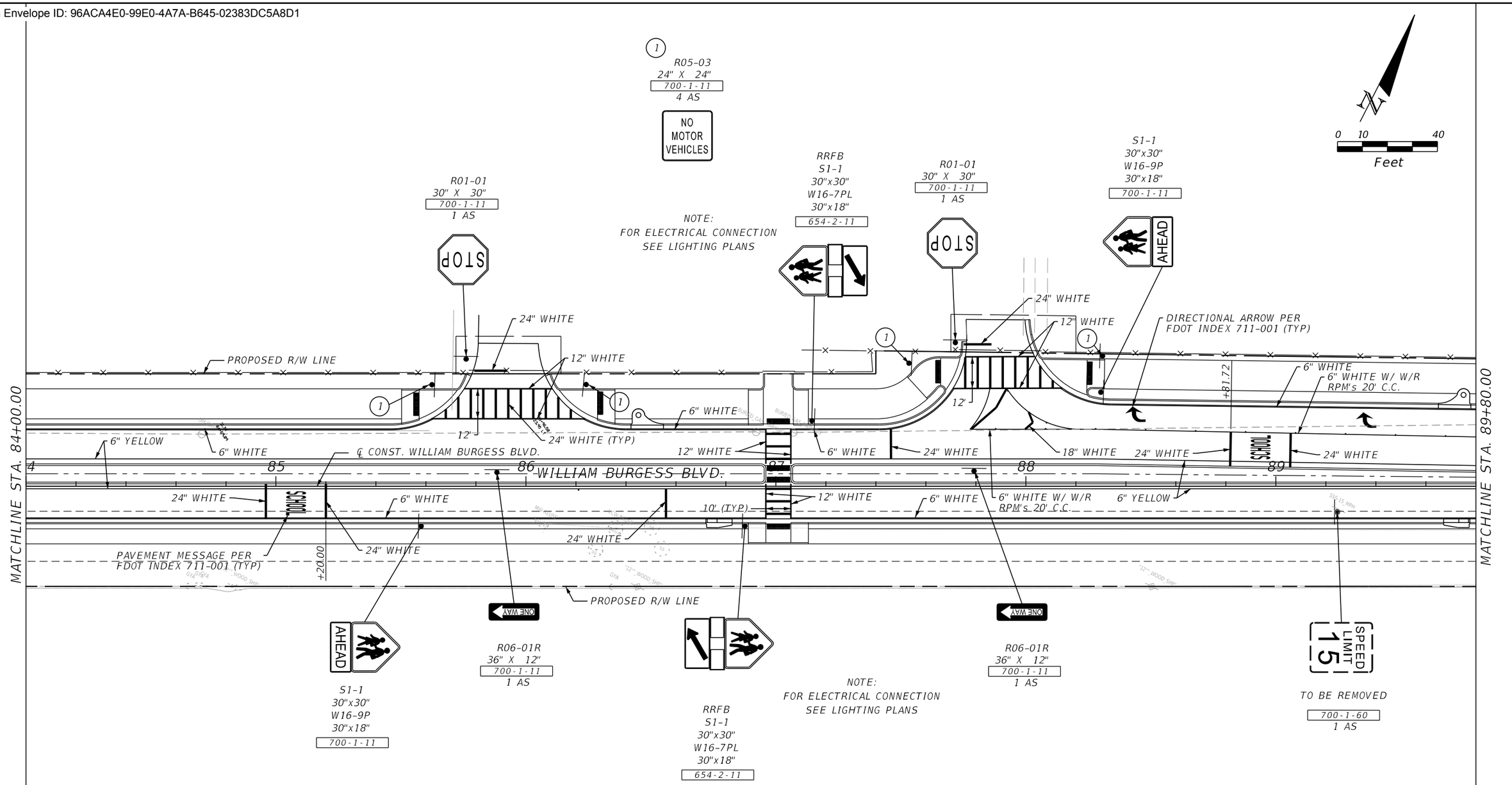
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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-20

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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DATE:	9/26/2023
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APPROVED:	RT

PROJECT NO. / DASH NO.
B190839.00

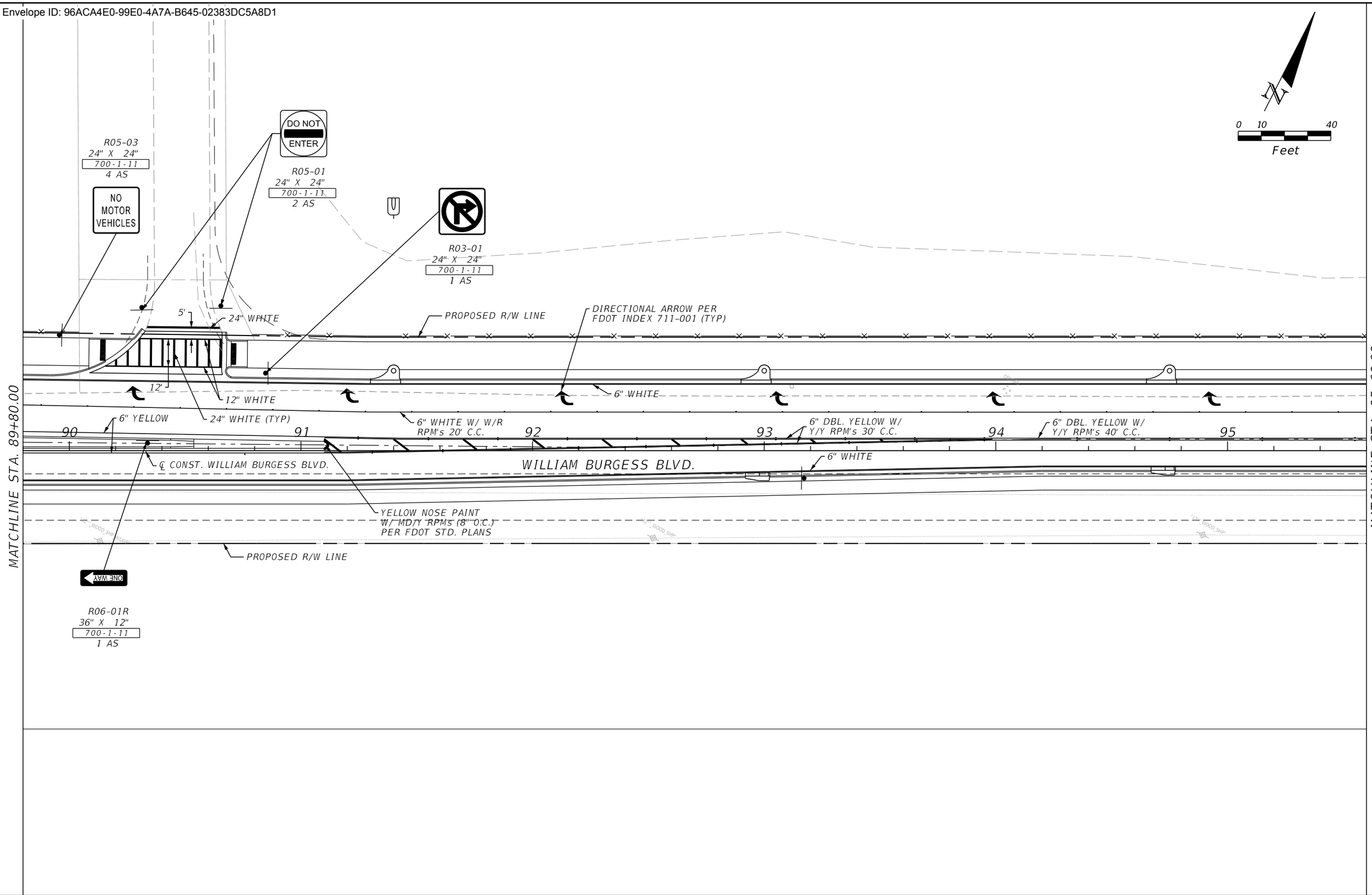
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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-21

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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B190839.00

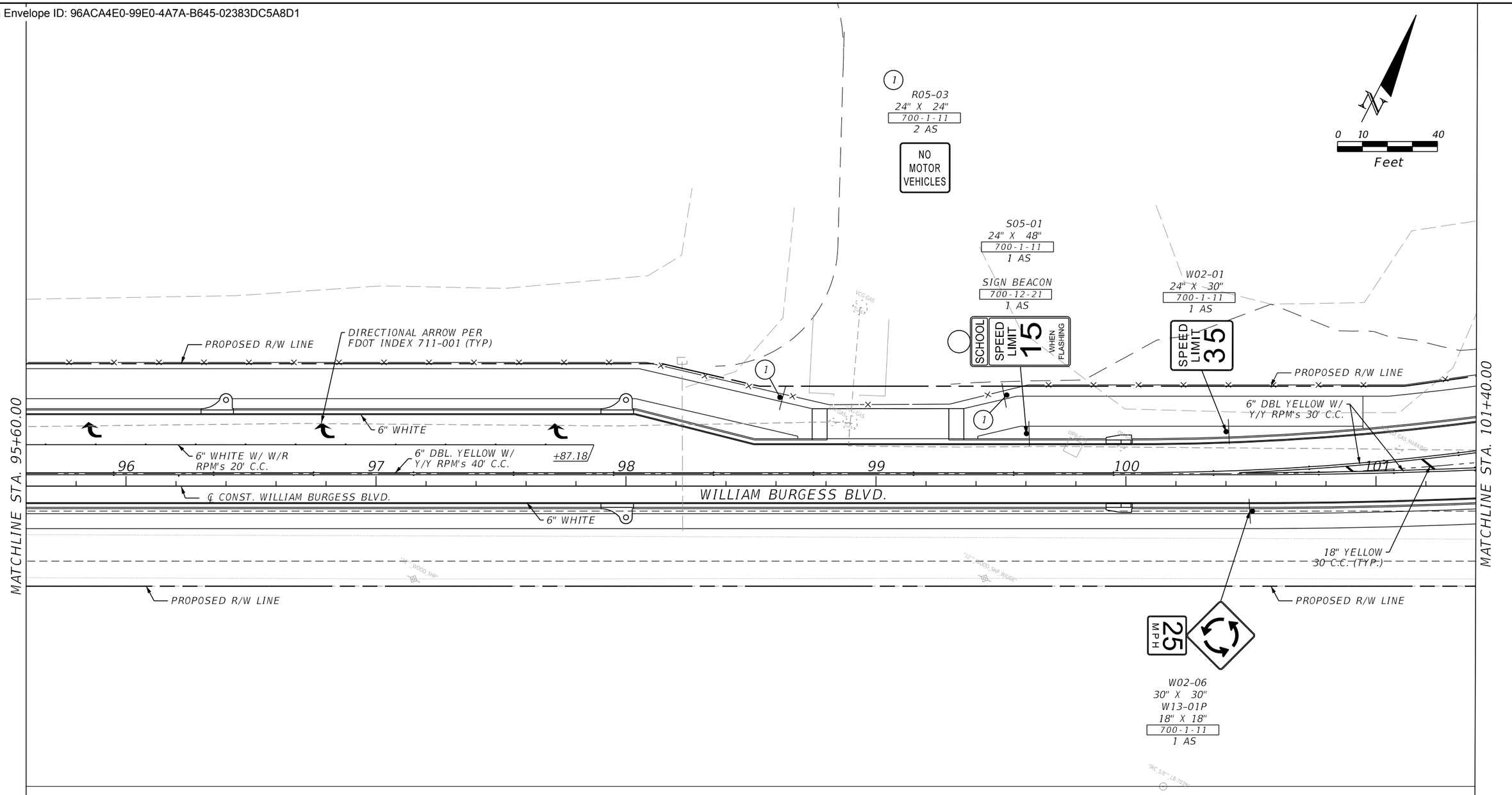
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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-22

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-23

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

MATCHLINE STA. 101+40.00

18" YELLOW

6" DBL. YELLOW W/ Y/Y RPM's 30' C.C.

YELLOW NOSE PAINT W/ MD/Y RPMs (8" O.C.) PER FDOT STD. PLANS

6" YELLOW

24" WHITE (TYP)

PROPOSED R/W LINE

6" WHITE (TYP.)

DIRECTIONAL ARROW PER FDOT INDEX 711-001 (TYP)

YULEE HIGH SCHOOL SIGN TO BE RELOCATED. 0700-1-50A

12" SKIP WHITE 2'-4' (TYP.)

E1 TO BE REMOVED 700-1-60 1 AS

E2 TO BE REMOVED 700-1-60 3 AS

TO BE REMOVED 700-1-60 1 AS

W02-06 30" X 30" W13-01P 18" X 18" 700-1-11 1 AS

0 10 40 Feet

TO REMAIN END SCHOOL ZONE

MATCHLINE STA. 302+60.00

EXIST. R/W LINE

YELLOW NOSE PAINT W/ MD/Y RPMs (8" O.C.) PER FDOT STD. PLANS

6" WHITE

18" YELLOW 20' C.C. (TYP.)

12" WHITE (TYP.)

303 304 305 306 307 308

18" YELLOW

REMOVE EXIST. ARROWS

6" YELLOW

6" WHITE

10' (TYP)

6" YELLOW (TYP.)

EXIST. R/W LINE

6" WHITE

18" YELLOW

6" DBL. YELLOW W/ Y/Y RPM's 20' C.C.

6" YELLOW

6" WHITE

℄ MINER RD.

6" DBL. YELLOW W/ Y/Y RPM's 20' C.C.

SCHOOL SPEED LIMIT 15 WHEN FLASHING

TO REMAIN

TO BE REMOVED 700-1-60 1 AS

STA. 103+45.40 ℄ CONST WILLIAM BURGESS BLVD. = STA. 305+00.00 ℄ MINER RD.

BEGIN CONSTRUCTION STA. 303+76.57 ℄ MINER RD.

EXIST. R/W LINE

YELLOW NOSE PAINT W/ MD/Y RPMs (8" O.C.) PER FDOT STD. PLANS

END CONSTRUCTION STA. 307+33.16 ℄ MINER RD.

EXIST. R/W LINE

END STRIPING STA. 308+50.00 ℄ MINER RD.

1 W02-06 30" X 36" W13-01P 18" X 18" 700-1-11 3 AS

2 W11-02 30" X 30" W16-07P 24" X 12" 700-1-11 6 AS

3 William Burgess Blvd WBB RA 96" X 18" 700-1-11 2 AS

4 Miner Rd MINER 60" X 18" 700-1-11 1 AS

5 R06-04 30" X 24" 700-1-11 3 AS

6 YIELD R01-02 36" X 36" X 36" 700-1-11 3 AS

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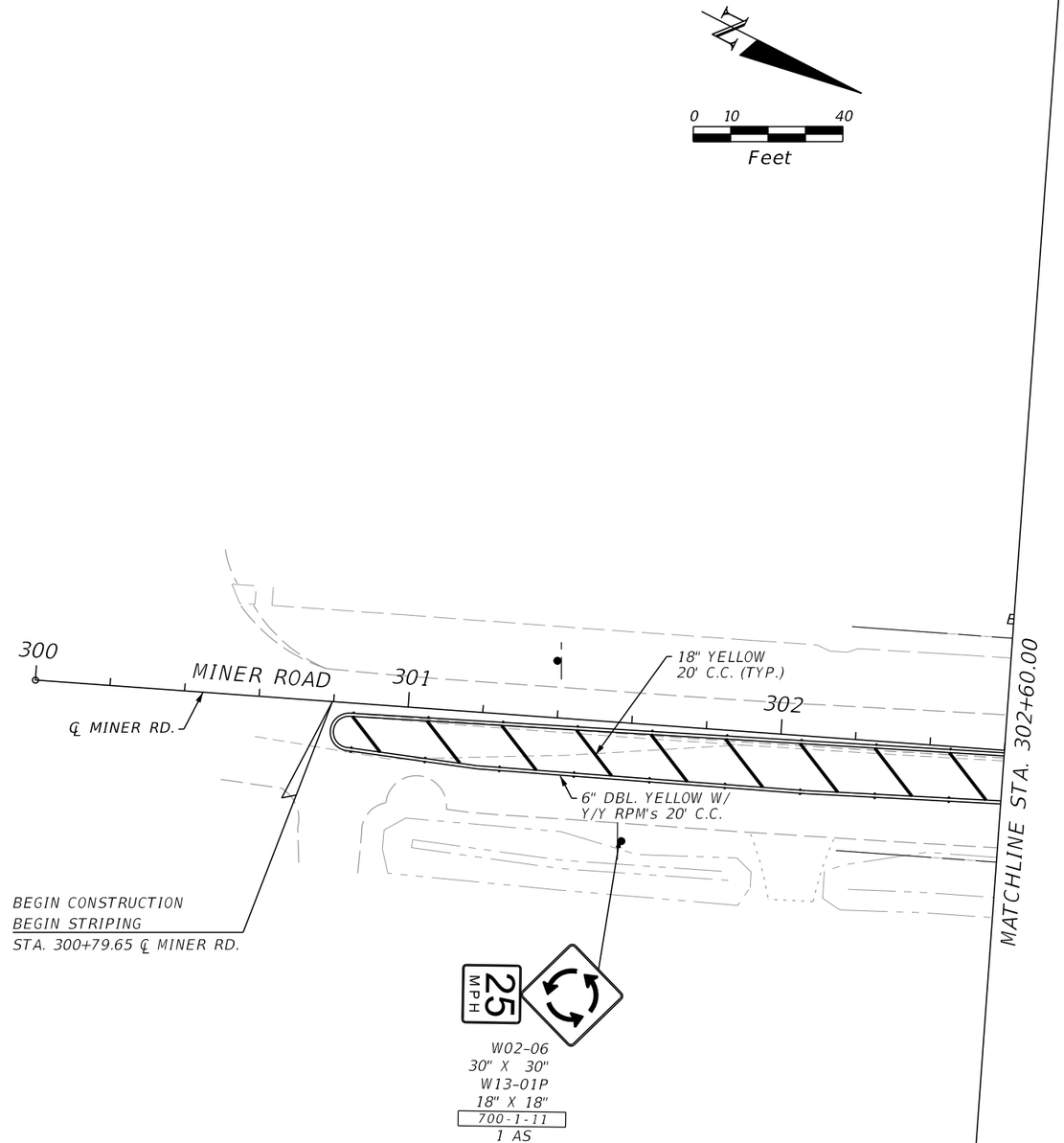
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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. S-24

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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SCALE:	AS SHOWN
DATE:	9/26/2023
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APPROVED:	RT

PROJECT NO. / DASH NO.
B190839.00

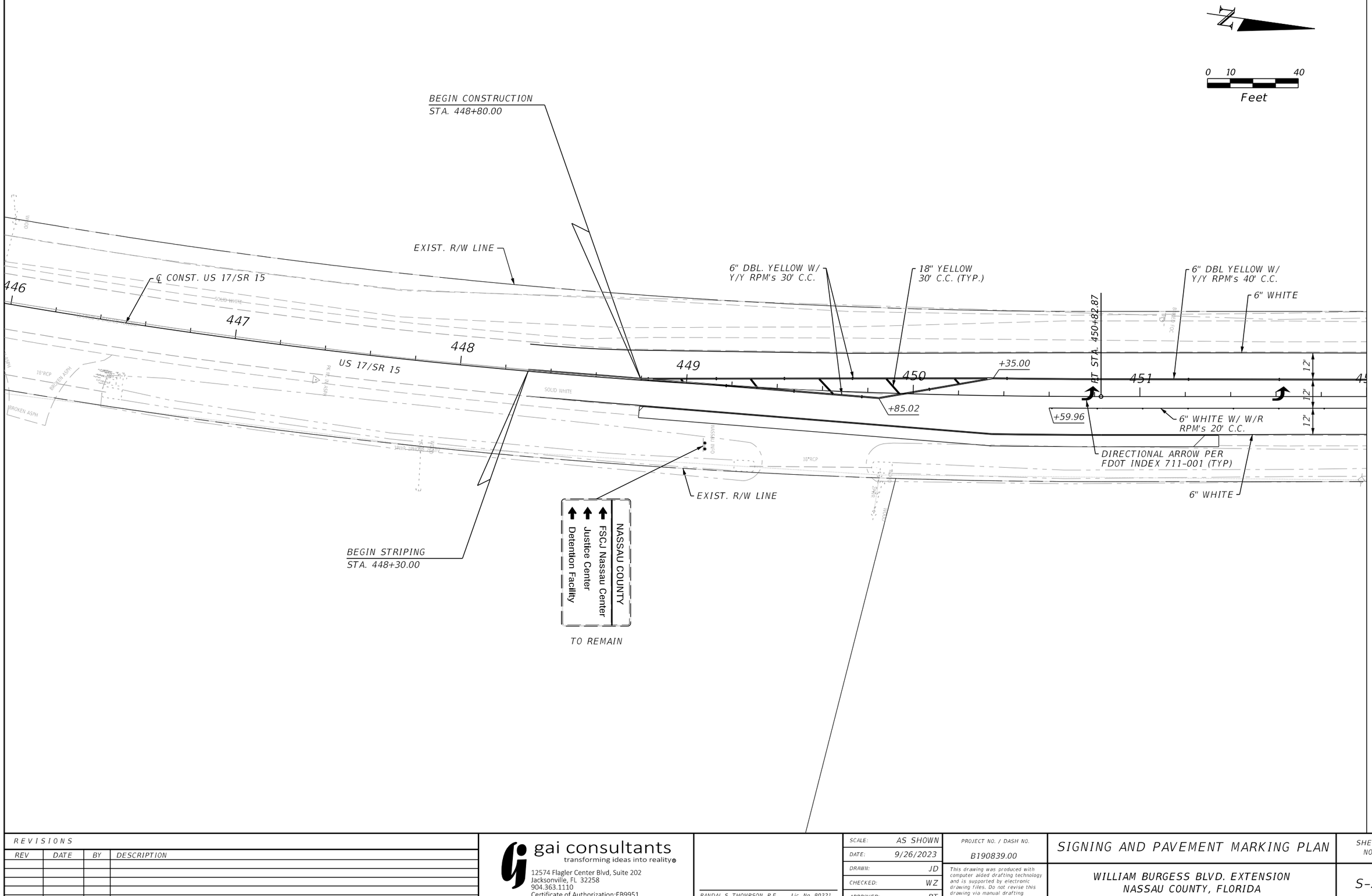
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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-25

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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SCALE:	AS SHOWN
DATE:	9/26/2023
DRAWN:	JD
CHECKED:	WZ
APPROVED:	RT

PROJECT NO. / DASH NO.
B190839.00

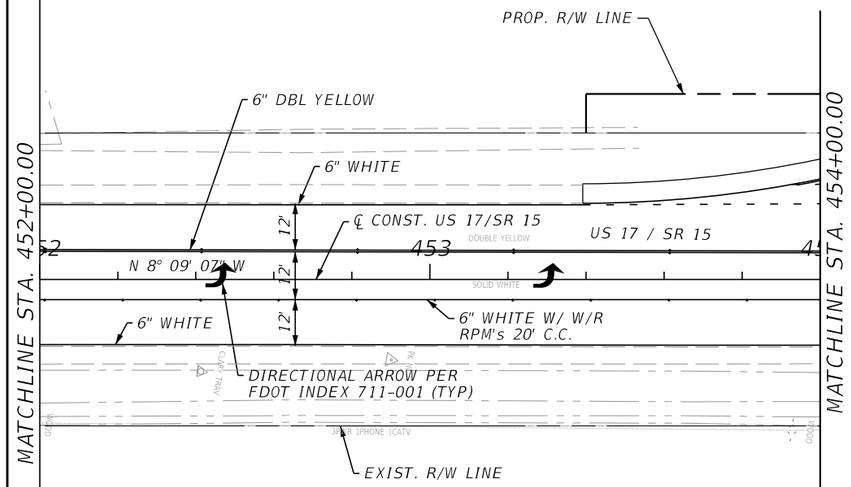
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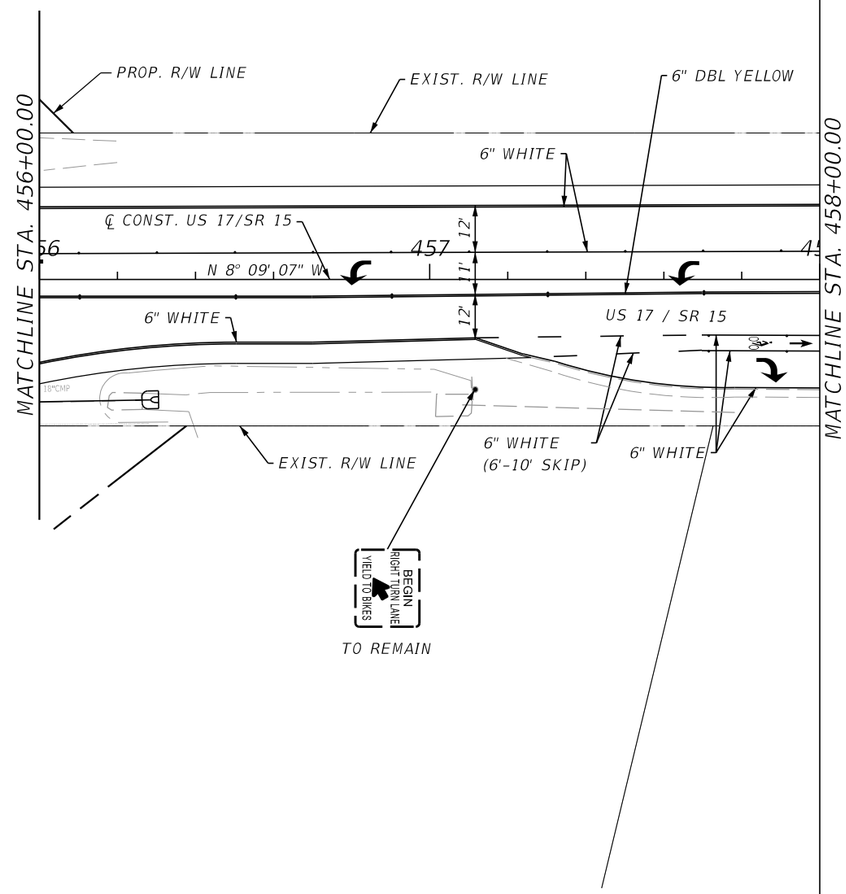
SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-26

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1





0 10 40
Feet

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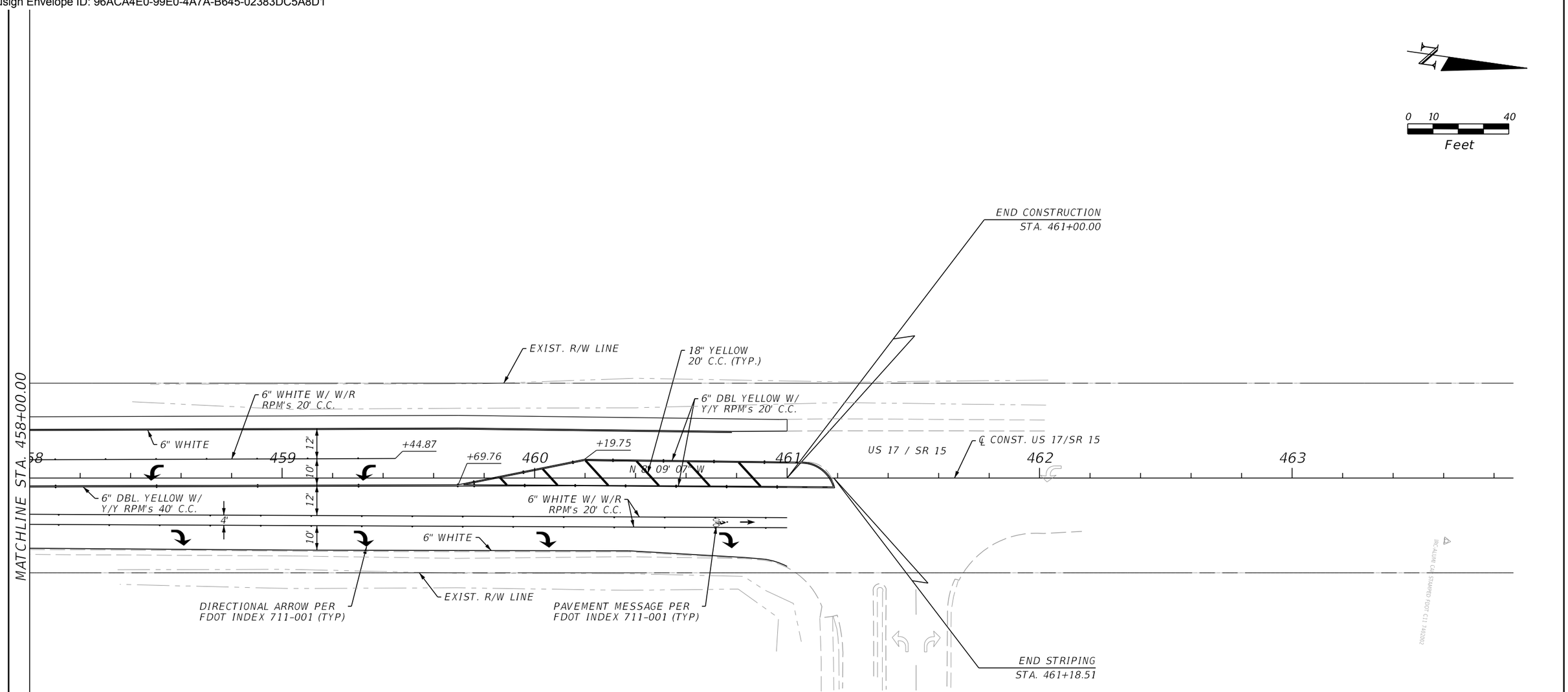
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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-27

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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SIGNING AND PAVEMENT MARKING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

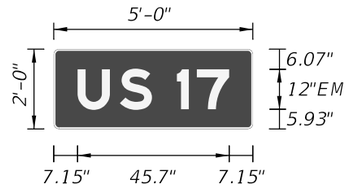
SHEET NO.
S-28

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

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HEIGHT	2'-0"	RADII	1.5"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



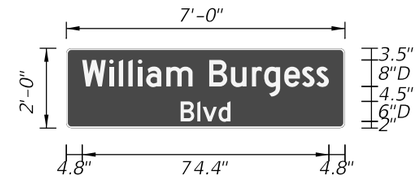
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	U	S		1	7		L
SPACE	7.2	19.9	29.6	37.1	43.1		45.7
COPY							
SPACE							
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SPACE							
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SPACE							
COPY							
SPACE							
COPY							
SPACE							

SIGN NAME	WBB	QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER			none
WIDTH	7'-0"	WIDTH	0.5"		
HEIGHT	2'-0"	RADII	1.5"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



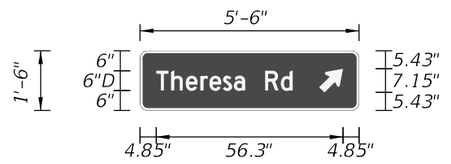
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	W	i	l	l	i	a	m		B	u	r	g	e	s	s		L
SPACE	4.8	13	15.9	18.7	21.6	24.1	30.2	38.1	43.1	49.7	56	59.7	65.7	71.1	75.4		74.4
COPY	B	l	v	d		L											
SPACE	34.5	39.5	41.2	45.9		15											
COPY																	
SPACE																	
COPY																	
SPACE																	
COPY																	
SPACE																	
COPY																	
SPACE																	

SIGN NAME	Theresa	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			none
WIDTH	5'-6"	WIDTH	0.75"		
HEIGHT	1'-6"	RADII	2.25"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	315	54	5.4	6	9

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



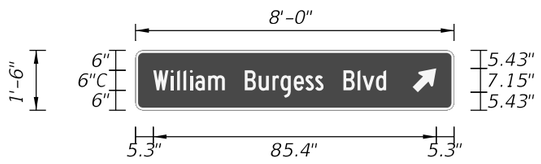
NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	T	h	e	r	e	s	a		R	d		L
SPACE	4.8	9.3	13.8	18.2	20.9	24.9	28.2	31.7	37.7	42.4		41.2
COPY												
SPACE												
COPY												
SPACE												
COPY												
SPACE												
COPY												
SPACE												
COPY												
SPACE												

SIGN NAME	WBB RA	QTY	3	SIGN NUMBER	STATION(S)
PANEL		BORDER			none
WIDTH	8'-0"	WIDTH	0.75"		
HEIGHT	1'-6"	RADII	2.25"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	315	83.5	5.4	6	9

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	W	i	l	l	i	a	m		B	u	r	g	e	s	s		B	l	v	d		L
SPACE	5.3	10.6	12.5	14.4	16.4	18	21.9	26.9	32.9	37.1	41.3	43.7	47.7	51.2	54.2	56.7	62.7	66.9	68.4	72.5		70.2
COPY																						
SPACE																						
COPY																						
SPACE																						
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SPACE																						
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SPACE																						

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APPROVED:	RT

PROJECT NO. / DASH NO.: B190839.00

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GUIDE SIGN WORKSHEET

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. S-29

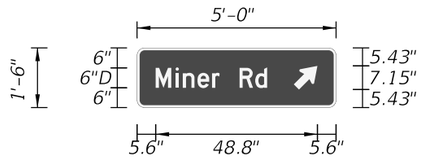
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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

PANEL		BORDER			none
WIDTH	5'-0"	WIDTH	0.75"		
HEIGHT	1'-6"	RADII	2.25"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	315	47.2	5.4	6	9

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

SIGN NAME		QTY		SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH		WIDTH			
HEIGHT		RADII			
LEGEND		COLOR			
COLOR					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY	M	i	n	e	r		R	d		L														
SPACE	5.6	11.6	13.8	18.2	22.6	24.9	30.9	35.6		33.6														
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SIGN NAME		QTY		SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH		WIDTH			
HEIGHT		RADII			
LEGEND		COLOR			
COLOR					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

COPY																								
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REVISIONS			
REV	DATE	BY	DESCRIPTION

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Jacksonville, FL 32258
904.363.1110
Certificate of Authorization:EB9951

RANDAL S. THOMPSON, P.E. Lic. No. 80321

SCALE:	AS SHOWN
DATE:	9/26/2023
DRAWN:	JD
CHECKED:	WZ
APPROVED:	RT

PROJECT NO. / DASH NO.
B190839.00

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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
S-30

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

NASSAU COUNTY ENGINEERING

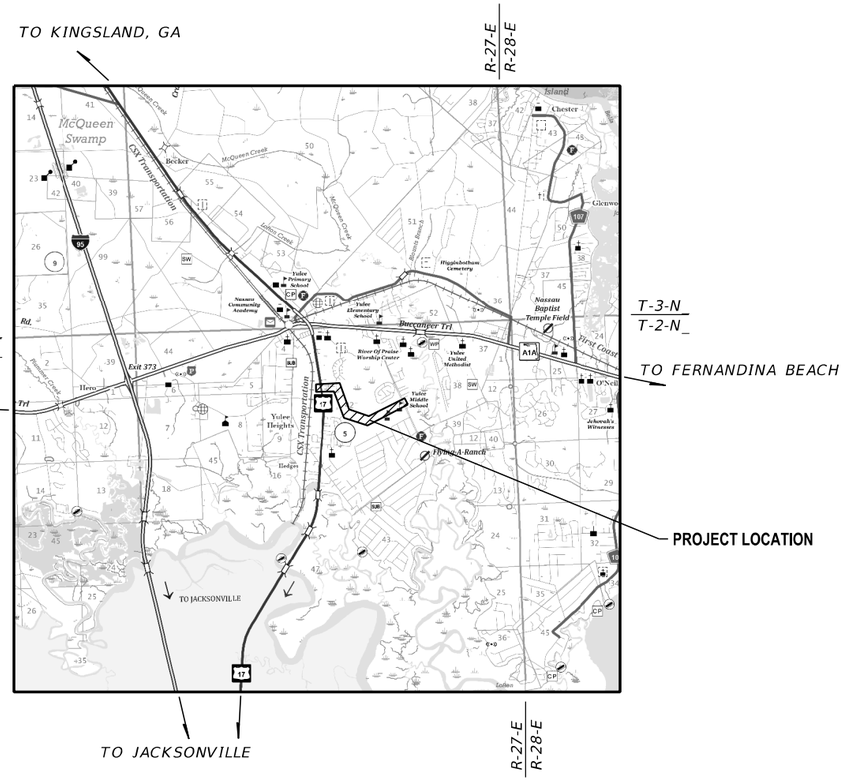
CONTRACT PLANS

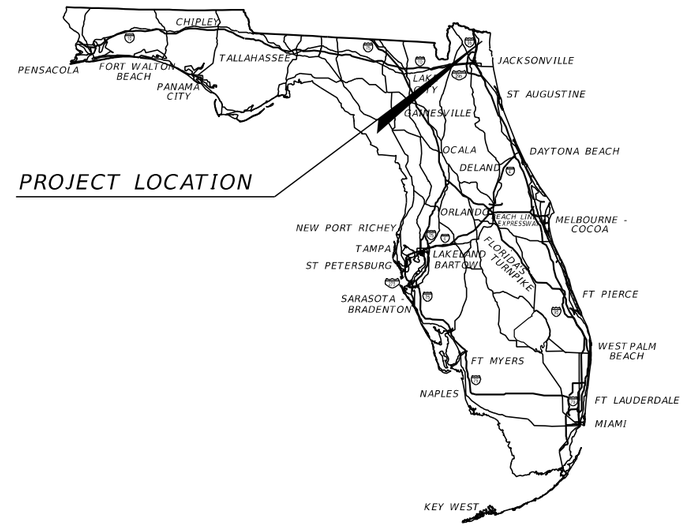
WILLIAM BURGESS BLVD. EXTENSION

LANDSCAPING PLANS

INDEX OF LANDSCAPING PLANS

SHEET NO.	SHEET DESCRIPTION
CV-1	KEY SHEET
LQ-1 - LQ-4	TABULATION OF QUANTITIES
LD-1 - LD-19	LANDSCAPE PLANS
LD-20	HARDSCAPE PLANS
IR-1 - IR-27	IRRIGATION PLANS





NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS

JOHN F. MARTIN, DISTRICT 1
A.M. "HUPP" HUPPMAN, DISTRICT 2
JEFF GRAY, DISTRICT 3
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LANDSCAPING PLANS P.L.A. OF RECORD:

RUTH PERRY, P.L.A.
NO.: LA1530
GAI CONSULTANTS, INC.
12574 FLAGLER CENTER BLVD, SUITE 202
JACKSONVILLE, FL 32258
CONTRACT NO.:
VENDOR NO.: 251260999-002

NASSAU COUNTY PROJECT MANAGER:

ROBERT T. COMPANION, P.E.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2022/2023 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Nassau County Ordinance 99-17, Roadway and Drainage Standards

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January, 2022 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

SHEET NO.
CV-1

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

LANDSCAPE TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINT'D SIZE	SPACING	REMARKS	UNIT	SHEET NUMBER											
										LD-1		LD-2		LD-3		LD-4		LD-5		LD-6	
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-2	Large	CC	Cercis canadensis	Redbud Tree	30 GAL.; SINGLE TRUNK		As Shown	10`-12` HT	EA							3		3		10	
580-1-2	Large	CF	Cornus florida	Dogwood	30 GAL.; SINGLE TRUNK		As Shown	10`-12` HT	EA									4		10	
580-1-2	Large	LI2	Lagerstroemia indica 'Muskogee'	Muskogee Crape Myrtle	30 GAL.; Multi-trunk		As Shown	10`-12` HT. X 5`-6` SPRD.	EA			2		3		5				5	
580-1-2	Large	LI	Lagerstroemia indica `Natchez`	Natchez White Crape Myrtle	30 gal; Multi-trunk		As Shown	10`-12` x 6`-8`	EA	14		1		2							
580-1-2	Large	PE	Pinus elliotti	Slash Pine	45 GAL./ RPG., 2.5" cal.		As Shown	10`-12` HT. X 5`-6` SPRD.										5		13	
580-1-2	Large	QV	Quercus virginiana	Southern Live Oak	15 gal		As Shown		EA	6		10		5		7		8		9	
580-1-2	Large	SS	Sabal palmetto	Cabbage Palmetto	15 gal		As Shown		EA												
580-1-2	Large	TD	Taxodium distichum	Bald Cypress	15 gal		As Shown		EA									3		12	
580-1-2	Small	IVS	Ilex vomitoria `Stokes Dwarf`	Dwarf Yaupon	3 GAL.		36" o.c.	14" HT. X 14" SPRD., FULL; 3/Pot	EA			15		14							
580-1-2	Small	MC	Muhlenbergia cappillaris	Muhly Grass	3 GAL.		36" o.c.	36" HT.	EA			44		80		8					
580-1-2	Small	VA	Vaccinium myrsintes	Shiny Blueberry	3 GAL.		36" o.c.	10" - 12" O.A.	EA												
580-1-2	Small	ZP	Zamia pumila	Coontie	5 gal		36" o.c.	24"-30" sprd.	EA	74						20				112	
580-1-2	Small	SB	Spartina bakeri	Sand Cordgrass	3 GAL.		36" o.c.	24" Ht, Full	EA												
580-1-2	Small	DOB	Dyschoriste oblongifolia	Twinflower	1 GAL.		12" o.c.	8"-10" O.A.	SF							1,147					
580-1-2	Small	HSD	Hemerocallis 'Stella D'Oro'	Yellow Daylily	1 GAL.		18" o.c.		SF	462		932		98						499	
580-1-2	Small	SOD	Paspalum notatum	Bahia Grass	SOD		sod		SF	40,155		9,599		4,054		4,552		30,993		155,278	

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904.363.1110
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RUTH PERRY, RLA. Lic. No. LA 1530

SCALE: AS SHOWN
DATE: 10/24/2023
DRAWN: JD
CHECKED: RH
APPROVED: RP

PROJECT NO. / DASH NO. B190839.00

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TABULATION OF QUANTITIES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. LQ-1

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

LANDSCAPE TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINT'D SIZE	SPACING	REMARKS	UNIT	SHEET NUMBER											
										LD-7		LD-8		LD-9		LD-10		LD-11		LD-12	
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-2	Large	CC	Cercis canadensis	Redbud Tree	30 GAL.; SINGLE TRUNK		As Shown	10`-12` HT	EA			8		2				3		9	
580-1-2	Large	CF	Cornus florida	Dogwood	30 GAL.; SINGLE TRUNK		As Shown	10`-12` HT	EA			6								4	
580-1-2	Large	LI2	Lagerstroemia indica 'Muskogee'	Muskogee Crape Myrtle	30 GAL.; Multi-trunk		As Shown	10`-12` HT. X 5`-6` SPRD.	EA	5		7		8		5		9		5	
580-1-2	Large	LI	Lagerstroemia indica `Natchez`	Natchez White Crape Myrtle	30 gal; Multi-trunk		As Shown	10`-12` x 6`-8`	EA	3		3								6	
580-1-2	Large	PE	Pinus elliotti	Slash Pine	45 GAL./ RPG., 2.5" cal.		As Shown	10`-12` HT. X 5`-6` SPRD.				4								4	
580-1-2	Large	QV	Quercus virginiana	Southern Live Oak	15 gal		As Shown		EA	10		11		13		9		10		13	
580-1-2	Large	SS	Sabal palmetto	Cabbage Palmetto	15 gal		As Shown		EA			2		7							
580-1-2	Large	TD	Taxodium distichum	Bald Cypress	15 gal		As Shown		EA			7								3	
580-1-2	Small	IVS	Ilex vomitoria `Stokes Dwarf`	Dwarf Yaupon	3 GAL.		36" o.c.	14" HT. X 14" SPRD., FULL; 3/Pot	EA	29		30								83	
580-1-2	Small	MC	Muhlenbergia cappillaris	Muhly Grass	3 GAL.		36" o.c.	36" HT.	EA			122		161				122			
580-1-2	Small	VA	Vaccinium myrsintes	Shiny Blueberry	3 GAL.		36" o.c.	10" - 12" O.A.	EA												
580-1-2	Small	ZP	Zamia pumila	Coontie	5 gal		36" o.c.	24"-30" sprd.	EA			4		123		5		20		64	
580-1-2	Small	SB	Spartina bakeri	Sand Cordgrass	3 GAL.		36" o.c.	24" Ht, Full	EA											46	
580-1-2	Small	DOB	Dyschoriste oblongifolia	Twinflower	1 GAL.		12" o.c.	8"-10" O.A.	SF			531		625				53			
580-1-2	Small	HSD	Hemerocallis 'Stella D'Oro'	Yellow Daylily	1 GAL.		18" o.c.		SF	1,325		165				1,094				3,036	
580-1-2	Small	SOD	Paspalum notatum	Bahia Grass	SOD		sod		SF	12,285		46,922		37,679		14,952		29,583		31,682	

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904.363.1110
Certificate of Authorization:EB9951

RUTH PERRY, RLA. Lic. No. LA 1530

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RH
APPROVED:	RP

PROJECT NO. / DASH NO.: B190839.00

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TABULATION OF QUANTITIES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.: LQ-2

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

LANDSCAPE TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINT'D SIZE	SPACING	REMARKS	UNIT	SHEET NUMBER											
										LD-13		LD-14		LD-15		LD-16		LD-17		LD-18	
										PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
580-1-2	Large	CC	Cercis canadensis	Redbud Tree	30 GAL.; SINGLE TRUNK		As Shown	10`-12` HT	EA	6						5		10			
580-1-2	Large	CF	Cornus florida	Dogwood	30 GAL.; SINGLE TRUNK		As Shown	10`-12` HT	EA	24		4				10		5			
580-1-2	Large	LI2	Lagerstroemia indica 'Muskogee'	Muskogee Crape Myrtle	30 GAL.; Multi-trunk		As Shown	10`-12` HT. X 5`-6` SPRD.	EA	7		10		10		5		10		5	
580-1-2	Large	LI	Lagerstroemia indica `Natchez`	Natchez White Crape Myrtle	30 gal; Multi-trunk		As Shown	10`-12` x 6`-8`	EA												
580-1-2	Large	PE	Pinus elliotti	Slash Pine	45 GAL./ RPG., 2.5" cal.		As Shown	10`-12` HT. X 5`-6` SPRD.		9		2				12		15			
580-1-2	Large	QV	Quercus virginiana	Southern Live Oak	15 gal		As Shown		EA	4										3	
580-1-2	Large	SS	Sabal palmetto	Cabbage Palmetto	15 gal		As Shown		EA												
580-1-2	Large	TD	Taxodium distichum	Bald Cypress	15 gal		As Shown		EA	21		4				11		16			
580-1-2	Small	IVS	Ilex vomitoria `Stokes Dwarf`	Dwarf Yaupon	3 GAL.		36" o.c.	14" HT. X 14" SPRD., FULL; 3/Pot	EA												
580-1-2	Small	MC	Muhlenbergia cappillaris	Muhly Grass	3 GAL.		36" o.c.	36" HT.	EA			48		146							
580-1-2	Small	VA	Vaccinium myrsintes	Shiny Blueberry	3 GAL.		36" o.c.	10" - 12" O.A.	EA			250		265		205		176			
580-1-2	Small	ZP	Zamia pumila	Coontie	5 gal		36" o.c.	24"-30" sprd.	EA											64	
580-1-2	Small	SB	Spartina bakeri	Sand Cordgrass	3 GAL.		36" o.c.	24" Ht, Full	EA											46	
580-1-2	Small	DOB	Dyschoriste oblongifolia	Twinflower	1 GAL.		12" o.c.	8"-10" O.A.	SF											1,001	
580-1-2	Small	HSD	Hemerocallis 'Stella D'Oro'	Yellow Daylily	1 GAL.		18" o.c.		SF	65											
580-1-2	Small	SOD	Paspalum notatum	Bahia Grass	SOD		sod		SF	57,582		11,307		2,686		3,644		2,117		49,278	

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RUTH PERRY, RLA. Lic. No. LA 1530

SCALE: AS SHOWN
DATE: 10/24/2023
DRAWN: JD
CHECKED: RH
APPROVED: RP

PROJECT NO. / DASH NO.
B190839.00

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TABULATION OF QUANTITIES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
LQ-3

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

LANDSCAPE TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY SIZE	SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAXIMUM MAINT'D SIZE	SPACING	REMARKS	UNIT	SHEET NUMBER			
										LD-19		GRAND TOTAL	
										PLAN	FINAL	PLAN	FINAL
580-1-2	Large	CC	Cercis canadensis	Redbud Tree	30 GAL.; SINGLE TRUNK		As Shown	10`-12` HT	EA			59	
580-1-2	Large	CF	Cornus florida	Dogwood	30 GAL.; SINGLE TRUNK		As Shown	10`-12` HT	EA	7		74	
580-1-2	Large	LI2	Lagerstroemia indica 'Muskogee'	Muskogee Crape Myrtle	30 GAL.; Multi-trunk		As Shown	10`-12` HT. X 5`-6` SPRD.	EA			101	
580-1-2	Large	LI	Lagerstroemia indica `Natchez`	Natchez White Crape Myrtle	30 gal; Multi-trunk		As Shown	10`-12` x 6`-8`	EA			29	
580-1-2	Large	PE	Pinus elliotti	Slash Pine	45 GAL./ RPG., 2.5" cal.		As Shown	10`-12` HT. X 5`-6` SPRD.		10		74	
580-1-2	Large	QV	Quercus virginiana	Southern Live Oak	15 gal		As Shown		EA			120	
580-1-2	Large	SS	Sabal palmetto	Cabbage Palmetto	15 gal		As Shown		EA			7	
580-1-2	Large	TD	Taxodium distichum	Bald Cypress	15 gal		As Shown		EA	4		83	
580-1-2	Small	IVS	Ilex vomitoria `Stokes Dwarf`	Dwarf Yaupon	3 GAL.		36" o.c.	14" HT. X 14" SPRD., FULL; 3/Pot	EA			171	
580-1-2	Small	MC	Muhlenbergia cappillaris	Muhly Grass	3 GAL.		36" o.c.	36" HT.	EA			731	
580-1-2	Small	VA	Vaccinium myrsintes	Shiny Blueberry	3 GAL.		36" o.c.	10" - 12" O.A.	EA			896	
580-1-2	Small	ZP	Zamia pumila	Coontie	5 gal		36" o.c.	24"-30" sprd.	EA			486	
580-1-2	Small	SB	Spartina bakeri	Sand Cordgrass	3 GAL.		36" o.c.	24" Ht, Full	EA			92	
580-1-2	Small	DOB	Dyschoriste oblongifolia	Twinflower	1 GAL.		12" o.c.	8"-10" O.A.	SF			3,357	
580-1-2	Small	HSD	Hemerocallis 'Stella D'Oro'	Yellow Daylily	1 GAL.		18" o.c.		SF			7,676	
580-1-2	Small	SOD	Paspalum notatum	Bahia Grass	SOD		sod		SF			544,347	

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RUTH PERRY, RLA. Lic. No. LA 1530

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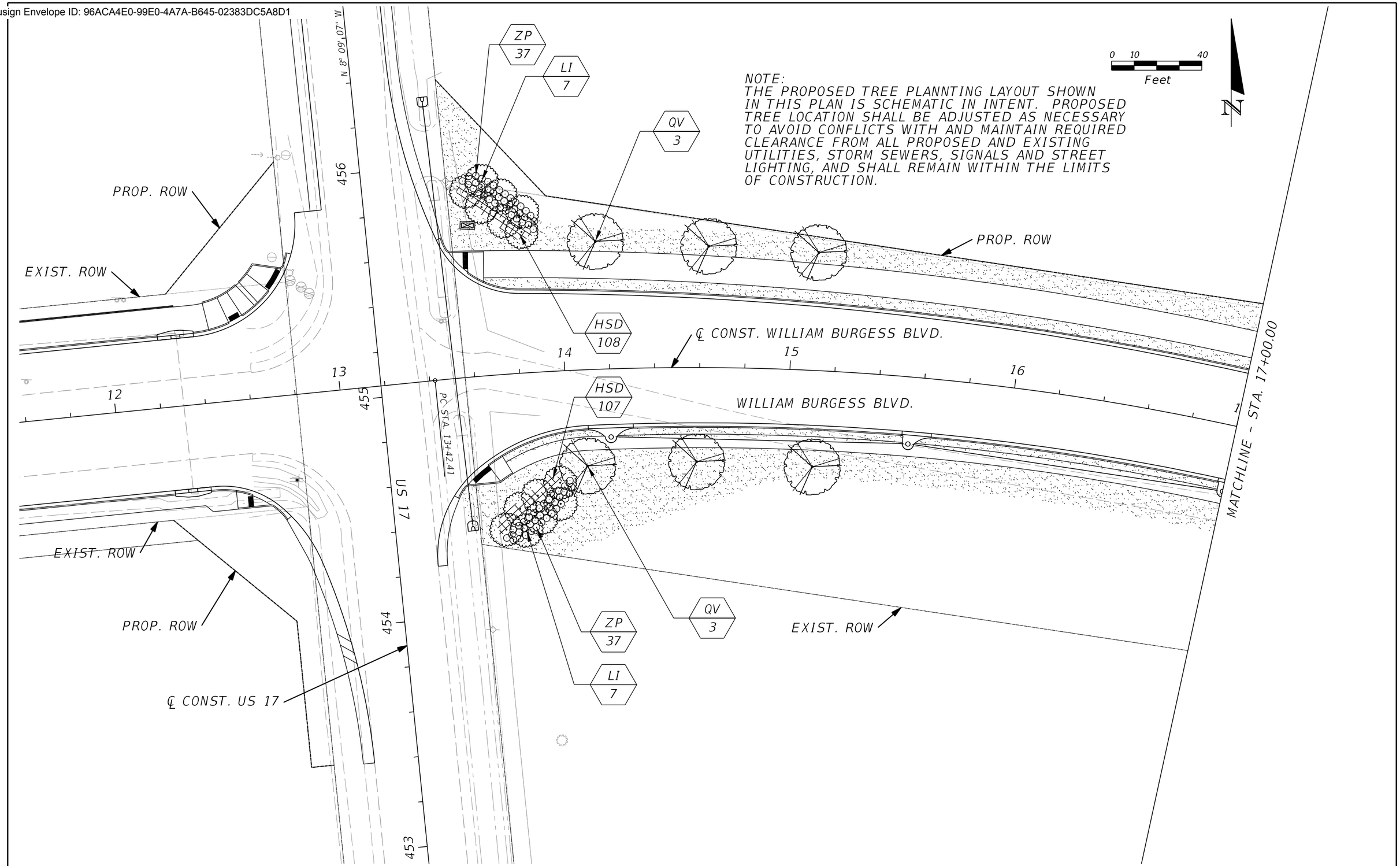
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TABULATION OF QUANTITIES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.: LQ-4

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RUTH PERRY, RLA. Lic. No. LA 1530

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RH
APPROVED:	RP

PROJECT NO. / DASH NO.
B190839.00

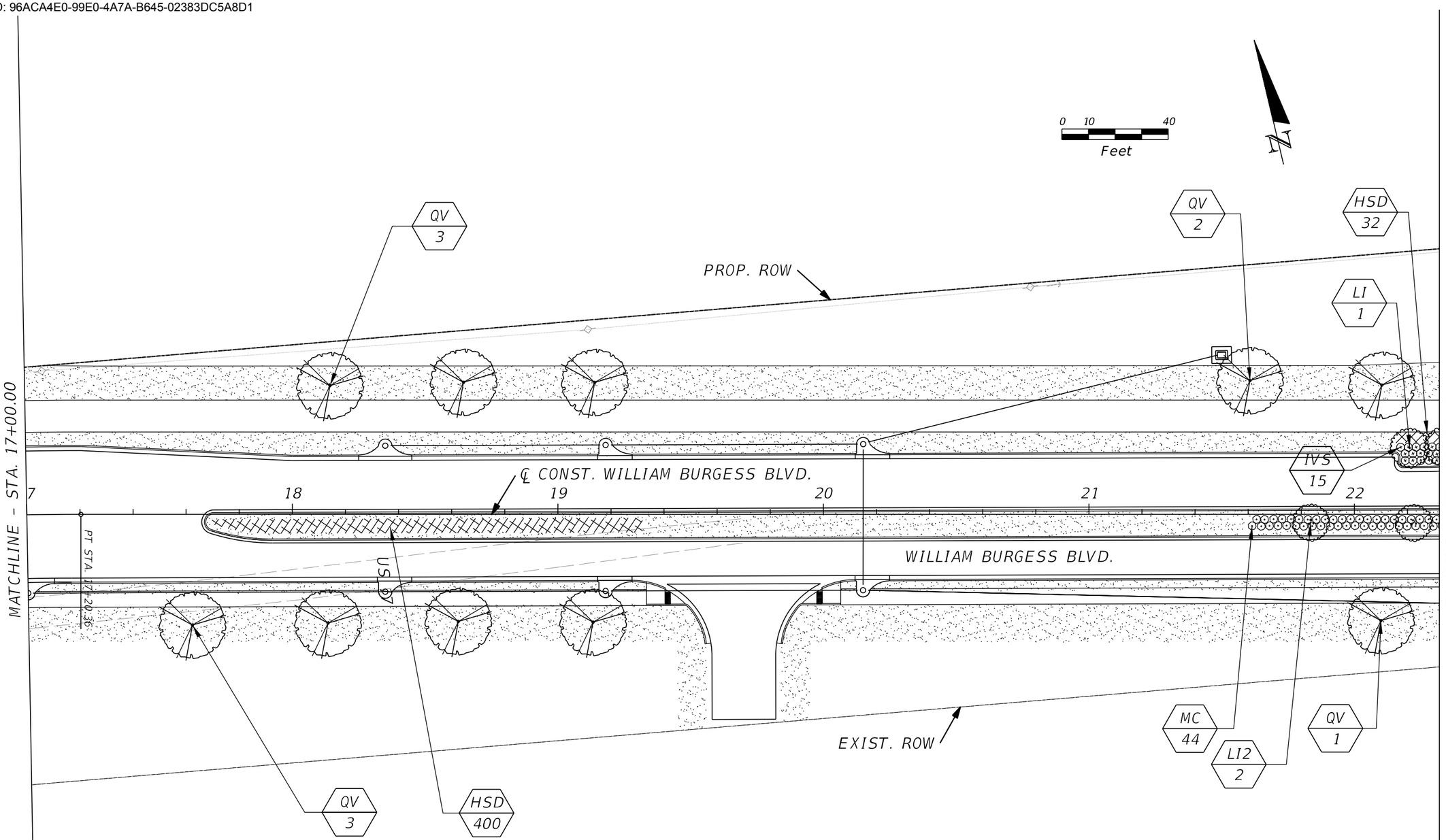
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LANDSCAPE PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
LD-1

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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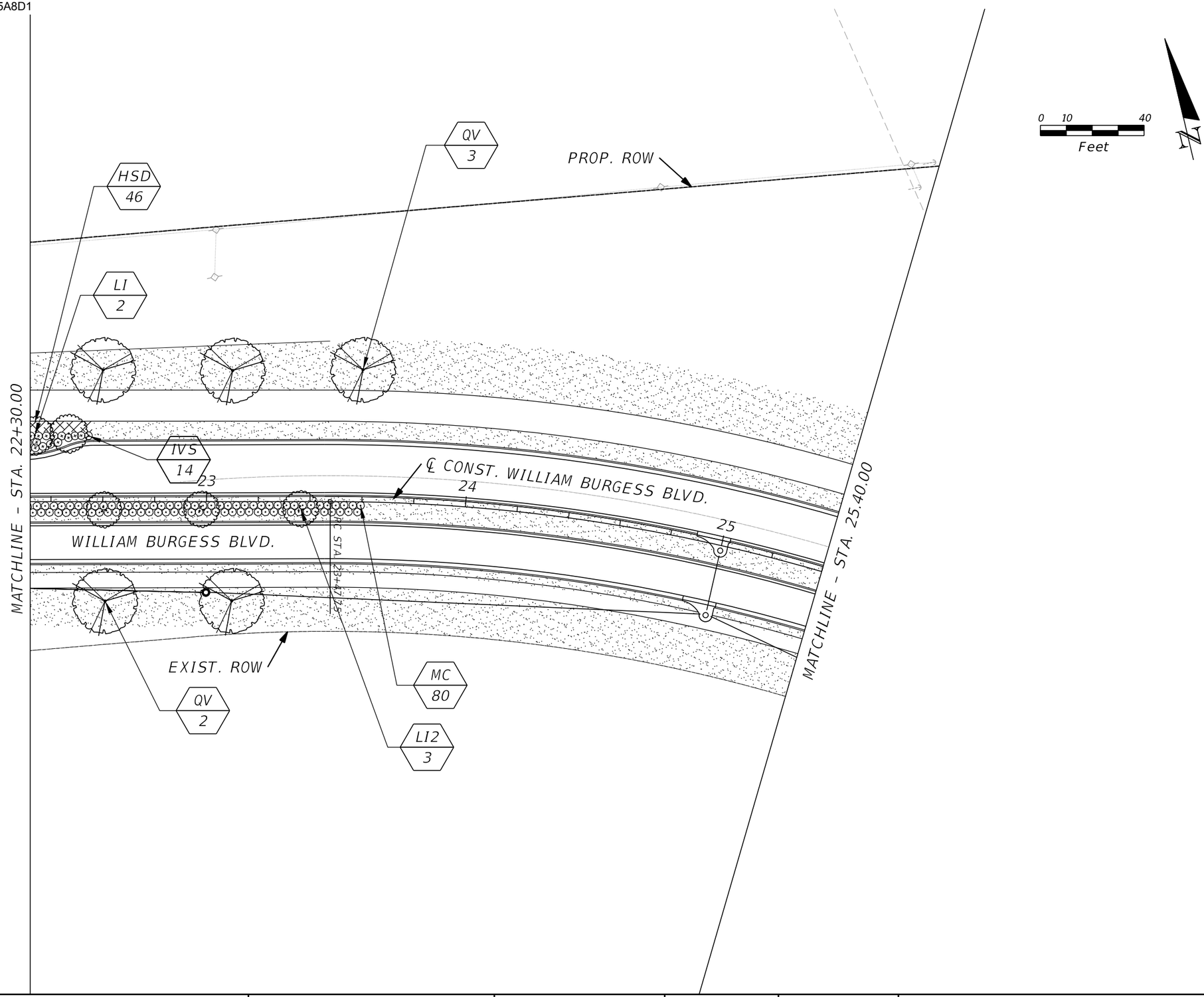
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LANDSCAPE PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
LD-2

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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RUTH PERRY, RLA. Lic. No. LA 1530

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RH
APPROVED:	RP

PROJECT NO. / DASH NO.
B190839.00

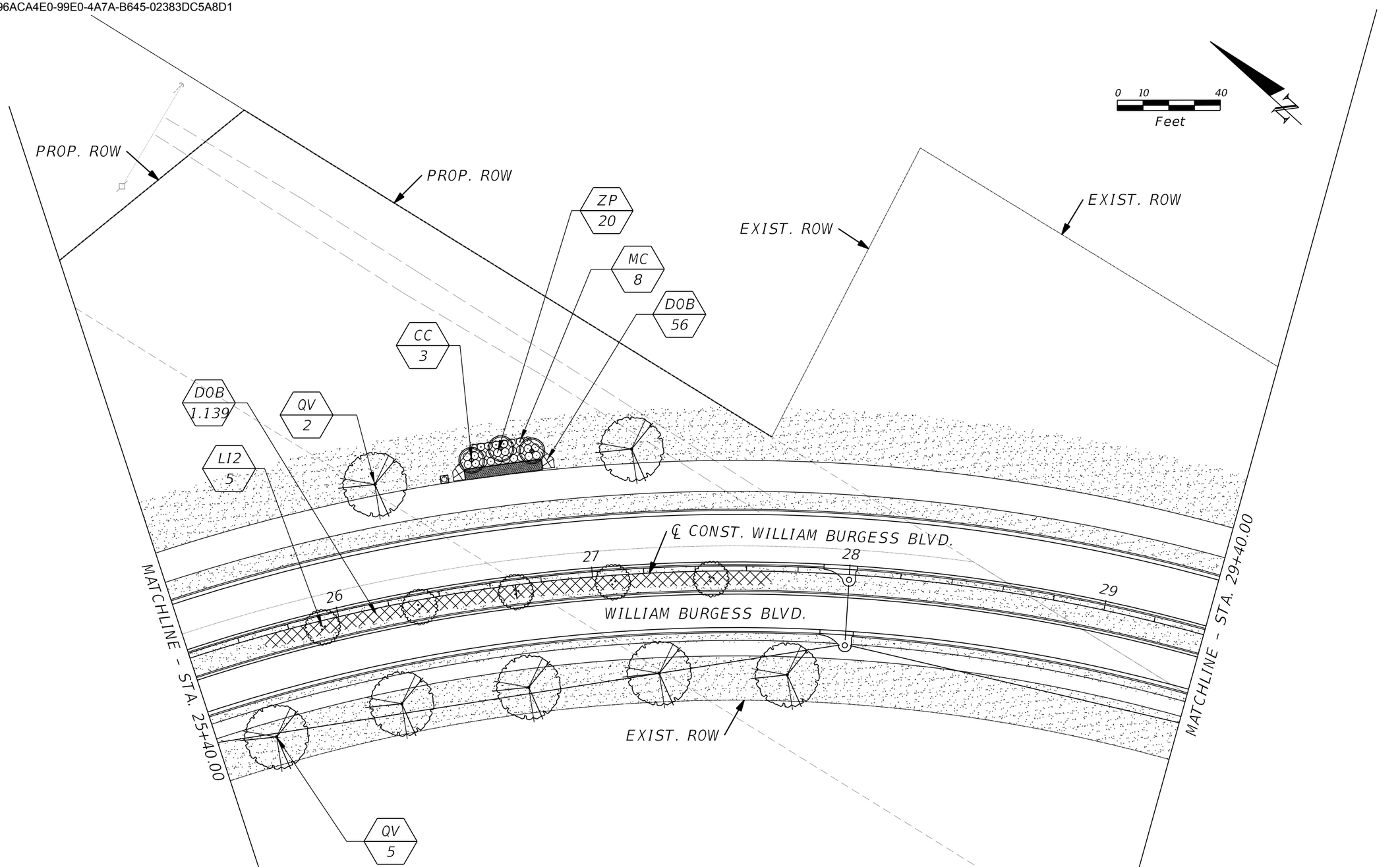
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LANDSCAPE PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
LD-3

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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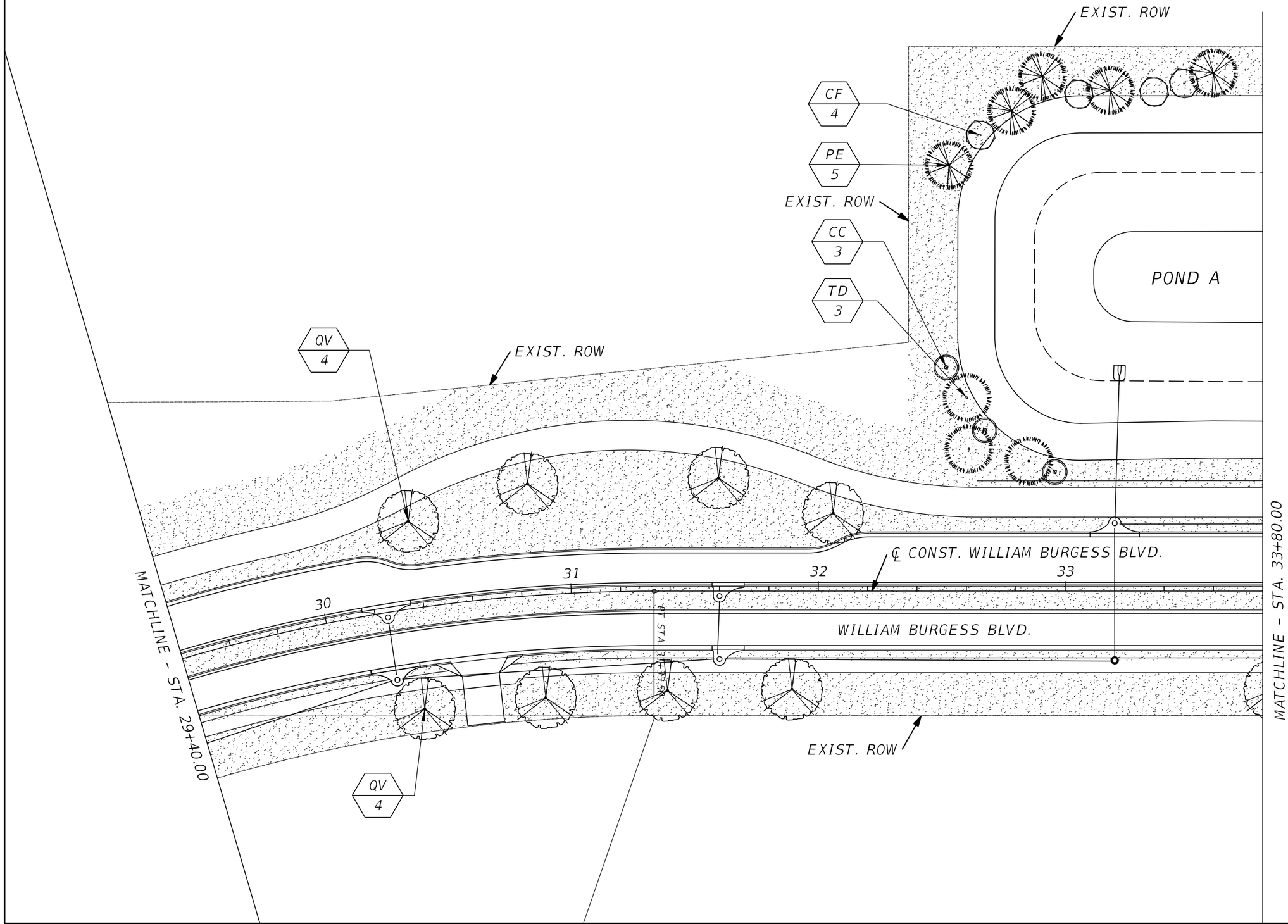
LANDSCAPE PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
LD-4

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B190839.00

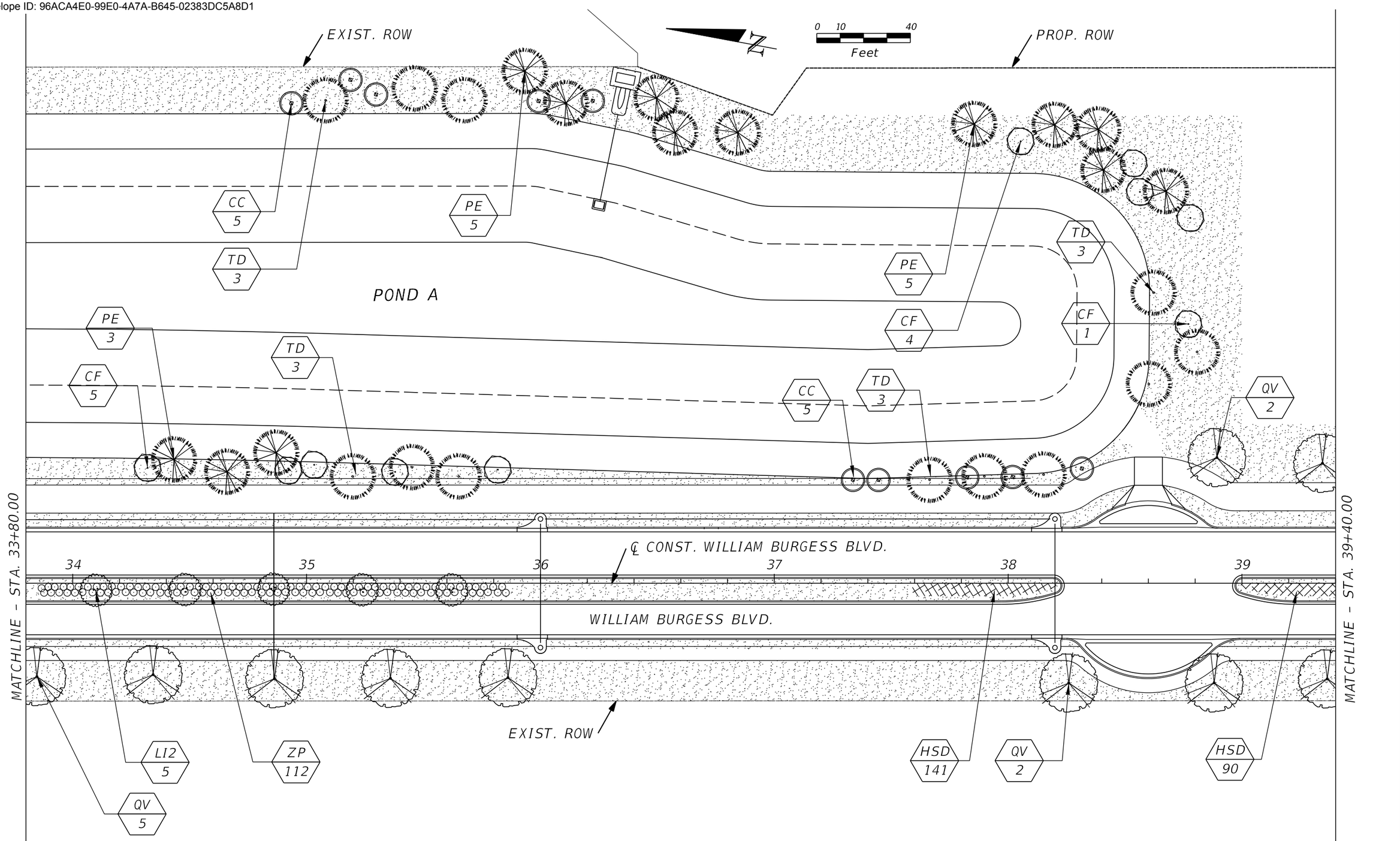
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LANDSCAPE PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
LD-5

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PROJECT NO. / DASH NO.
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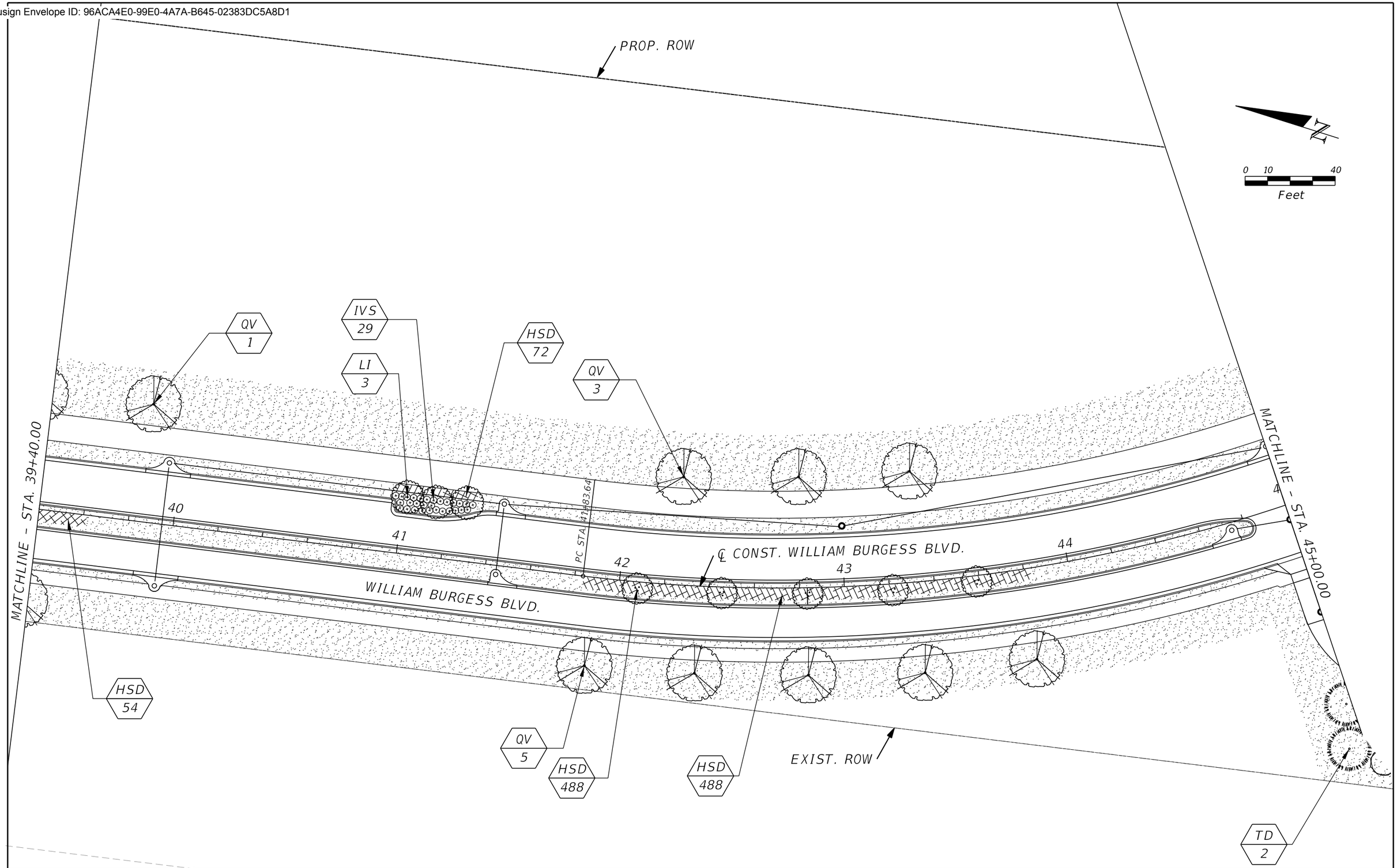
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LANDSCAPE PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
LD-6

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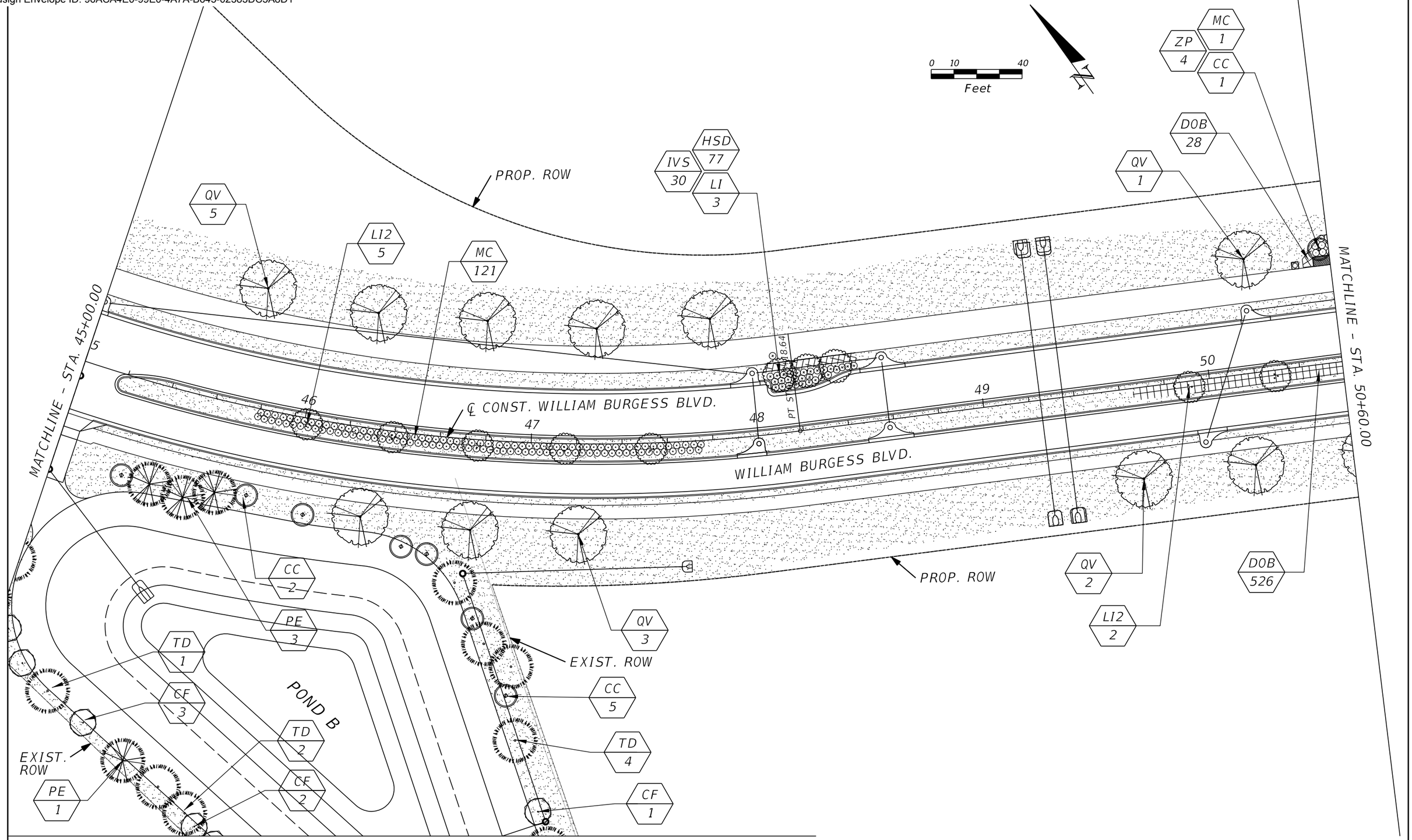
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LANDSCAPE PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
LD-7

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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PROJECT NO. / DASH NO.: B190839.00

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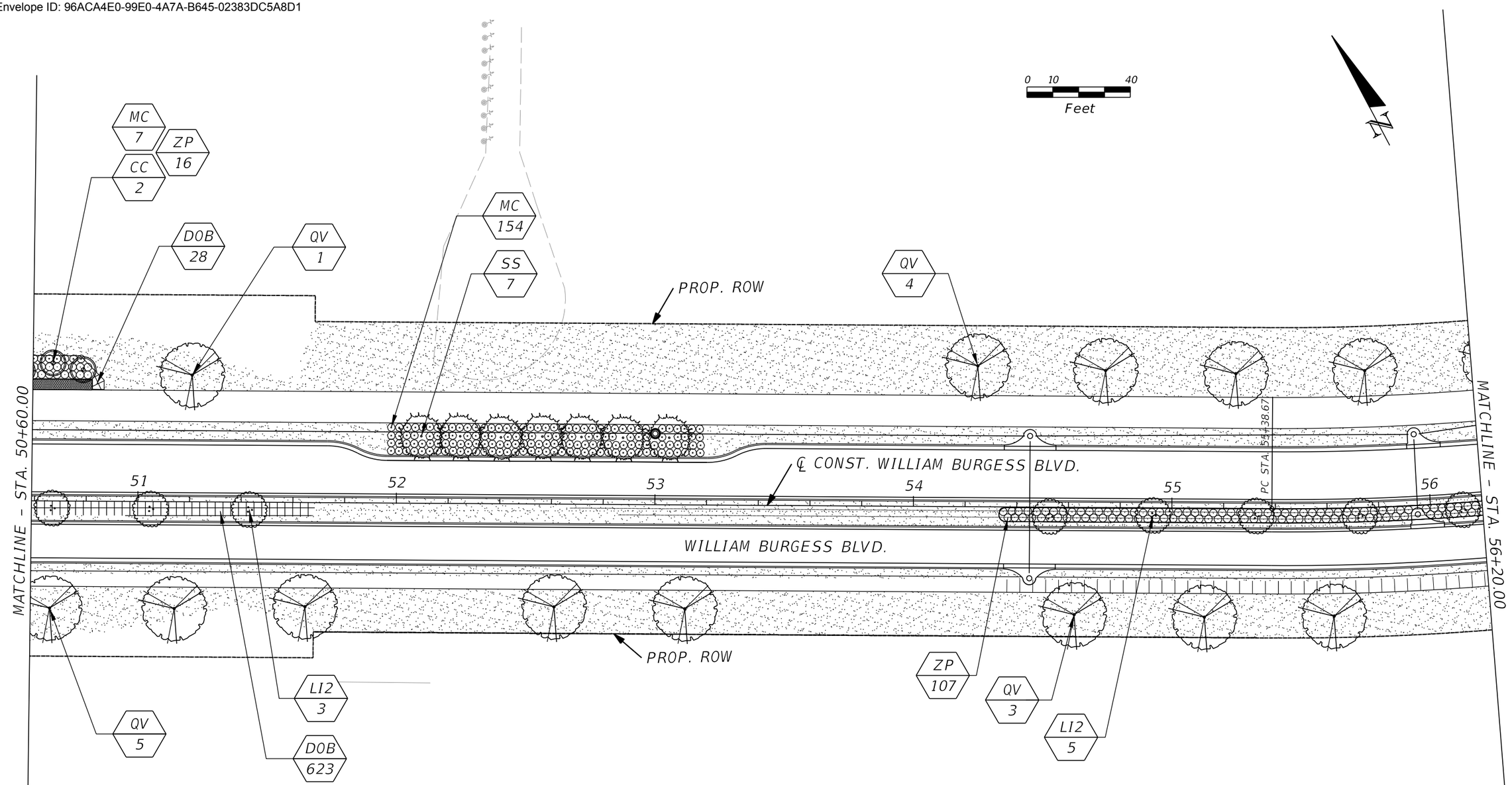
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. LD-8

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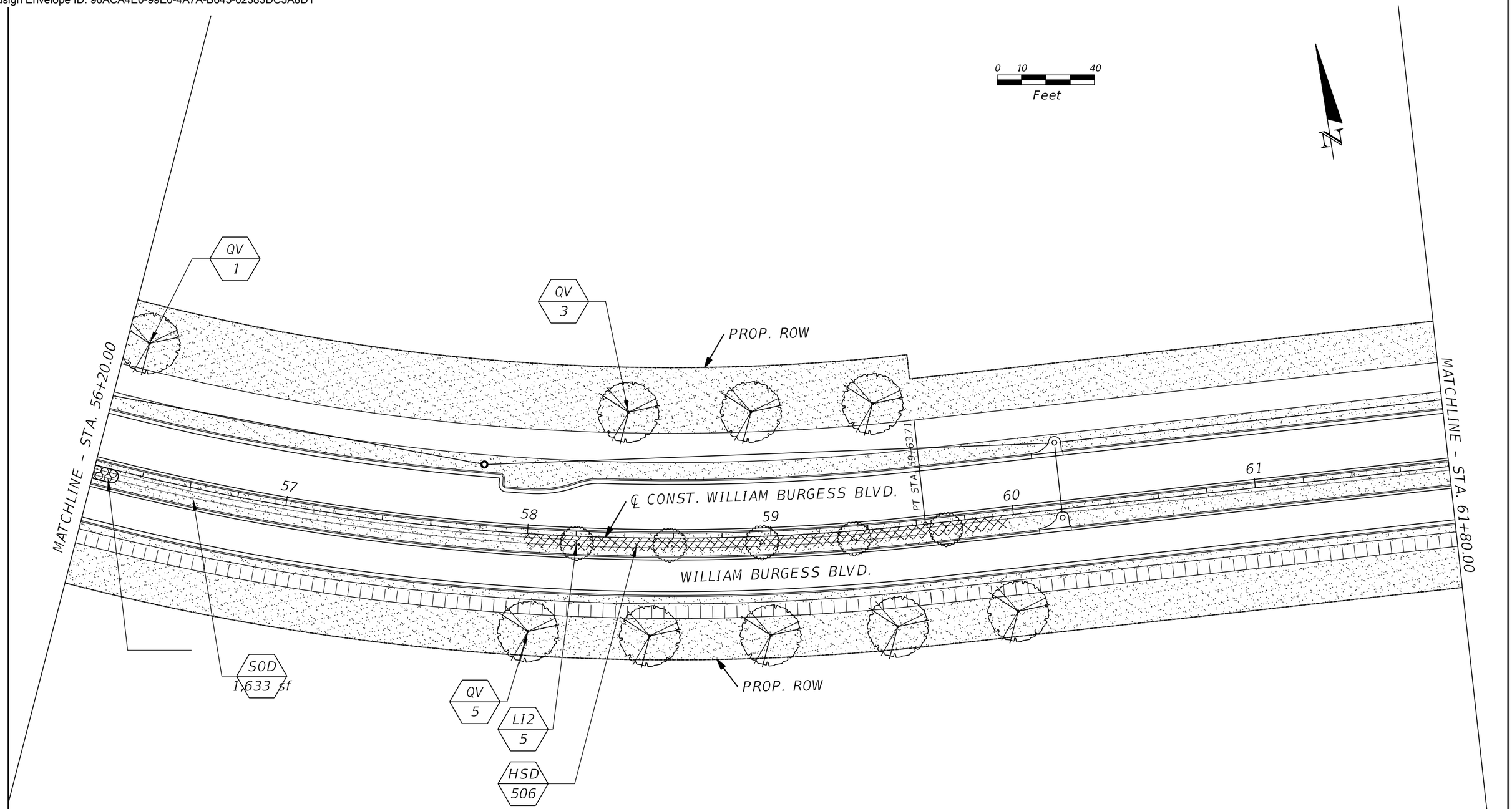
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
LD-9

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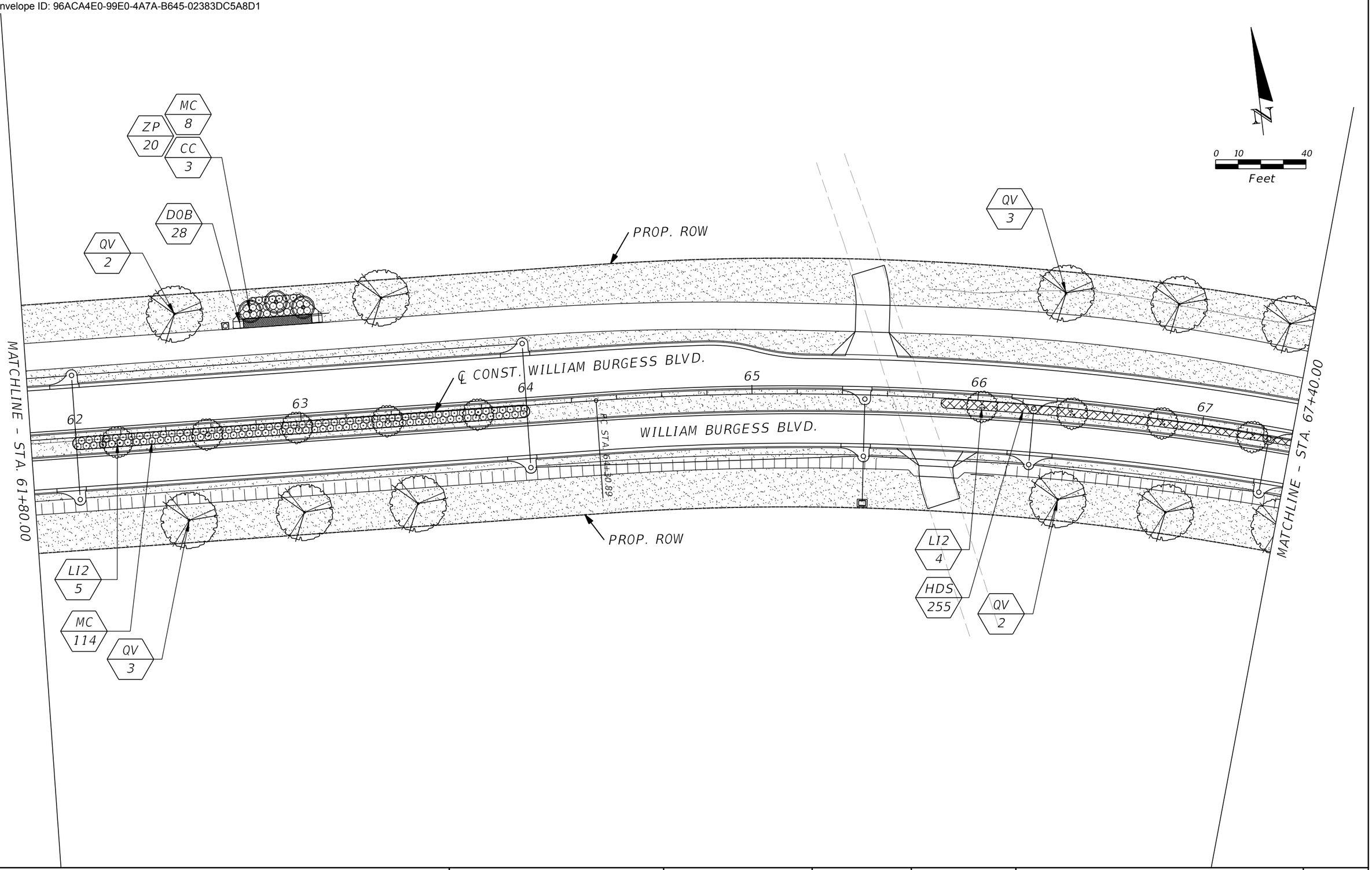
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.: LD-10

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LANDSCAPE PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
LD-11

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MATCHLINE - SHEET IR-19

PE 4

CF 3

TD 3

POND C

POND C

CF 1

CC 3

CC 6

QV 4

PROP. ROW

HSD 111

LI1 1

MATCHLINE - STA. 72+00.00

MATCHLINE - STA. 67+40.00

℄ CONST. WILLIAM BURGESS BLVD.

68

69

70

WILLIAM BURGESS BLVD.

PT STA. 71+96.48

PROP. ROW

LI2 1

HDS 42

QV 1

QV 4

HDS 231

LI 3

IVS 40

QV 3

SB 46

ZP 64

HDS 463

QV 2

PT STA. 202+17.90

204

203

PC STA. 202+99.72

THERESA CT.

℄ CONST. THERESA CT.

0 10 40

Feet

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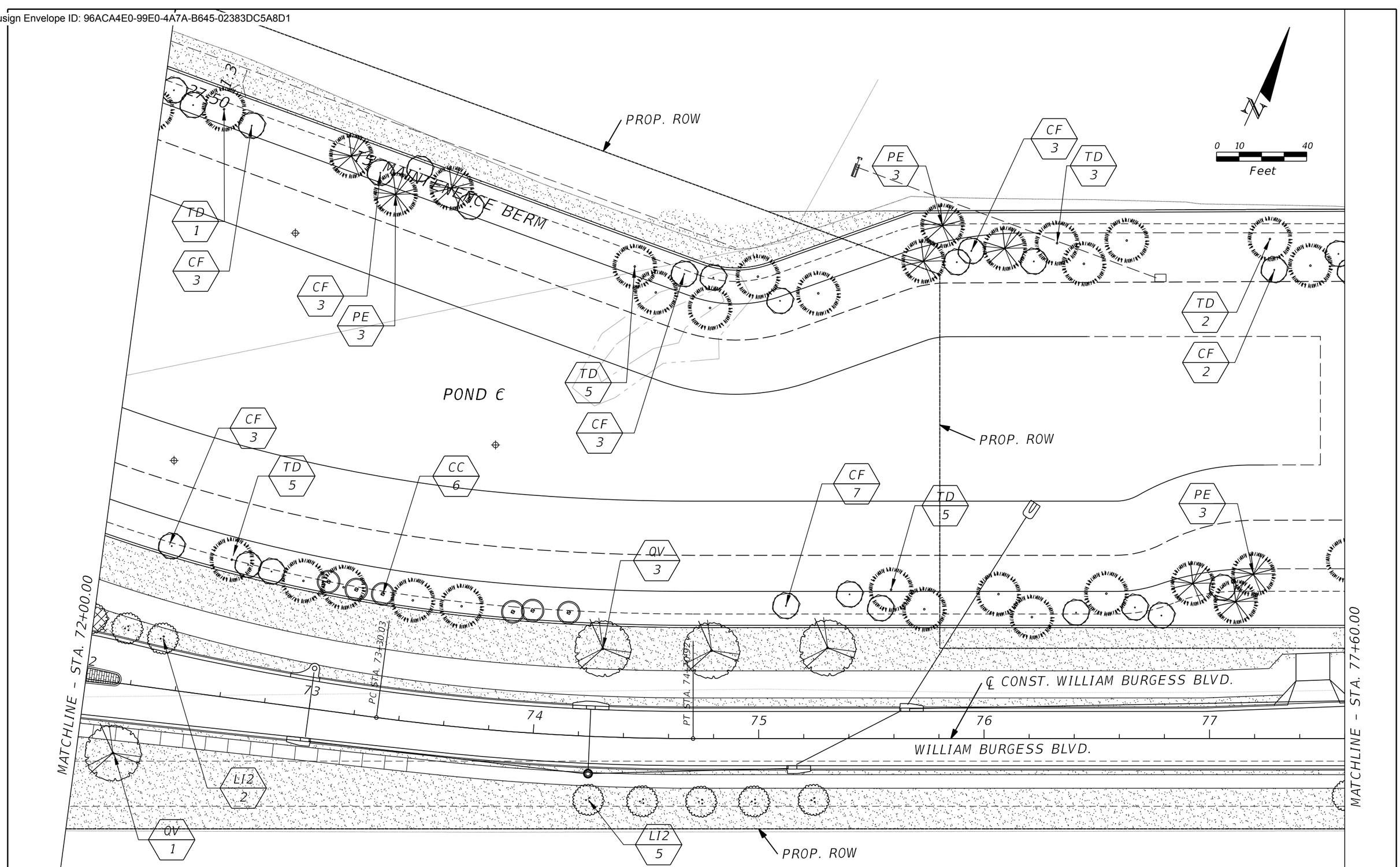
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LANDSCAPE PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
LD-12

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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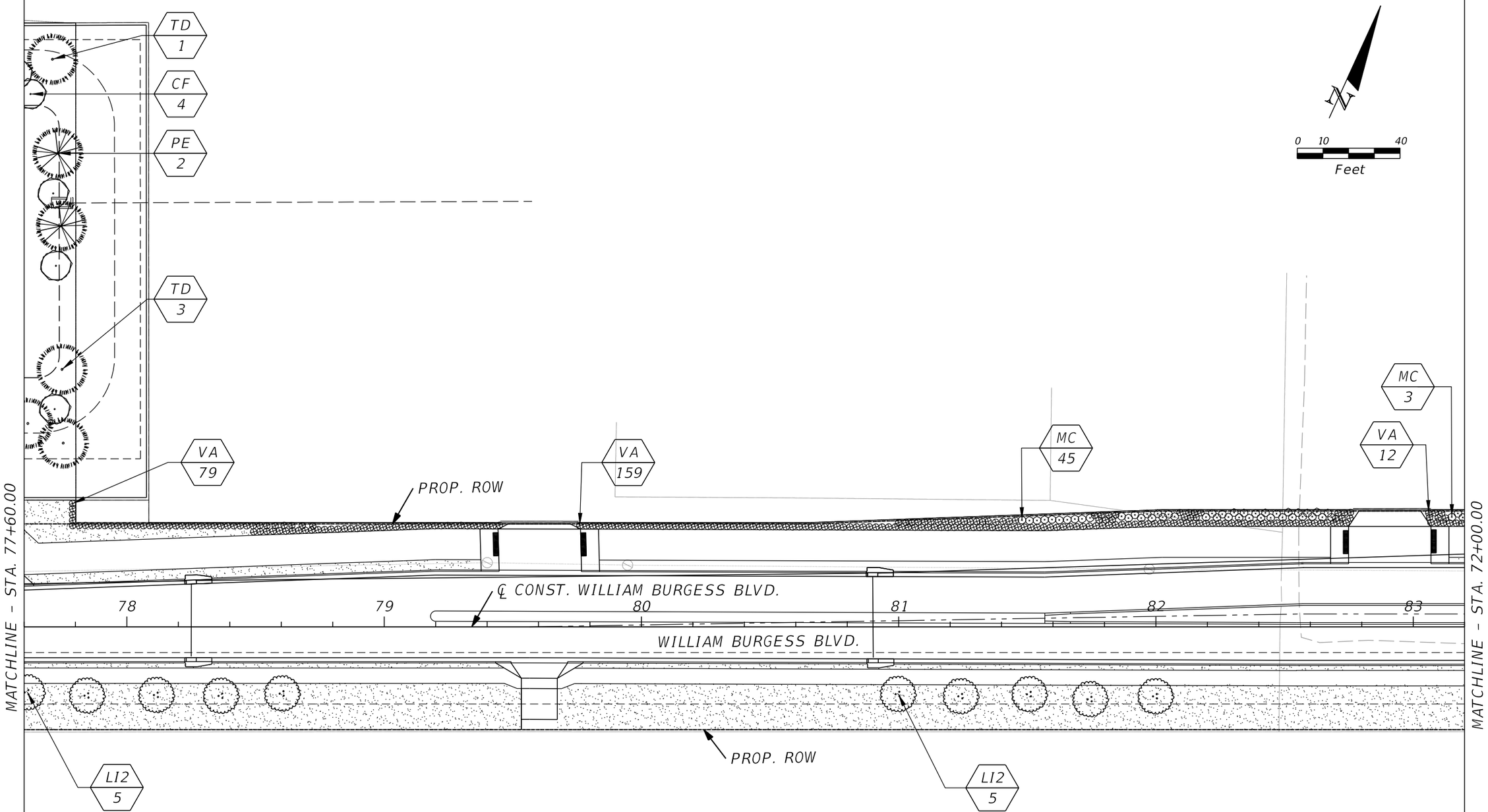
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LANDSCAPE PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
LD-13

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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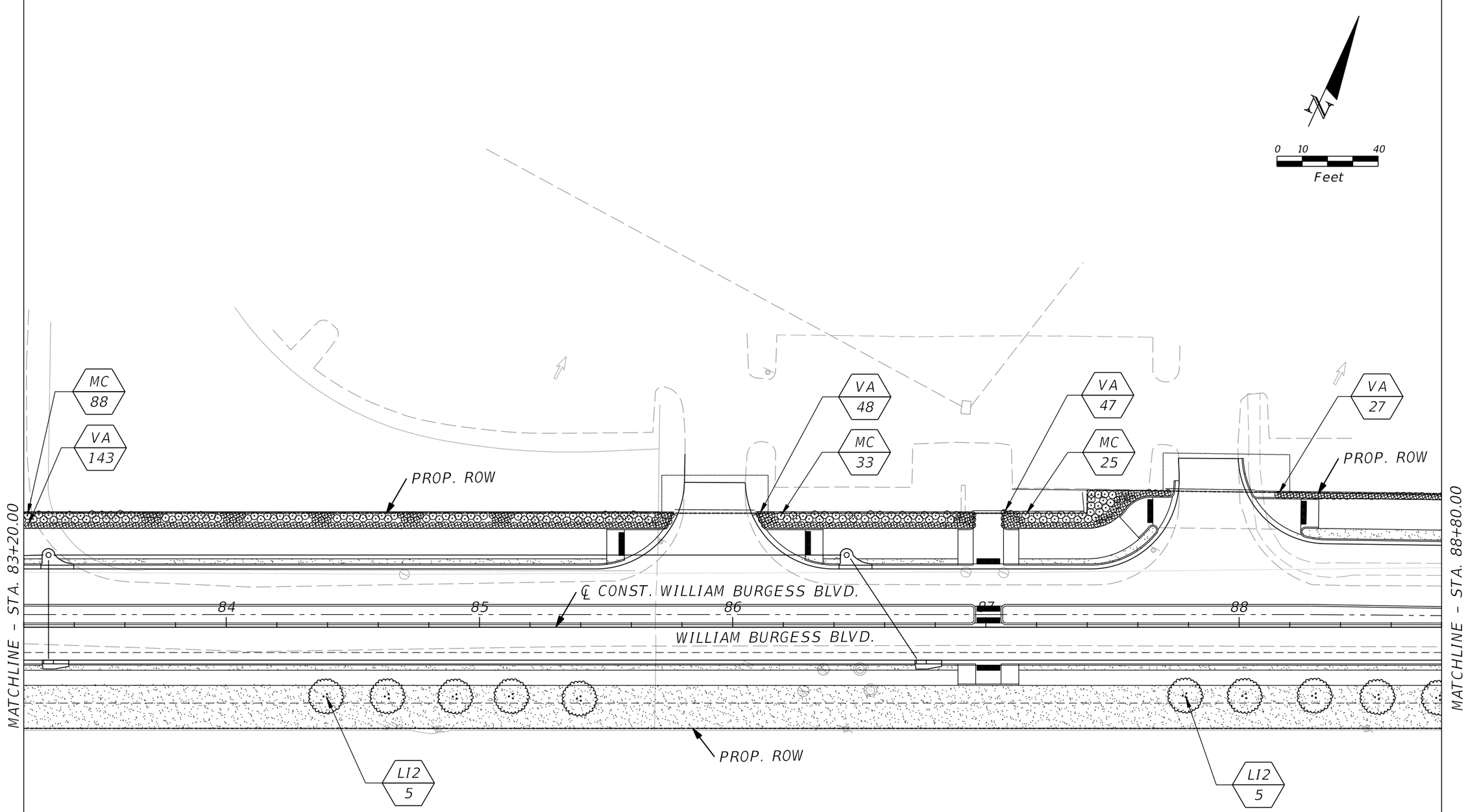
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LANDSCAPE PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
LD-14

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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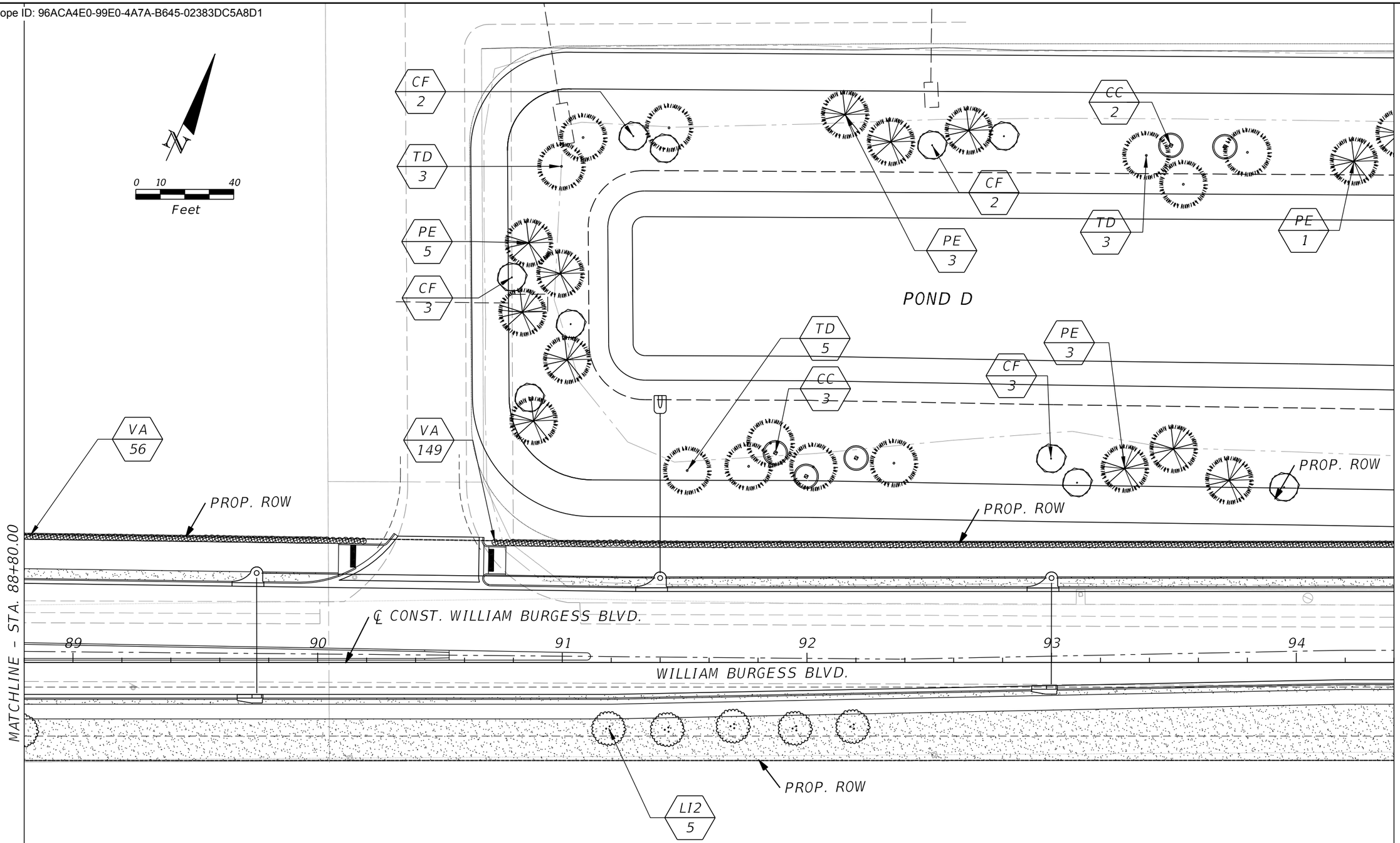
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WILLIAM BURGESS BLVD. EXTENSION
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SHEET NO.
LD-15

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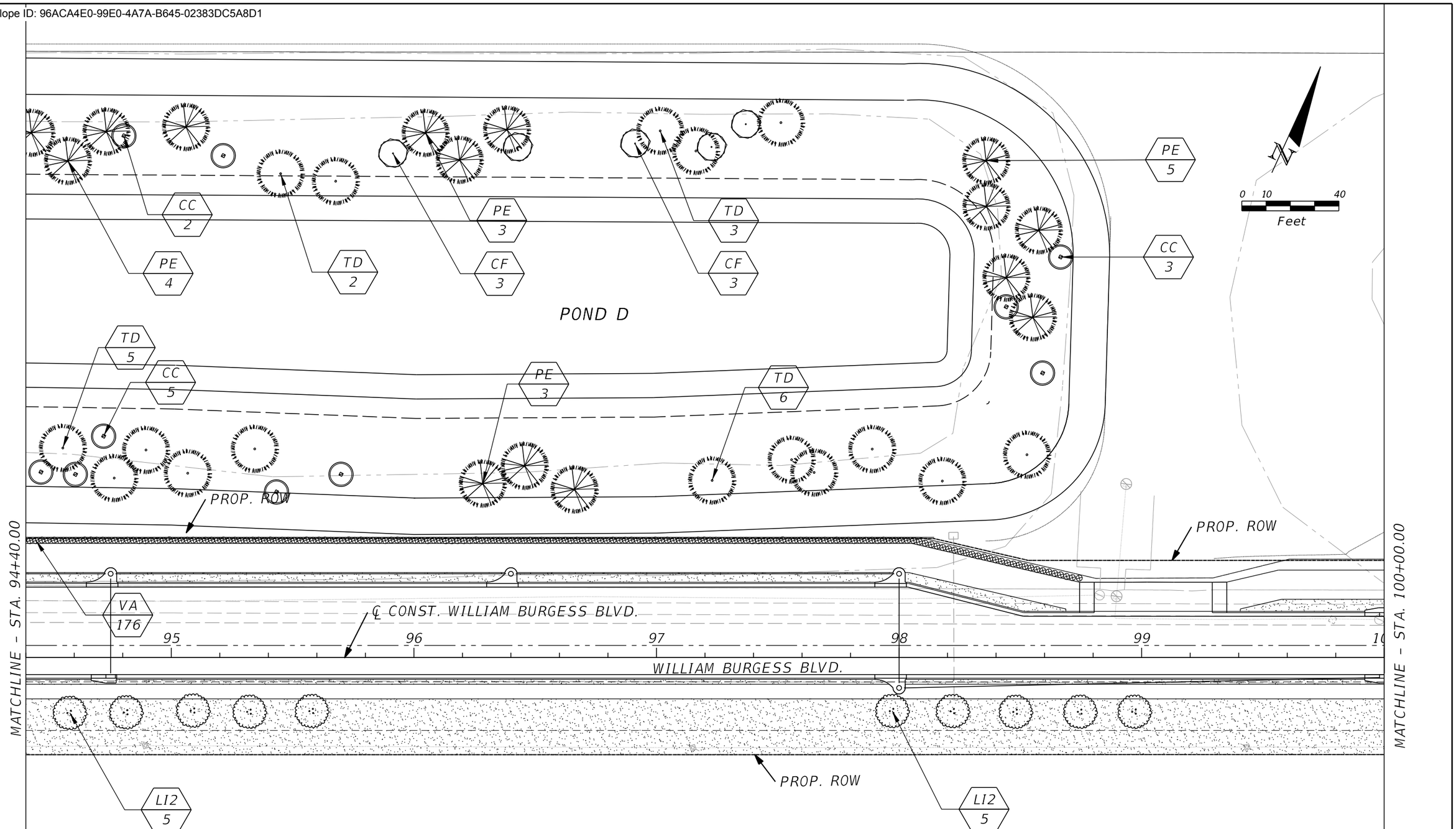
LANDSCAPE PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
LD-16

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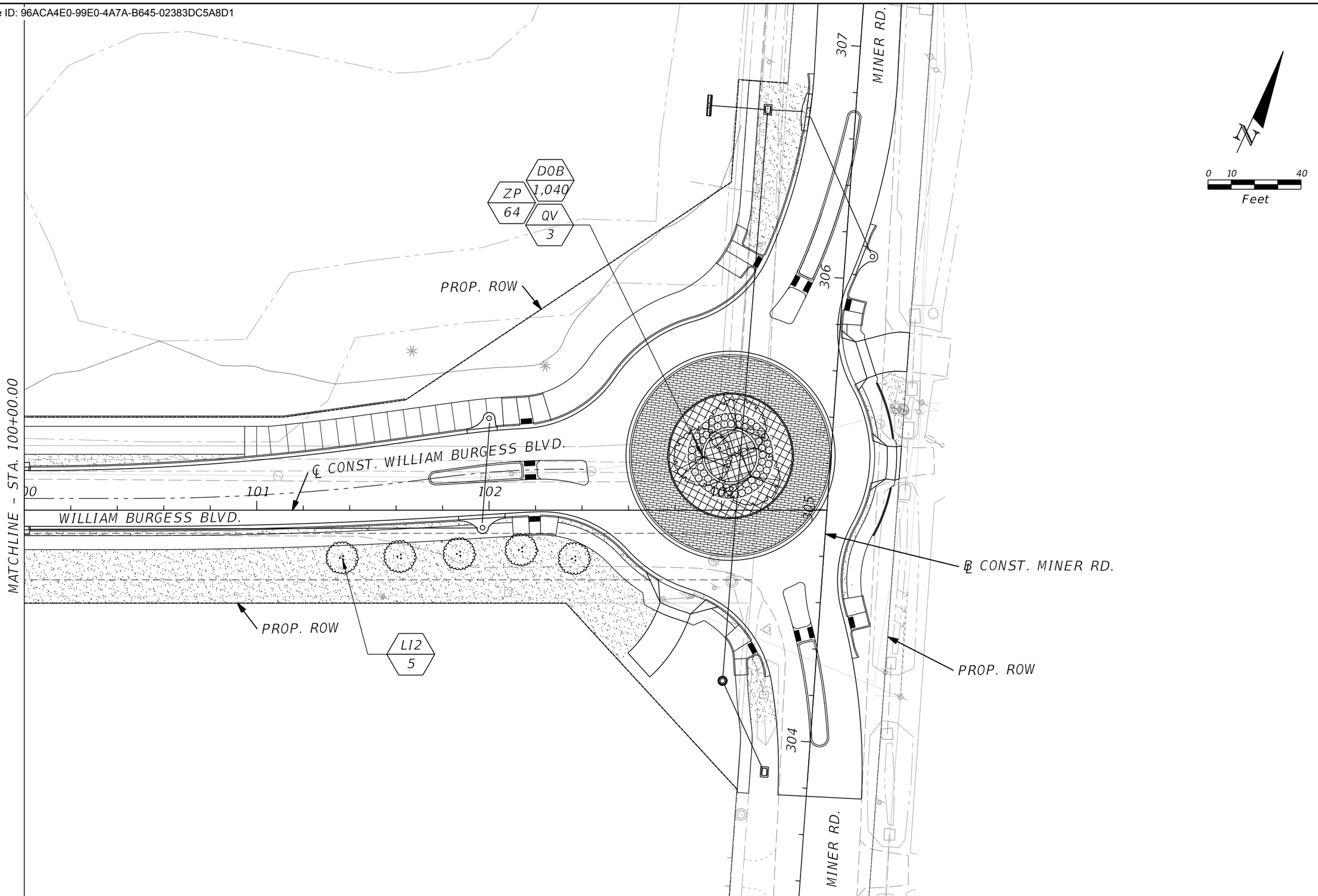
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LANDSCAPE PLANS

WILLIAM BURGESS BLVD. EXTENSION
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SHEET NO.
LD-17

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LANDSCAPE PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
LD-18

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

MATCHLINE - SHEET LD-8

POND B

TD 1

PE 5

CF 3

TD 1

CF 1

PE 2

EXIST. ROW

EXIST. ROW

N

0 10 40

Feet

CF 3

PE 3

PROP. ROW

TD 2

23.00

17.00

POND C

MATCHLINE - SHEET LD-12

N

0 10 40

Feet

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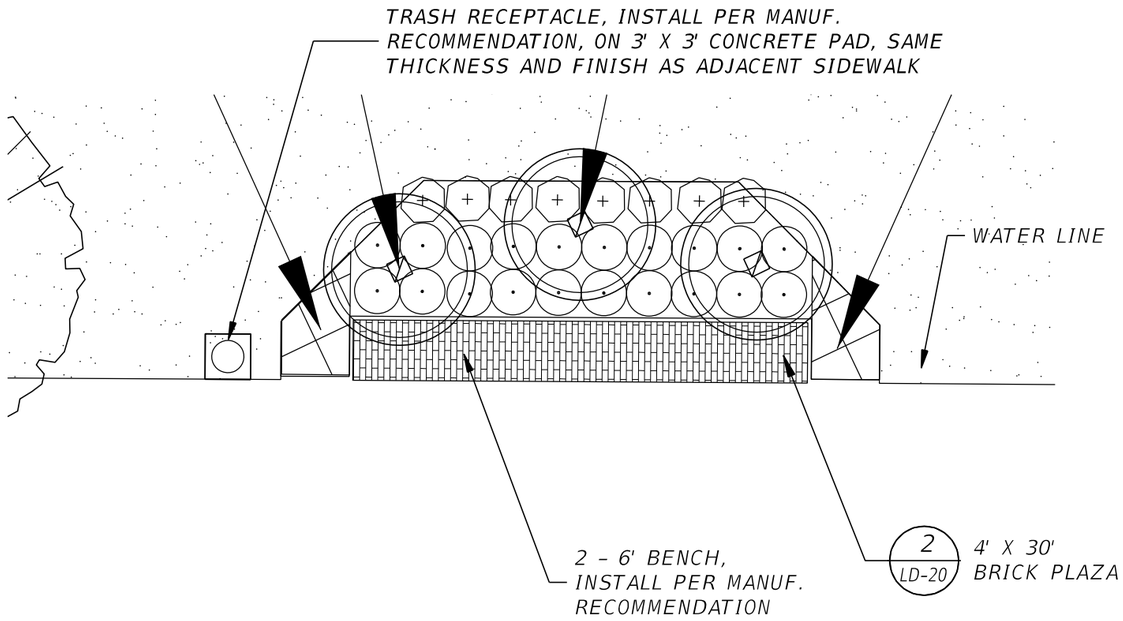
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LANDSCAPE PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. LD-19

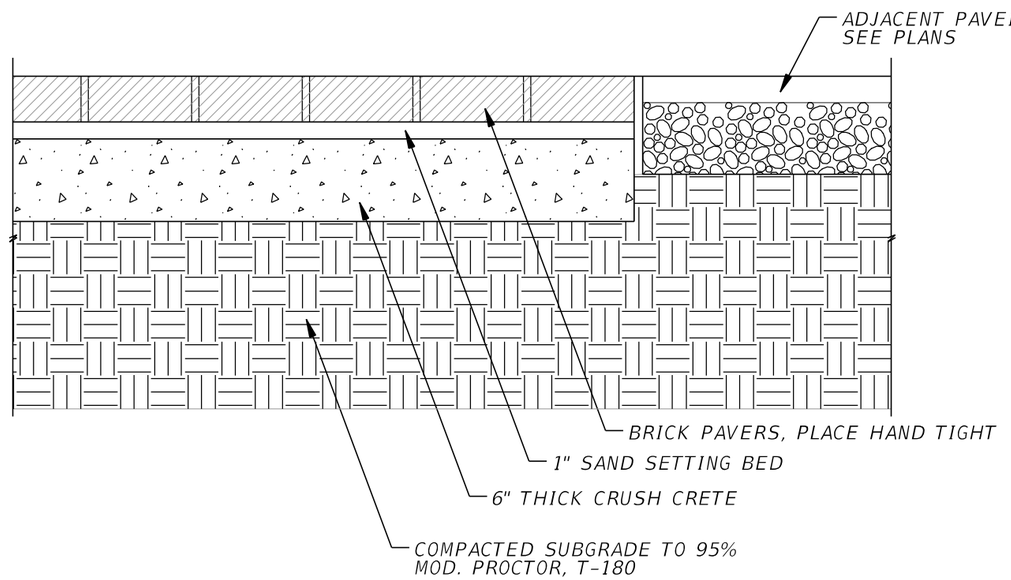
Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



SEATING PLAZA ENLARGEMENT — SCALE: 1" = 10'

FINISH SCHEDULE

SYM	ITEM	SPECIFICATIONS
A	BENCH	TYPE: DUMOR BENCH 160, 6' CAST BENCH COLOR: BLACK FINISH:POWDER COAT SOURCE: DUMOR; www.dumor.com
B	TRASH RECEPTACLE	TYPE: DUMOR STEEL RECEPTACLE 157-22, 22-GALLON COLOR: BLACK FINISH:POWDER COAT SOURCE: DUMOR; www.dumor.com
C	BRICK PAVER (2 – 3/4")	TYPE: ENGLISH EDGE COLOR: FULL RANGE, RUNNING BOND PATTERN FINISH: SOURCE: PINE HALL BRICK; www.pinehallbrick.com



2 / LD-20 PEDESTRIAN BRICK PAVERS

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APPROVED:	RP

PROJECT NO. / DASH NO.: B190839.00

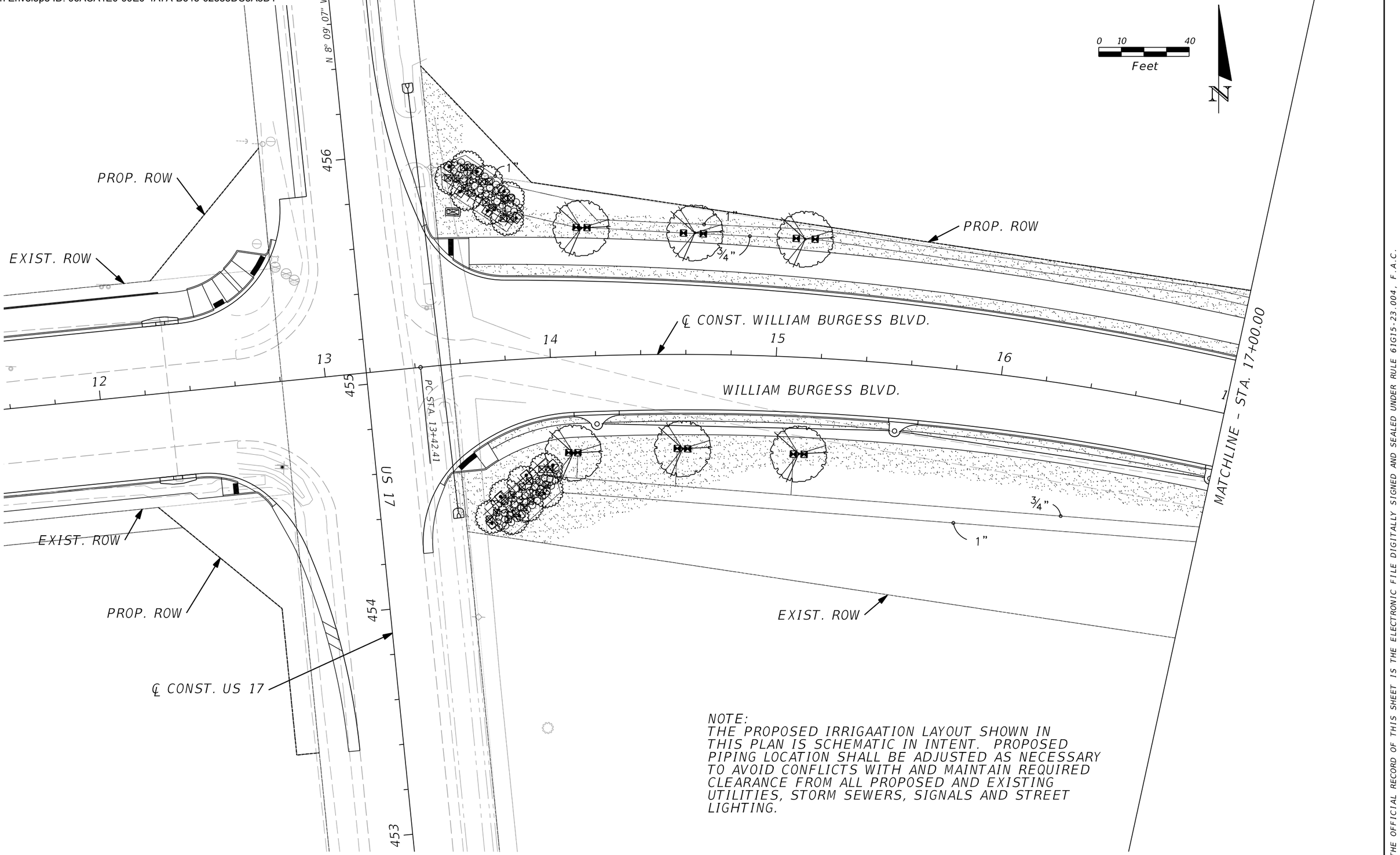
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LANDSCAPE PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.: LD-20

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



NOTE:
THE PROPOSED IRRIGAATION LAYOUT SHOWN IN THIS PLAN IS SCHEMATIC IN INTENT. PROPOSED PIPING LOCATION SHALL BE ADJUSTED AS NECESSARY TO AVOID CONFLICTS WITH AND MAINTAIN REQUIRED CLEARANCE FROM ALL PROPOSED AND EXISTING UTILITIES, STORM SEWERS, SIGNALS AND STREET LIGHTING.

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RUTH PERRY, RLA. Lic. No. LA 1530

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RH
APPROVED:	RP

PROJECT NO. / DASH NO.
B190839.00

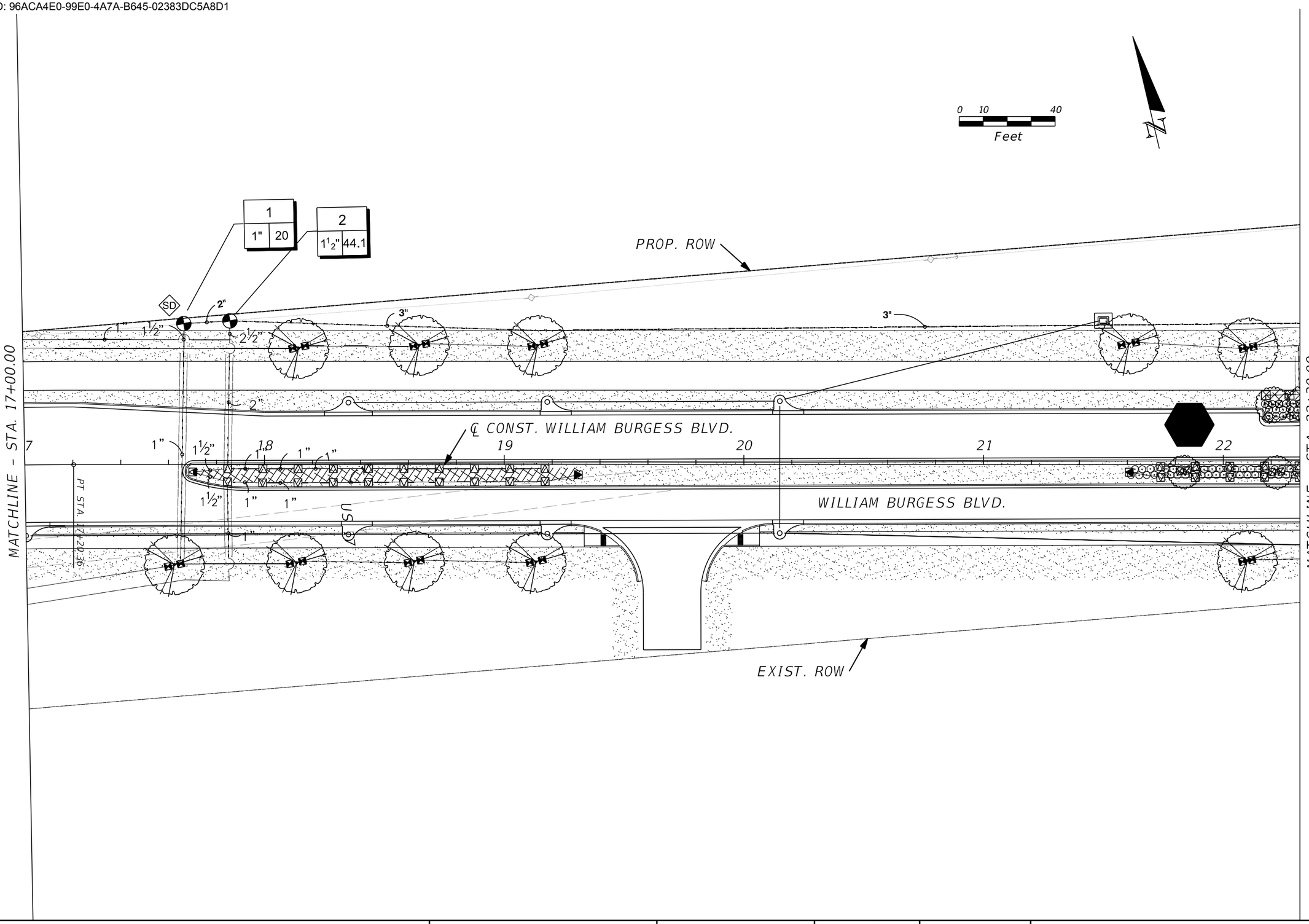
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IRRIGATION PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
IR-1

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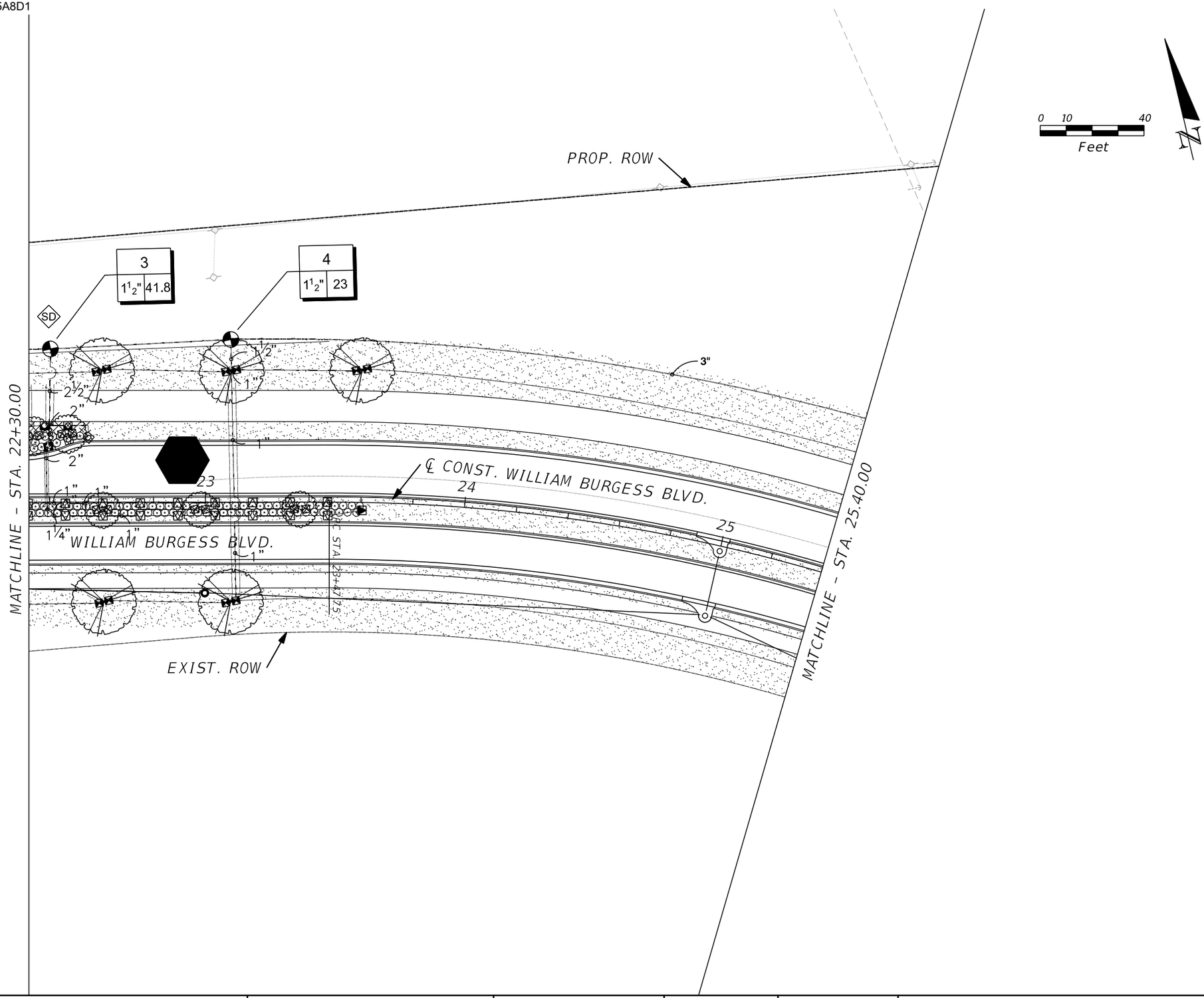
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IRRIGATION PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
IR-2

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DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RH
APPROVED:	RP

PROJECT NO. / DASH NO.
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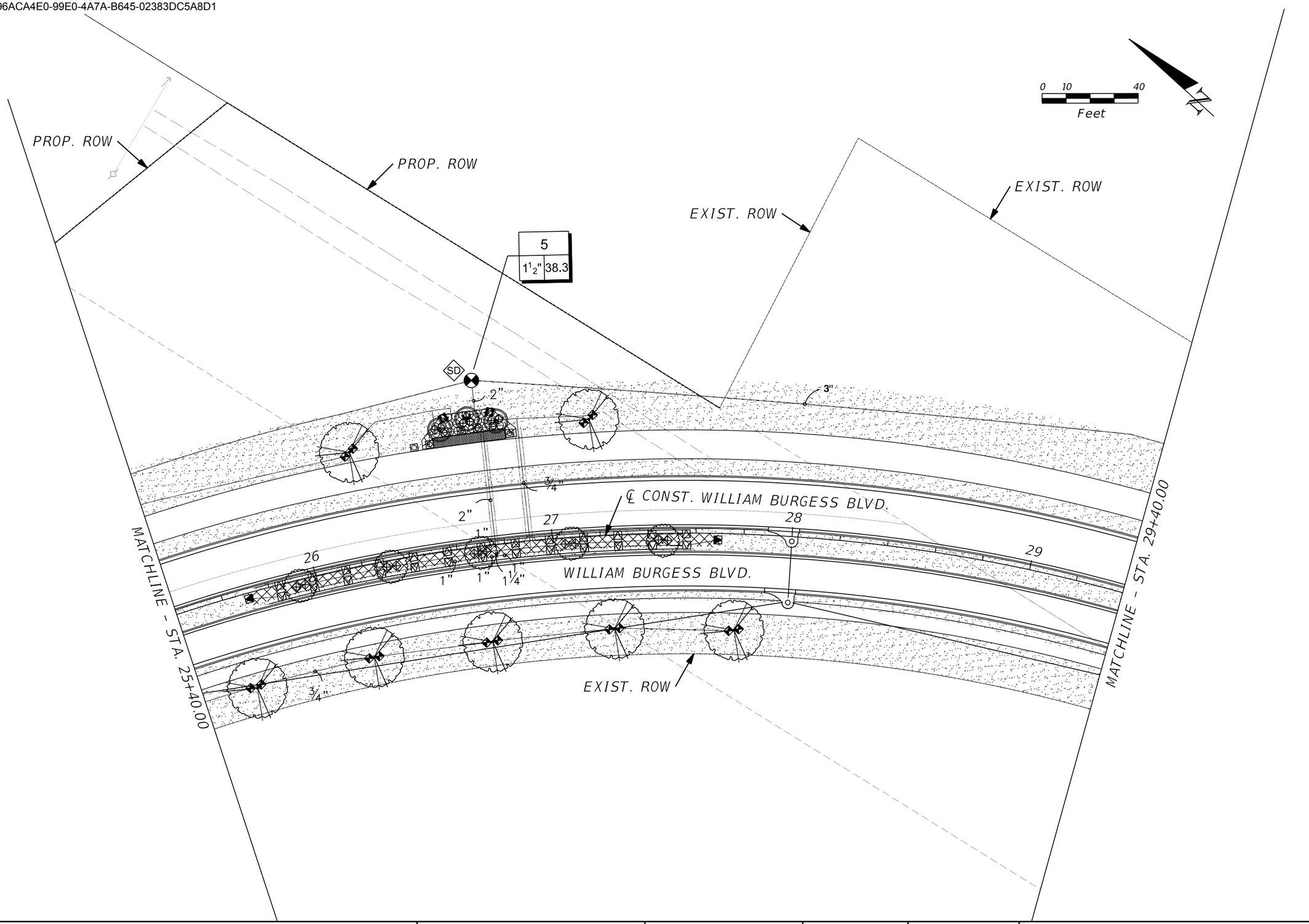
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IRRIGATION PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
IR-3

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APPROVED:	RP

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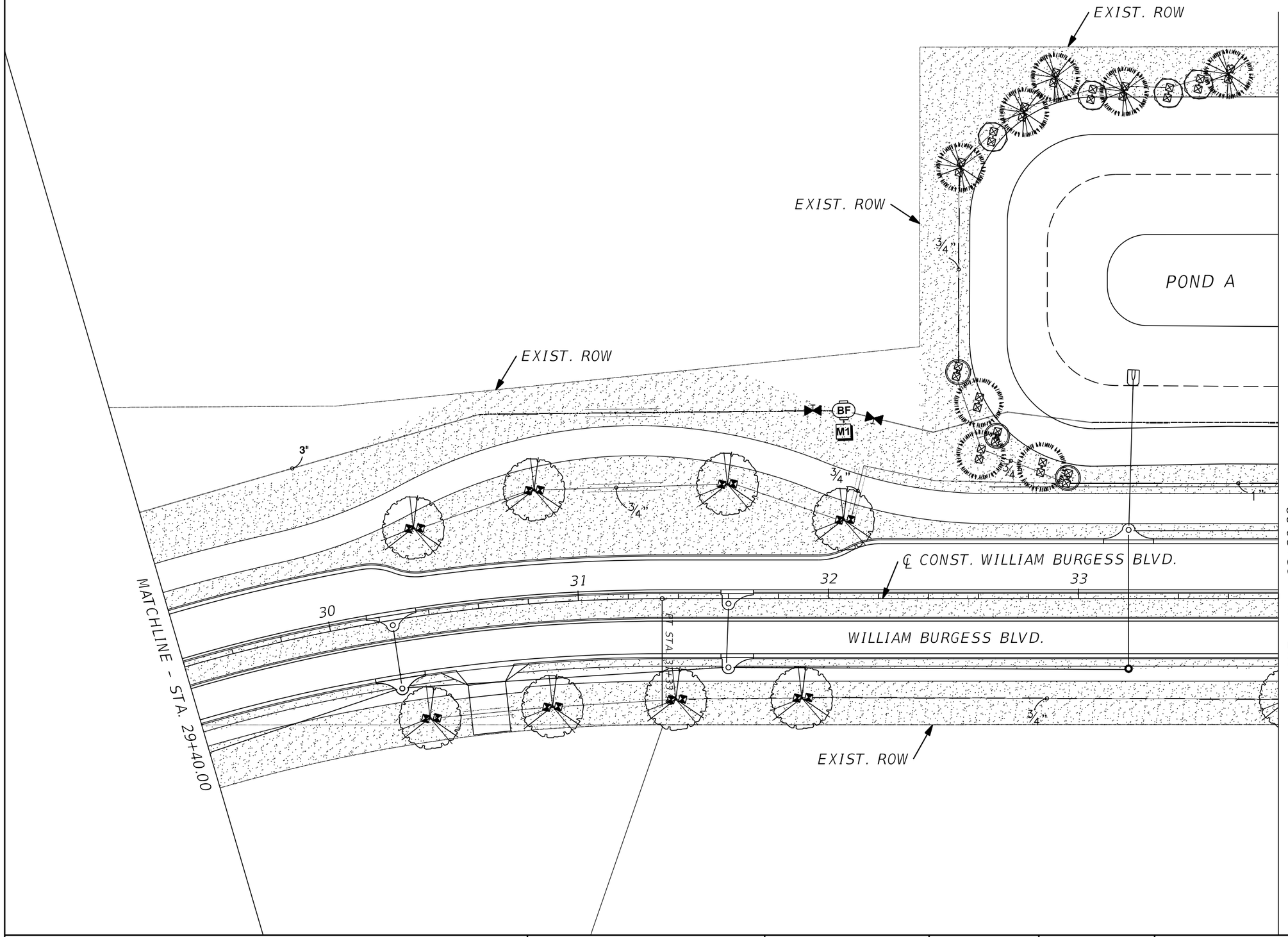
IRRIGATION PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
IR-4

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PROJECT NO. / DASH NO.
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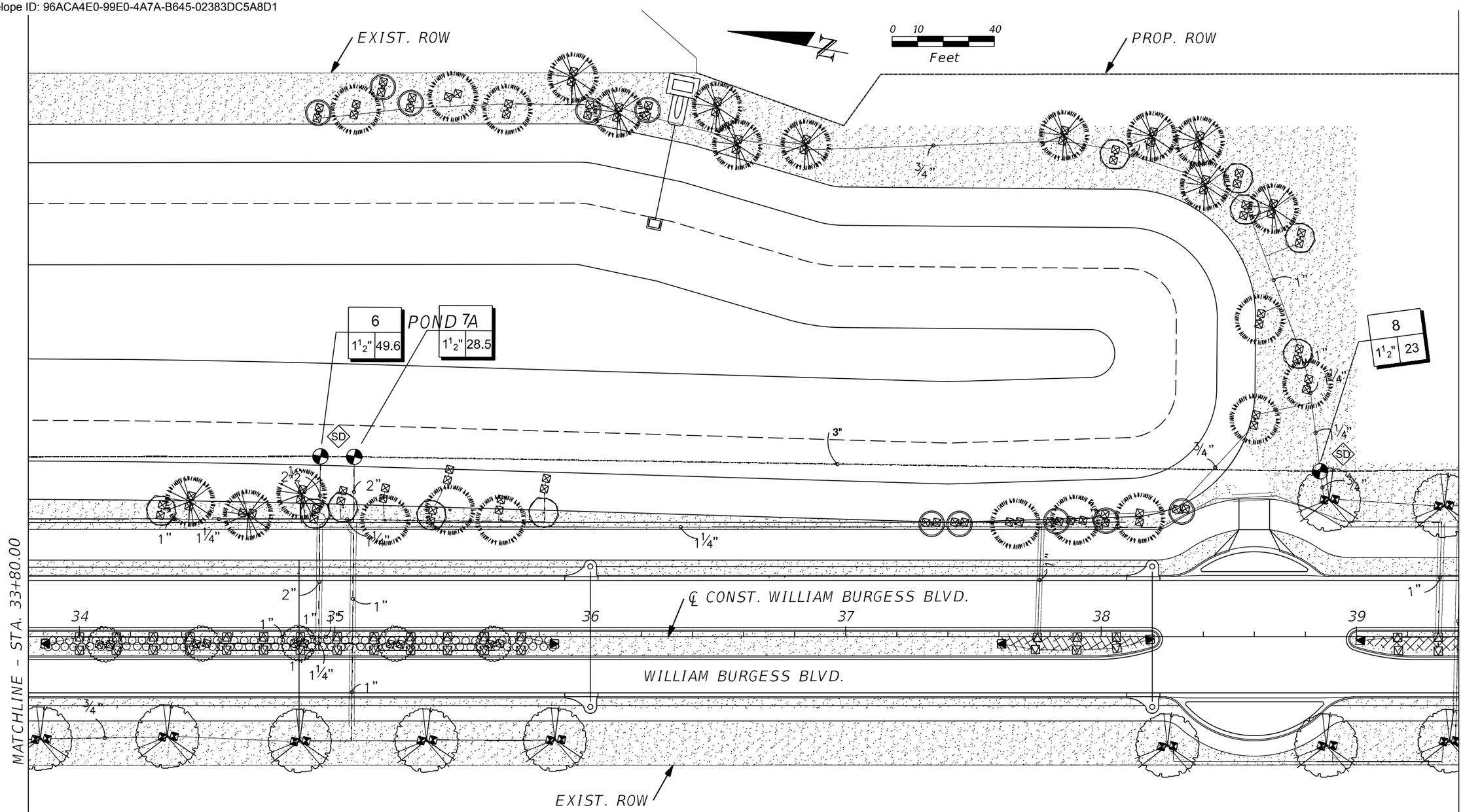
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WILLIAM BURGESS BLVD. EXTENSION
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SHEET NO.
IR-5

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CHECKED:	RH
APPROVED:	RP

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IRRIGATION PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
IR-6

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PROP. ROW

N

0 10 40
Feet

9
1"
12

10
1 1/2"
40.1

SD

3"

1"

3/4"

2 1/2"

2"

3/4"

40

41

PC STA. 41+83.64

42

43

44

1"

1 1/4"

1"

1"

1"

1"

1 1/4"

1"

3/4"

3/4"

3/4"

MATCHLINE – STA. 39+40.00

MATCHLINE – STA. 45+00.00

WILLIAM BURGESS BLVD.

℄ CONST. WILLIAM BURGESS BLVD.

EXIST. ROW

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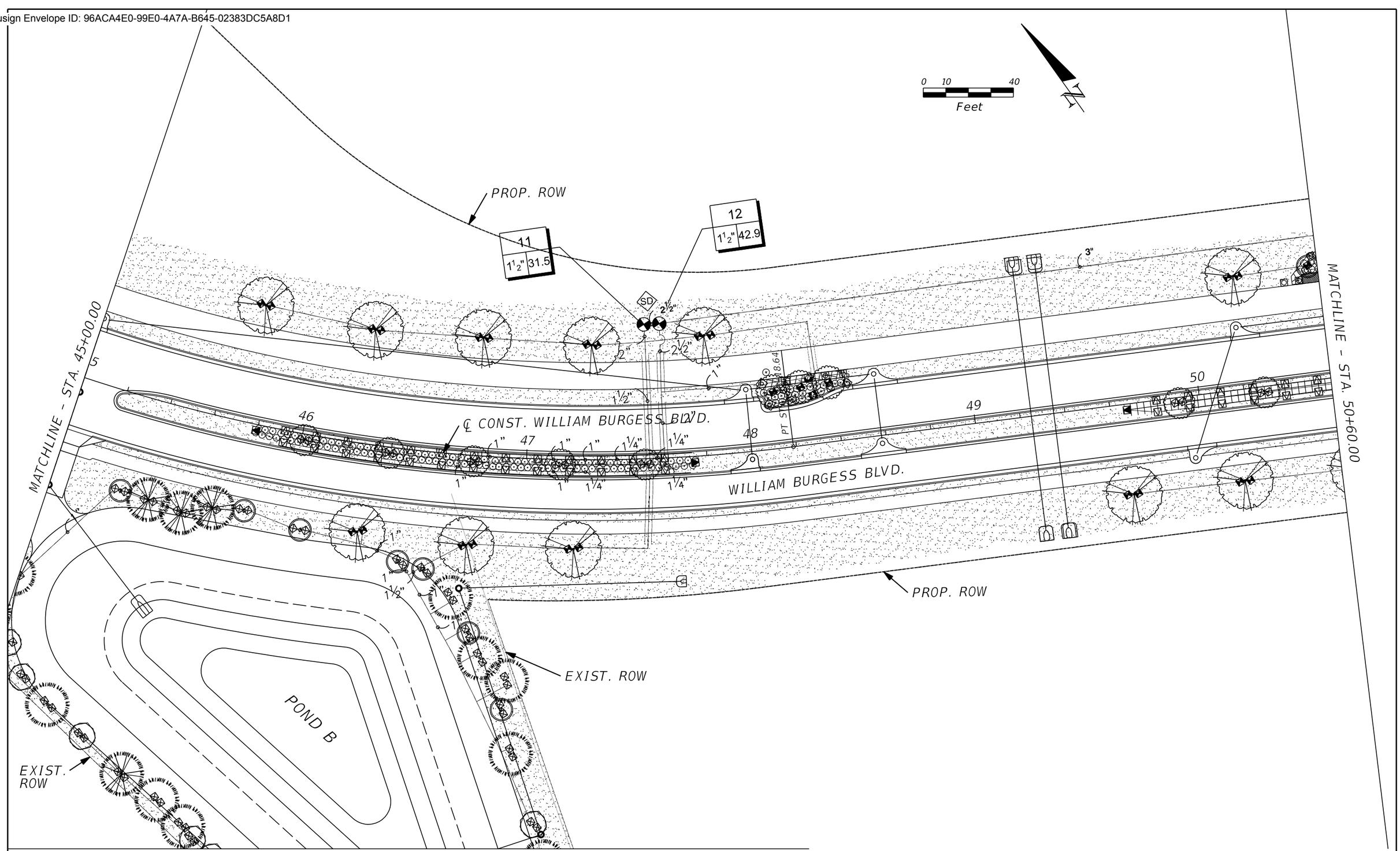
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IRRIGATION PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
IR-7

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APPROVED:	RP

PROJECT NO. / DASH NO.
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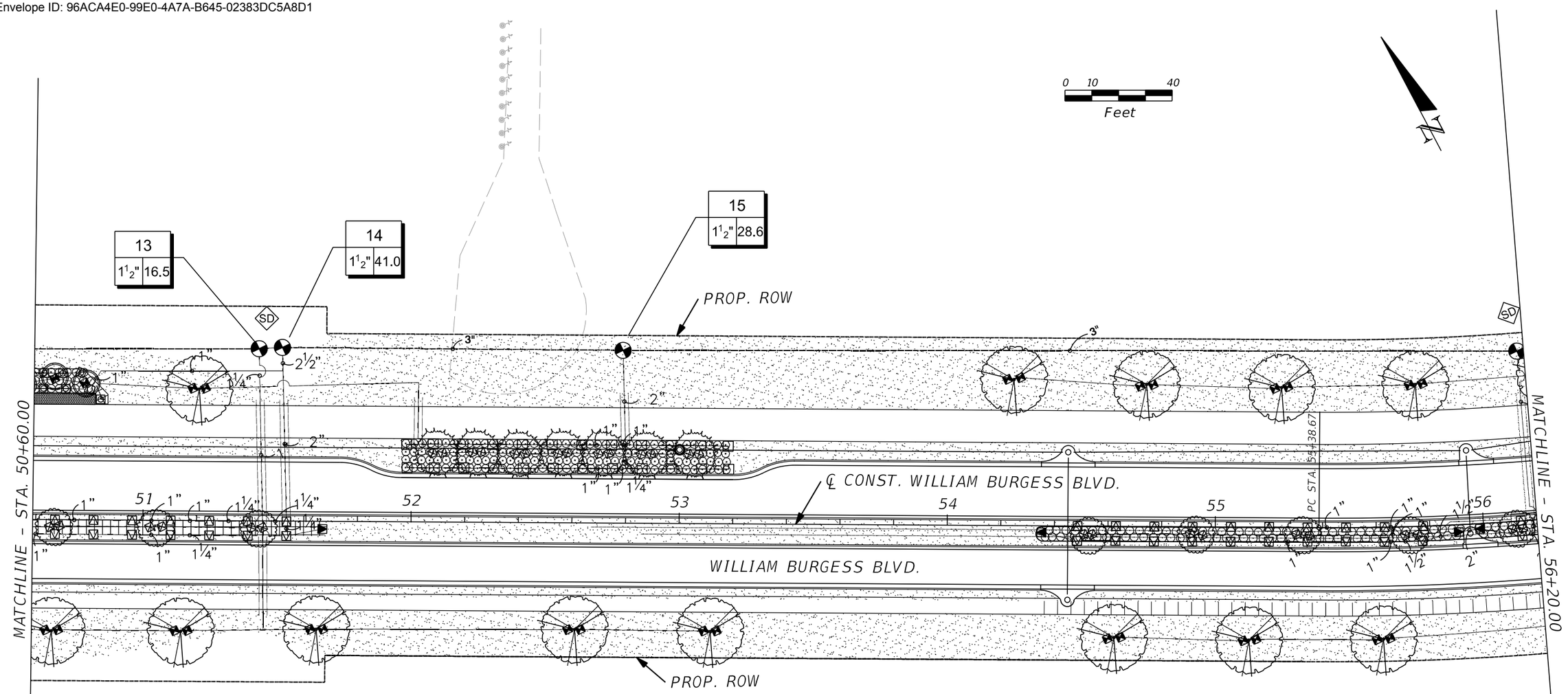
IRRIGATION PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
IR-8

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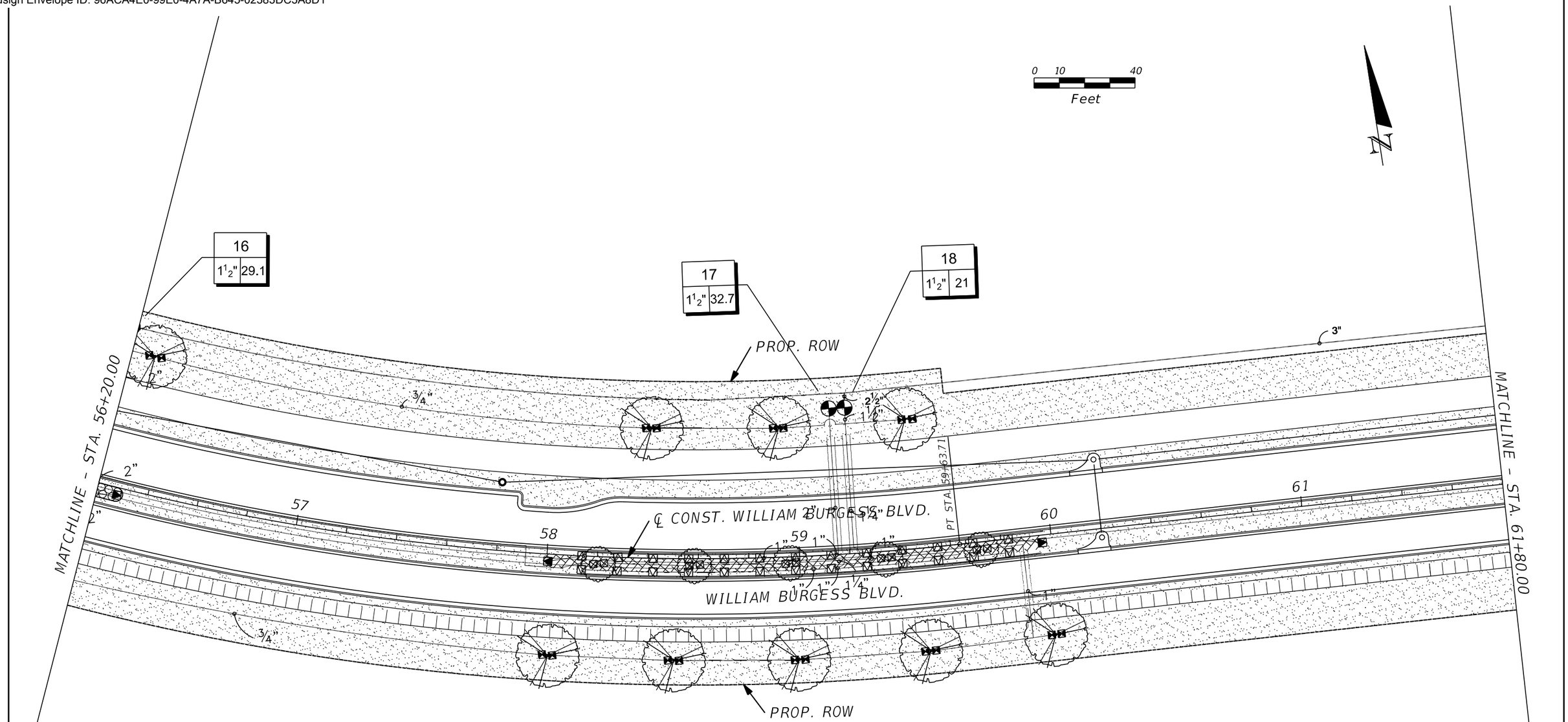
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
IR-9

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APPROVED:	RP

PROJECT NO. / DASH NO.
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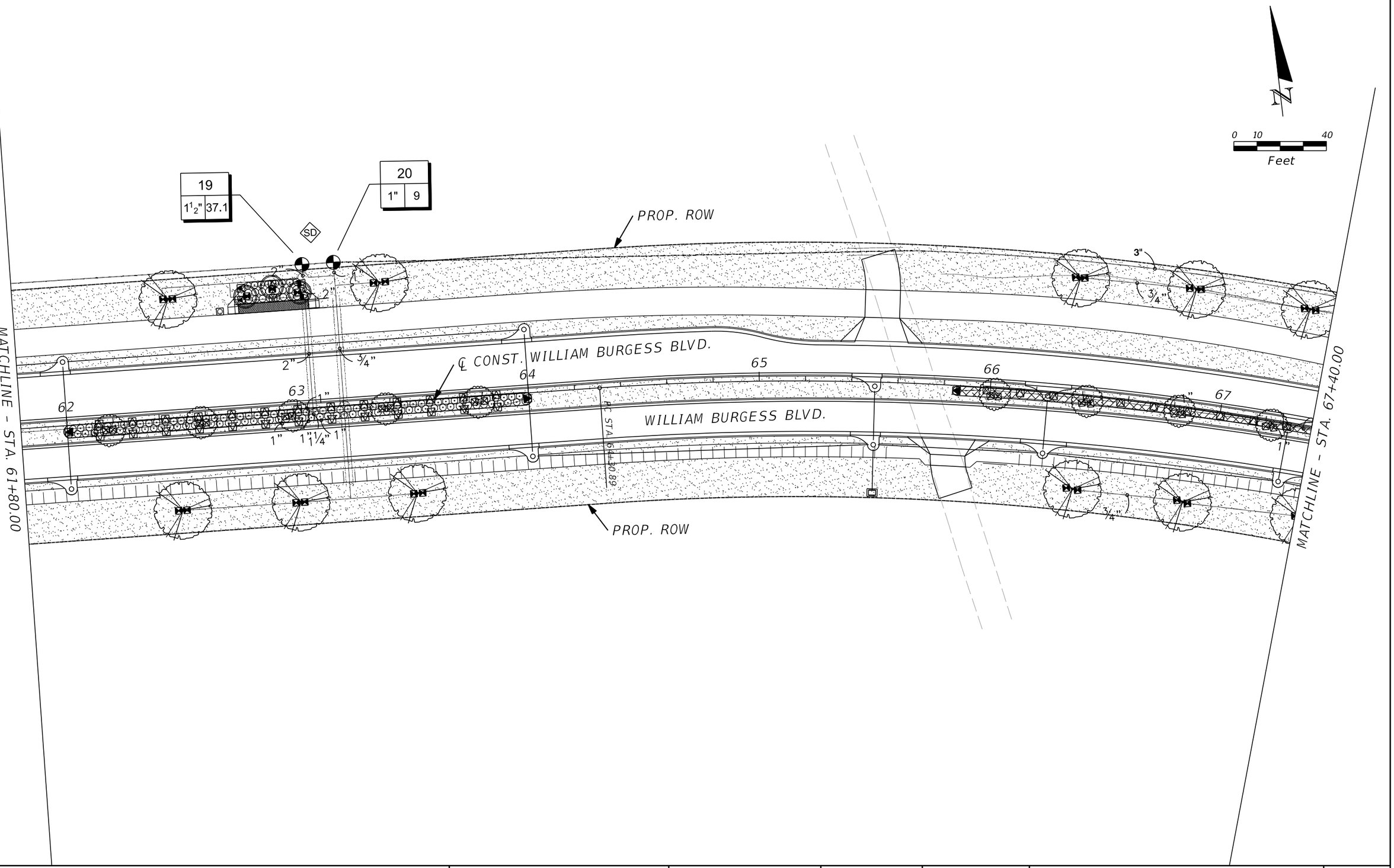
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SHEET NO.
IR-10

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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
IR-11

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

MATCHLINE - SHEET IR-19

POND C

21
1" | 15.7

22
1" | 12.5

23
1 1/2" | 31.5

24
1 1/2" | 41.8

25
1 1/2" | 44.3

PROP. ROW

MATCHLINE - STA. 72+00.00

MATCHLINE - STA. 67+40.00

℄ CONST. WILLIAM BURGESS BLVD.

WILLIAM BURGESS BLVD.

68

69

70

PT STA. 67+96.48

PROP. ROW

PC STA. 202+99.72

PT STA. 203+17.90

204

203

THERESA CT.

℄ CONST. THERESA CT.

0 10 40
Feet

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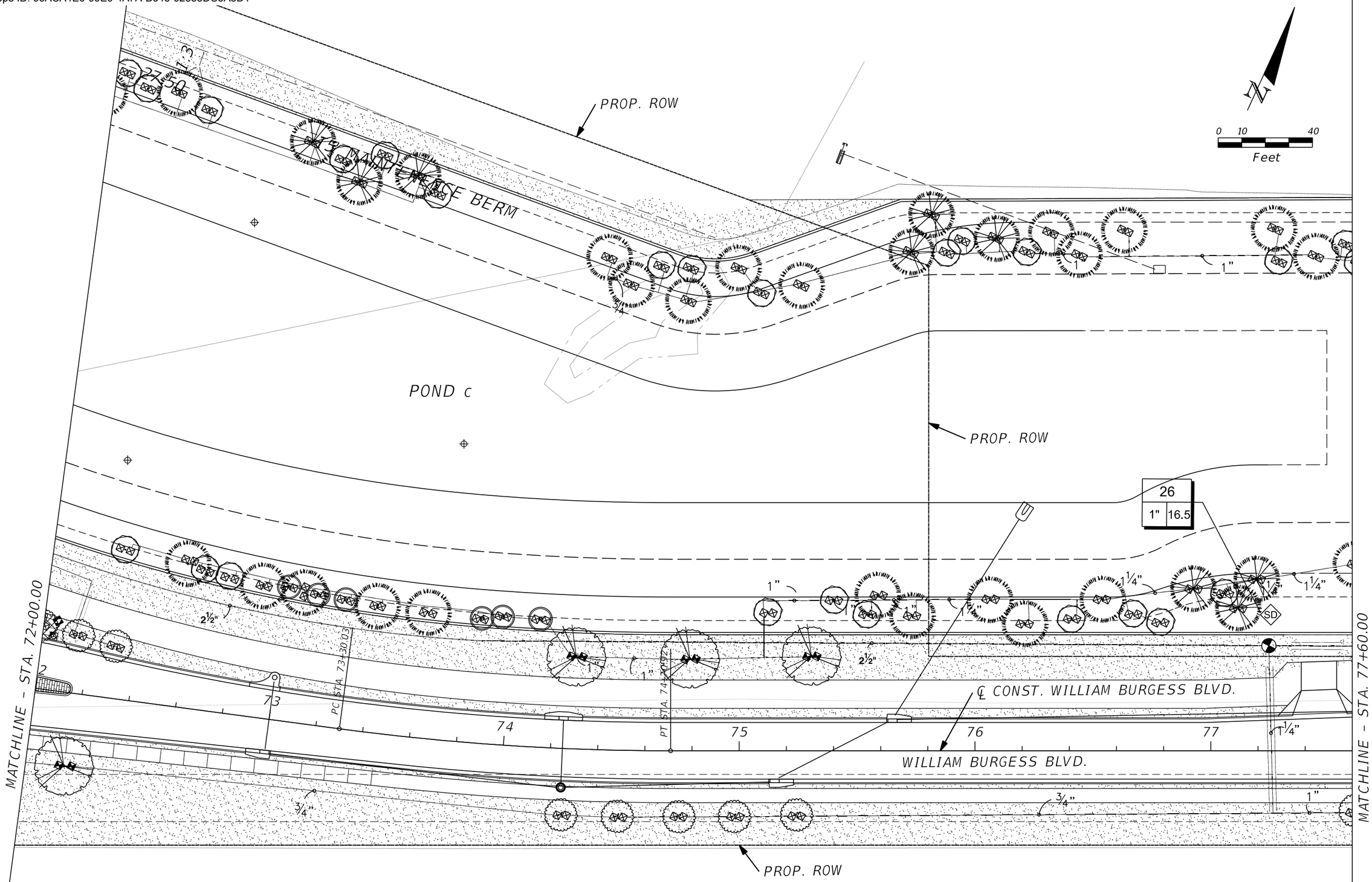
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WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
IR-12

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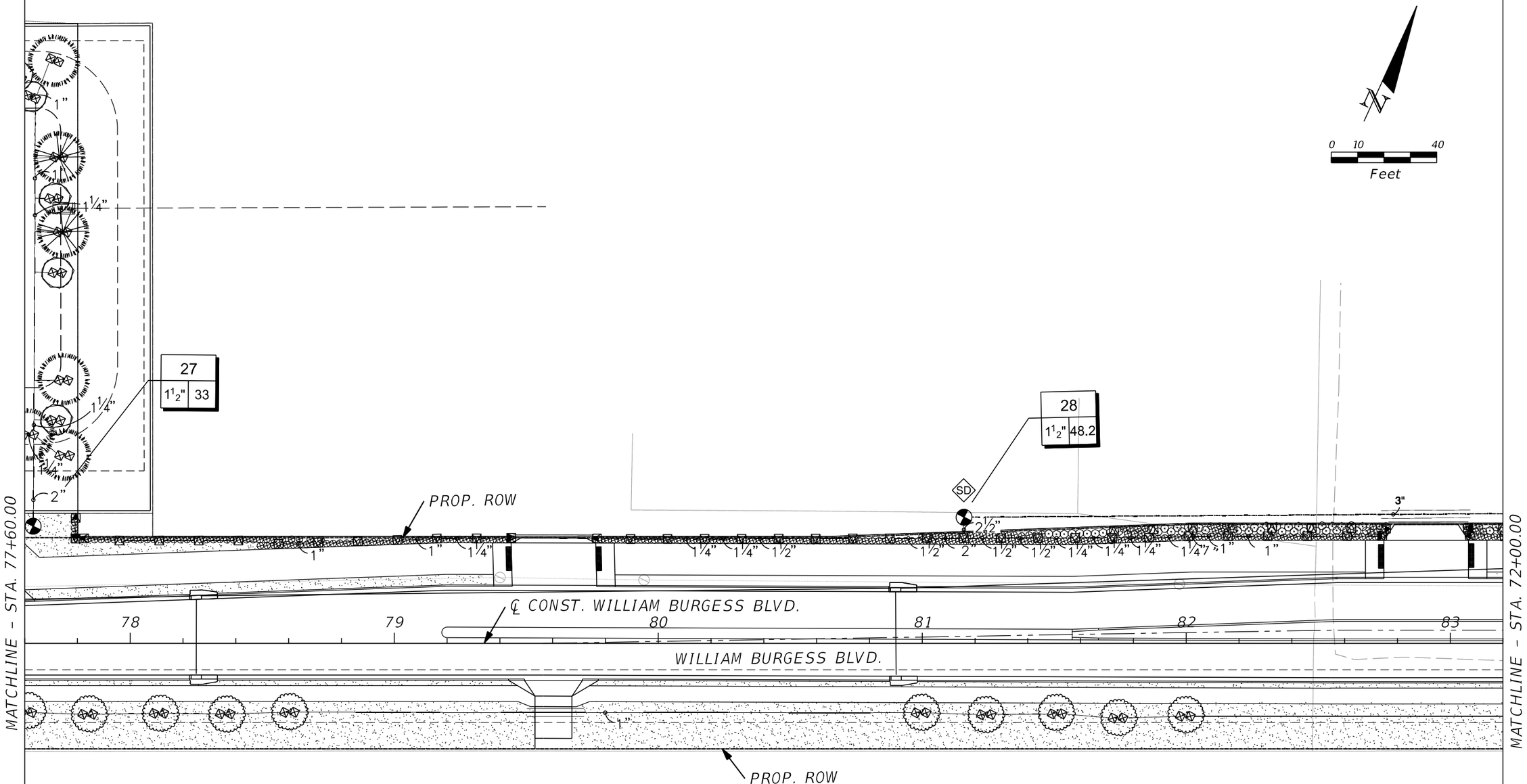
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WILLIAM BURGESS BLVD. EXTENSION
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SHEET NO.
IR-13

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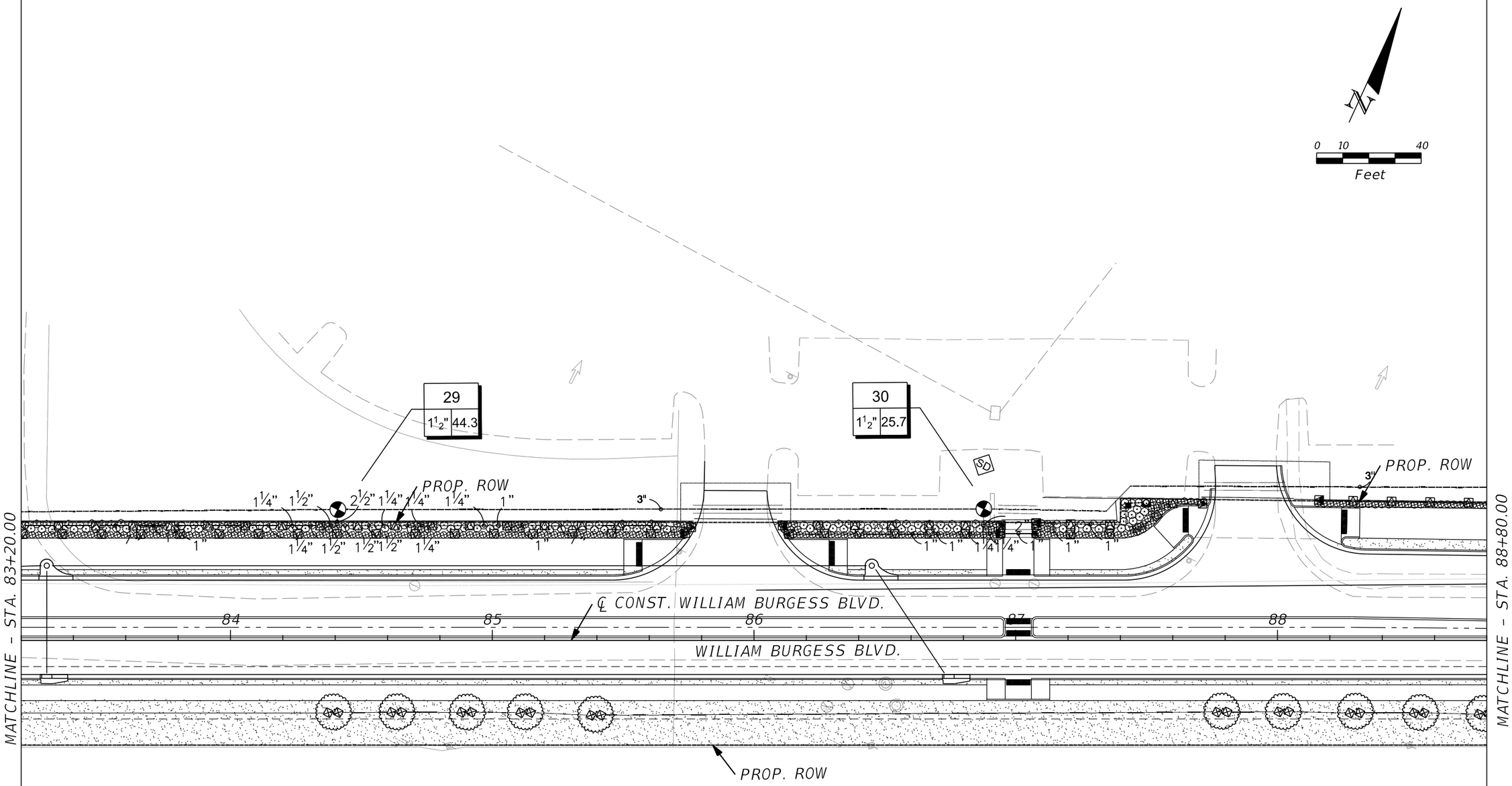
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WILLIAM BURGESS BLVD. EXTENSION
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SHEET NO.
IR-14

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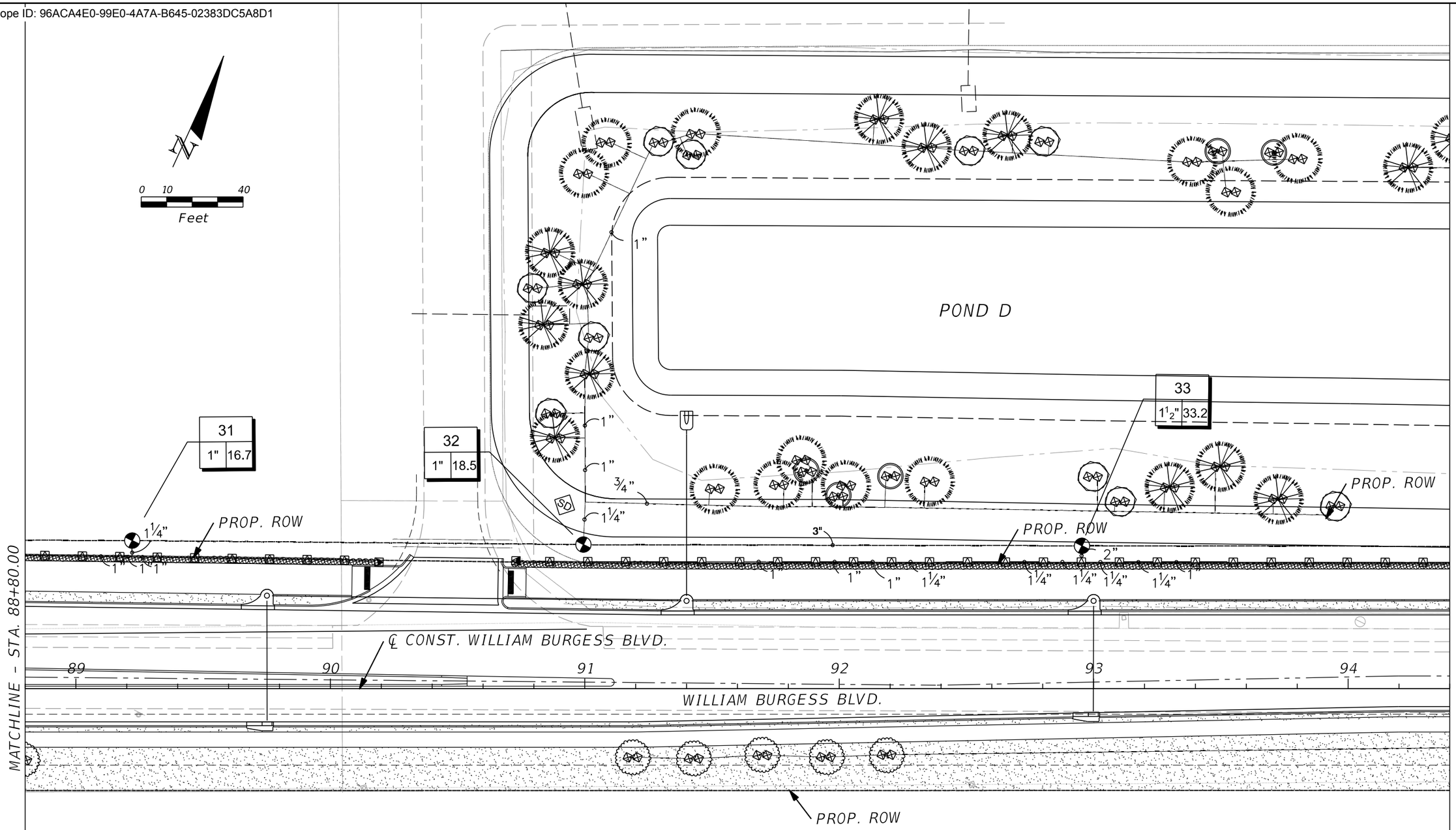
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IRRIGATION PLANS

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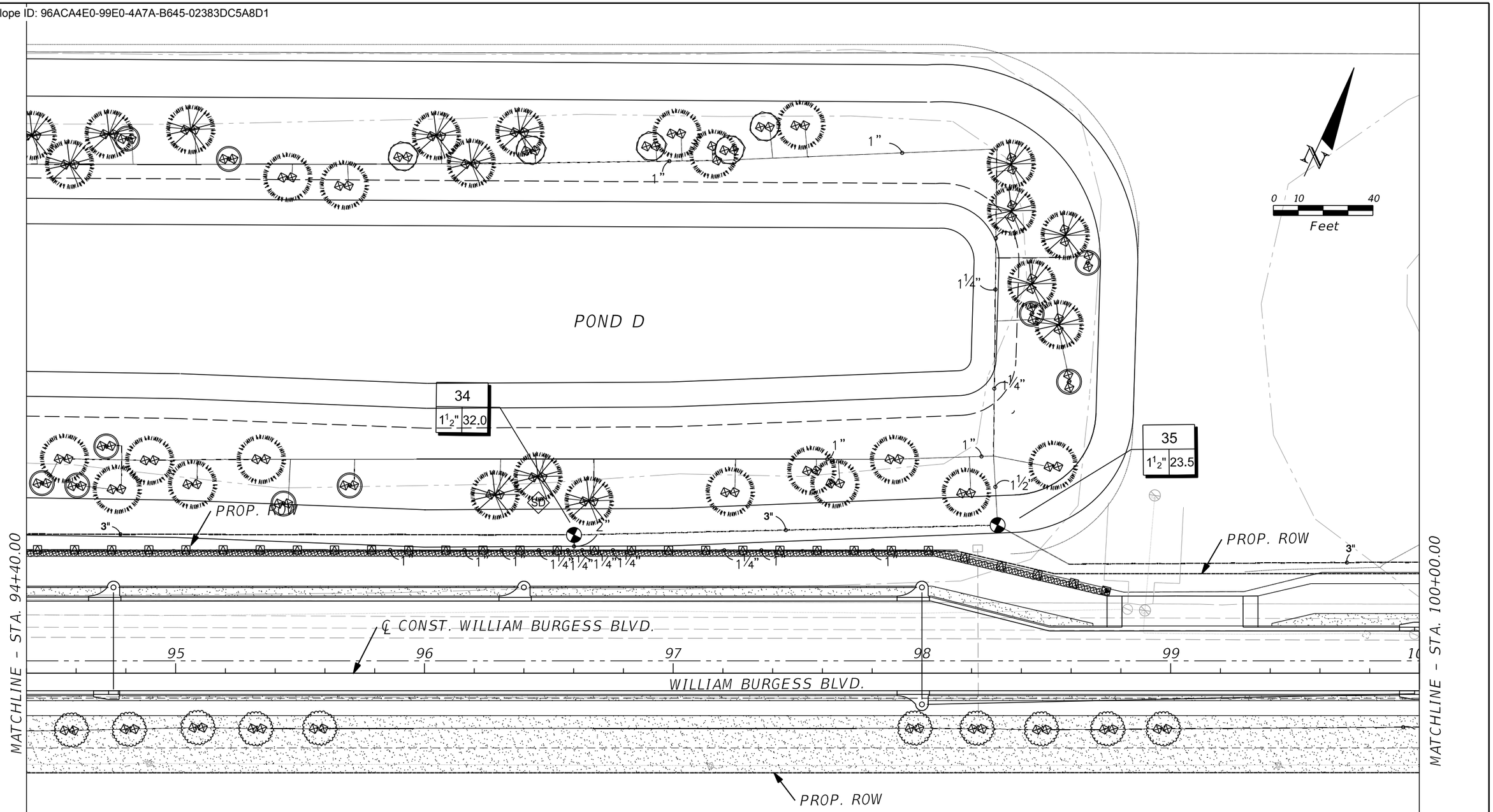
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IRRIGATION PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
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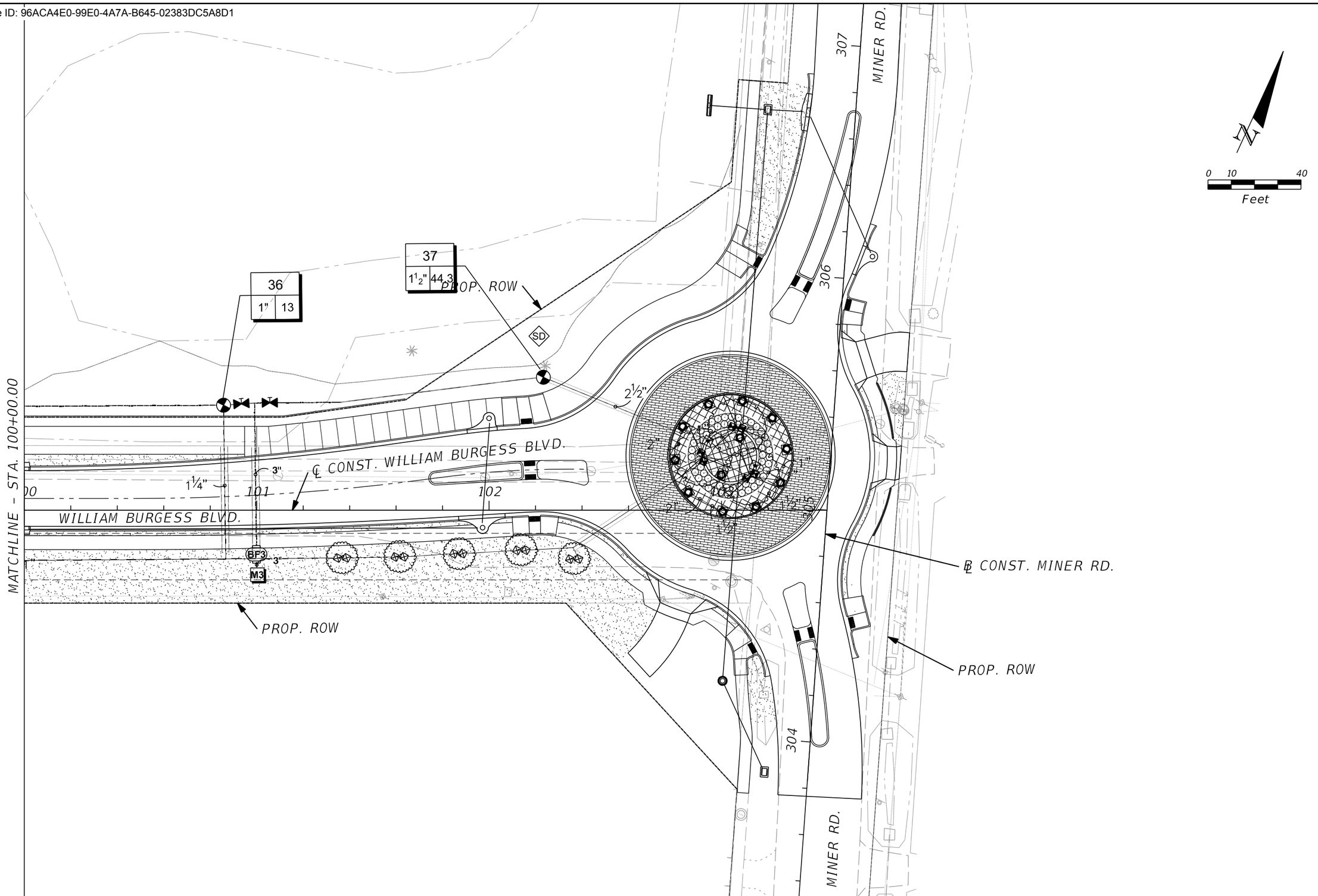
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904.363.1110
Certificate of Authorization:EB9951

RUTH PERRY, RLA. Lic. No. LA 1530

SCALE:	AS SHOWN
DATE:	10/24/2023
DRAWN:	JD
CHECKED:	RH
APPROVED:	RP

PROJECT NO. / DASH NO.
B190839.00

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IRRIGATION PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
IR-18

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

MATCHLINE - SHEET IR-8

POND B

EXIST. ROW

EXIST. ROW

N

0 10 40

Feet

N

0 10 40

Feet

PROP. ROW

27.00

3/4" 23.00

17.00

1"

POND C

MATCHLINE - SHEET IR-12

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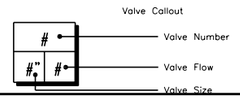
IRRIGATION PLANS

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
IR-19

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
EST LCS RCS CST SST	Rain Bird 1812 15 Strip Series Shrub Spray 12" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	489	30
Q T H F	Rain Bird 1812 8 Series MPR Shrub Spray 12" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	16	30
Q T H F	Rain Bird 1812 10 Series MPR Shrub Spray 12" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	7	30
Q T H TQ F	Rain Bird 1812 12 Series MPR Shrub Spray 12" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	31	30
Q T H TQ F	Rain Bird 1812 15 Series MPR Shrub Spray 12" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	2	30
4 6 8 10 12 15 18	Rain Bird 1812 ADJ Shrub Spray 12" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet.	85	30
1401 1402 1404 1408	Rain Bird 1800-1400 Flood 1401 Fixed flow rate 0.25 GPM - 2.0 GPM, full circle bubbler, 1/2" FIPT.	1,074	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	Rain Bird PEB-IVM 1", 1-1/2", 2" Plastic Industrial Smart Valves w/ Factory Installed IVM-SOL. Low Flow Operating Capability, Globe Configuration.	37	
	Leemco LMV-33BB 3" x 3" LMV-BB Series Mainline Gate Valve. The Bell x Bell version provides in-line isolation where the location is not near a mainline ductile iron fitting.	6	
BF	Watts 009 2" Reduced Pressure Backflow Preventer	1	
BF2	Watts 009 2" Reduced Pressure Backflow Preventer	1	
BF3	Watts 009 2" Reduced Pressure Backflow Preventer	1	
C	Rain Bird ESPLXIVM 60 Station, 2-Wire Controller w/ Smart Valve Technology. (1) ESPLXIVM 60-Station, Indoor/Outdoor, Plastic Wall-Mount Cabinet. System Requirements: Rain Bird LXIVM-XXX Integrated Valve Modules & 2-Wire Devices. Use Paige Electric Cable P7072D & Rain Bird WC20 Dry Splices ONLY. Ground System w/ (X) LXIVMSD Surge Device in Rain Bird Round Valve Boxes.	1	
S	Rain Bird WR2-RFS Wireless Rain/Freeze Sensor.	1	
SD	IVM-SD	18	
M1	Water Meter 2" 2" Potable Tap by others	1	
M2	Water Meter 2" 2" Potable Tap by others	1	
M3	Water Meter 2" 2" Potable Tap by others	1	
———	Irrigation Lateral Line: PVC Class 200 SDR 21	32,006 l.f.	
— — — —	Irrigation Mainline: PVC Schedule 40	7,711 l.f.	
= = = = = = = =	Pipe Sleeve: PVC Schedule 40	2,433 l.f.	



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	Rain Bird PEB-IVM	1"	Bubbler	20	41.2	55.18	1.38 in/h
2	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	44.15	38.21	55.95	1.51 in/h
3	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	41.81	33.42	49.73	1.87 in/h
4	Rain Bird PEB-IVM	1-1/2"	Bubbler	23	39.24	53.14	1.4 in/h
5	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	38.32	33.3	48.24	1.85 in/h
6	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	49.64	38.07	53.51	1.77 in/h
7	Rain Bird PEB-IVM	1-1/2"	Bubbler	28.5	37.54	51.3	1.21 in/h
8	Rain Bird PEB-IVM	1-1/2"	Bubbler	23	37.95	51.65	1.09 in/h
9	Rain Bird PEB-IVM	1"	Bubbler	12	34.79	48.1	1.53 in/h
10	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	40.14	33.81	49.84	1.82 in/h
11	Rain Bird PEB-IVM	1-1/2"	Bubbler	31.5	38.49	54.71	1.12 in/h
12	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	42.87	34.25	53.09	1.94 in/h
13	Rain Bird PEB-IVM	1-1/2"	Bubbler	16.5	33.95	47.7	1.37 in/h
14	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	41.02	34.3	51.88	1.88 in/h
15	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	28.6	32.66	47.78	1.78 in/h
16	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	29.06	33.86	48.69	1.75 in/h
17	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	32.68	33.2	48.18	1.88 in/h
18	Rain Bird PEB-IVM	1-1/2"	Bubbler	21	37.5	51.23	1.49 in/h
19	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	37.06	33.19	48.04	1.89 in/h
20	Rain Bird PEB-IVM	1"	Bubbler	9	34.19	47.37	1.51 in/h
21	Rain Bird PEB-IVM	1"	Shrub Spray	15.74	35.54	48.69	1.92 in/h
22	Rain Bird PEB-IVM	1"	Bubbler	12.5	36.59	49.72	1.57 in/h
23	Rain Bird PEB-IVM	1-1/2"	Bubbler	31.5	36.83	50.48	1.14 in/h
24	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	41.83	33.52	47.98	1.64 in/h
25	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	44.31	33.23	47.96	1.57 in/h
26	Rain Bird PEB-IVM	1"	Bubbler	16.5	44.41	58.23	1.09 in/h
27	Rain Bird PEB-IVM	1-1/2"	Bubbler	33	38.1	54.47	1.04 in/h
28	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	48.2	35.57	55.71	2.03 in/h
29	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	44.31	33.47	51.79	2.39 in/h
30	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	25.74	32.56	47.17	2.18 in/h
31	Rain Bird PEB-IVM	1"	Shrub Spray	16.71	34.04	47.62	1.92 in/h
32	Rain Bird PEB-IVM	1"	Bubbler	18.5	37.46	51.06	0.98 in/h
33	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	33.16	33.92	48.75	1.91 in/h
34	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	31.95	33.82	48.06	1.88 in/h
35	Rain Bird PEB-IVM	1-1/2"	Bubbler	23.5	37.78	51.27	0.96 in/h
36	Rain Bird PEB-IVM	1"	Bubbler	13	42.04	55.16	1.09 in/h
37	Rain Bird PEB-IVM	1-1/2"	Shrub Spray	44.31	33.38	48.1	1.57 in/h

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IRRIGATION PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.: IR-20

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

CRITICAL ANALYSIS

Generated:	2022-08-24 11:22
P.O.C. NUMBER: 01	
Water Source Information:	2" Potable Tap by others
FLOW AVAILABLE	
Water Meter Size:	2"
Flow Available	120 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	60.00 PSI
Elevation Change:	5.00 ft
Service Line Size:	3"
Length of Service Line:	20 ft
Pressure Available:	57.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	49.64 GPM
Flow Available at POC:	120 GPM
Residual Flow Available:	70.36 GPM
Critical Station:	2
Design Pressure:	30 PSI
Friction Loss:	5.73 PSI
Fittings Loss:	0.57 PSI
Elevation Loss:	0 PSI
Loss through Valve:	1.91 PSI
Pressure Req. at Critical Station:	38.2 PSI
Loss for Fittings:	0.32 PSI
Loss for Main Line:	3.18 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	12.7 PSI
Loss for Water Meter:	1.55 PSI
Critical Station Pressure at POC:	55.95 PSI
Pressure Available:	57 PSI
Residual Pressure Available:	1.05 PSI

CRITICAL ANALYSIS

Generated:	2022-08-24 11:22
P.O.C. NUMBER: 02	
Water Source Information:	2" Potable Tap by others
FLOW AVAILABLE	
Water Meter Size:	2"
Flow Available	120 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	65.00 PSI
Elevation Change:	5.00 ft
Service Line Size:	3"
Length of Service Line:	20 ft
Pressure Available:	62.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	44.31 GPM
Flow Available at POC:	120 GPM
Residual Flow Available:	75.69 GPM
Critical Station:	26
Design Pressure:	30 PSI
Friction Loss:	10.37 PSI
Fittings Loss:	1.04 PSI
Elevation Loss:	0 PSI
Loss through Valve:	3 PSI
Pressure Req. at Critical Station:	44.41 PSI
Loss for Fittings:	0.07 PSI
Loss for Main Line:	0.65 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	12.7 PSI
Loss for Water Meter:	0.4 PSI
Critical Station Pressure at POC:	58.23 PSI
Pressure Available:	62 PSI
Residual Pressure Available:	3.77 PSI

CRITICAL ANALYSIS

Generated:	2022-08-24 11:22
P.O.C. NUMBER: 03	
Water Source Information:	2" Potable Tap by others
FLOW AVAILABLE	
Water Meter Size:	2"
Flow Available	120 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	65.00 PSI
Elevation Change:	5.00 ft
Service Line Size:	3"
Length of Service Line:	20 ft
Pressure Available:	62.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	48.2 GPM
Flow Available at POC:	120 GPM
Residual Flow Available:	71.8 GPM
Critical Station:	28
Design Pressure:	30 PSI
Friction Loss:	3.15 PSI
Fittings Loss:	0.31 PSI
Elevation Loss:	0 PSI
Loss through Valve:	2.11 PSI
Pressure Req. at Critical Station:	35.58 PSI
Loss for Fittings:	0.51 PSI
Loss for Main Line:	5.13 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	12.7 PSI
Loss for Water Meter:	1.79 PSI
Critical Station Pressure at POC:	55.71 PSI
Pressure Available:	62 PSI
Residual Pressure Available:	6.29 PSI

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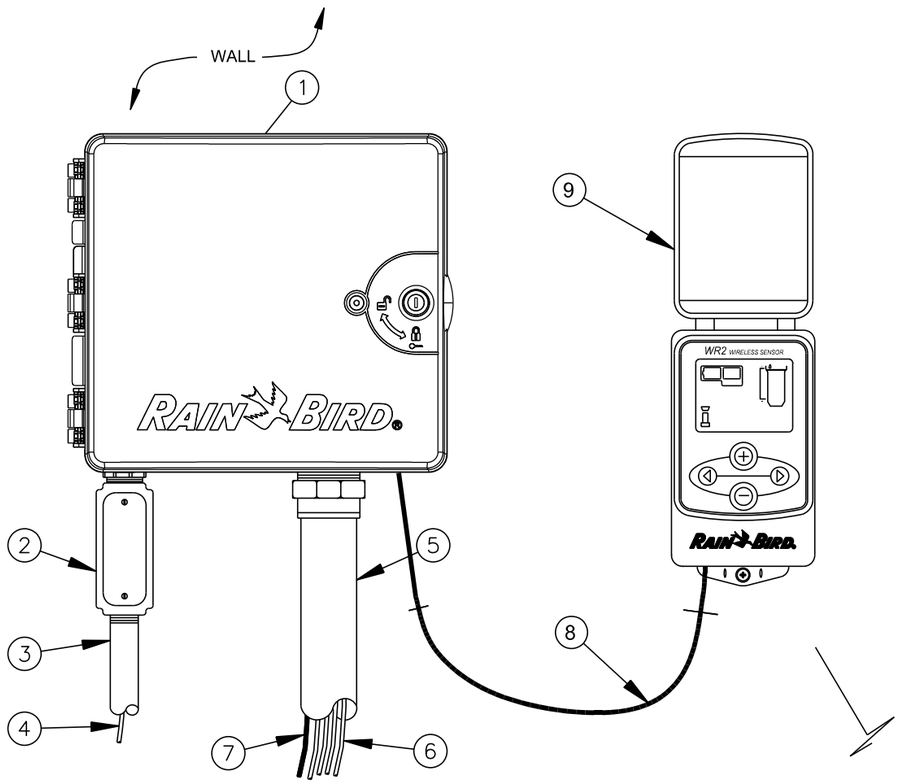
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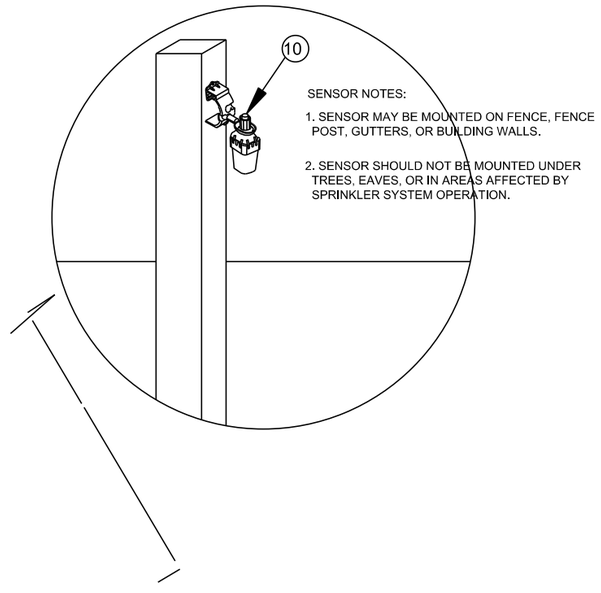
IRRIGATION PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.: IR-21

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1





SENSOR NOTES:

1. SENSOR MAY BE MOUNTED ON FENCE, FENCE POST, GUTTERS, OR BUILDING WALLS.
2. SENSOR SHOULD NOT BE MOUNTED UNDER TREES, EAVES, OR IN AREAS AFFECTED BY SPRINKLER SYSTEM OPERATION.

(1) IRRIGATION CONTROLLER:
RAIN BIRD ESP-LXMEF CONTROLLER WITH FLOW SMART MODULE IN PLASTIC CABINET WITH WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.

(2) JUNCTION BOX

(3) 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY

(4) POWER SUPPLY WIRE

(5) 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES

(6) MASTER VALVE AND REMOTE CONTROL VALVE WIRES

(7) FLOW SENSOR WIRE (PE 39, 89 OR 54) TO FLOW SENSOR

(8) CABLE HARNESS FOR CONTROLLER INTERFACE (30" MAXIMUM)

(9) RAIN BIRD WR2 WIRELESS SENSOR CONTROLLER INTERFACE

1. FOR BEST PERFORMANCE, THE CONTROLLER INTERFACE SHOULD BE INSTALLED AT LEAST FIVE FEET ABOVE THE GROUND.
2. IT IS RECOMMENDED THAT THE CONTROLLER INTERFACE BE INSTALLED AWAY FROM SOURCES OF ELECTRICAL INTERFERENCE (SUCH AS TRANSFORMERS, GENERATORS, PUMPS, FANS, ELECTRICAL METER BOXES) AND METAL OBJECTS TO MAXIMIZE COMMUNICATION RANGE.

(10) RAIN BIRD WR2 SENSOR

1 RAINBIRD ESP-IVM WITH WIRELESS SENSOR

1" = 1"

P-RE-RAI-11

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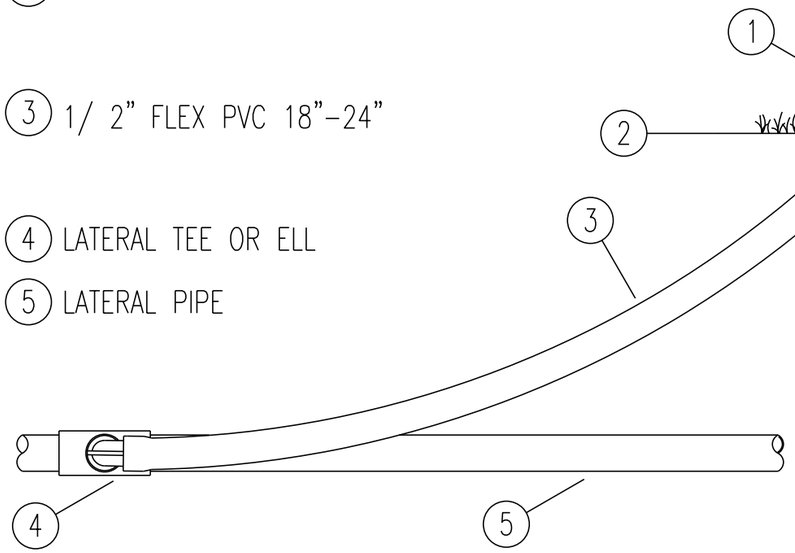
IRRIGATION PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.: IR-22

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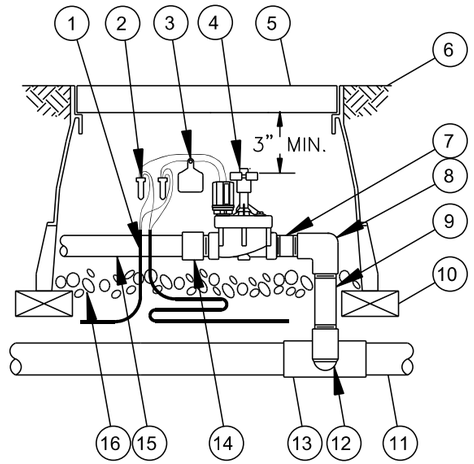
1. MODEL 1400 BUBBLER
2. FINISH GRADE
3. 1/ 2" FLEX PVC 18"-24"
4. LATERAL TEE OR ELL
5. LATERAL PIPE



2 RAINBIRD 1400 BUBBLER

NTS

P-HU-RAI-01



1. 30-INCH LENGTH OF 2-WIRE CABLE
2. WATERPROOF CONNECTION RAIN BIRD WC20 (TWO REQUIRED)
3. ID TAG: RAIN BIRD VID SERIES
4. REMOTE CONTROL VALVE: RAIN BIRD PEB/PESB/PESB-R WITH IVM
5. VALVE BOX WITH COVER: RAIN BIRD VB-STD
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

3 PESB WITH IVM

1" = 1"

P-RE-RAI-18

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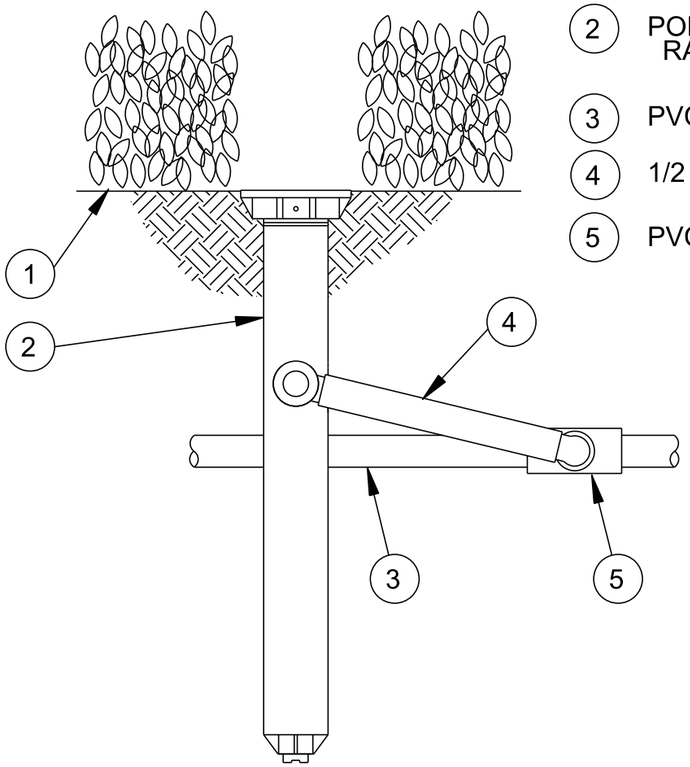
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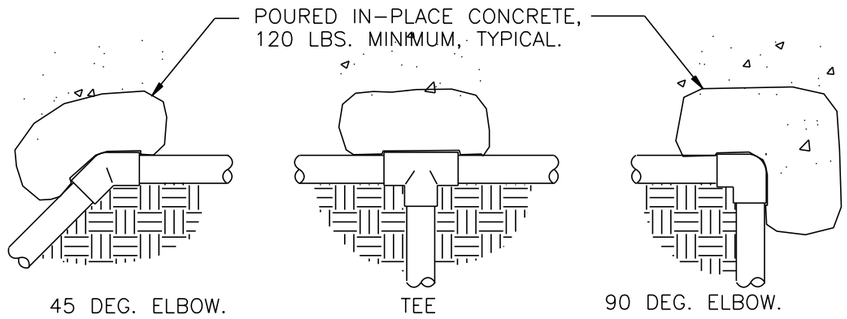


1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1812
3. PVC LATERAL PIPE
4. 1/2 " FLEX PVC
5. PVC SCH 40 TEE OR ELL

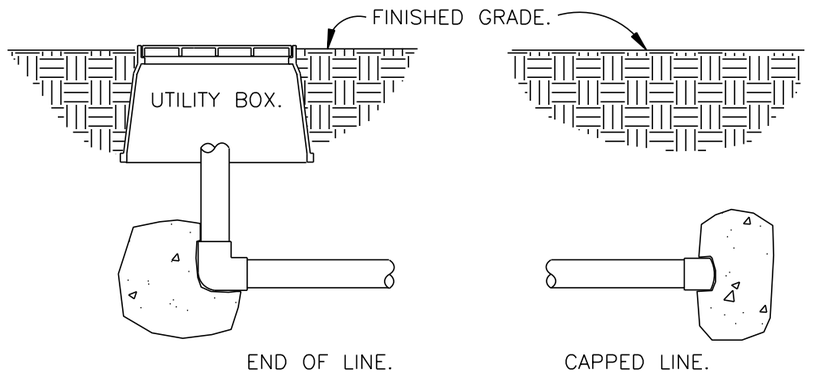
4 RAINBIRD 1812

NTS

P-RE-RAI-03



PLAN VIEW



SECTION VIEW

5 THRUST BLOCKING

3/4" = 1'-0"

FX-IR-FX-AUXEQ-11

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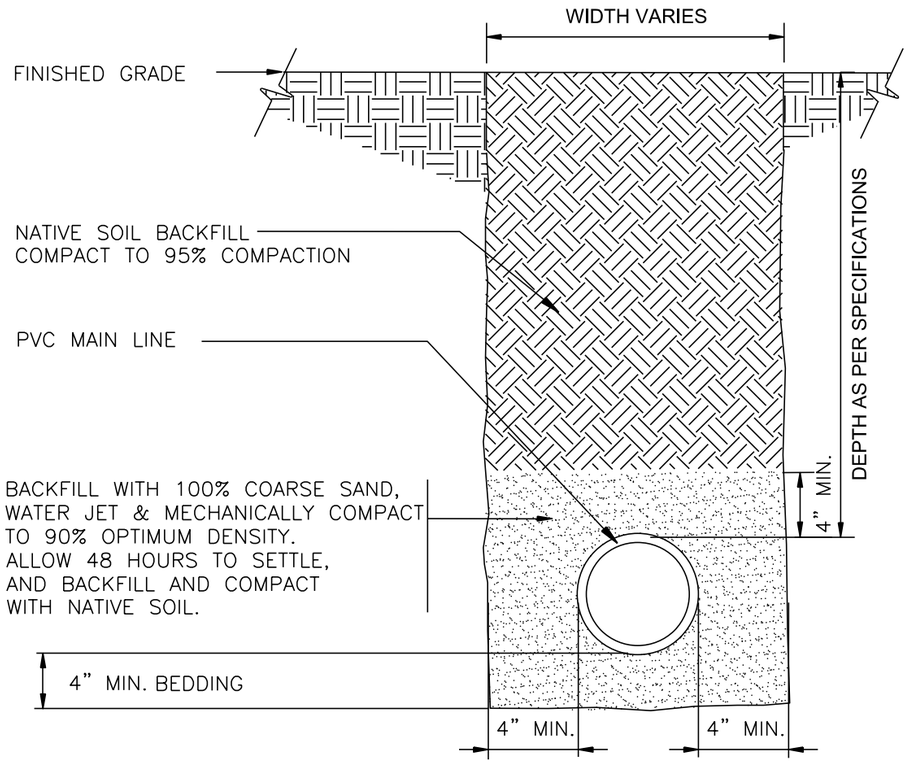
IRRIGATION PLAN

WILLIAM BURGESS BLVD. EXTENSION
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SHEET NO.: IR-24

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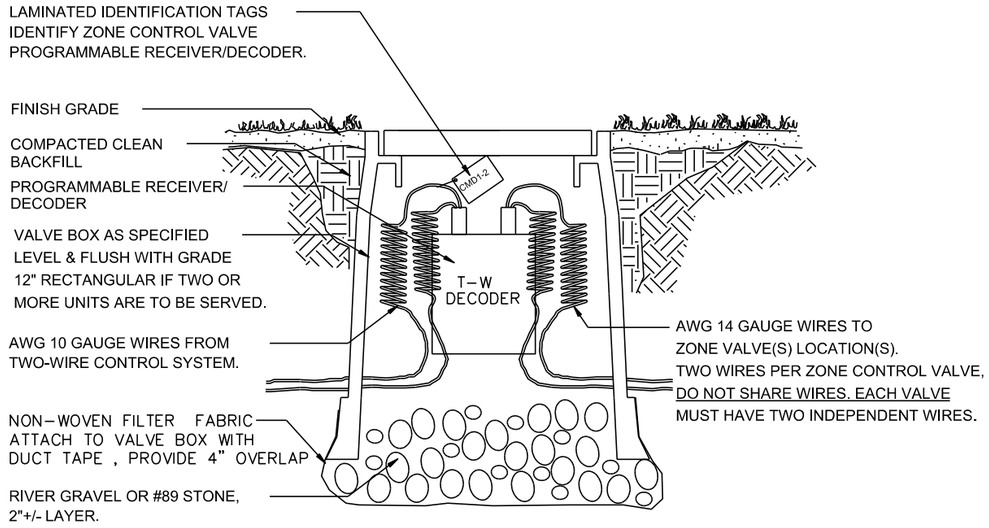
Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



6 SLEEVE AT ROAD

1 1/2" = 1'-0"

FX-IR-FX-AUXEQ-15



NOTE:
EACH ZONE CONTROL VALVE NOT CONNECTED DIRECTLY TO THE TWO-WIRE SYSTEM AWG 10 GAUGE WIRES MUST HAVE ITS OWN TWO WIRES. DO NOT SHARE AWG 14 GAUGE WIRES WITH OTHER ZONE CONTROL VALVES.

7 TWO WIRE SPLICE BOX

NTS

P-CO-14

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RUTH PERRY, RLA. Lic. No. LA 1530

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DRAWN:	JD
CHECKED:	RH
APPROVED:	RP

PROJECT NO. / DASH NO.: B190839.00

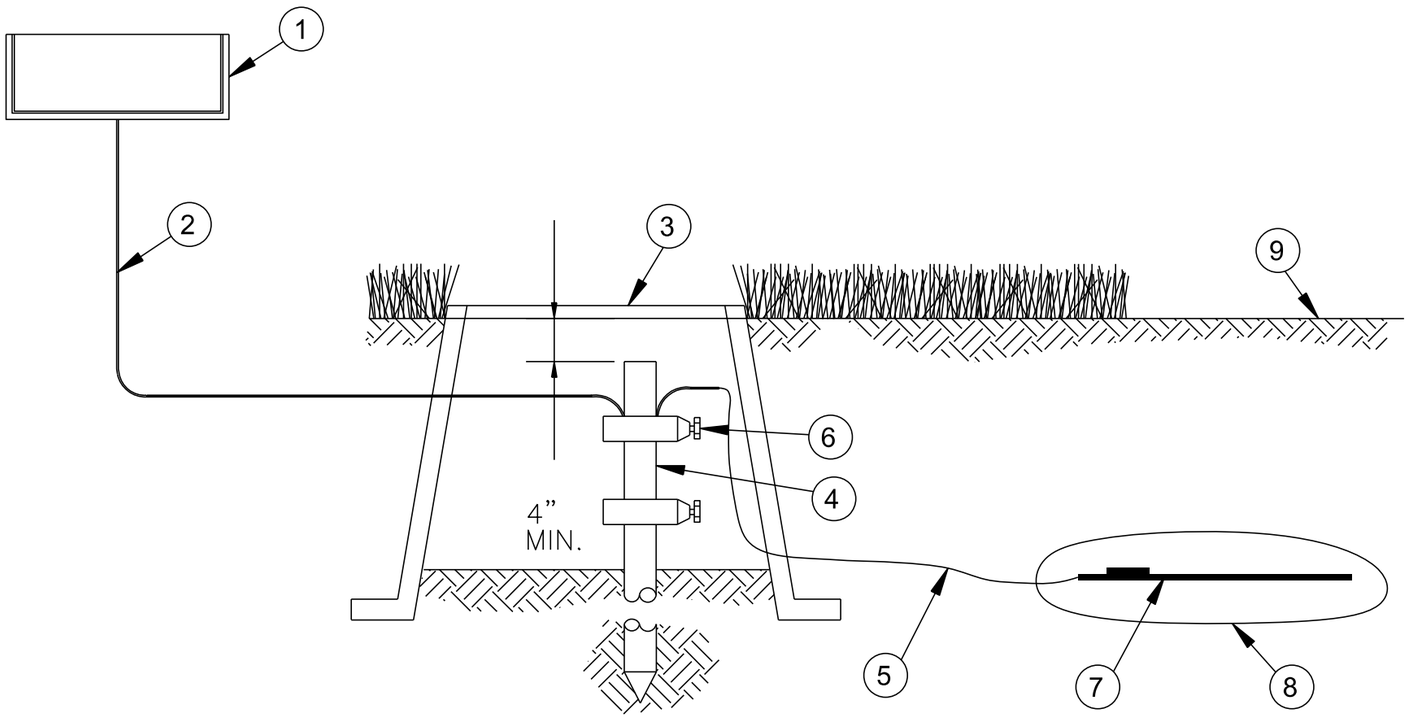
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IRRIGATION PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.: IR-25

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



1. CONTROLLER
2. SOLID BARE COPPER WIRE (#10 AWG) FROM GROUNDING ROD TO CONTROLLER. AS SHORT AND STRAIGHTS AS POSSIBLE
3. COVER GROUNDING ROD WITH #10 ROUND VALVE BOX AS SHOWN
4. 5/8–INCH X 10 FT COPPER CLAD GROUNDING ROD OR GROUNDING PLATE. INSTALL RODS IN SOIL IN A TRIAGULAR PATTERN SPACED A MINIMUM OF 16 FT APART FROM EACH OTHER. GROUNDING GRID TO HAVE A RESISTANCE OF TEN (10) OHMS OR LESS
5. BARE COPPER WIRE (#6 AWG MIN.) BETWEEN GROUNDING ROD AND GROUNDING PLATE
6. GROUND ROD CLAMP OR WELDS
7. COPPER GROUNDING PLATE
8. GROUND ENHANCEMENT MATERIAL (IF REQUIRED)
9. FINISH GRADE

8 GROUNDING PLATE AND ROD

1" = 1"

P-CO-24

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PROJECT NO. / DASH NO.
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IRRIGATION PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
IR–26

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GENERAL NOTES:

1. Irrigation system design requirements: See critical analysis on sheet IR-26
2. Do not willfully install the irrigation as shown on the drawings when it is obvious in the field that conditions exist that might not have been considered in the design process. For example: obstructions, grade differences, water levels dimensional differences, etc. Refer to the landscape plan to avoid conflicts with proposed trees or shrubs.
3. Piping may sometimes be indicated as being located in unlikely areas: i.e., under buildings, outside property lines, under pavement, in lakes or ditches, etc. This is done for graphic clarity only. Whenever possible, piping is to be installed in open, green areas.
4. Pipe sizes shall conform to those on the drawing. Substituting with smaller pipe sizes will not be permitted.
5. If required the Irrigation Contractor shall provide the necessary Right of Way use permits.
6. Mainline to be installed with a minimum of 30" depth of cover, lateral lines are to be installed with a minimum of 12" depth of cover.
7. All main lines 3" or smaller shall be SCH-40 PVC..
8. Unless otherwise indicated all sleeves are to be PVC Sch 40 and at least two (2) nominal sizes larger than the pipe to be sleeved.
9. Wherever practical, install valves out of high traffic areas. all valves, flush valves and wire splices shall be installed in Carson valve boxes as follows: Remote control valves in 12" standard rectangular box and wire splices in 10" round valve box.
10. All 24 volt control wire to be UL listed Rain Bird approved jacketed two wire cable. Install wire path in 1" gray conduit.
11. All wire connections to be Rain Bird Approved 3-MDBR/Y Connectors.
12. All grounding as per Rain Bird requirements.
13. All pop up sprinkler heads shall be installed level and flush to grade. Mount all sprays and bubblers on 18" of flexible PVC.
14. Install all heads a minimum of 12" from any structures.
15. Location of all sprinkler heads shall be site adjusted to minimize water overthrow onto building surfaces and walkways. Use pressure regulators on all valves to prevent fogging.
16. The rain shut off devices shall be installed to meet local codes and/or minimum manufacturer's recommendations.
17. Main line piping larger than 2" shall have thrust blocks sized and placed in accordance with the manufacturer's recommendations. Thrust blocks shall be standard poured concrete mix. Thrust blocks shall be installed at all changes in directions, reducers, valves and end caps of main line.
18. The irrigation contractor shall prepare an AS-BUILT drawing on reproducible paper showing all main line piping, control wires and valves by showing exact measurements from hard surfaces.
19. The owner will supply power to the irrigation controller.
20. Any other equipment required that is not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications.
21. Velocity not to exceed 5' per second.

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IRRIGATION PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
IR-27

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APPENDIX C

GEOTHECHNICAL REPORTS

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CSI Geo

Geotechnical • CMT • CEI

Geotechnical Exploration and Evaluation Report for Roadway and Ponds

William Burgess Boulevard Extension
Nassau County, Florida

CSI Geo Project No.: 71-19-133-09
GAI Project No.: B190839.00

Prepared by

CSI Geo, Inc.
2394 St. Johns Bluff Road S., Suite 200
Jacksonville, FL 32246
Tel: (904) 641-1993
Fax: (904) 641-0057

Prepared for

GAI Consultants, Inc.

June 23, 2020

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CSI Geo
Geotechnical • CMT • CEI

June 23, 2020

Mr. Ronald F. Hoogland, P.E.
GAI Consultants, Inc.
1301 Riverplace Blvd., Suite 900
Jacksonville, FL 32207

RE: William Burgess Boulevard Extension
Nassau County, Florida

Subject: Geotechnical Exploration and Evaluation Report for Roadway and Ponds
CSI Geo Project No.: 71-19-133-09
GAI Project No.: B190839.00

Dear Mr. Hoogland:

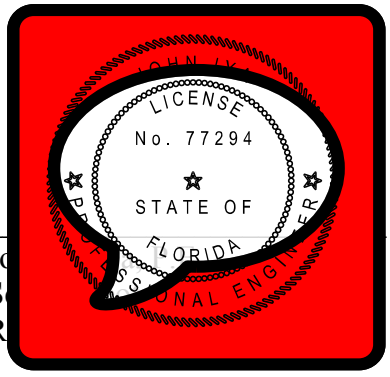
CSI Geo, Inc. has performed the authorized geotechnical exploration and evaluation for the proposed roadway and ponds for William Burgess Boulevard Extension in Nassau County, Florida. This report presents our understanding of the subsurface conditions along with our engineering evaluation and recommendations. The geotechnical exploration report for the proposed mast arms signal structures will be prepared and submitted under a separate cover once their exploration is performed.

We have enjoyed working with you on this project and look forward to working with you on future projects. If you have any questions concerning this report, please contact our office.

Sincerely,

CSI Geo, Inc.

Nader Amer, Ph.D
Geotechnical Engineer



Tel.: (904) 641-1993 Fax: (904) 641-0057 www.csi-geo.com

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

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Grain Size Distribution Curves

Appendix D – General Information
Key to Soil Classification
Field and Laboratory Test Procedures

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1.0 PROJECT INFORMATION

1.1 General Project Information

This roadway geotechnical exploration and evaluation report has been prepared for the proposed William Burgess Boulevard Extension in Nassau County Florida. Based on the information provided to us, we understand that the project will extend the existing William Burgess Boulevard from US 17 (SR 15) at the west to Miner Road in Nassau County, Florida. The overall project length is approximately 9,100 feet (1.7 miles). Other elements of the project consist of the construction of retention ponds and mast arms signal structures.

This report presents our understanding of the subsurface conditions along with our engineering evaluation and recommendations for the new roadway and ponds. The geotechnical exploration report for the proposed mast arms signal structures will be prepared and submitted under a separate cover, once their exploration is performed.

Information about this project has been provided to us by Ronald F. Hoogland, P.E. of GAI Consultants (GAI). The information provided us included:

- Roadway Design Files in DGN format
  Prepared by: GAI
  Received: June 12, 2020

1.2 Existing Conditions and Project Description

The proposed roadway alignment begins from just west of US 17 (SR 15) and traverses east, (**Photo No. 01**) then southeast through heavily wooded grounds for a distance of about 3,500 feet where it turns east through wetlands for a distance of about 300 feet. For a distance of about 2,000 feet, the proposed roadway traverses southeast through heavily wooded grounds from the wetlands to intersect Yulee High School southern access gravel road (**Photo No. 02**) where it turns east along the access road through open flat grounds to Miner Road for a distance of approximately 3,300 feet.

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Photo No. 01: Proposed William Burgess Boulevard Looking East from US 17 (SR 15)



Photo No. 02: West End of Yulee High School Access Road Looking West

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Based on the information provided to us, we understand that the project will construct a new two to three lane undivided urban connector with 12-foot travel lanes, turn lanes and curb and gutter. The project will also construct three retention ponds (Pond Sites 1 through 3), a roundabout at the proposed intersection with Theresa Road and another roundabout at Miner Road.

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2.0 GEOTECHNICAL EXPLORATION

2.1 Field Exploration

The subsurface exploration consisted of auger borings, Standard Penetration Test (SPT) borings and Limerock Bearing Ratio (LBR) testing of bulk samples. The auger borings, SPT borings, and bulk sample locations are shown on the Field Exploration Plan sheets included in **Appendices B and C**. The locations of the borings were selected and located in the field by GAI. Some boring locations were adjusted in the field due to maintenance of traffic considerations and buried utilities. Survey information was provided by GAI. A brief discussion of the drilling, sampling, and field testing techniques used during the field investigation program are provided in the Field and Laboratory Test Procedures sheets presented in **Appendix D**.

The General Subsurface Profiles sheets for the roadway and ponds, included in **Appendices B and C** respectively, indicate the penetration resistance and present the soil conditions encountered at each boring location. In this presentation, soil strata encountered by the borings are classified using the AASHTO Soil Classification System, and the soil strata are identified by numbers as shown on the General Subsurface Profiles sheets. The numbers used to identify soil strata refer to the soil description as outlined on the respective Soil Survey Sheets also included in **Appendices B and C**. Soil samples obtained during the field exploration were first visually classified in the field and then reclassified visually in the laboratory by a geotechnical engineer. Representative soil samples were also tested in the laboratory for a more definitive assessment.

The Auger Boring Records and SPT Boring Logs included in **Appendices B and C** present the descriptions of the subsurface soils, the groundwater levels encountered at the time of drilling, and the estimated seasonal high water levels at each boring location. The stratification lines and depth designations on the boring records and logs represent the approximate boundary between the various soils encountered, and the transition from one stratum to the next should be considered approximate.

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2.1.1 Roadway

The proposed new roadway extension and roundabouts were explored by means of a total of 98 auger borings A-1 through A-95, A-18A, A-18B and A-37A. The exploration generally consisted of five-foot deep auger borings every 100 feet of alignment with one of every five borings taken to a depth of 20 feet below the existing ground surface. Efforts were made to stagger the borings left and right of the centerline of the roadway.

A total of 12 pavement cores (C-1 through C-12) were also taken along the existing pavements of William Burgess Boulevard, US 17 (SR 15), Yulee High School Access Road, Miner Road and Theresa Court to evaluate the thickness of the existing pavement system layers. Additionally, seven LBR test samples (LBR-1 through LBR-7) were taken from the existing subgrade within the limits of the proposed roadway for laboratory testing. The general locations of the auger borings, SPT borings, pavement cores, and LBR test samples, are shown on the Field Exploration Plan included in **Appendix B**.

2.1.2 Ponds

The areas of the proposed pond sites were explored by means of a total of 12 Standard Penetration Test (SPT) borings PB-1 through PB-12 drilled with continuous sampling to a depth of 20 feet below the existing ground surface. Pond site 1 was explored by means of test borings (PB-1 through PB-3), Pond site 2 was explored by means of test borings (PB-4 through PB-6), and test borings (PB-7 through PB-12) were placed in the areas of Pond site 3.

2.2 Laboratory Testing

Quantitative laboratory testing was performed on representative soil samples recovered from the field exploration. These tests were performed to better define the physical properties of the soils encountered. The laboratory tests were performed to determine the percent fines, percent organics, natural moisture contents, gradation and Atterberg limits are presented in the Summary of Laboratory Test Results and Soil Survey sheets presented in **Appendix B and C.**

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2.3 Environmental Corrosion Testing

Environmental classification tests were performed on eight (8) soil samples selected from the roadway exploration borings and four (4) soil samples from the pond borings. The tests were conducted in order to define the electrical resistivity, chlorides content, sulfates content, and pH of the samples. The laboratory test data was used to determine the substructure environmental classification in accordance with the FDOT Structures Design Guidelines Manual. The Environmental Corrosion Test Results for the roadway and ponds are included in **Appendices B and C** respectively.

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3.0 SITE AND SUBSURFACE CONDITIONS

3.1 General

The General Subsurface Profiles presented in **Appendices B and C** illustrate the subsurface conditions encountered. The profiles and the soil conditions outlined below highlight the major subsurface stratifications. The Auger Boring Records and SPT Boring Logs included in **Appendices B and C** should be consulted for more detailed soil conditions encountered at each boring. When reviewing the Auger Boring Records, SPT Boring Logs, General Subsurface Profiles, and the subsurface conditions outlined below it should be understood that the soil conditions may vary between boring locations, and that the transition between soil strata may be gradual.

3.2 Subsurface Soils Conditions

3.2.1 Roadway

Soils encountered during our geotechnical subsurface investigation program for roadway were classified based on the AASHTO Soil Classification System and were found to consist of the following strata:

Stratum Number	Soil Description	AASHTO Classification
1	Gray, Reddish Brown and Light Brown to Dark Brown Fine SAND; Slightly Silty Fine SAND; Slightly Organic Fine SAND; with trace of roots and limestone fragments	A-3
2	Dark Brown and Brown Silty Fine SAND	A-2-4
3	Gray and Brown Clayey Fine SAND (LL<50)	A-2-7 /A-7-6
4	Gray and Brown Sandy CLAY (LL≥50)	A-7-6
5	Dark Gray Organic Fine SAND; Organic Slightly Silty Fine SAND (Organic Content = 5% - 20%)	A-3
6	Topsoil; Dark Gray Highly Organic Fine SAND; Highly Organic Silty Fine SAND (Organic Content = 20% - 75%)	A-8

Review of the auger borings performed indicates that the existing soils generally consist of fine sands and slightly silty fine sands classified as (A-3, Stratum No. 1) with isolated and random deposits of silty fine sands (A-2-4, Stratum No. 2). Random and inter-bedded deposits of clayey

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fine sands (A-2-7/A-7-6, Stratum No. 3) and sandy clays (A-7-6, Stratum No. 4) were encountered in some of the auger borings, generally at varying depths below the ground surface.

Deposits of unsuitable organic fine sands and organic slightly silty fine sands classified as (A-3, Stratum No. 5) and topsoil and highly organic soils (A-8, Stratum No. 6) were encountered in borings A-4, A-29, A-34, A-37A, A-37 through A-41, A-45 and A-59 generally in the upper 0.5 to 4.5 feet of depth below the existing ground surface.

3.2.2 Ponds

Soils encountered during our geotechnical subsurface investigation program for the ponds were classified based on the AASHTO Soil Classification System and were found to consist of the following strata:

Stratum Number	Soil Description	AASHTO Classification
11	Gray and Light Brown to Dark Brown Fine SAND; Slightly Silty Fine SAND; Slightly organic Fine SAND	A-3
12	Dark Brown Silty Fine SAND	A-2-4
13	Gray and Brown CLAY with SAND (LL>50)	A-7-6

Review of SPT borings performed in the areas of the ponds indicates that the existing soils generally consist of loose to dense sands classified as (A-3, Stratum No. 11), with isolated and random deposits of silty sands (A-2-4, Stratum No. 12), and stiff sandy clays (A-7-6, Stratum No. 13) until the boring termination depth of 20 feet below the existing ground surface.

3.3 Groundwater Level

The groundwater level was measured and recorded as encountered at the time of drilling. The depths of the groundwater level and estimated seasonal high water level at each test location are marked on the General Subsurface Profiles and the Report of SPT Borings sheets presented in **Appendices B and C**.

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Determination of the estimated seasonal high groundwater table was made using the methodology described by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS). In sandy soils the method involves examining soil cuttings from an auger boring for subtle changes in root content, soil coloration, and the presence of a polychromatic matrix. These subtle changes are indicators of the highest level the groundwater level has been for a prolonged period. In heavily developed commercial areas, the method may produce misleading results, since man-induced drainage modifications are not taken into consideration.

Fluctuations of the groundwater level should be anticipated as a result of seasonal climatic variations, surface water runoff patterns, tidal fluctuations of adjacent water bodies, construction activities, and other factors. During seasonal high precipitation and high tide periods, groundwater levels can be expected to rise above the levels recorded during this exploration. Therefore, design drawings and specifications should account for the possibility of groundwater level variations, and construction planning should be based on the assumption that such variations will occur.

3.3.1 Roadway

Where encountered, the depth of groundwater level measured at the time of drilling ranged from 3.5 feet above the existing ground surface to 9.0 feet (Elev. +20.9 to +29.8') below the existing ground surface. Groundwater level was not encountered in some borings performed. The estimated seasonal high groundwater table (ESHWL) in the borings ranged from above the existing ground surface to 8.0 feet (Elev. +20.5' to +30.8') below the existing ground surface.

The bottom of the roadway base course should achieve the minimum clearance above the ESHWL according to the FDOT Specifications. Therefore, where the ESHWL is in conflict with the base, the grades must either be raised, or black-base/underdrains should be used in place of limerock base.

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3.3.2 Ponds

The depth of groundwater level measured at the time of drilling ranged from about 1.0 to 4.5 feet (Elev. +21.1' to +25.7') below the existing ground surface for the ponds. The estimated seasonal high ground water table for the borings ranged from about 0 to 3.5 feet (Elev. +22.1' to +26.7') below the existing grades.

3.4 Environmental Classification Test Results

Results of the environmental corrosion tests for roadway and ponds are in the Environmental Corrosion Test Results sheets included in **Appendices B & C**, respectively. The laboratory test data was used to determine the substructure environmental classification in accordance with the FDOT Structures Design Guidelines Manual. Based on the test results, the substructures environmental classification for the roadway soils was found to be "Slightly Aggressive" to "Extremely Aggressive" for both steel and concrete. The substructures environmental classification for the pond soils was found to be "Extremely Aggressive" for steel and concrete.

3.5 Asphalt and Limerock Core Thickness

The existing roadway asphalt pavement system was cored at 12 locations along William Burgess Boulevard, US 17 (SR 15), Yulee High School Access road, Miner Road and Theresa Court to evaluate the thickness of the existing pavement system layers. In general, the asphalt thickness was found to range from 2 to 4½ inches over 4 to 11 inches of limerock base material. A table of Summary of the Pavement System Layer Thickness is included in **Appendix B**.

3.6 Limerock Bearing Ratio Test Results

A total of seven (7) Limerock Bearing Ratio and Modified Proctor compaction tests were performed on bulk samples obtained from the proposed roadway subgrade soils. The LBR test results indicate maximum LBR values ranging from 26 to 29. The LBR value is based on assumed soil compaction criteria equal to 100 percent of the Modified Proctor maximum dry density. The LBR and Modified Proctor compaction test data are presented in **Appendix B**. The recommended pavement subgrade design parameter is discussed in Section 4.4.

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4.0 GEOTECHNICAL ENGINEERING EVALUATION AND RECOMMENDATIONS

4.1 Basis for Evaluation & Recommendations

Geotechnical evaluation and recommendations as presented in this report are based on our site observations, field and laboratory test data obtained, and our understanding of the project information as previously described in this report. Should the project information change, or if any site or subsurface conditions different from the data obtained in the exploration are encountered during construction, our office should be informed so that appropriate re-evaluation may be made.

4.2 Roadway Subgrade Evaluation

In general, we consider the subsurface conditions along the improvement area to be favorable for support of a flexible pavement system if a properly prepared subgrade is provided and provided that unsuitable organic soils as well as the plastic and highly plastic soils are removed as recommended. However, a certain degree of site preparation, consisting of the removal of any vegetation, existing pavements, root systems, surficial topsoil, and unsuitable plastic materials, will be required. This should be followed by placement of select backfill or fill as needed to achieve the design finished pavement grades.

As mentioned earlier, auger borings performed indicate that the existing soils generally consist of fine sands and slightly silty fine sands (A-3, Stratum No. 1) with occasional and random deposits of silty fine sands (A-2-4, Stratum No. 2). Random and inter-bedded deposits of clayey fine sands (A-2-7/A-7-6, Stratum No. 3) and sandy clays (A-7-6, Stratum No. 4) were encountered in some of the auger borings, generally at varying depths below the ground surface.

Deposits of unsuitable organics soils classified as A-3, Stratum No. 5 and topsoil and highly organic soils (A-8, Stratum No. 6) were encountered, in borings A-4, A-29, A-34, A-37A, A-37 through A-41, A-45 and A-59 generally in the upper 0.5 to 4.5 feet of depth below the existing ground surface.

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The majority of the subsurface soils consist of A-3 soils (Stratum No. 1) which are considered as suitable select material. The occasional A-2-4 soils (Stratum No. 2) can be treated as select material, however, this stratum may contain excess moisture and may be difficult to dry and to compact when it is situated directly beneath the stabilized subgrade portion of the roadway. The A-2-7/A-7-6 soils (Stratum Nos. 3 and 4) should be considered as plastic and highly plastic materials respectively and should be rendered unsuitable for the subgrade portion of the roadway.

Organic soils (A-3, Stratum No. 5) and highly organic soils (A-8, Stratum No. 6) should be considered unsuitable for use in construction. Excavation and removal of unsuitable organic materials as well as plastic and highly plastic soils should be performed in accordance with the Applicable Standard Specifications. Estimates of the limits of organics soils and plastic soils encountered in the borings within the upper 5 feet of depth are summarized in the following table:

Limits of Plastic Soils and Soils with Organics

Boring Nos.	Stratum No.	Boring Station	Removal Limits
A-4	5 and 6	13+95	13+50 to 14+50
A-29	5 and 6	38+96	38+50 to 39+50
A-34	5 and 6	43+88	43+50 to 44+50
A-37A to A-41	4, 5 and 6	46+50 to 51+50	46+25 to 51+75

It is very likely that the excavated suitable soils will get mixed with plastic soils and organic soils during construction in these areas. Therefore, it is our opinion that the excavated material, in the areas of these borings be regarded as unsuitable for backfill purposes. We also recommend that allowance be made for possible overruns in quantities of subsoil removal and replacement with select backfill.

4.3 Suitability of Pond Borrow Materials for Construction

Based on our findings, the proposed ponds are generally underlain by loose to dense sands (A-3, Stratum No. 11) with isolated and random deposits of silty sands (A-2-4, Stratum No. 12) and

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stiff sandy clays (A-7-6, Stratum No. 13) until the boring termination depth of 20 feet below the existing ground surface.

Fine sands and slightly silty sands (A-3, Stratum No. 11) are considered as select material. Silty sands (A-2-4, Stratum No. 12) can be treated as select material; however, this stratum may contain excess moisture and may be difficult to dry and to compact. Sandy clays (A-7-6, Stratum No. 13) should be regarded as highly plastic material.

We recommend that any plastic and highly plastic (A-7-6, Stratum No. 13) soils, when encountered, be stockpiled separately from the select soils in order to avoid contaminating the select material with plastic and highly plastic soils. This practice should be followed whenever plastic and highly plastic soils, or soils suspected of being plastic and highly plastic are encountered. In addition, an extensive dewatering system will be required in order to lower the groundwater level in the ponds prior to the pond excavation. This practice should allow the select (A-3, Stratum No. 11) soils to drain adequately prior to being excavated and stockpiled. Without a dewatering system, the stockpiled material will stay saturated, thus being difficult to dry and to compact for backfilling purposes.

4.4 Pavement Subgrade Design Parameters

The subgrade design LBR value was obtained from the lower of the values of design LBRs determined using the +2% of Optimum Method and the 90% Method described in the FDOT Soils and Foundations handbook. Based on the results of the LBR testing and analysis performed, the design LBR value for use in the determination of the Soil Support Value (SSV) is 24.

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5.0 GENERAL SITE PREPARATION AND CONSTRUCTION PROCEDURE

5.1 Surface Water Control

Any surface water runoff that is encountered should be controlled during the initial site preparations. Depending on the climatic conditions at the time of construction, surface water control may be required during subgrade preparation. In order to control the water, interceptor perimeter drainage ditches should be excavated immediately adjacent to the construction areas for temporary collection of surface water runoff. Open pumping of collected waters may be necessary to maintain low water levels. Construction areas should be graded to assure drainage of stormwater away from immediate areas of preparation.

5.2 Groundwater Control

Lowering of groundwater levels by 2 to 3 feet, if needed can be achieved in general by pumping from barrel sumps situated in perimeter ditches or pits. Groundwater should be maintained at least 1 foot below the bottom of any excavations made during construction and 2 feet below the surface of any compaction operations. Where deeper or more positive groundwater control is desired for prolonged periods, a well point system may be required. Artesian flow was not encountered during our exploration. However, if encountered, the Contractor should be prepared to handle and control artesian head levels of +30 to +33 feet (NGVD29).

5.3 Standard Roadway Clearing, Grubbing, and Surface Stripping

All vegetation, topsoil, construction debris, roots and organic zones, plastic soils, and obstructions should be stripped and removed from the construction area. Standard clearing and grubbing should be conducted in accordance with the Applicable Standard Specifications.

5.4 Utility Lines Subgrade Preparation

Based on the field exploration program and the data collected, the majority of the existing subgrade soils generally consist of suitable sands (A-3, Stratum No. 1), occasional silty sands (A-2-4, Stratum No. 2) and random deposits of clayey sands (A-2-7/A-7-6, Stratum No 3) and sandy clays (A-7-6, Stratum No. 4). Silty sands (Stratum No. 2) can be considered suitable, however, they may contain excess moisture and may be difficult to dry and compact. Plastic

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clayey sands (A-2-7/A-7-6, Stratum No 3) and highly plastic clays (A-7-6, Stratum No. 4) should be anticipated during utility installation and are considered unsuitable for backfilling and compaction purposes.

When plastic soils (A-2-7/A-7-6, Stratum No 3) and highly plastic soils (A-7-6, Stratum No. 4) are encountered along the alignment of utility lines or other proposed structures, they should be excavated to a minimum depth of one foot below the design invert elevations and replaced with suitable A-3 fill material. Organic soils classified as A-3 (Stratum No. 5) and highly organic soils classified as A-8 (Stratum No. 6) soils should be removed in their entirety and replaced with clean sands. Excavation of unsuitable material should be performed in accordance with the Applicable Standard Specifications.

As mentioned in section 4.2 of this report, it is very likely that the excavated suitable soils will get mixed with plastic soils and organic soils during construction in certain areas. Therefore, it is our opinion that the excavated material, in the areas of borings A-4, A-29, A-34, A-37A, A-37 through A-41, A-45 and A-59 be regarded as unsuitable for backfill purposes. We also recommend that allowance be made for possible overruns in quantities of subsoil removal and replacement with select backfill.

5.5 Removal of Unsuitable Materials and Excavation Backfilling

Where organic soils, Muck, plastic or highly plastic clayey sands and sandy clays or other material considered unsuitable exist within the limits of the roadway, they should be excavated and backfilled with suitable material. Removal of unsuitable materials should be performed in accordance with the Applicable Standard Specifications.

Groundwater level during construction will be required during the removal of unsuitable material so that the process may be performed “in the dry” condition. Undercutting below the groundwater level could result in inadequate removal of required materials and could make backfill placement and compaction rather difficult. Surface water and groundwater controls as outlined in this report should be used as necessary. Also due to the potential for near surface groundwater levels below the subgrade, the use of vibratory compaction equipment could

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produce temporary instability or "pumping" in the soils being compacted due to excess pore water pressure being generated in the soil by the compaction process. In such event, the vibratory component of the compactor should be disengaged or the compaction process temporarily halted in order to allow time for the excess pore water pressure to dissipate.

5.6 Roadway Subgrade Stabilization and Compaction

The upper foot of the subgrade soil should also be stabilized to achieve an LBR Value of 40 with a maximum plasticity index of 6. The stabilization procedures and the stabilizing materials should be as presented in the Applicable Standard Specifications. The pavement subgrade should be compacted to meet the required densities as presented in the Applicable Standard Specifications. The vibratory equipment discussed previously should be used to compact the sandy subgrade soils.

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6.0 CONSTRUCTION MONITORING AND TESTING GUIDELINES

Fill placement and compaction operations should be observed and documented by a qualified engineering technician working under the direction of the Engineer. Significant deviations, either from the applicable specifications or from good practice, should be brought to the attention of the Geotechnical Engineer for evaluation and appropriate recommendations.

Prior to initiating any of the compaction operations, we recommend that representative samples of the backfill or structural fill material to be used and acceptable exposed in-place soils to be collected and tested to determine their compaction and classification characteristics. The maximum dry density, optimum moisture content, gradation and plasticity characteristics should be determined. These tests are needed for compaction quality control of the backfill or structural fill and existing soils and to determine if the fill material is acceptable.

A representative number of in-place field density tests should be performed on each lift for the compacted backfill materials. Also, where no additional fill is needed, in-place field density tests should be performed on existing soils to confirm that the required degree of compaction has been obtained.

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7.0 REPORT LIMITATIONS

The subsurface exploration program including our evaluation and recommendations was performed in general accordance of accepted geotechnical engineering principles and standard practices. CSI Geo is not responsible for any independent conclusions, opinions, or interpretations made by others based on the data presented in this report.

This report does not reflect any variations that may occur adjacent or between soil borings. The discovery of any site or subsurface condition during construction that deviates from the findings and data as presented in this report should be reported to CSI Geo for evaluation. If the location of the proposed project features is changed, our office should be contacted so our recommendations can be re-evaluated. We recommend that CSI Geo be given the opportunity to review the final design drawings and specifications to ensure that our recommendations are properly included and implemented.

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Appendix A - Maps

Site Location Map

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Site Location Map

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SITE LOCATION MAP

WILLIAM BURGESS BOULEVARD EXTENSION
NASSAU COUNTY, FLORIDA

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Appendix B – Roadway Soils Survey

Field Exploration Plan

Roadway Soil Survey

General Subsurface Profiles

Auger Boring Records

Existing Pavement System Thickness

Summary of Laboratory Test Results

Environmental Corrosion Test Results

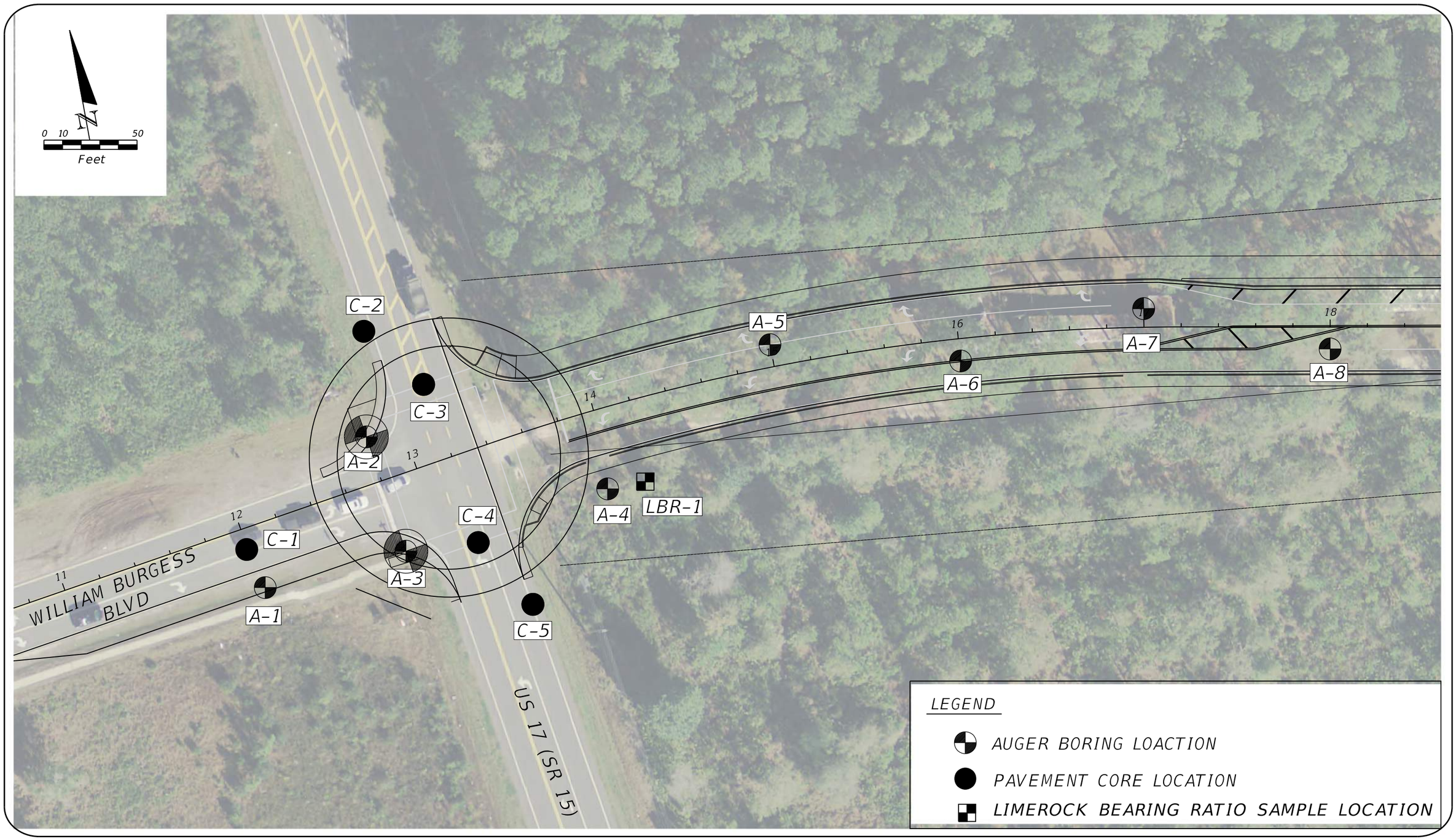
Grain Size Distribution Curves

Summary of Limerock Bearing Ratio Test Results

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Field Exploration Plan

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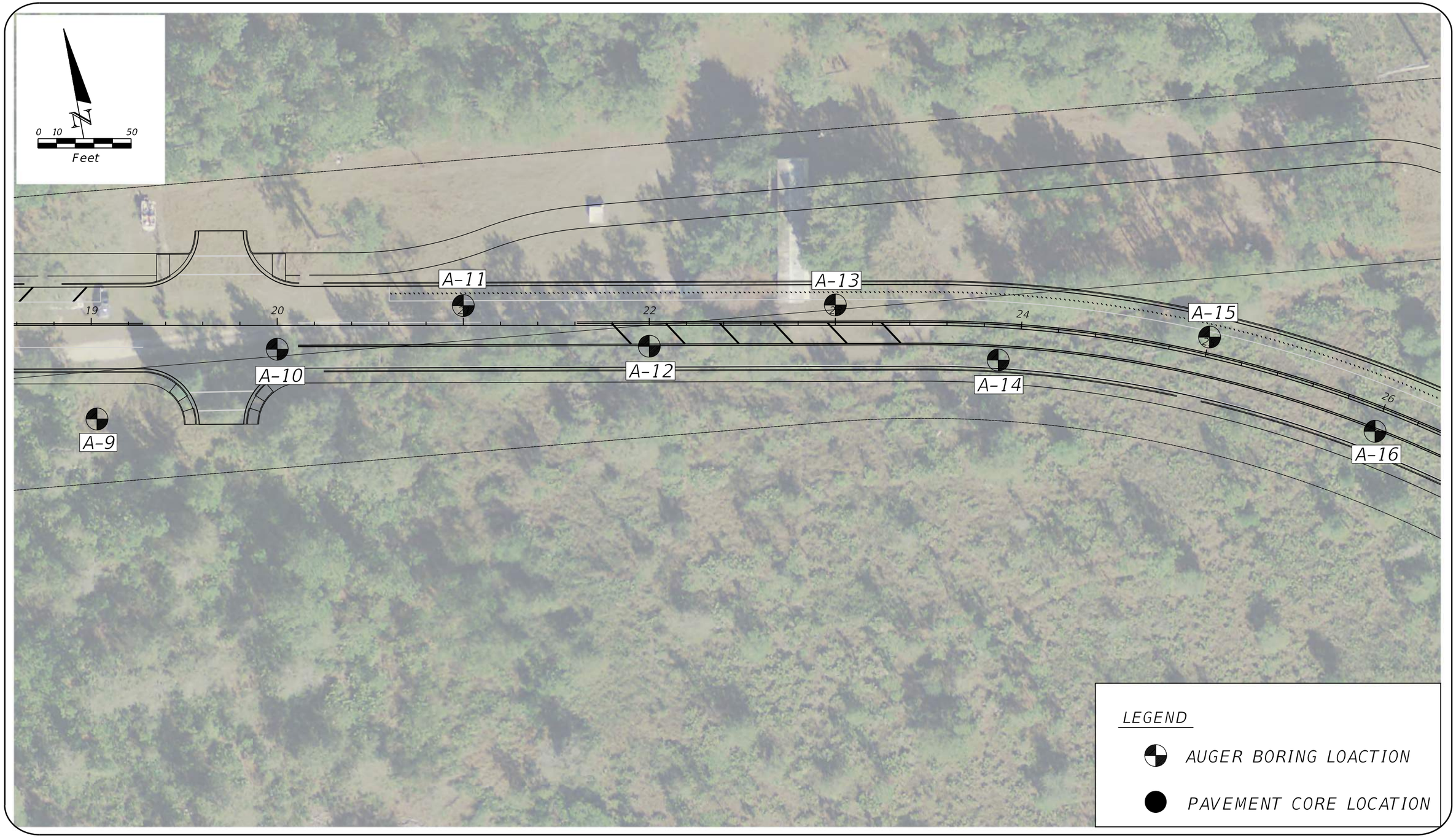
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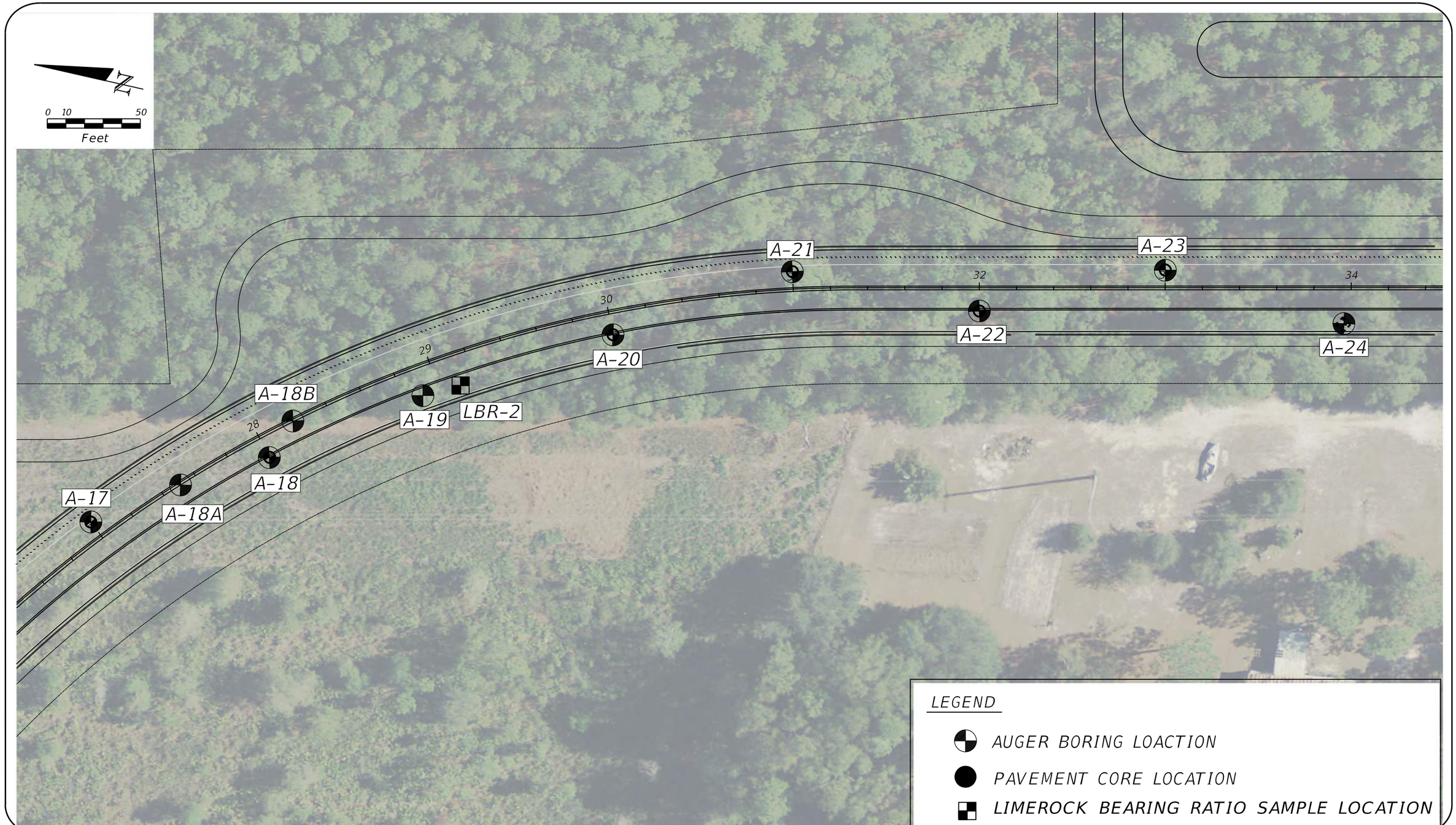
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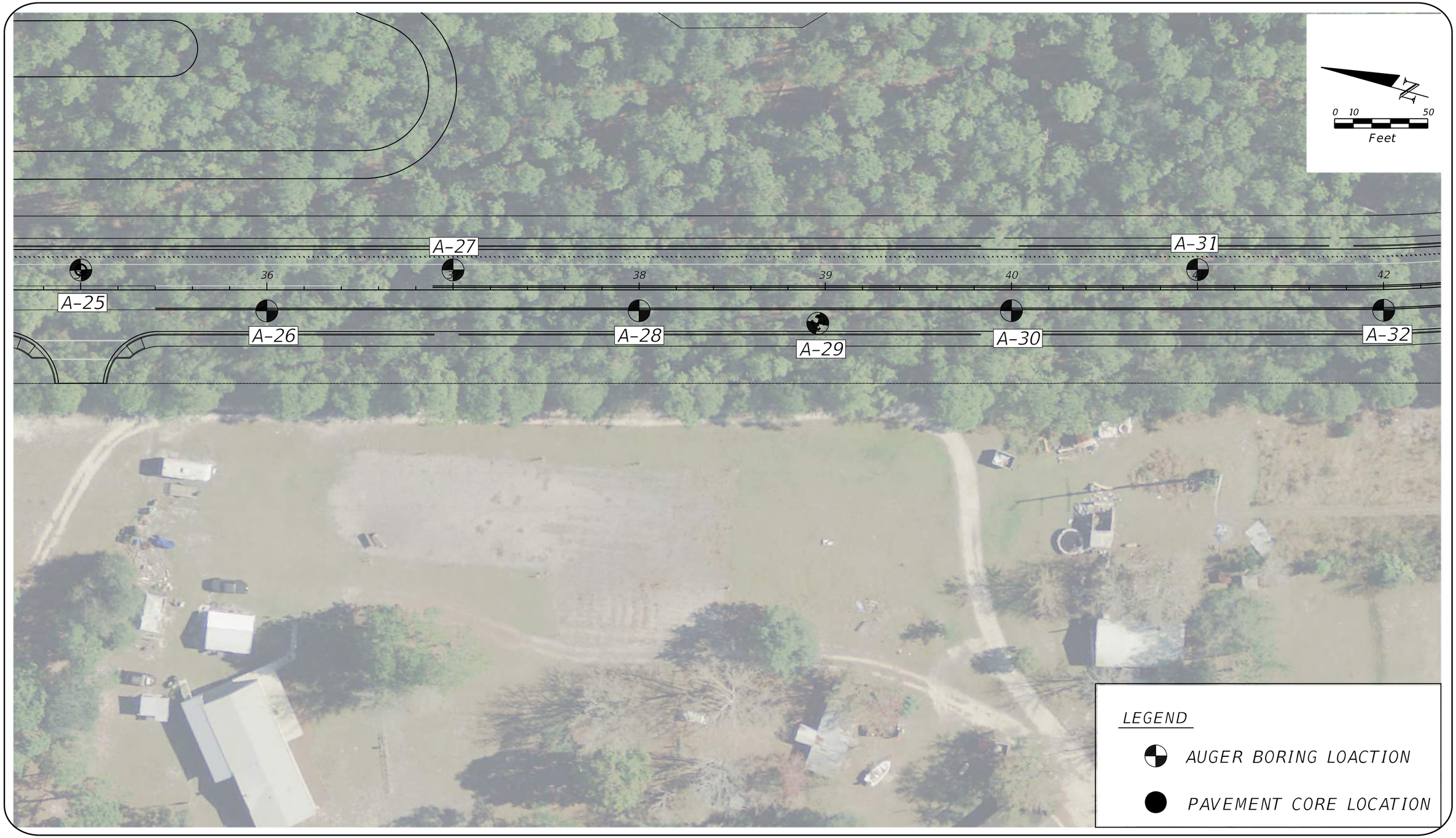
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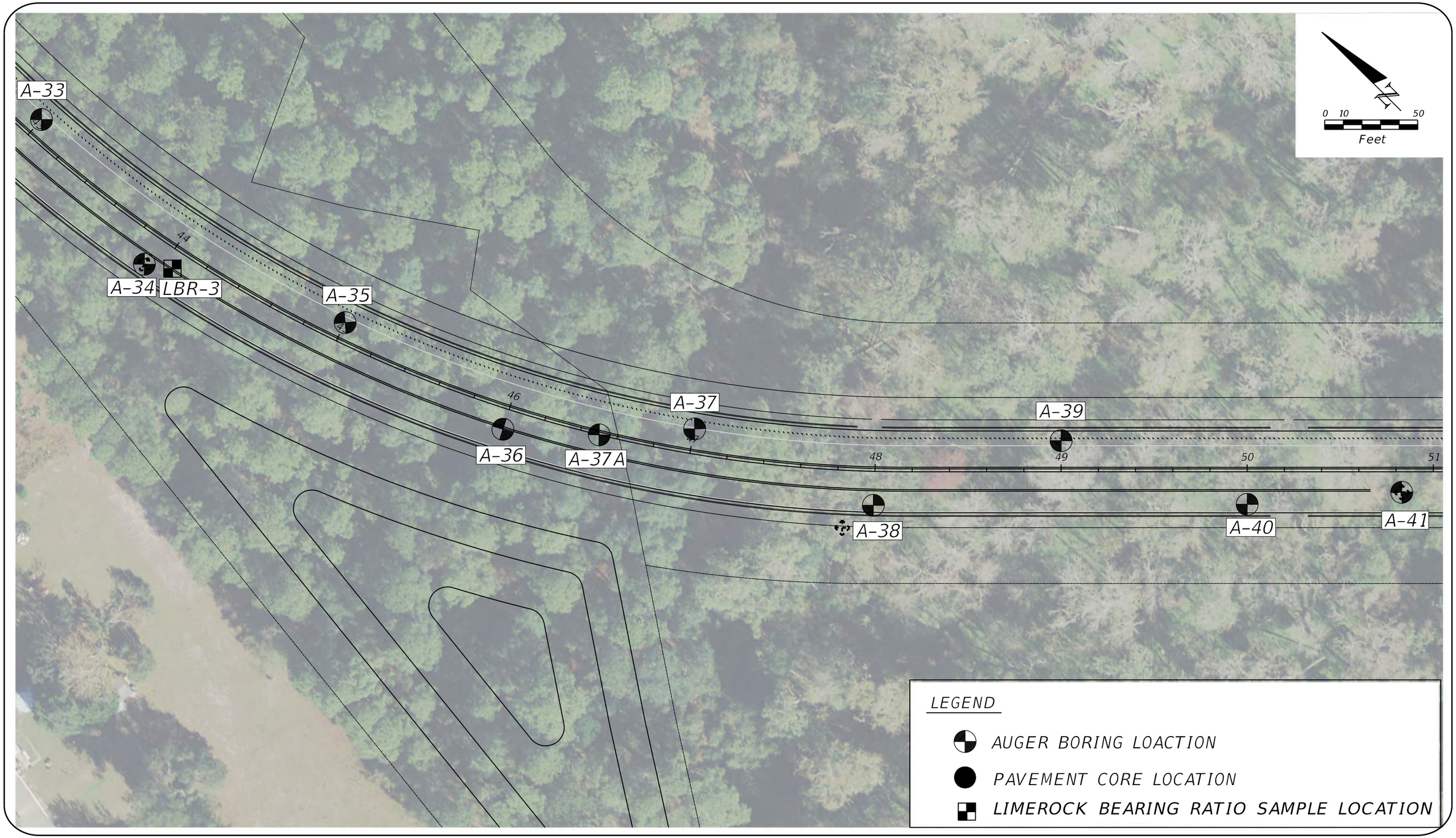
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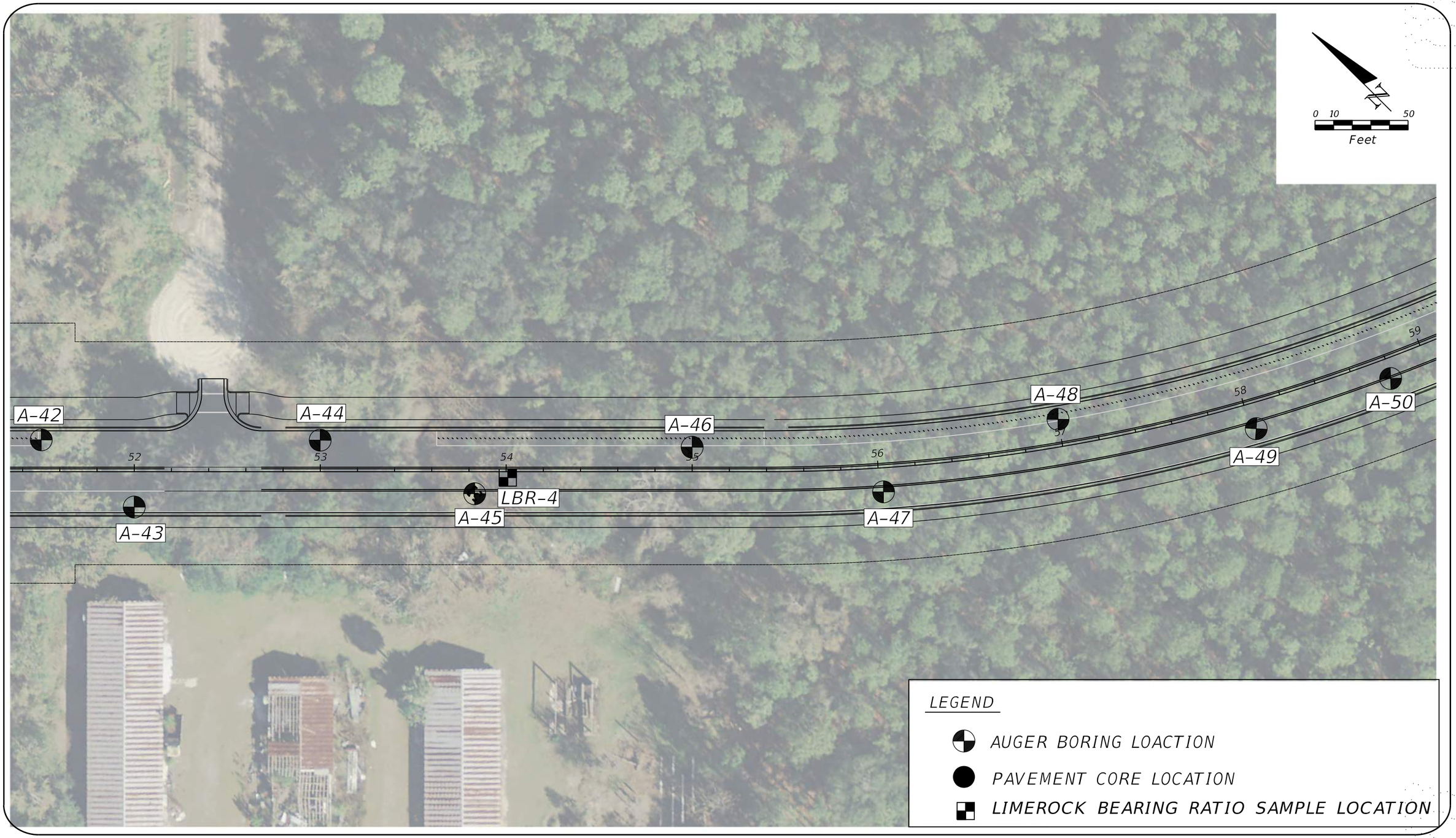
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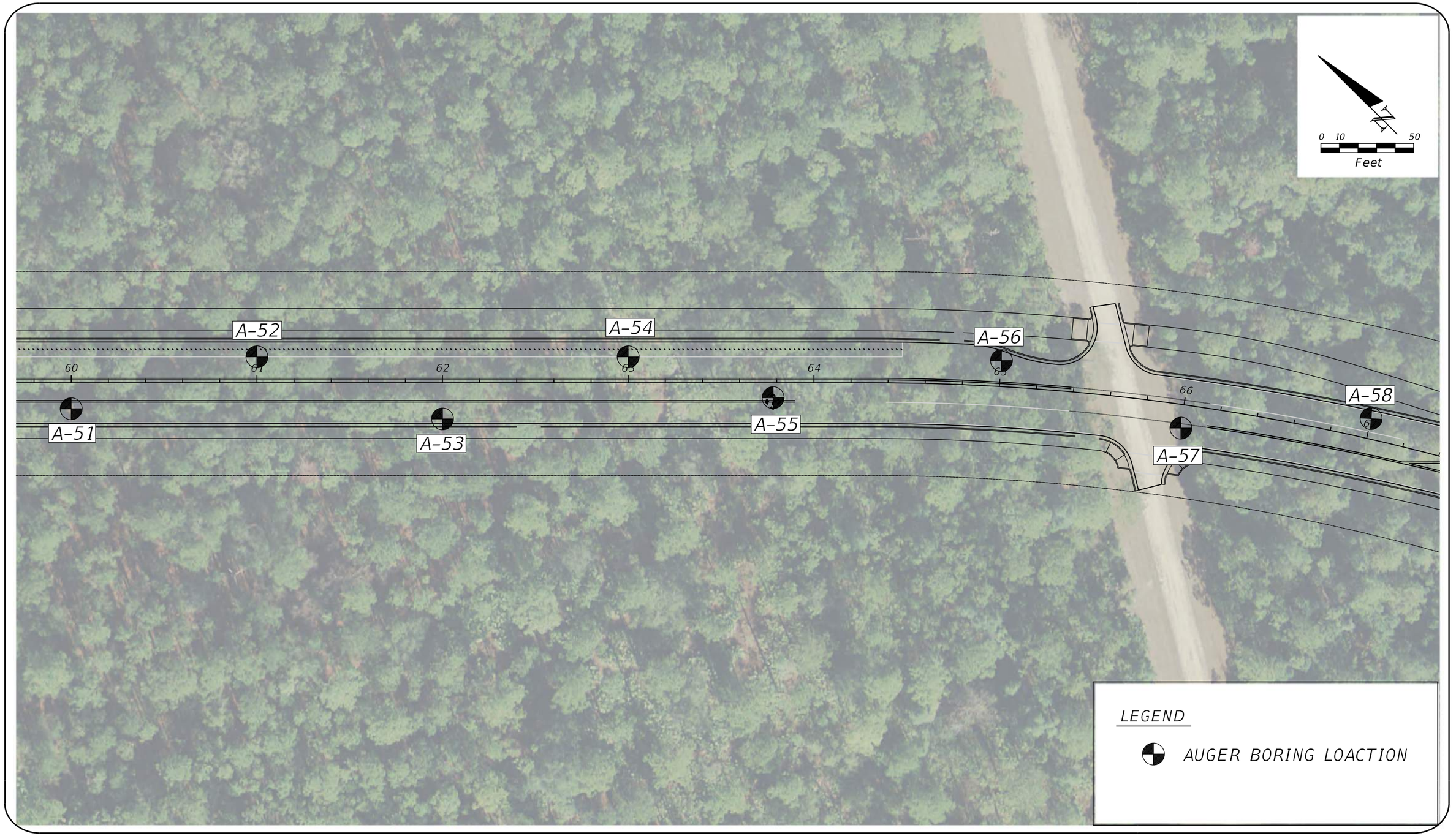
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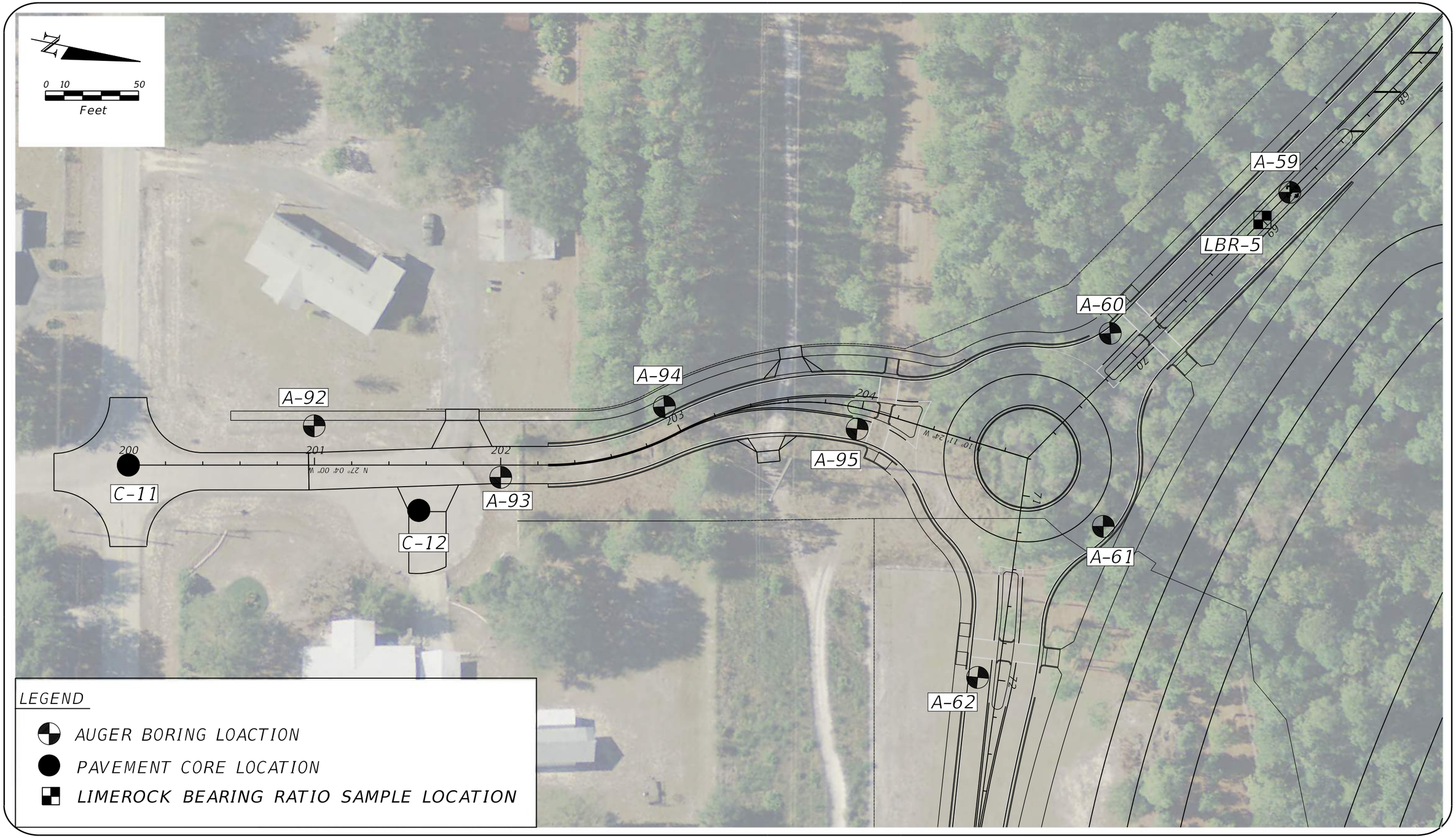
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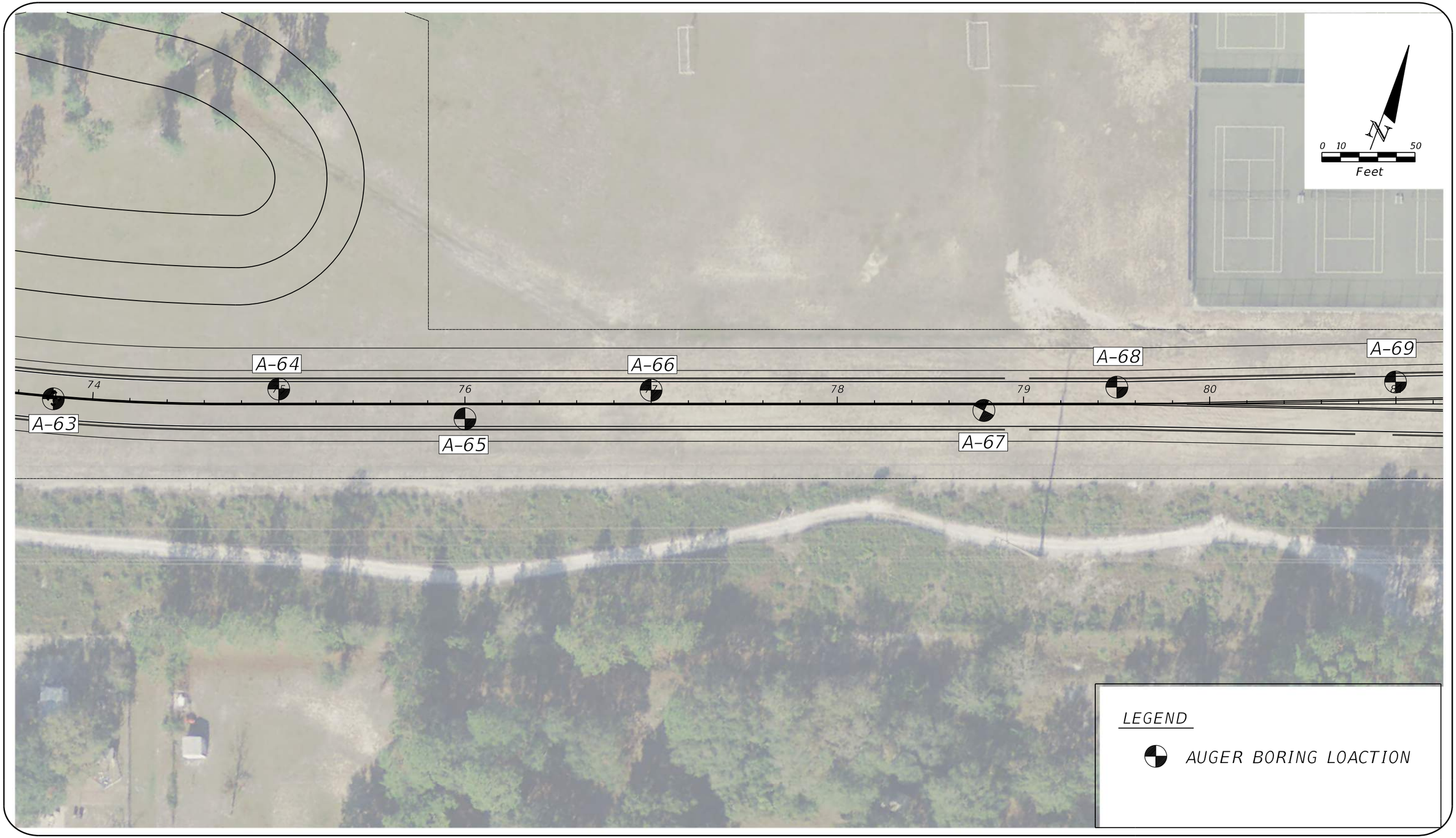
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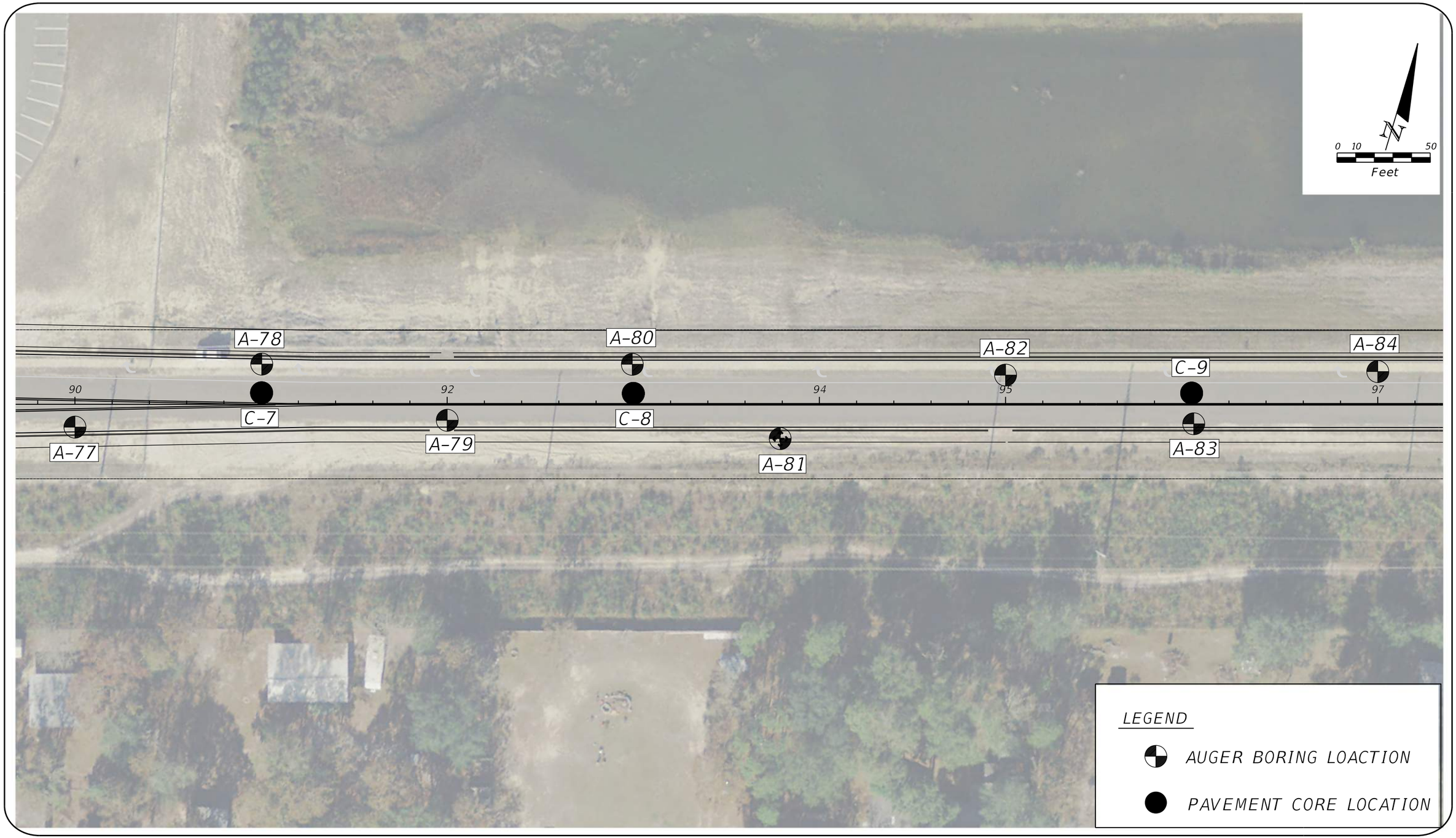
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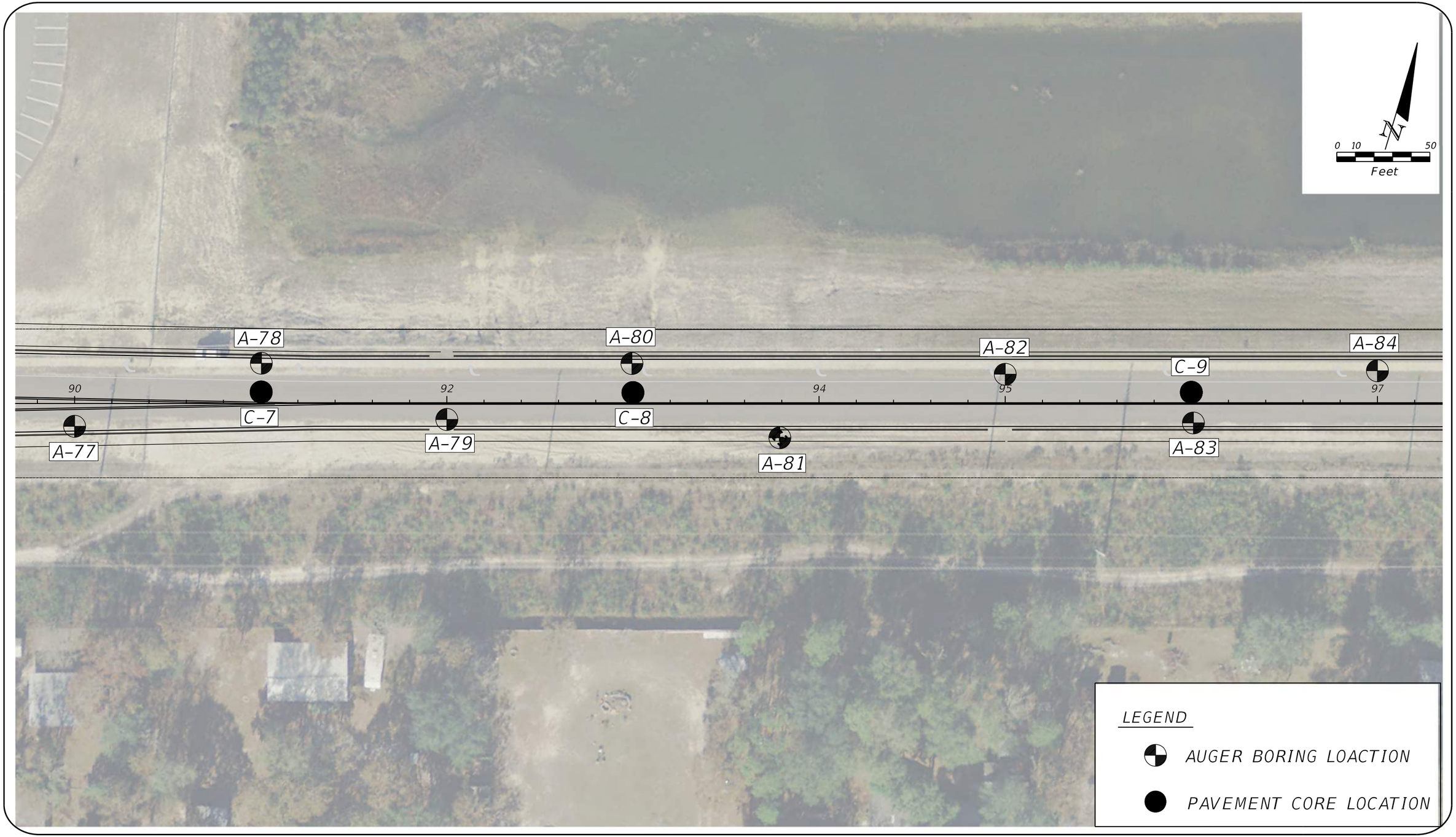
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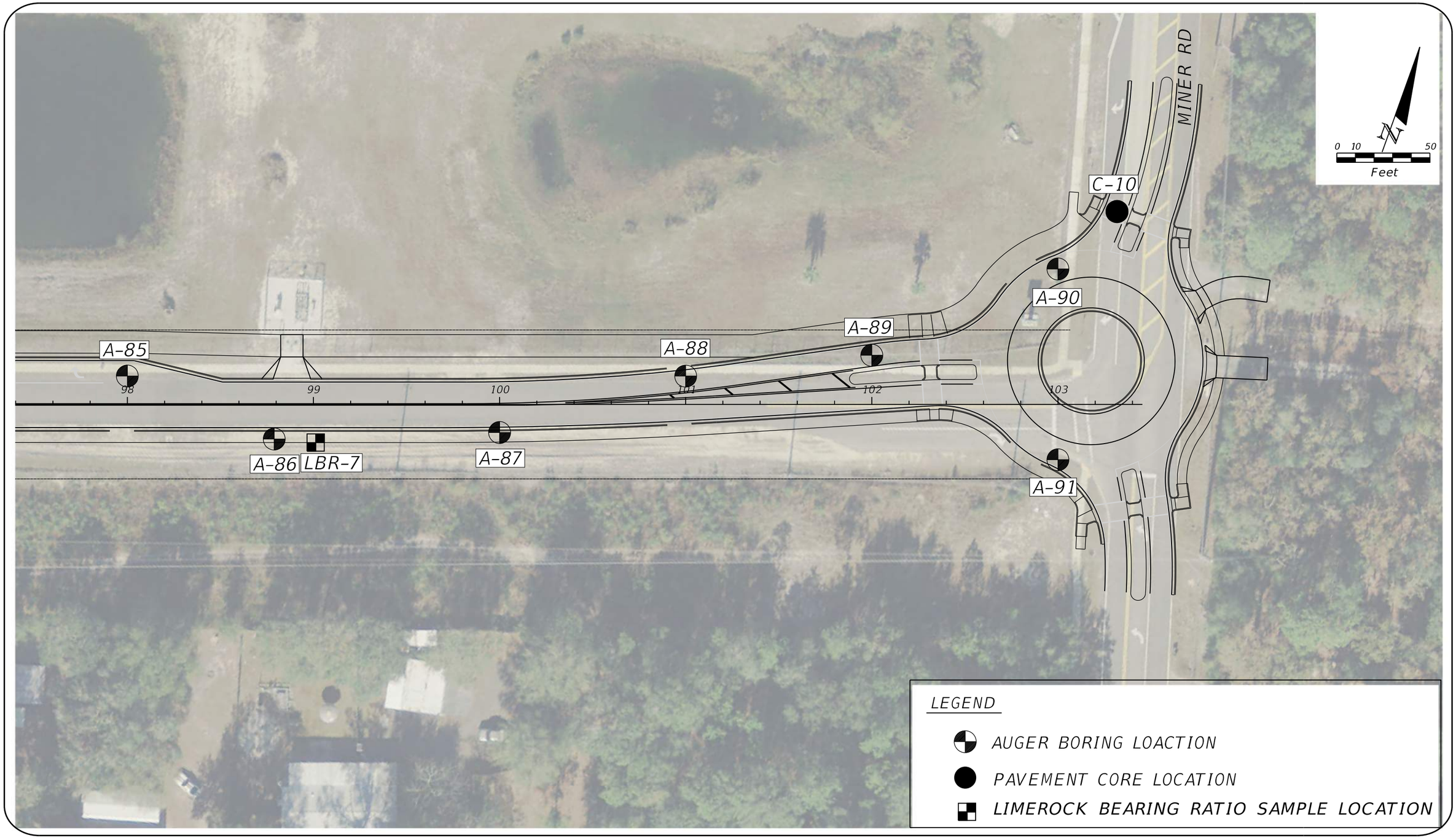
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Roadway Soil Survey

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

DATE OF SURVEY: APRIL 2020 TO MAY 2020
SURVEY MADE BY: CSI GEO, INC.
SUBMITTED BY: JOHN A. IYA P.E.

NASSAU COUNTY
ROADWAY SOIL SURVEY

DISTRICT: 2
ROAD NO.: -
COUNTY: NASSAU

PROJECT NAME: WILLIAM BURGESS BOULEVARD EXTENSION

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADWAY

SURVEY BEGINS STA. : 12+00 SURVEY ENDS STA. : 103+00 REFERENCE: ℄ CONST. WILLIAM BURGESS BLVD
SURVEY BEGINS STA. : 201+00 SURVEY ENDS STA. : 204+00 REFERENCE: ℄ CONST. THERESA CT

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)						ATTERBERG LIMITS (%)					L.B.R. TEST		ENVIRONMENTAL CLASSIFICATION		CORROSION TEST RESULTS				
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	NO. OF TESTS	L.B.R. RANGE	STEEL	CONCRETE	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	9	0.4-4.3	24	5-55	24	100	96-100	86-96	23-50	1-10	-	-	-	A-3	GRAY, REDDISH BROWN, AND LIGHT BROWN TO DARK BROWN FINE SAND; SLIGHTLY SILTY FINE SAND; SLIGHTLY ORGANIC FINE SAND; WITH TRACE OF ROOTS AND LIMEROCK FRAGMENTS	7	26-29	SA-EA	SA-EA	8	7,720-91,300	U	25-70	4.2-8.1
2	-	-	2	21-23	-	-	-	-	-	11	-	-	-	A-2-4	DARK BROWN AND BROWN SILTY FINE SAND	-	-	-	-	-	-	-	-	-
3	-	-	2	25-36	-	-	-	-	-	21-37	2	48-50	24-25	A-2-7/A-7-6	GRAY AND BROWN CLAYEY FINE SAND (LL<50)	-	-	-	-	-	-	-	-	-
4	-	-	2	34-55	-	-	-	-	-	53-61	2	58-97	37-72	A-7-6	GRAY AND BROWN SANDY CLAY (LL≥50)	-	-	-	-	-	-	-	-	-
5	5	5.0-11.1	5	29-50	5	100	98-99	90-94	31-34	5-7	-	-	-	A-3	DARK GRAY ORGANIC FINE SAND; ORGANIC SLIGHTLY SILTY FINE SAND (ORGANIC CONTENT = 5% - 20%)	-	-	-	-	-	-	-	-	-
6	1	24.7	1	64	-	-	-	-	-	11	-	-	-	A-8	TOPSOIL; DARK GRAY HIGHLY ORGANIC FINE SAND; HIGHLY ORGANIC SILTY FINE SAND (ORGANIC CONTENT = 20% - 75%)	-	-	-	-	-	-	-	-	-

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▼ - WATER TABLE ENCOUNTERED

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL

A.T. - AUGER BORING

U - COMPOUND TESTED FOR BUT NOT DETECTED

L.B.R. - LIMEROCK BEARING RATIO

SA - SLIGHTLY AGGRESSIVE; EA - EXTREMELY AGGRESSIVE

G.N.E. - GROUNDWATER NOT ENCOUNTERED

SH.N.E. - SEASONAL HIGH GROUNDWATER LEVEL NOT ENCOUNTERED

NOTES:

1. THIS SOIL SURVEY APPLIES TO ROADWAY SOILS ONLY.
2. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH TEST HOLE LOCATION. ANY STRATUM CONNECTING LINES SHOWN ARE FOR DESIGN PURPOSES ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIANCE BETWEEN BORINGS MAY OCCUR AND SHOULD BE ANTICIPATED.
3. THE MATERIAL FROM STRATUM NO. 1 IS SELECT MATERIAL AND APPEARS SATISFACTORY FOR USE WHEN UTILIZED IN ACCORDANCE WITH APPLICABLE STANDARD SPECIFICATIONS.
4. THE MATERIAL FROM STRATUM NO. 2 IS SELECT MATERIAL AND APPEARS SATISFACTORY FOR USE WHEN UTILIZED IN ACCORDANCE WITH APPLICABLE STANDARD SPECIFICATIONS. HOWEVER, THIS MATERIAL MAY RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
5. THE MATERIAL FROM STRATUM NO. 3 SHALL BE REGARDED AS PLASTIC MATERIAL.
6. THE MATERIAL FROM STRATUM NO. 4 SHALL BE REGARDED AS HIGHLY PLASTIC MATERIAL.
7. THE MATERIAL FROM STRATUM NO. 5 SHALL BE REGARDED AS ORGANIC MATERIAL.
8. THE MATERIAL FROM STRATUM NO. 6 SHALL BE REGARDED AS HIGHLY ORGANIC MATERIAL.
9. REMOVAL OF ORGANIC MATERIAL, HIGHLY ORGANIC MATERIAL, PLASTIC AND HIGHLY PLASTIC MATERIALS OCCURING WITHIN THE ROADWAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE STANDARD SPECIFICATIONS UNLESS OTHERWISE SHOWN IN THE PLANS. THE MATERIAL UTLIZED IN CONSTRUCTION SHALL BE PLACED IN ACCORDANCE WITH APPLICABLE STANDARD SPECIFICATIONS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHN A. IYA, P.E.
P.E. LICENSE NO.: 77294
CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD S., SUITE 200
JACKSONVILLE, FLORIDA 32246

NASSAU COUNTY		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
-	NASSAU	-

ROADWAY SOIL SURVEY

SHEET NO.

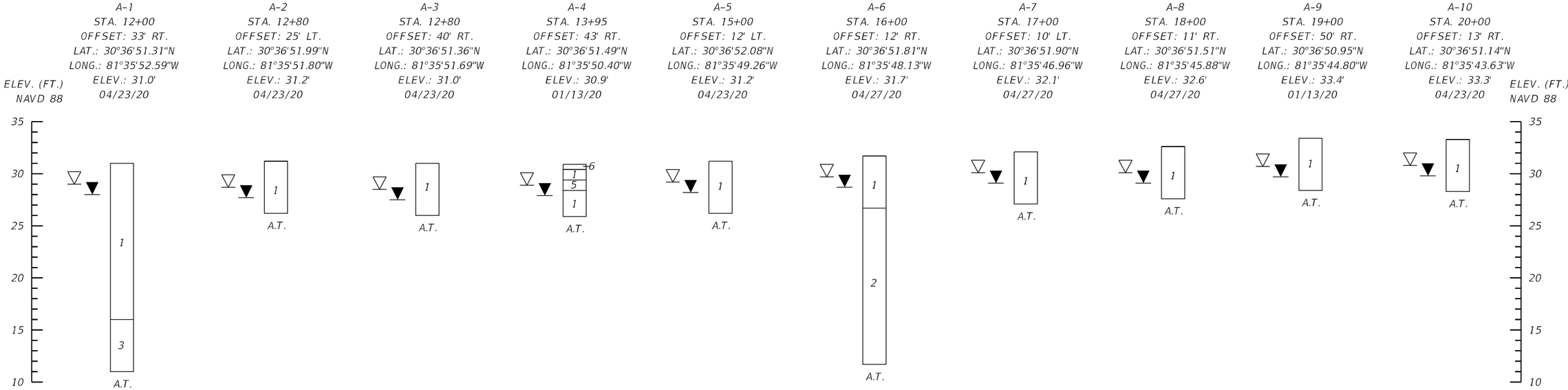
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General Subsurface Profiles

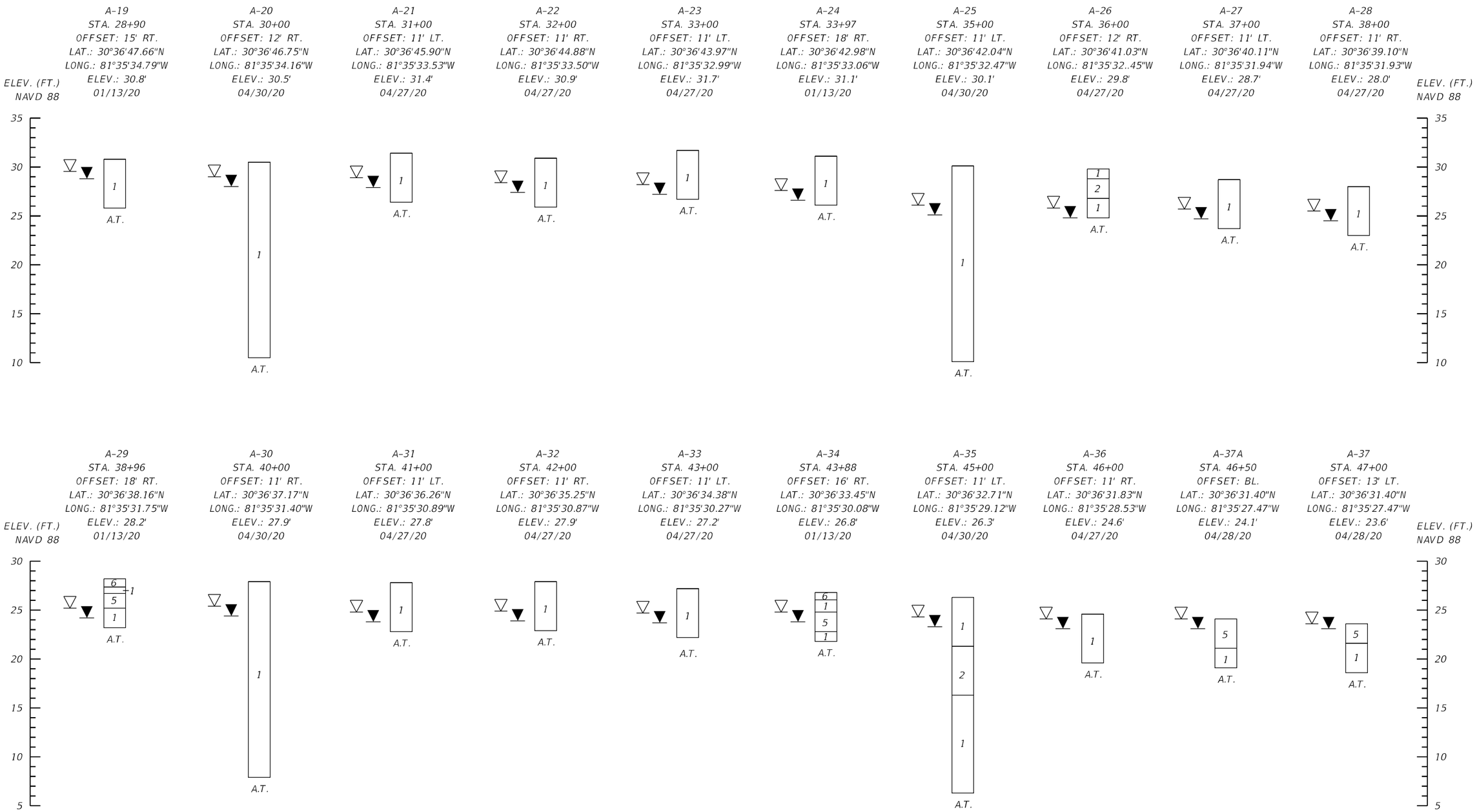
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REVISIONS				CSI Geo, Inc. 2394 ST. JOHNS BLUFF ROAD S., SUITE 200 JACKSONVILLE, FLORIDA 32246	NASSAU COUNTY			GENERAL SUBSURFACE PROFILES WILLIAM BURGESS BOULEVARD EXTENSION NASSAU COUNTY, FLORIDA	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					-	NASSAU	-		

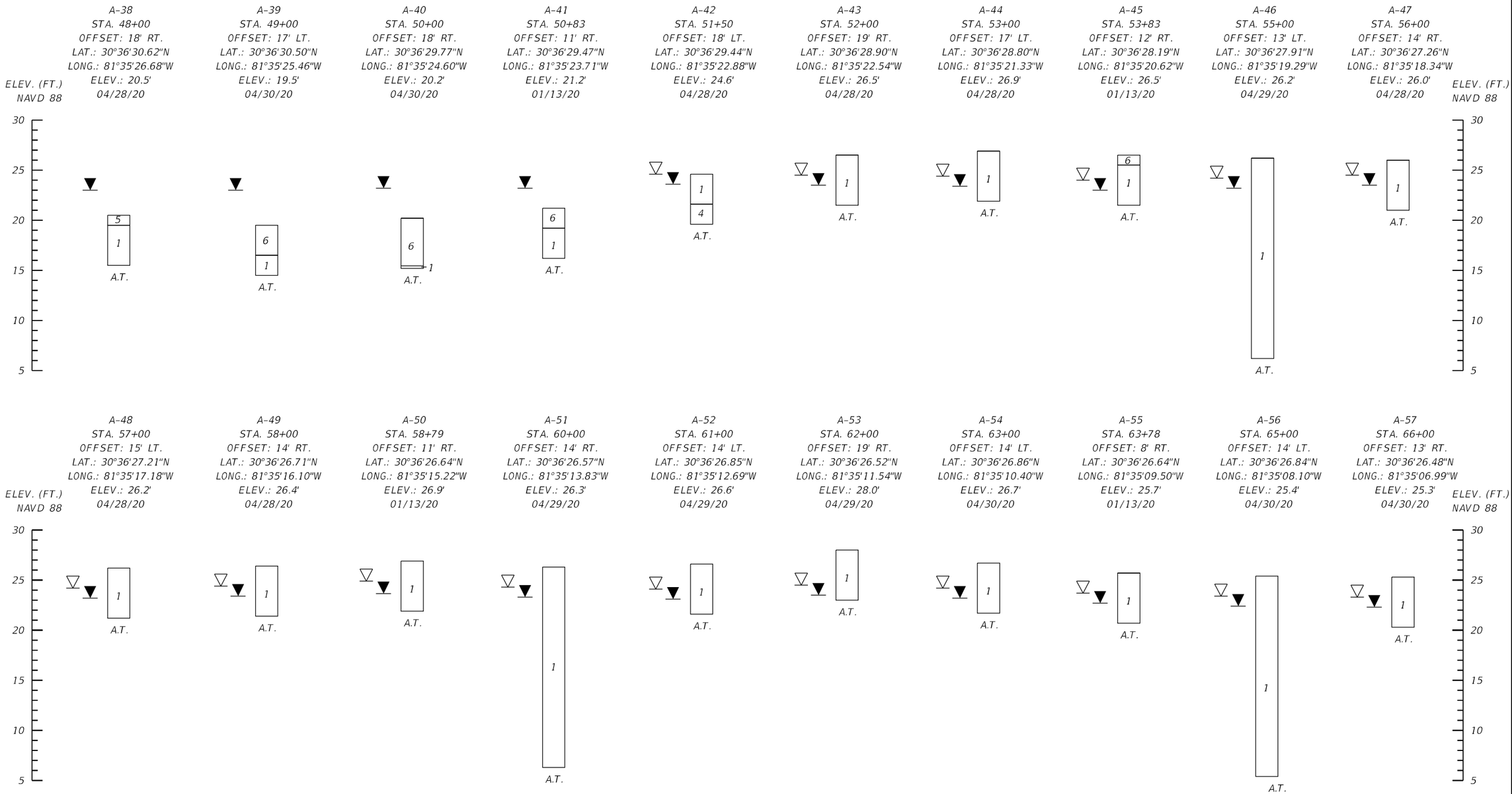
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					-	NASSAU	-		

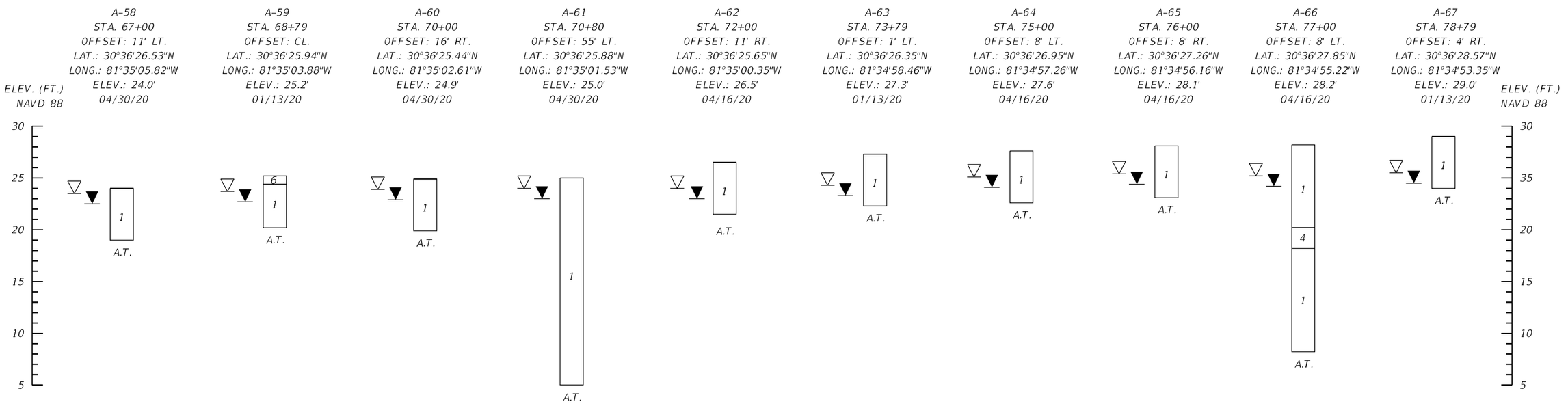
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REVISIONS				CSI Geo, Inc. 2394 ST. JOHNS BLUFF ROAD S., SUITE 200 JACKSONVILLE, FLORIDA 32246	NASSAU COUNTY			GENERAL SUBSURFACE PROFILES WILLIAM BURGESS BOULEVARD EXTENSION NASSAU COUNTY, FLORIDA	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					-	DUVAL	-		

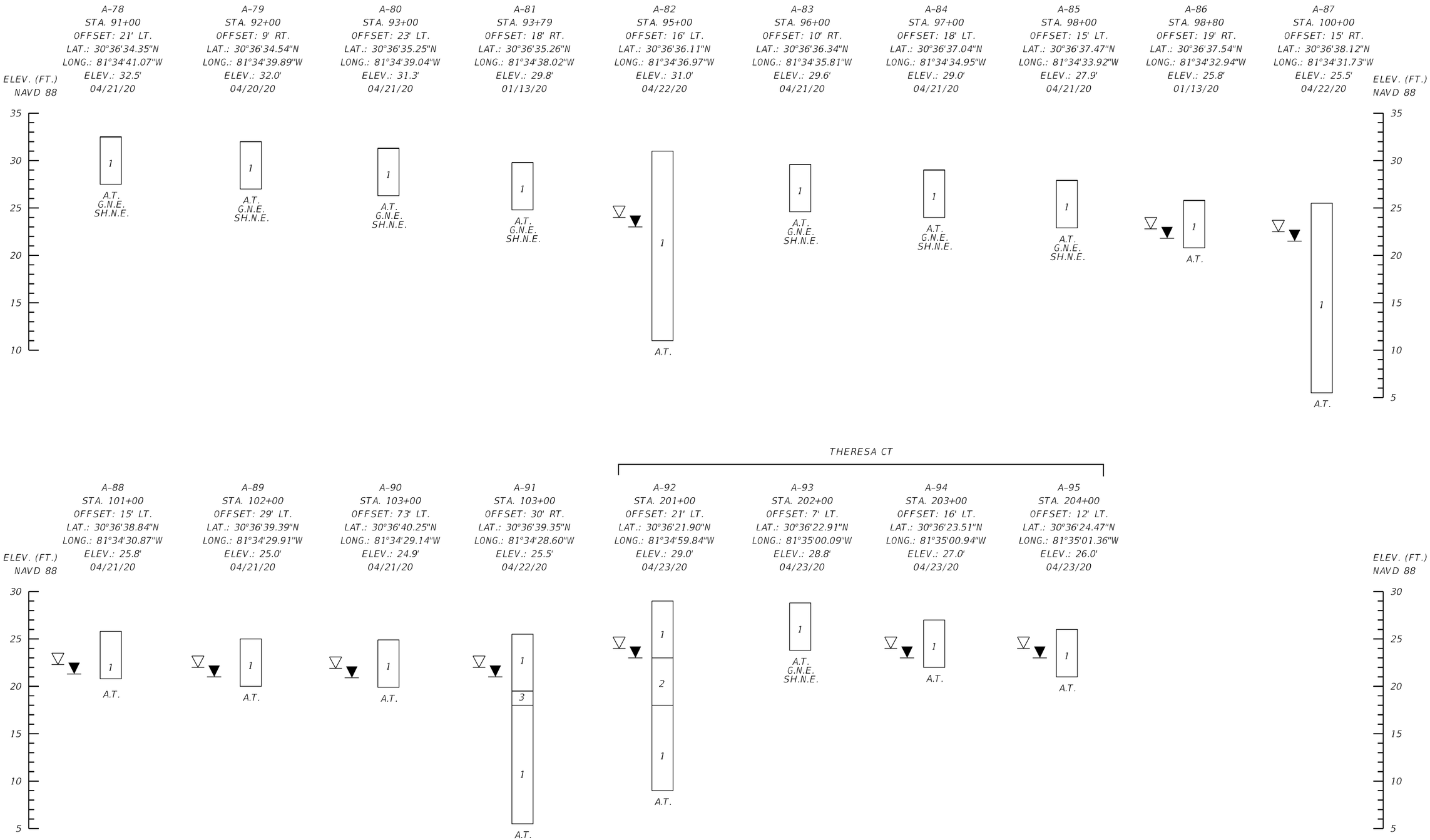
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REVISIONS				CSI Geo, Inc. 2394 ST. JOHNS BLUFF ROAD S., SUITE 200 JACKSONVILLE, FLORIDA 32246	NASSAU			GENERAL SUBSURFACE PROFILES WILLIAM BURGESS BOULEVARD EXTENSION NASSAU COUNTY, FLORIDA	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					-	NASSAU	-		

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					-	NASSAU	-		

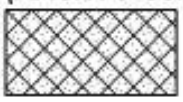
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Auger Boring Records

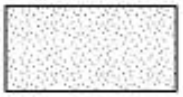
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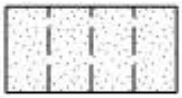
LEGEND

GRAPHIC LOG
(AASHTO Soil Classification System)


Organic Fine SAND; Organic Slightly Silty Fine SAND; Organic Silty Fine SAND (A-3)


Topsoil; Highly Organic Fine SAND; Highly Organic Slightly Silty Fine SAND; Highly Organic Silty Fine SAND (A-8)


Fine SAND; Slightly Silty SAND (A-3)


Silty Fine SAND (A-2-4)


Clayey Fine SAND (A-2-7/A-7-6)


Sandy CLAY (A-7-6)

ABBREVIATIONS & NOTES

(A-3)	AASHTO SOIL CLASSIFICATION
A.T.	AUGER BORING TERMINATED
G.N.E.	GROUND WATER NOT ENCOUNTERED
SH.N.E.	SEASONAL HIGH GROUNDWATER LEVEL NOT ENCOUNTERED

W	NATURAL MOISTURE CONTENT (%)
-200	FINES PASSING NO. 200 SIEVE (%)
OC%	ORGANIC CONTENT PERCENT
LL	LIQUID LIMIT
PI	PLASTICITY INDEX

▽ ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL

▼ WATER LEVEL AT TIME OF DRILLING

GRANULAR MATERIALS

RELATIVE DENSITY	AUTOMATIC HAMMER SPT N-VALUE (BLOWS/FT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40

SILT AND CLAYS

RELATIVE DENSITY	AUTOMATIC HAMMER SPT N-VALUE (BLOWS/FT)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

STANDARD PENETRATION TEST DATA

SPOON INSIDE DIA.	1.44 INCHES
SPOON OUTSIDE DIA.	2.0 INCHES
ASTM STANDARD DROP HAMMER	
AVG. HAMMER DROP	30.0 INCHES
HAMMER WEIGHT	140.0 LBS

NOTES:
1) DRILL AND PENETRATION TESTING WAS PERFORMED IN ACCORDANCE WITH ASTM D-1586.

2) LAYER BOUNDARIES ARE APPROXIMATE AND MAY VARY BETWEEN OR AWAY FROM BORING LOCATIONS.

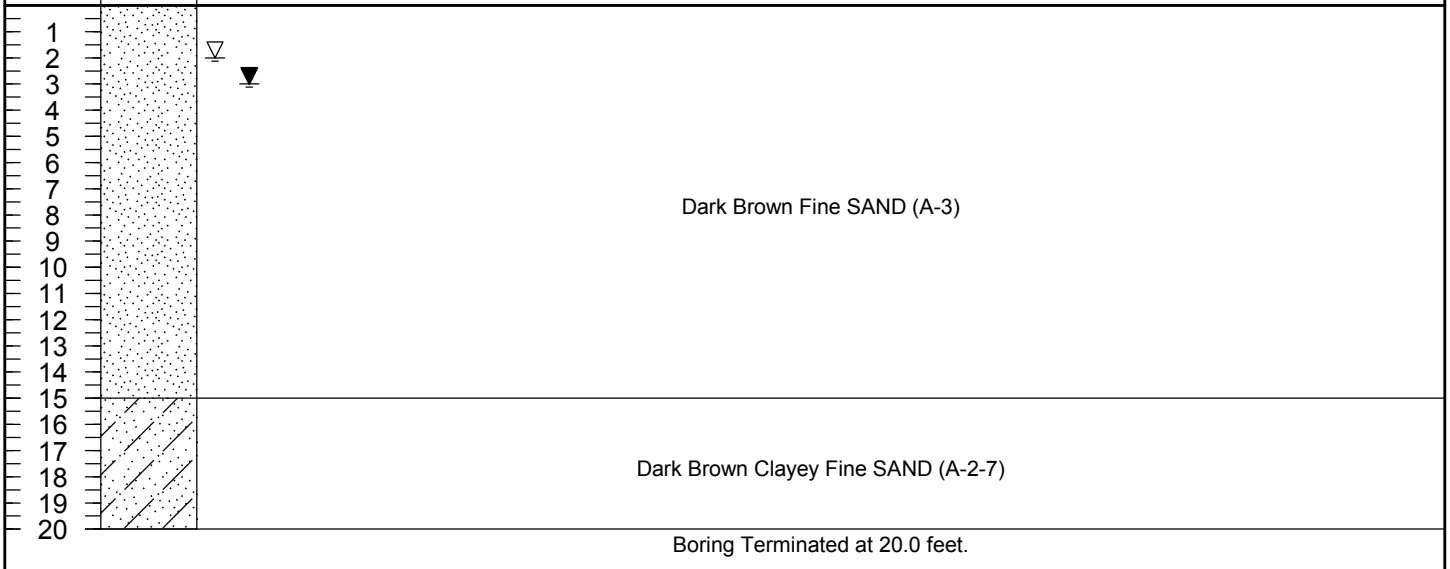
3) STATE PLANE COORDINATES WERE DETERMINED FROM HAND HELD GPS UNIT.

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Auger Boring - A-1

Station: 12+00
Offset: 33' RT
Elevation (ft.): 31.0

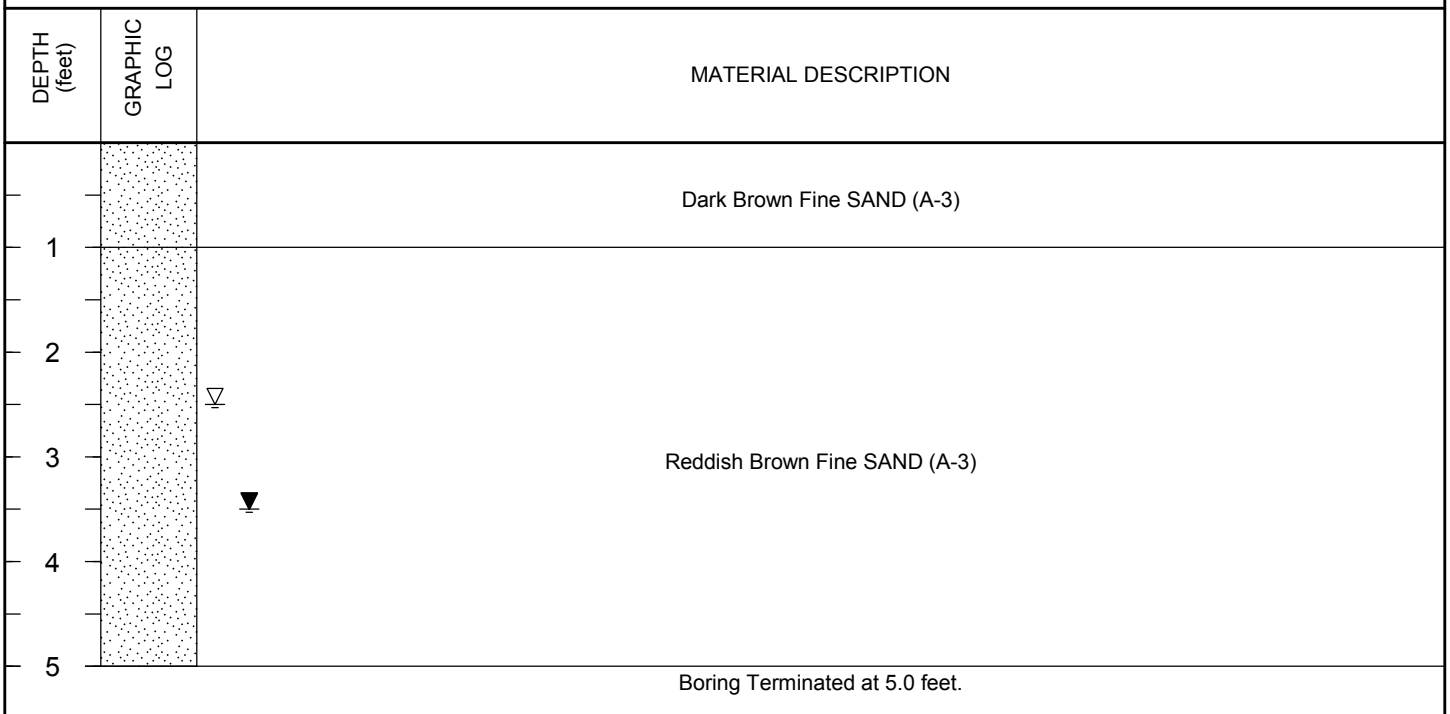
ESHWL: 2.00 ft / Elev 29.00 ft
GWT: 3.00 ft / Elev 28.00 ft
Date Drilled: 4/23/20



Auger Boring - A-2

Station: 12+80
Offset: 25' LT
Elevation (ft.): 31.2

ESHWL: 2.50 ft / Elev 28.70 ft
GWT: 3.50 ft / Elev 27.70 ft
Date Drilled: 4/23/20



CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

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Auger Boring - A-3

Station: 12+80
Offset: 40' RT
Elevation (ft.): 31.0

ESHWL: 2.50 ft / Elev 28.50 ft
GWT: 3.50 ft / Elev 27.50 ft
Date Drilled: 4/1/32

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Brown Fine SAND (A-3)
2		Gray Fine SAND (A-3)
3		
4		Dark Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-4

Station: 13+95
Offset: 43' RT
Elevation (ft.): 30.9

ESHWL: 2.00 ft / Elev 28.90 ft
GWT: 3.00 ft / Elev 27.90 ft
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
		Topsoil
1		Gray Fine SAND (A-3)
2		Dark Brown Organic Slightly Silty Fine SAND (A-3) with trace of roots
3		
4		Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-5

Station: 15+00
Offset: 12' LT
Elevation (ft.): 31.2

ESHWL: 2.00 ft / Elev 29.20 ft
GWT: 3.00 ft / Elev 28.20 ft
Date Drilled: 4/23/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Brown Fine SAND (A-3)
2		
3		Brown Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-6

Station: 16+00
Offset: 12' RT
Elevation (ft.): 31.7

ESHWL: 2.00 ft / Elev 29.70 ft
GWT: 3.00 ft / Elev 28.70 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Brown Slightly Silty Fine SAND (A-3) with trace of roots and organics
2		
3		
4		
5		Dark Brown Silty Fine SAND (A-2-4)
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		Boring Terminated at 20.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-7

Station: 17+00
Offset: 10' LT
Elevation (ft.): 32.1

ESHWL: 2.00 ft / Elev 30.10 ft
GWT: 3.00 ft / Elev 29.10 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3)
2		
3		Brown Slightly Silty Fine SAND (A-3)
4		Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-8

Station: 18+00
Offset: 11' RT
Elevation (ft.): 32.6

ESHWL: 2.50 ft / Elev 30.10 ft
GWT: 3.50 ft / Elev 29.10 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
		Gray Fine SAND (A-3)
1		
2		Brownish Gray Fine SAND (A-3)
3		
4		Gray Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

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Auger Boring - A-9

Station: 19+00
Offset: 50' RT
Elevation (ft.): 33.4

ESHWL: 2.70 ft / Elev 30.70 ft
GWT: 3.70 ft / Elev 29.70 ft
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3) with trace of limerock fragments and organics
2		
3		Light Brown to Light Gray Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-10

Station: 20+00
Offset: 13' RT
Elevation (ft.): 33.3

ESHWL: 2.50 ft / Elev 30.80 ft
GWT: 3.50 ft / Elev 29.80 ft
Date Drilled: 4/23/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray to Brown Fine SAND (A-3)
2		
3		Light Brown Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-11

Station: 21+00
Offset: 11' LT
Elevation (ft.): 33.2

ESHWL: 2.50 ft / Elev 30.70 ft
GWT: 3.50 ft / Elev 29.70 ft
Date Drilled: 4/23/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1 – 10		Light Brown Fine SAND (A-3)
11 – 20		Light Gray Slightly Silty Fine SAND (A-3)
		Boring Terminated at 20.0 feet.

Auger Boring - A-12

Station: 22+00
Offset: 11' RT
Elevation (ft.): 33.6

ESHWL: 3.00 ft / Elev 30.60 ft
GWT: 4.00 ft / Elev 29.60 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1 – 2		Brownish Gray Fine SAND (A-3) with trace of roots
3 – 5		Tan Fine SAND (A-3)
		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

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Auger Boring - A-13

Station: 23+00
Offset: 11' LT
Elevation (ft.): 33.5

ESHWL: 3.00 ft / Elev 30.50 ft
GWT: 4.00 ft / Elev 29.50 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3) with trace of roots
2		Brown Fine SAND (A-3) with trace of roots
3	▽	
4	▼	Gray Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-14

Station: 23+90
Offset: 17' RT
Elevation (ft.): 33.5

ESHWL: 3.00 ft / Elev 30.50 ft
GWT: 3.75 ft / Elev 29.75 ft
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Brown Fine SAND (A-3) with trace of roots
2		
3	▽	
4	▼	Light Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-15

Station: 25+00
Offset: 11' LT
Elevation (ft.): 33.3

ESHWL: 3.00 ft / Elev 30.30 ft
GWT: 4.00 ft / Elev 29.30 ft
Date Drilled: 4/30/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3) with trace of roots
2		
3		Brownish Gray Fine SAND (A-3)
4		
5		
6		
7		
8		
9		
10		
11		Dark Brown Fine SAND (A-3)
12		
13		
14		
15		
16		
17		
18		
19		
20		Boring Terminated at 20.0 feet.

Auger Boring - A-16

Station: 26+00
Offset: 12' RT
Elevation (ft.): 33.3

ESHWL: 3.00 ft / Elev 30.30 ft
GWT: 4.00 ft / Elev 29.30 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3) with trace of roots
2		
3		Brown Fine SAND (A-3) with trace of roots
4		Gray Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-17

Station: 27+00
Offset: 11' LT
Elevation (ft.): 32.5

ESHWL: 2.00 ft / Elev 30.50 ft
GWT: 3.00 ft / Elev 29.50 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3) with trace of roots
2		Brownish Gray Fine SAND (A-3) with trace of roots
3		
4		Gray Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-18

Station: 28+00
Offset: 11' RT
Elevation (ft.): 31.5

ESHWL: 1.00 ft / Elev 30.50 ft
GWT: 2.00 ft / Elev 29.50 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Gray Fine SAND (A-3)
2		
3		Brownish Gray Slightly Organic Slightly Silty Fine SAND (A-3) with trace of roots
4		
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-18A

Station: 28+20
Offset: BL
Elevation (ft.): 32.0

ESHWL: 2.00 ft / Elev 30.00 ft
GWT: 3.00 ft / Elev 29.00 ft
Date Drilled: 4/30/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Brownish Gray Fine SAND (A-3)
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		Dark Brown Slightly Silty Fine SAND (A-3)
12		
13		
14		
15		
16		
17		
18		
19		
20		Boring Terminated at 20.0 feet.

Auger Boring - A-18B

Station: 27+50
Offset: BL
Elevation (ft.): 32.5

ESHWL: 2.50 ft / Elev 30.00 ft
GWT: 3.50 ft / Elev 29.00 ft
Date Drilled: 4/30/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
		Gray Fine SAND (A-3)
1		
2		Brown Slightly Silty Fine SAND (A-3) with trace of roots
3		
4		Gray Fine SAND (A-3) with trace of organics
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-19

Station: 28+90
Offset: 15' RT
Elevation (ft.): 30.8

ESHWL: 1.25 ft / Elev 29.55 ft
GWT: 2.00 ft / Elev 28.80 ft
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Brown Fine SAND (A-3) with trace of roots
2		
3		Light Brown to Brown Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-20

Station: 30+00
Offset: 12' RT
Elevation (ft.): 30.5

ESHWL: 1.50 ft / Elev 29.00 ft
GWT: 2.50 ft / Elev 28.00 ft
Date Drilled: 4/30/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3) with trace of roots
2		
3		
4		Brown Slightly Silty Fine SAND (A-3)
5		
6		
7		
8		
9		
10		
11		Dark Brown Fine SAND (A-3)
12		
13		
14		
15		
16		
17		
18		
19		
20		Boring Terminated at 20.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-21

Station: 31+00
Offset: 11' LT
Elevation (ft.): 31.4

ESHWL: 2.50 ft / Elev 28.90 ft
GWT: 3.50 ft / Elev 27.90 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3)
2		Brownish Gray Fine SAND (A-3)
3		
4		Gray Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-22

Station: 32+00
Offset: 11' RT
Elevation (ft.): 30.9

ESHWL: 2.50 ft / Elev 28.40 ft
GWT: 3.50 ft / Elev 27.40 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
		Gray Fine SAND (A-3)
1		Brown Fine SAND (A-3) with trace of roots
2		
3		Gray Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-23

Station: 33+00
Offset: 11' LT
Elevation (ft.): 31.7

ESHWL: 3.50 ft / Elev 28.20 ft
GWT: 4.50 ft / Elev 27.20 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3) with trace of roots
2		Light Brown Fine SAND (A-3)
3		
4		Gray Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-24

Station: 33+97
Offset: 18' RT
Elevation (ft.): 31.1

ESHWL: 3.50 ft / Elev 27.60 ft
GWT: 4.50 ft / Elev 26.60 ft
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Light Gray Fine SAND (A-3)
2		
3		Brown to Light Brown Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-25

Station: 35+00
Offset: 11' LT
Elevation (ft.): 30.1

ESHWL: 4.00 ft / Elev 26.10 ft
GWT: 5.00 ft / Elev 25.10 ft
Date Drilled: 4/30/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1–6		Gray Fine SAND (A-3) with trace of roots
3–6		Brownish Gray Fine SAND (A-3)
6–20		Dark Brown Slightly Silty Fine SAND (A-3)
20		Boring Terminated at 20.0 feet.

Auger Boring - A-26

Station: 36+00
Offset: 12' RT
Elevation (ft.): 29.8

ESHWL: 4.00 ft / Elev 25.80 ft
GWT: 5.00 ft / Elev 24.80 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
0–1		Gray Fine SAND (A-3)
1–3		Brown Silty Fine SAND (A-2-4)
3–5		Brown Slightly Silty Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-27

Station: 37+00
Offset: 11' LT
Elevation (ft.): 28.7

ESHWL: 3.00 ft / Elev 25.70 ft
GWT: 4.00 ft / Elev 24.70 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Gray Slightly Organic Slightly Silty Fine SAND (A-3)
2		
3		Brown Slightly Silty Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-28

Station: 38+00
Offset: 11' RT
Elevation (ft.): 28.0

ESHWL: 2.50 ft / Elev 25.50 ft
GWT: 3.50 ft / Elev 24.50 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
		Gray Slightly Organic Slightly Silty Fine SAND (A-3) with trace of roots
1		
2		Brown Slightly Silty Fine SAND (A-3) with trace of roots
3		
4		Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-29

Station: 38+96
Offset: 18' RT
Elevation (ft.): 28.2

ESHWL: 3.00 ft / Elev 25.20 ft
GWT: 4.00 ft / Elev 24.20 ft
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
		Topsoil
1		Gray Fine SAND (A-3)
2		Dark Brown Organic Slightly Silty Fine SAND (A-3) with trace of roots
3		
4		Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-30

Station: 40+00
Offset: 11' RT
Elevation (ft.): 27.9

ESHWL: 2.50 ft / Elev 25.40 ft
GWT: 3.50 ft / Elev 24.40 ft
Date Drilled: 4/30/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		
2		Gray Fine SAND (A-3) with trace of roots
3		
4		
5		Brown Slightly Silty Fine SAND (A-3)
6		
7		
8		
9		
10		
11		
12		
13		Dark Brown Slightly Silty Fine SAND (A-3) with trace of organics
14		
15		
16		
17		
18		
19		
20		Boring Terminated at 20.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

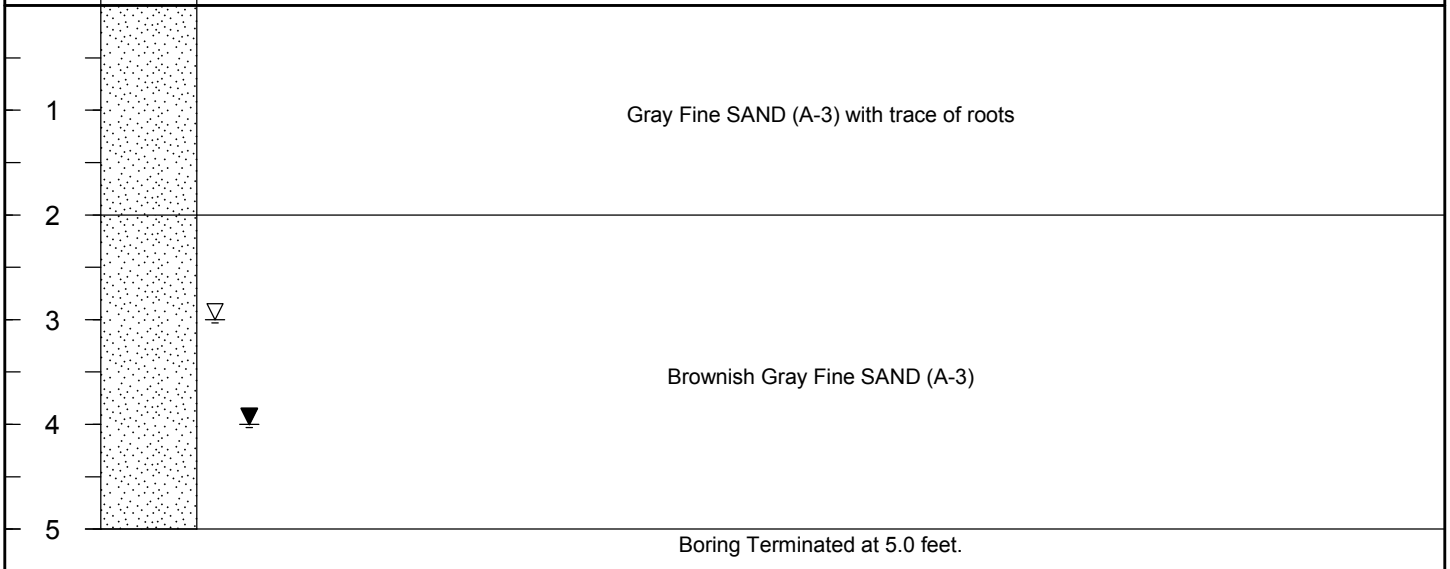
Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-31

Station: 41+00
Offset: 11' LT
Elevation (ft.): 27.8

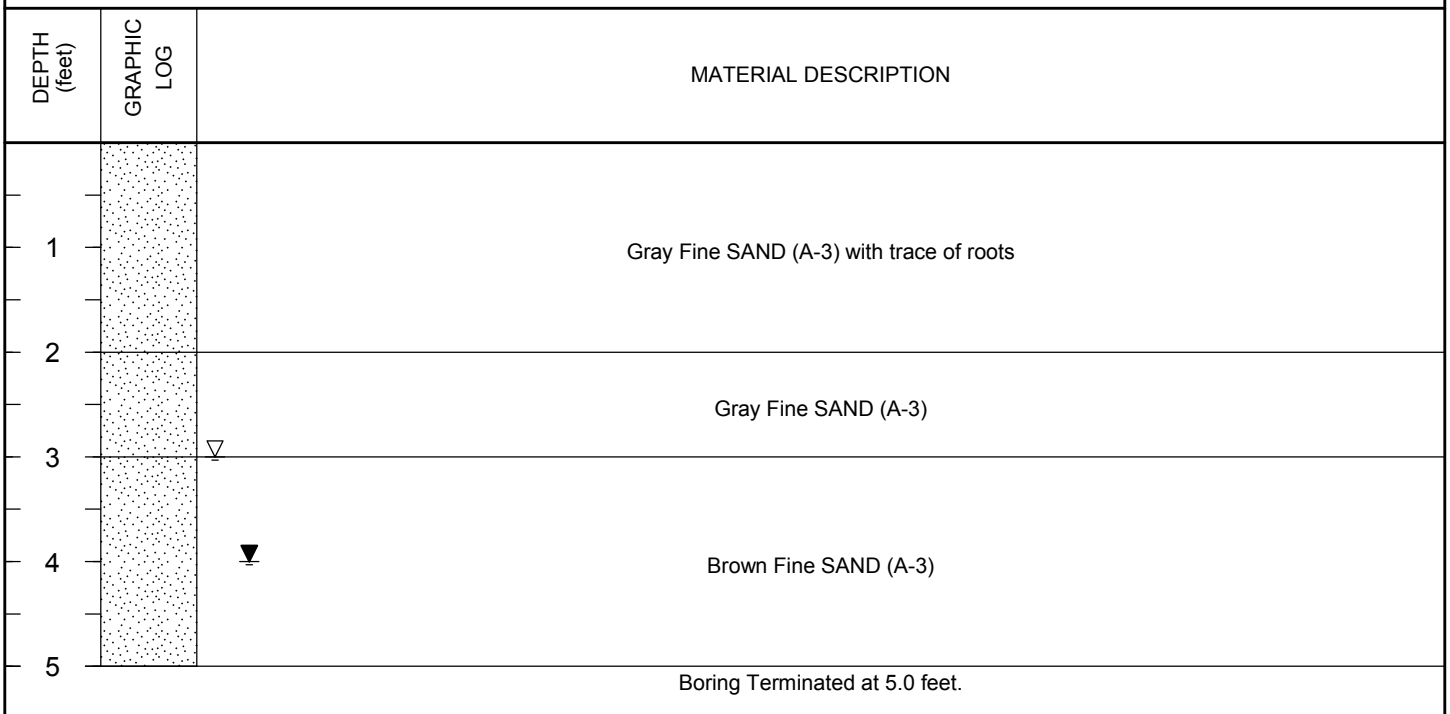
ESHWL: 3.00 ft / Elev 24.80 ft
GWT: 4.00 ft / Elev 23.80 ft
Date Drilled: 4/27/20



Auger Boring - A-32

Station: 42+00
Offset: 11' RT
Elevation (ft.): 27.9

ESHWL: 3.00 ft / Elev 24.90 ft
GWT: 4.00 ft / Elev 23.90 ft
Date Drilled: 4/27/20



CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-33

Station: 43+00
Offset: 11' LT
Elevation (ft.): 27.2

ESHWL: 2.50 ft / Elev 24.70 ft
GWT: 3.50 ft / Elev 23.70 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
0		Gray Fine SAND (A-3) with trace of roots
1		
2		Brown Slightly Organic Slightly Silty Fine SAND (A-3) with trace of roots
3		
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-34

Station: 43+88
Offset: 16' RT
Elevation (ft.): 26.8

ESHWL: 2.00 ft / Elev 24.80 ft
GWT: 3.00 ft / Elev 23.80 ft
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
0		Topsoil
1		Light Gray Fine SAND (A-3)
2		
3		Dark Gray Organic Fine SAND (A-3) with trace of roots
4		Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-35

Station: 45+00
Offset: 11' LT
Elevation (ft.): 26.3

ESHWL: 2.00 ft / Elev 24.30 ft
GWT: 3.00 ft / Elev 23.30 ft
Date Drilled: 4/30/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1 – 2		Brownish Gray Fine SAND (A-3)
3 – 4		Brown Slightly Silty Fine SAND (A-3)
5 – 9		Dark Brown Silty Fine SAND (A-2-4)
10 – 20		Brownish Gray Fine SAND (A-3)
		Boring Terminated at 20.0 feet.

Auger Boring - A-36

Station: 46+00
Offset: 11' RT
Elevation (ft.): 24.6

ESHWL: 0.50 ft / Elev 24.10 ft
GWT: 1.50 ft / Elev 23.10 ft
Date Drilled: 4/27/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3) with trace of roots
2 – 4		Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-37

Station: 47+00
Offset: 13' LT
Elevation (ft.): 23.6

ESHWL: 0.00 ft / Elev 23.60 ft
GWT: 0.50 ft / Elev 23.10 ft
Date Drilled: 4/28/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Brown Organic Slightly Silty Fine SAND (A-3)
2		
3		Dark Brown Slightly Slty Fine SAND (A-3) with trace of organics
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-37A

Station: 46+50
Offset: BL
Elevation (ft.): 24.1

ESHWL: 0.00 ft / Elev 24.10 ft
GWT: 1.00 ft / Elev 23.10 ft
Date Drilled: 4/30/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Brown Organic Slightly Silty Fine SAND (A-3)
2		
3		Brown Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-38

Station: 48+00
Offset: 18' RT
Elevation (ft.): 20.5

ESHWL: ---
GWT: --- 2.5' above existing ground
Date Drilled: 4/28/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Brown Organic Slightly Silty Fine SAND (A-3)
2		Brownish Gray Slightly Silty Fine SAND (A-3)
3		
4		Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-39

Station: 49+00
Offset: 17' LT
Elevation (ft.): 19.5

ESHWL: ---
GWT: --- 3.5' above existing ground
Date Drilled: 4/28/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Gray Highly Organic Silty Fine SAND (A-8)
2		
3		
4		Dark Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-40

Station: 50+00
Offset: 18' RT
Elevation (ft.): 20.2

ESHWL: ---
GWT: --- 3' above existing ground
Date Drilled: 4/28/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1 – 4		Dark Gray Highly Organic Silty Fine SAND (A-8)
5		Dark Brown Fine SAND (A-3)
		Boring Terminated at 5.0 feet.

Auger Boring - A-41

Station: 50+83
Offset: 11' RT
Elevation (ft.): 21.2

ESHWL: ---
GWT: --- 2' above existing ground
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Gray Highly Organic Silty Fine SAND (A-8)
2 – 4		Brown Slightly Silty Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

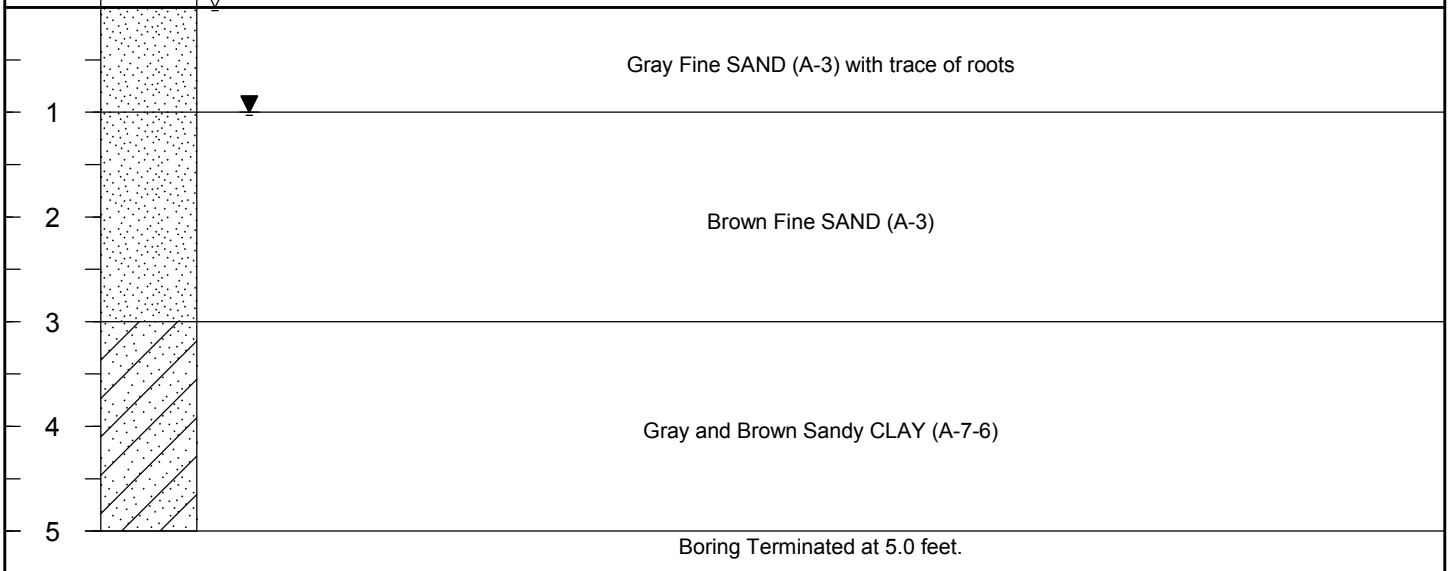
Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-42

Station: 51+50
Offset: 18' LT
Elevation (ft.): 24.6

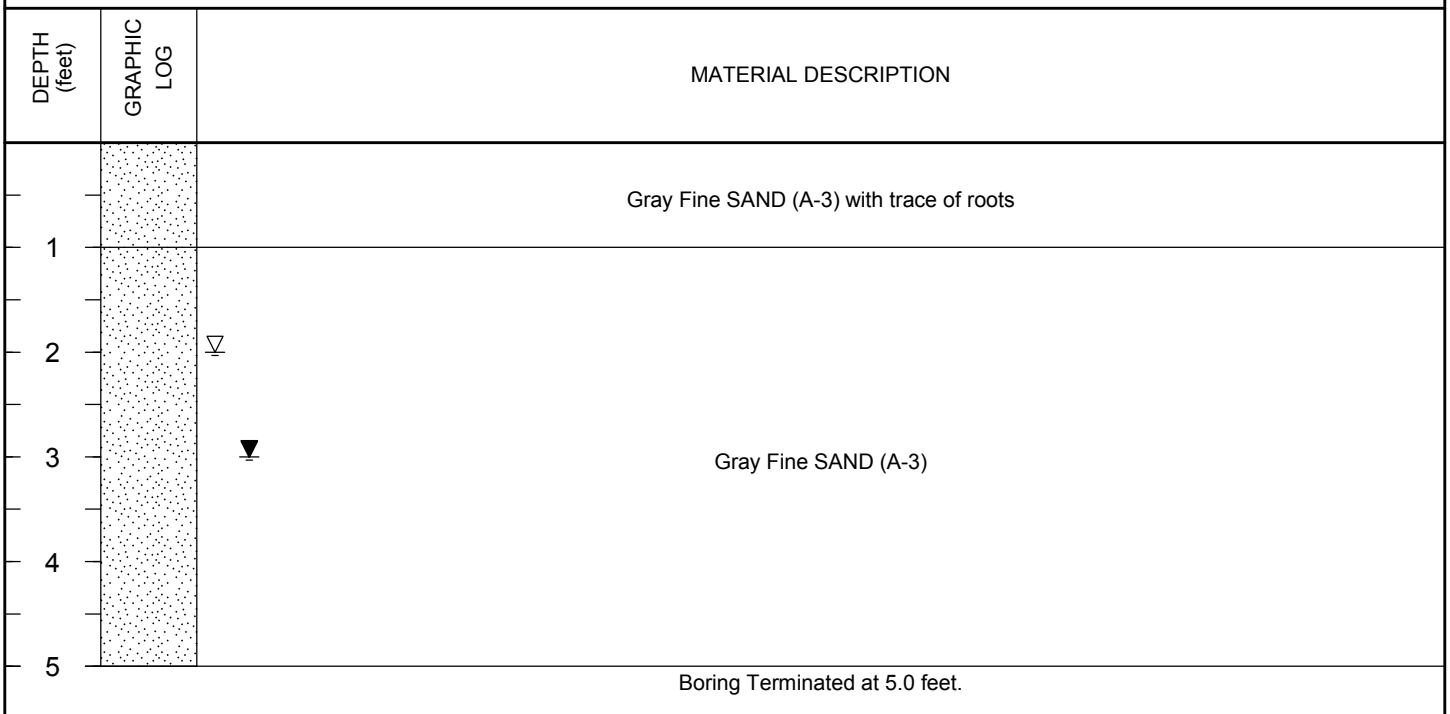
ESHWL: 0.00 ft / Elev 24.60 ft
GWT: 1.00 ft / Elev 23.60 ft
Date Drilled: 4/28/20



Auger Boring - A-43

Station: 52+00
Offset: 19' RT
Elevation (ft.): 26.5

ESHWL: 2.00 ft / Elev 24.50 ft
GWT: 3.00 ft / Elev 23.50 ft
Date Drilled: 4/28/20



CSI GEO, INC.
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FLORIDA

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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-44

Station: 53+00
Offset: 17' LT
Elevation (ft.): 26.9

ESHWL: 2.50 ft / Elev 24.40 ft
GWT: 3.50 ft / Elev 23.40 ft
Date Drilled: 4/28/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
0		Gray Fine SAND (A-3) with trace of roots
1		
2		Brown Fine SAND (A-3)
3		
4		Brown Slightly Silty Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-45

Station: 53+83
Offset: 12' RT
Elevation (ft.): 26.5

ESHWL: 2.50 ft / Elev 24.00 ft
GWT: 3.50 ft / Elev 23.00 ft
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
0		Dark Gray Highly Organic Silty Fine SAND (A-8) with few roots
1		
2		Light Brown Fine SAND (A-3)
3		
4		
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-46

Station: 55+00
Offset: 13' LT
Elevation (ft.): 26.2

ESHWL: 2.00 ft / Elev 24.20 ft
GWT: 3.00 ft / Elev 23.20 ft
Date Drilled: 4/29/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1–3		Brownish Gray Fine SAND (A-3) with trace of roots
4–9		Brown Fine SAND (A-3)
10–20		Light Brown Fine SAND (A-3)
		Boring Terminated at 20.0 feet.

Auger Boring - A-47

Station: 56+00
Offset: 14' RT
Elevation (ft.): 26.0

ESHWL: 1.50 ft / Elev 24.50 ft
GWT: 2.50 ft / Elev 23.50 ft
Date Drilled: 4/28/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Brown Fine SAND (A-3) with trace of roots
2		Brownish Gray Fine SAND (A-3)
3–4		Light Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-48

Station: 57+00
Offset: 15' LT
Elevation (ft.): 26.2

ESHWL: 2.00 ft / Elev 24.20 ft
GWT: 3.00 ft / Elev 23.20 ft
Date Drilled: 4/28/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
0		Gray Fine SAND (A-3) with trace of roots
1		
2		Brownish Gray Fine SAND (A-3)
3		
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-49

Station: 58+00
Offset: 14' RT
Elevation (ft.): 26.4

ESHWL: 2.00 ft / Elev 24.40 ft
GWT: 3.00 ft / Elev 23.40 ft
Date Drilled: 4/28/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
0		
1		
2		Brownish Gray Fine SAND (A-3)
3		
4		
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
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Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-50

Station: 58+79
Offset: 11' RT
Elevation (ft.): 26.9

ESHWL: 2.00 ft / Elev 24.90 ft
GWT: 3.25 ft / Elev 23.65 ft
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1 – 2		Gray Fine SAND (A-3)
3 – 4		Light Gray Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-51

Station: 60+00
Offset: 14' RT
Elevation (ft.): 26.3

ESHWL: 2.00 ft / Elev 24.30 ft
GWT: 3.00 ft / Elev 23.30 ft
Date Drilled: 4/29/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1 – 2		Brownish Gray Fine SAND (A-3) with trace of roots
3 – 4		Gray Fine SAND (A-3)
5 – 19		Light Brown Slightly Silty Fine SAND (A-3)
20		Boring Terminated at 20.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-52

Station: 61+00
Offset: 14' LT
Elevation (ft.): 26.6

ESHWL: 2.50 ft / Elev 24.10 ft
GWT: 3.50 ft / Elev 23.10 ft
Date Drilled: 4/29/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
0		Brownish Gray Fine SAND (A-3) with trace of roots
1		
2		Brownish Gray Fine SAND (A-3)
3		
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-53

Station: 62+00
Offset: 19' RT
Elevation (ft.): 28.0

ESHWL: 3.50 ft / Elev 24.50 ft
GWT: 4.50 ft / Elev 23.50 ft
Date Drilled: 4/29/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
0		Brownish Gray Fine SAND (A-3) with trace of roots
1		
2		Brownish Gray Fine SAND (A-3)
3		
4		Gray Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-54

Station: 63+00
Offset: 14' LT
Elevation (ft.): 26.7

ESHWL: 2.50 ft / Elev 24.20 ft
GWT: 3.50 ft / Elev 23.20 ft
Date Drilled: 4/30/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3) with trace of roots
2	▽	Brown Slightly Silty Fine SAND (A-3)
3	▼	
4		Gray Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-55

Station: 63+78
Offset: 8' RT
Elevation (ft.): 25.9

ESHWL: 2.00 ft / Elev 23.90 ft
GWT: 3.00 ft / Elev 22.90 ft
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3)
2	▽	Dark Brown Fine SAND (A-3) with trace of organics
3	▼	
4		Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-56

Station: 65+00
Offset: 14' LT
Elevation (ft.): 25.4

ESHWL: 2.00 ft / Elev 23.40 ft
GWT: 3.00 ft / Elev 22.40 ft
Date Drilled: 4/30/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3) with trace of roots
2		Brownish Gray Fine SAND (A-3)
5		Brown Slightly Silty Fine SAND (A-3)
20		Boring Terminated at 20.0 feet.

Auger Boring - A-57

Station: 66+00
Offset: 13' RT
Elevation (ft.): 25.3

ESHWL: 2.00 ft / Elev 23.30 ft
GWT: 3.00 ft / Elev 22.30 ft
Date Drilled: 4/30/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3)
2		Brown Slightly Silty Fine SAND (A-3)
4		Dark Brown Slightly Silty Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-58

Station: 67+00
Offset: 11' LT
Elevation (ft.): 24.0

ESHWL: 0.50 ft / Elev 23.50 ft
GWT: 1.50 ft / Elev 22.50 ft
Date Drilled: 4/30/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3) with trace of roots
2		Brown Slightly Silty Fine SAND (A-3)
3		
4		Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-59

Station: 68+79
Offset: 0' LT
Elevation (ft.): 25.2

ESHWL: 1.50 ft / Elev 23.70 ft
GWT: 2.50 ft / Elev 22.70 ft
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
		Topsoil
1		
2		
3		Brown to Light Brown Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-60

Station: 70+00
Offset: 16' RT
Elevation (ft.): 24.9

ESHWL: 1.00 ft / Elev 23.90 ft
GWT: 2.00 ft / Elev 22.90 ft
Date Drilled: 4/30/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3)
2		
3		Brown Slightly Silty Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-61

Station: 70+80
Offset: 55' LT
Elevation (ft.): 25.0

ESHWL: 1.00 ft / Elev 24.00 ft
GWT: 2.00 ft / Elev 23.00 ft
Date Drilled: 4/30/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Brown Slightly Silty Fine SAND (A-3) with trace of organics
2		
3		
4		
5		Brown Fine SAND (A-3)
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		Boring Terminated at 20.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-62

Station: 72+00
Offset: 11' RT
Elevation (ft.): 26.5

ESHWL: 2.50 ft / Elev 24.00 ft
GWT: 3.50 ft / Elev 23.00 ft
Date Drilled: 4/16/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Brown Fine SAND (A-3)
2		
3		
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-63

Station: 73+79
Offset: 1' LT
Elevation (ft.): 27.3

ESHWL: 3.00 ft / Elev 24.30 ft
GWT: 4.00 ft / Elev 23.30 ft
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Light Gray Fine SAND (A-3)
2		
3		Dark Brown to Brown Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-64

Station: 75+00
Offset: 8' LT
Elevation (ft.): 27.6

ESHWL: 2.50 ft / Elev 25.10 ft
GWT: 3.50 ft / Elev 24.10 ft
Date Drilled: 4/16/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Light Gray Fine SAND (A-3)
2		Brown Fine SAND (A-3)
3		
4		Light Gray Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-65

Station: 76+00
Offset: 8' RT
Elevation (ft.): 28.1

ESHWL: 2.70 ft / Elev 25.40 ft
GWT: 3.70 ft / Elev 24.40 ft
Date Drilled: 4/16/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Light Gray Fine SAND (A-3)
2		
3		Dark Brown to Brown Slightly Silty Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-66

Station: 77+00
Offset: 8' LT
Elevation (ft.): 28.2

ESHWL: 3.00 ft / Elev 25.20 ft
GWT: 4.00 ft / Elev 24.20 ft
Date Drilled: 4/16/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1–6		Brown to Light Brown Fine SAND (A-3)
7		Dark Brown Fine SAND (A-3)
8–9		Gray Sandy CLAY (A-7-6)
10–20		Brown Fine SAND (A-3)
		Boring Terminated at 20.0 feet.

Auger Boring - A-67

Station: 78+79
Offset: 4' RT
Elevation (ft.): 29.0

ESHWL: 3.50 ft / Elev 25.50 ft
GWT: 4.50 ft / Elev 24.50 ft
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray to Light Gray Fine SAND (A-3)
2–3		Gray Fine SAND (A-3) with trace of roots
4		Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-68

Station: 79+50
Offset: 9' LT
Elevation (ft.): 29.5

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 4/16/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Brown Fine SAND (A-3)
2		Light Gray Fine SAND (A-3)
3		
4		Dark Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-69

Station: 81+00
Offset: 12' LT
Elevation (ft.): 29.9

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 4/16/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Brown Fine SAND (A-3) with trace of limerock fragments
2		Brown Fine SAND (A-3)
3		
4		Dark Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-70

Station: 82+00
Offset: 13' RT
Elevation (ft.): 29.6

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 4/16/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Dark Brown Fine SAND (A-3)
2		
3		
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-71

Station: 83+79
Offset: 18' RT
Elevation (ft.): 31.6

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Light Brown Fine SAND (A-3) with trace of limerock fragments and wood pieces
2		
3		
4		Light Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-72

Station: 85+00
Offset: 15' RT
Elevation (ft.): 32.1

ESHWL: 7.50 ft / Elev 24.60 ft
GWT: 8.50 ft / Elev 23.60 ft
Date Drilled: 4/16/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1–2		Brown Fine SAND (A-3)
3–11		Light Brown Fine SAND (A-3)
12–15		Light Brown Silty Fine SAND (A-2-4)
16–20		Light Brown fine SAND (A-3)
		Boring Terminated at 20.0 feet.

Auger Boring - A-73

Station: 86+00
Offset: 13' RT
Elevation (ft.): 32.1

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 4/20/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1–2		Brown Fine SAND (A-3)
3–5		Light Brown Fine SAND (A-3)
		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-74

Station: 87+00
Offset: 21' LT
Elevation (ft.): 32.4

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 4/20/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Brown Fine SAND (A-3)
2		
3		Light Brown Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-75

Station: 88+00
Offset: 13' RT
Elevation (ft.): 31.8

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 4/20/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Brown Fine SAND (A-3)
2		
3		
4		Light Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-76

Station: 88+79
Offset: 18' RT
Elevation (ft.): 32.2

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Light Brown Fine SAND (A-3)
2		
3		
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-77

Station: 90+00
Offset: 13' RT
Elevation (ft.): 32.3

ESHWL: 8.00 ft / Elev 24.30 ft
GWT: 9.00 ft / Elev 23.30 ft
Date Drilled: 4/22/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Brown to Light Brown Fine SAND (A-3)
2		
3		
4		
5		
6		
7		
8		▽
9		▼
10		Dark Brown Slightly Silty Fine SAND (A-3) with trace of organics
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		Boring Terminated at 20.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-78

Station: 91+00
Offset: 21' LT
Elevation (ft.): 32.5

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 4/21/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Brown Fine SAND (A-3)
2		
3		Light Brown Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-79

Station: 92+00
Offset: 9' RT
Elevation (ft.): 32.0

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 4/21/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Brown Fine SAND (A-3)
2		
3		Light Brown Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-80

Station: 93+00
Offset: 23' LT
Elevation (ft.): 31.3

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 4/21/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Brown Fine SAND (A-3)
2		
3		Light Brown Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-81

Station: 93+79
Offset: 18' RT
Elevation (ft.): 29.8

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Brown to Light Brown Fine SAND (A-3)
2		
3		
4		
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-82

Station: 95+00
Offset: 16' LT
Elevation (ft.): 31.0

ESHWL: 7.00 ft / Elev 24.00 ft
GWT: 8.00 ft / Elev 23.00 ft
Date Drilled: 4/22/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1–7		Brown to Light Brown Fine SAND (A-3)
8–13		Dark Brown Fine SAND (A-3) with trace of organics
14–19		Brown Slightly Silty Fine SAND (A-3)
20		Boring Terminated at 20.0 feet.

Auger Boring - A-83

Station: 96+00
Offset: 10' RT
Elevation (ft.): 29.6

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 4/21/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1–4		Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-84

Station: 97+00
Offset: 18' LT
Elevation (ft.): 29.0

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 4/21/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Brown Fine SAND (A-3)
2		
3		Light Brown Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-85

Station: 98+00
Offset: 15' LT
Elevation (ft.): 27.9

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 4/21/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Brown Fine SAND (A-3)
2		
3		
4		
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-86

Station: 98+80
Offset: 19' RT
Elevation (ft.): 25.8

ESHWL: 3.00 ft / Elev 22.80 ft
GWT: 4.00 ft / Elev 21.80 ft
Date Drilled: 1/13/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1–5		Gray Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-87

Station: 100+00
Offset: 15' RT
Elevation (ft.): 25.5

ESHWL: 3.00 ft / Elev 22.50 ft
GWT: 4.00 ft / Elev 21.50 ft
Date Drilled: 4/22/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1–5		Brown to Light Brown Fine SAND (A-3)
5–10		Dark Brown to Reddish Brown Fine SAND (A-3)
10–20		Light Brown to Orange Brown Fine SAND (A-3)
20		Boring Terminated at 20.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-88

Station: 101+00
Offset: 15' LT
Elevation (ft.): 25.8

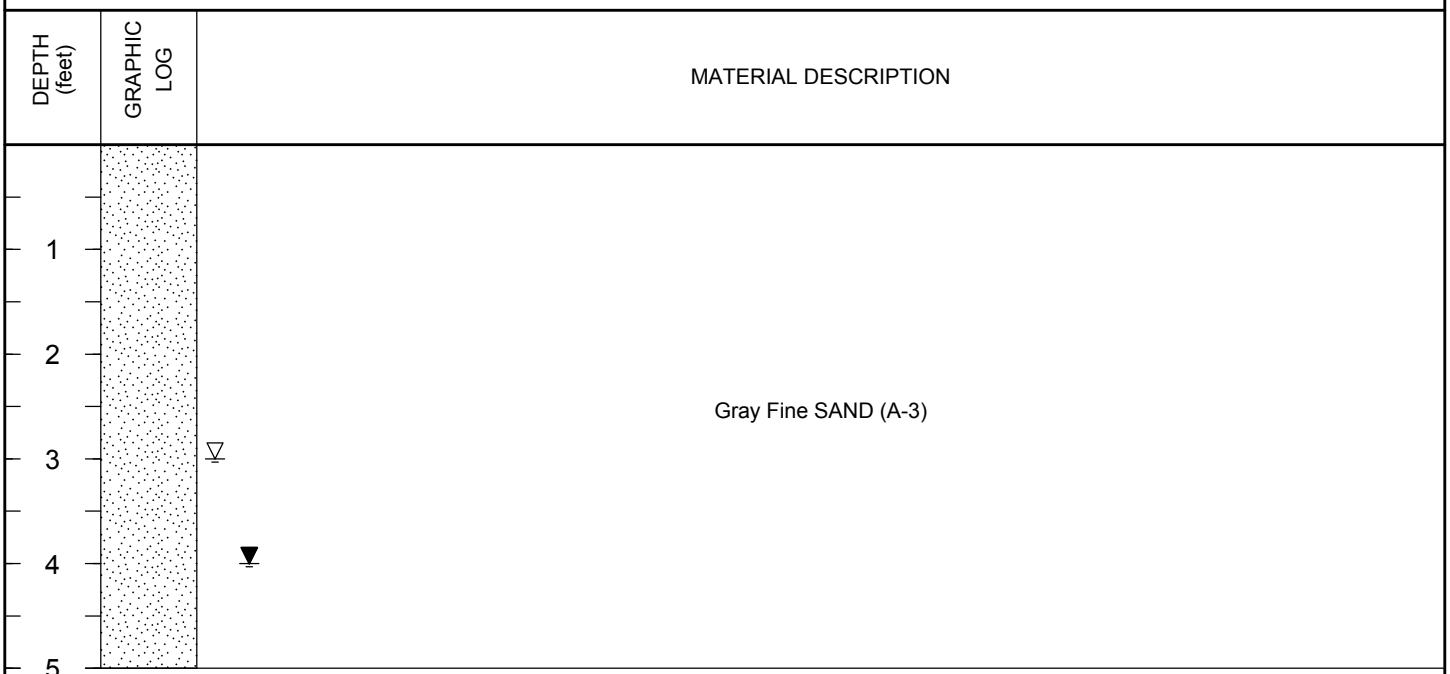
ESHWL: 3.50 ft / Elev 22.30 ft
GWT: 4.50 ft / Elev 21.30 ft
Date Drilled: 4/21/20



Auger Boring - A-89

Station: 102+00
Offset: 26' LT
Elevation (ft.): 25.0

ESHWL: 3.00 ft / Elev 22.00 ft
GWT: 4.00 ft / Elev 21.00 ft
Date Drilled: 4/21/20



CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-90

Station: 103+00
Offset: 73' LT
Elevation (ft.): 22.9

ESHWL: 3.00 ft / Elev 19.90 ft
GWT: 4.00 ft / Elev 18.90 ft
Date Drilled: 4/21/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1–5		Brown Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

Auger Boring - A-91

Station: 103+00
Offset: 30' RT
Elevation (ft.): 25.5

ESHWL: ---
GWT: 4.50 ft / Elev 21.00 ft
Date Drilled: 4/22/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1–5		Dark Brown Fine SAND (A-3) with trace of limerock fragments
6–7		Brown Clayey Fine SAND (A-7-6)
8–20		Light Brown Slightly Silty Fine SAND (A-3)
20		Boring Terminated at 20.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-92

Station: 201+00
Offset: 21' LT
Elevation (ft.): 29.0

ESHWL: 5.00 ft / Elev 24.00 ft
GWT: 6.00 ft / Elev 23.00 ft
Date Drilled: 4/23/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1–5		Gray to Light Gray Fine SAND (A-3)
6–10		Dark Brown Slty Fine SAND (A-2-4)
11–20		Dark Brown Slightly Silty Fine SAND (A-3)
		Boring Terminated at 20.0 feet.

Auger Boring - A-93

Station: 202+00
Offset: 7' RT
Elevation (ft.): 28.8

ESHWL: --- Not Encountered
GWT: --- Not Encountered
Date Drilled: 4/23/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3)
2–3		Dark Brown Fine SAND (A-3)
4		Light Gray Fine SAND (A-3)
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Auger Boring - A-94

Station: 203+00
Offset: 16' LT
Elevation (ft.): 27.0

ESHWL: 3.00 ft / Elev 24.00 ft
GWT: 4.00 ft / Elev 23.00 ft
Date Drilled: 4/23/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3)
2		
3		Dark Brown to Brown Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

Auger Boring - A-95

Station: 204+00
Offset: 12' RT
Elevation (ft.): 26.0

ESHWL: 2.00 ft / Elev 24.00 ft
GWT: 3.00 ft / Elev 23.00 ft
Date Drilled: 4/23/20

DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION
1		Gray Fine SAND (A-3)
2		
3		Dark Brown Slightly Silty Fine SAND (A-3)
4		
5		Boring Terminated at 5.0 feet.

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

Project: William Burgess Boulevard Extension
Location: Nassau County, Florida
Project Number: 71-19-133-09

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Summary of Laboratory Test Results

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SUMMARY OF LABORATORY TEST RESULTS

William Burgess Boulevard Extension
Nassau County, Florida

Boring No.	Sample No.	Approximate Depth (ft)	Natural Moisture Content (%)	Organic Content (%)	Percent Passing Sieve Size (%)						Atterberg Limits		Soil Classification Symbol	Stratum No.
					#4	#10	#40	#60	#100	#200	LL	PI		
A-6	2	2.0 - 5.0	26	2.9						7			A-3	1
A-11	3	11.0 - 16.0	28		100	100	99	89	27	7			A-3	1
A-18	3	3.0 - 5.0	40	5.0						5			A-3	1
A-18A	3	5.0 - 12.0	30							5			A-3	1
A-18B	3	3.0 - 5.0	30	0.4						3			A-3	1
A-19	2	1.5 - 3.0	23		100	100	100	96	28	3			A-3	1
A-23	3	3.0 - 5.0	22		100	100	99	95	37	1			A-3	1
A-28	1	0.0 - 1.0	17	3.6						6			A-3	1
A-30	3	7.0 - 12.0	42	1.9						6			A-3	1
A-33	2	1.0 - 3.0	28	4.3						6			A-3	1
A-37	2	2.0 - 4.0	30	2.0						7			A-3	1
A-46	3	9.0 - 12.0	55		100	100	100	96	41	4			A-3	1
A-51	3	5.0 - 10.0	28							10			A-3	1
A-57	2	1.0 - 3.0	26							6			A-3	1
A-61	2	3.0 - 5.0	45	1.5						5			A-3	1
A-65	2	2.0 - 3.5	48							7			A-3	1
A-73	2	2.0 - 4.0	5		100	100	99	86	23	2			A-3	1
A-77	5	8.0 - 10.0	20	2.2	100	100	96	86	34	7			A-3	1
A-79	3	4.0 - 5.0	6		100	100	99	91	28	2			A-3	1
A-81	2	2.0 - 4.0	7		100	100	98	89	28	1			A-3	1
A-82	5	7.5 - 13.5	12	1.5	100	100	99	89	32	3			A-3	1
A-83	3	4.0 - 5.0	13		100	100	99	90	32	4			A-3	1
A-87	4	5.0 - 7.0	9		100	100	96	86	34	3			A-3	1
A-91	6	12.0 - 13.0	19		100	100	98	92	50	9			A-3	1

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SUMMARY OF LABORATORY TEST RESULTS

William Burgess Boulevard Extension
Nassau County, Florida

Boring No.	Sample No.	Approximate Depth (ft)	Natural Moisture Content (%)	Organic Content (%)	Percent Passing Sieve Size (%)						Atterberg Limits		Soil Classification Symbol	Stratum No.
					#4	#10	#40	#60	#100	#200	LL	PI		
A-95	2	1.5 - 2.5	27		100	100	99	93	32	5			A-3	1
A-72	4	12.0 - 15.0	21							11			A-2-4	2
A-92	3	6.0 - 11.0	23							11			A-2-4	2
A-1	3	15.0 - 20.0	36							21	50	25	A-2-7	3
A-91	3	6.0 - 7.5	25							37	48	24	A-7-6	3
A-66	6	8.0 - 10.0	55							61	97	72	A-7-6	4
A-42	3	3.0 - 5.0	34							53	58	37	A-7-6	4
A-4	2	1.5 - 2.5	33	5.2	100	100	99	94	31	7			A-3	5
A-29	2	1.5 - 3.0	29	5.2	100	100	98	94	34	6			A-3	5
A-34	2	2.0 - 4.0	30	5.5	100	100	98	90	31	5			A-3	5
A-37A	2	2.0 - 3.0	50	11.1						7			A-3	5
A-45	5	0.0 - 1.0	64	24.7						11			A-8	6

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Environmental Corrosion Test Results

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

ENVIRONMENTAL CORROSION TEST RESULTS

William Burgess Boulevard Extension
Nassau County, Florida

Sample No.	Depth (ft)	Stratum No.	pH (S.U.)[a]	Resistivity (ohm-cm)	Sulfates (ppm)	Chlorides (ppm)	Environmental Classification (Substructures)	
							Steel	Concrete
A-3	0.0 - 3.0	1	5.5	29,720	U	25	Extremely Aggressive	Moderately Aggressive
A-28	1.0 - 5.0	1	4.2	18,140	U	40	Extremely Aggressive	Extremely Aggressive
A-44	1.0 - 3.0	1	4.6	7,720	U	25	Extremely Aggressive	Extremely Aggressive
A-56	0.0 - 3.0	1	4.3	17,500	U	70	Extremely Aggressive	Extremely Aggressive
A-68	0.0 - 3.5	1	8.1	34,110	U	25	Slightly Aggressive	Slightly Aggressive
A-75	2.0 - 5.0	1	7.6	25,910	U	25	Slightly Aggressive	Slightly Aggressive
A-85	2.0 - 5.0	1	7.6	91,300	U	25	Slightly Aggressive	Slightly Aggressive
A-90	2.0 - 5.0	1	7.9	40,800	U	25	Slightly Aggressive	Slightly Aggressive

Notes:

[a]S.U. : pH standard units

[b]U: Compound tested for but not detected

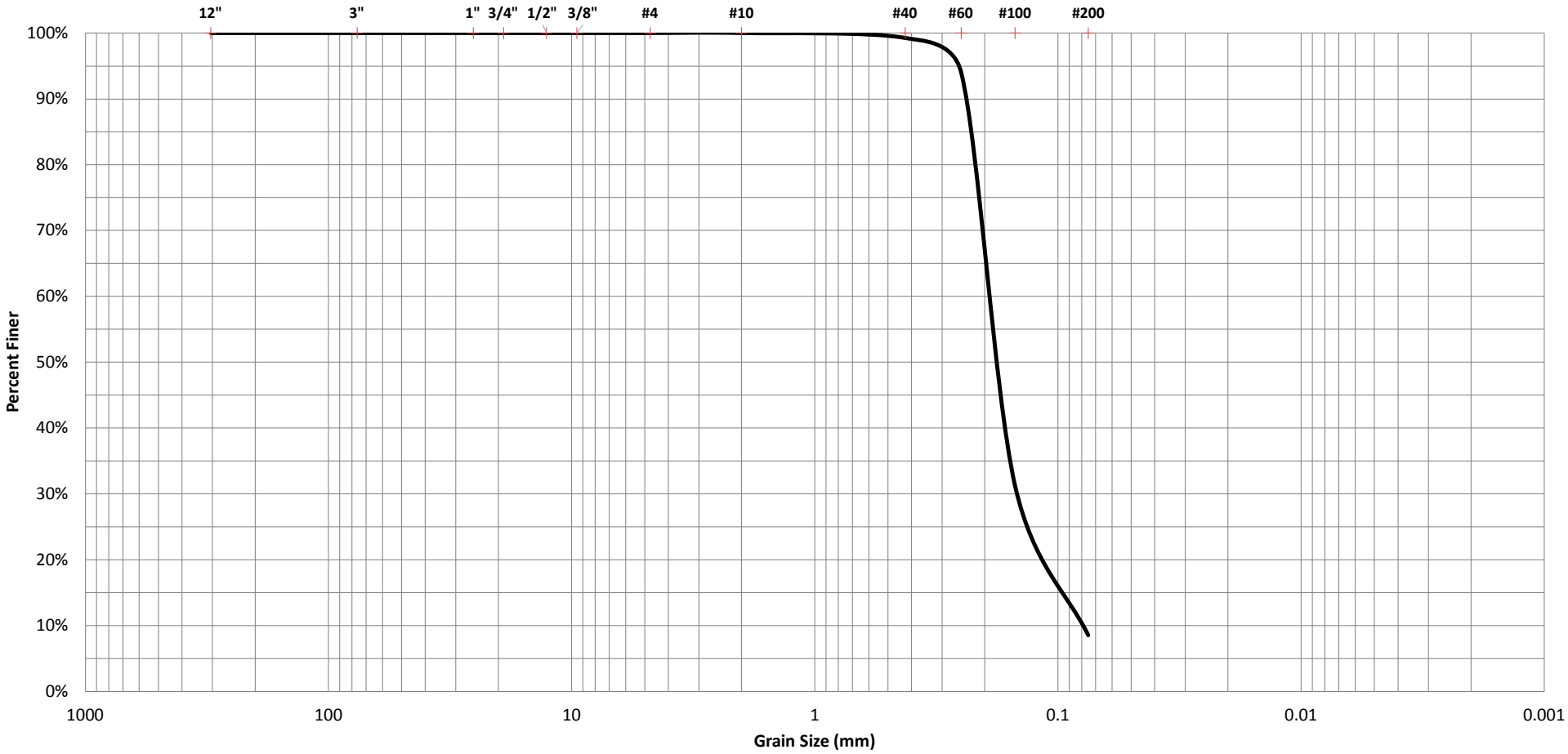
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Grain Size Distribution Curves

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

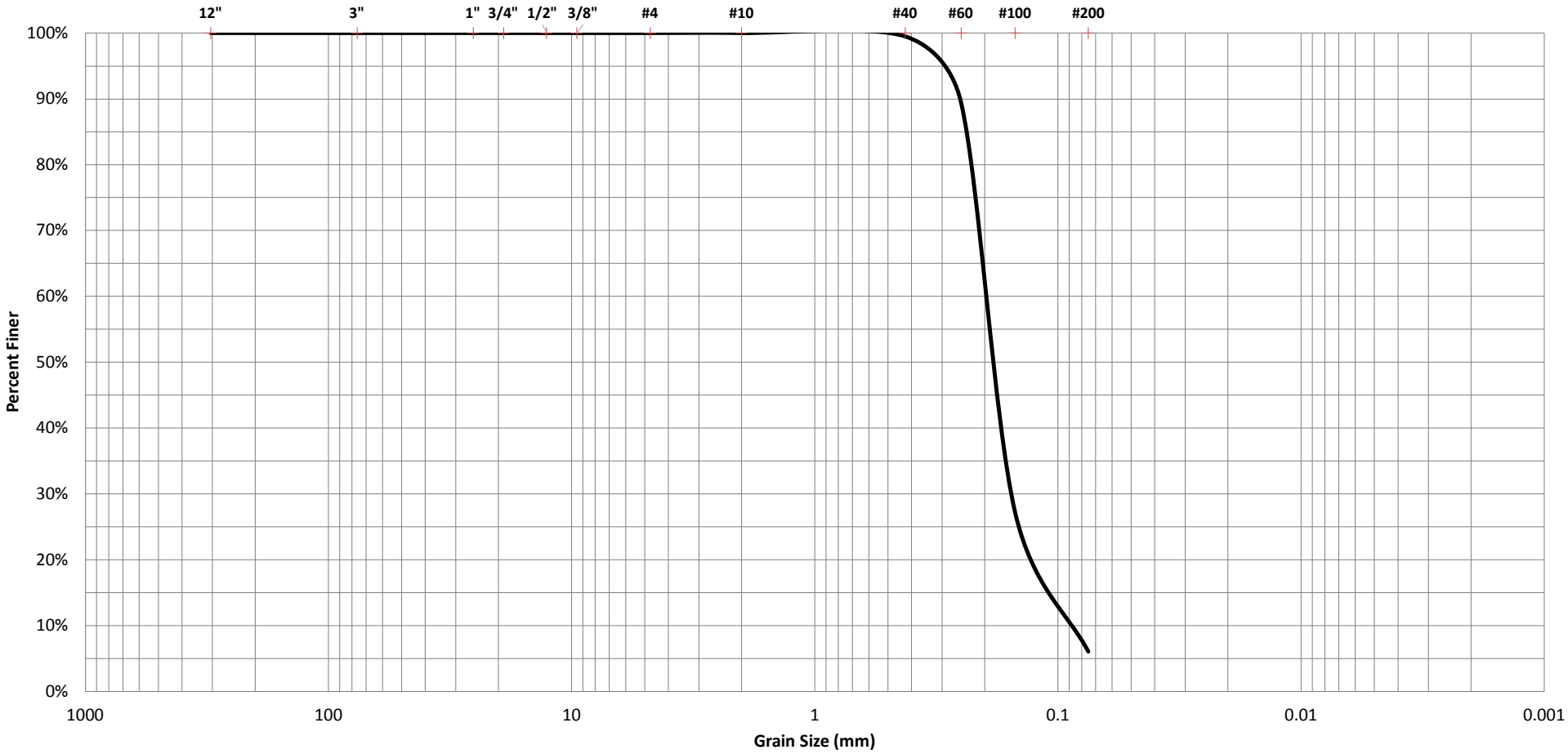
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-4 (2)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	1.5-2.5

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
33	-	-	-	Brownish Gray Organic Slightly Silty Fine SAND with trace of roots	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

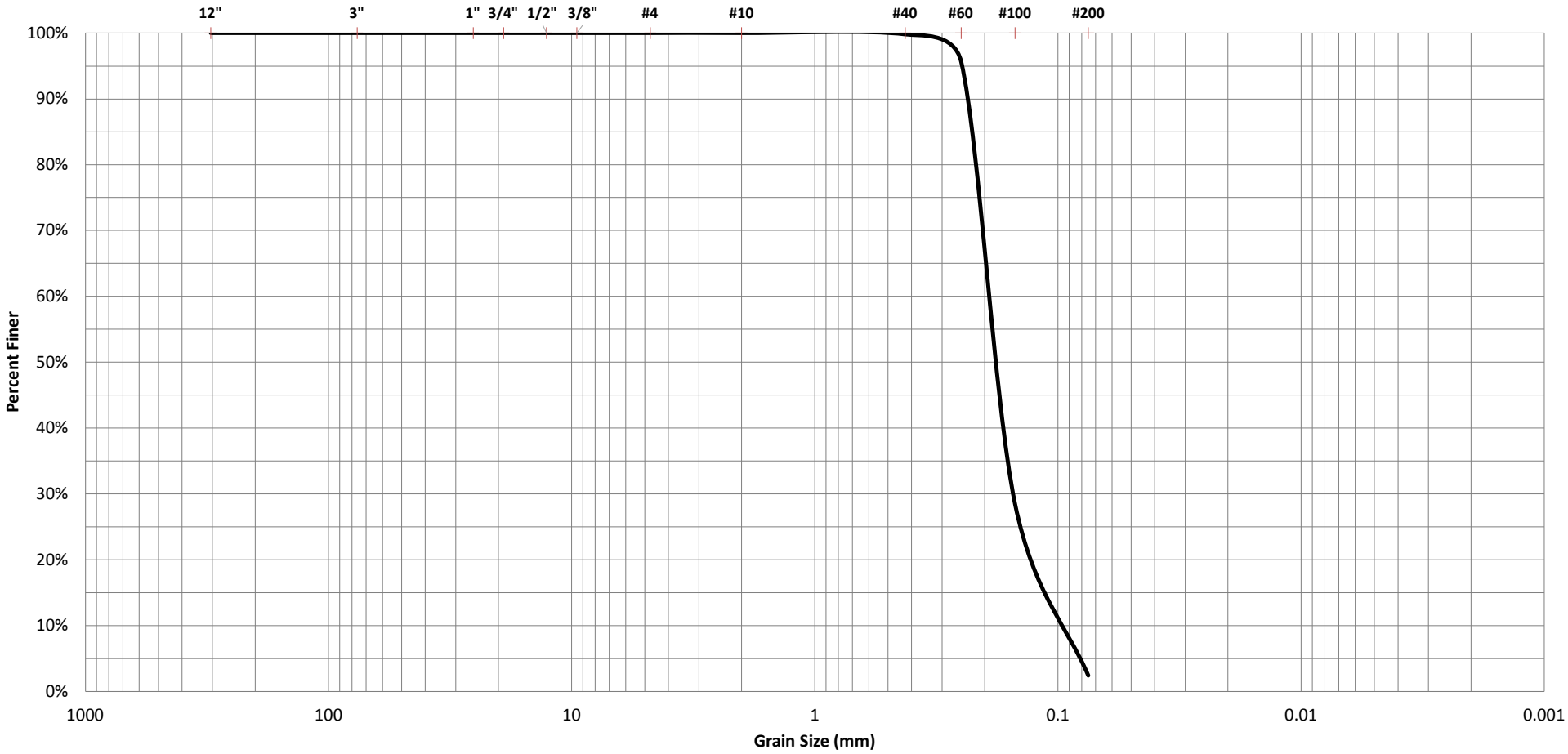
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-11 (3)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	11-16

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
7	-	-	-	Light Brown Slightly Silty Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

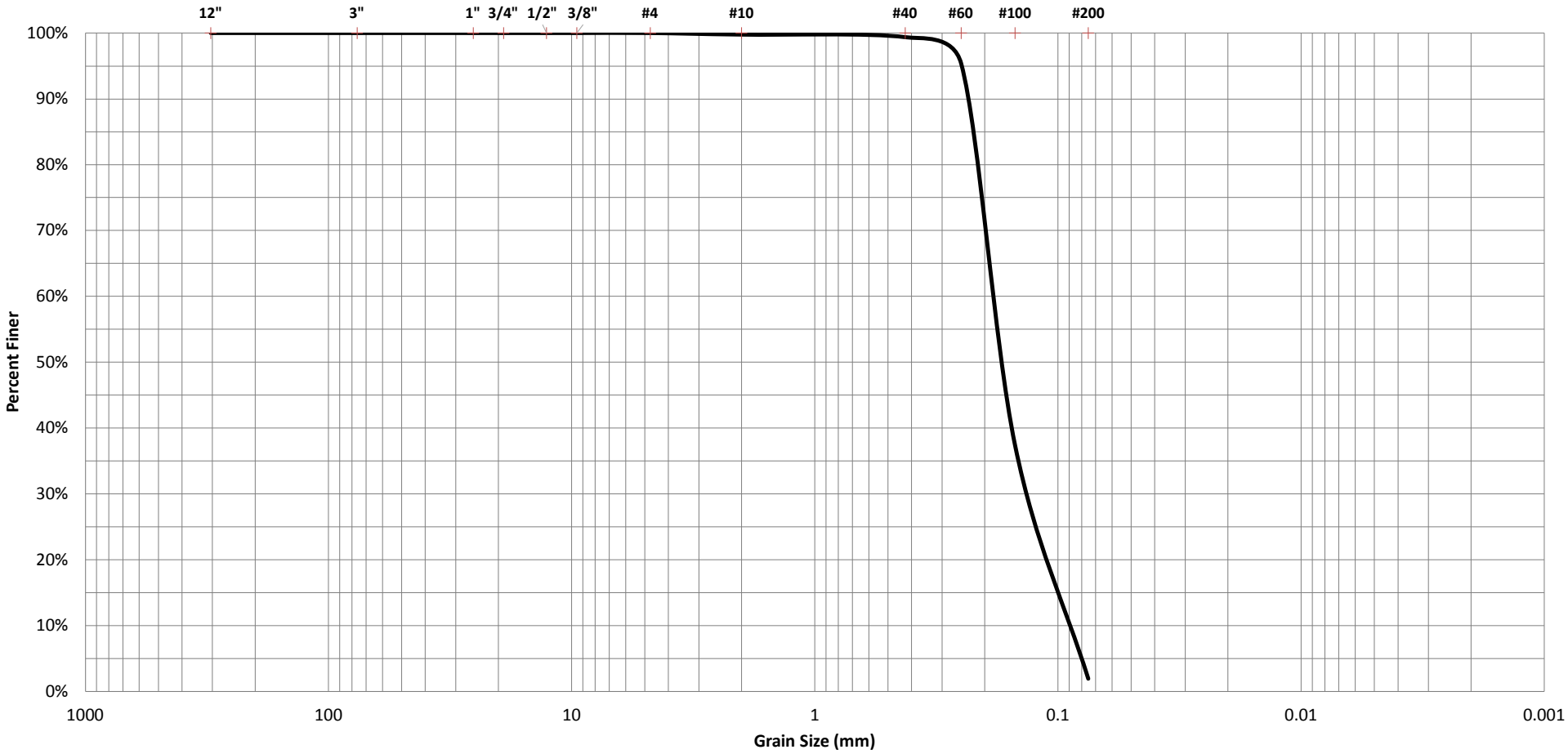
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-19 (2)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	1.5-3

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
23	-	-	-	Light Brown Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

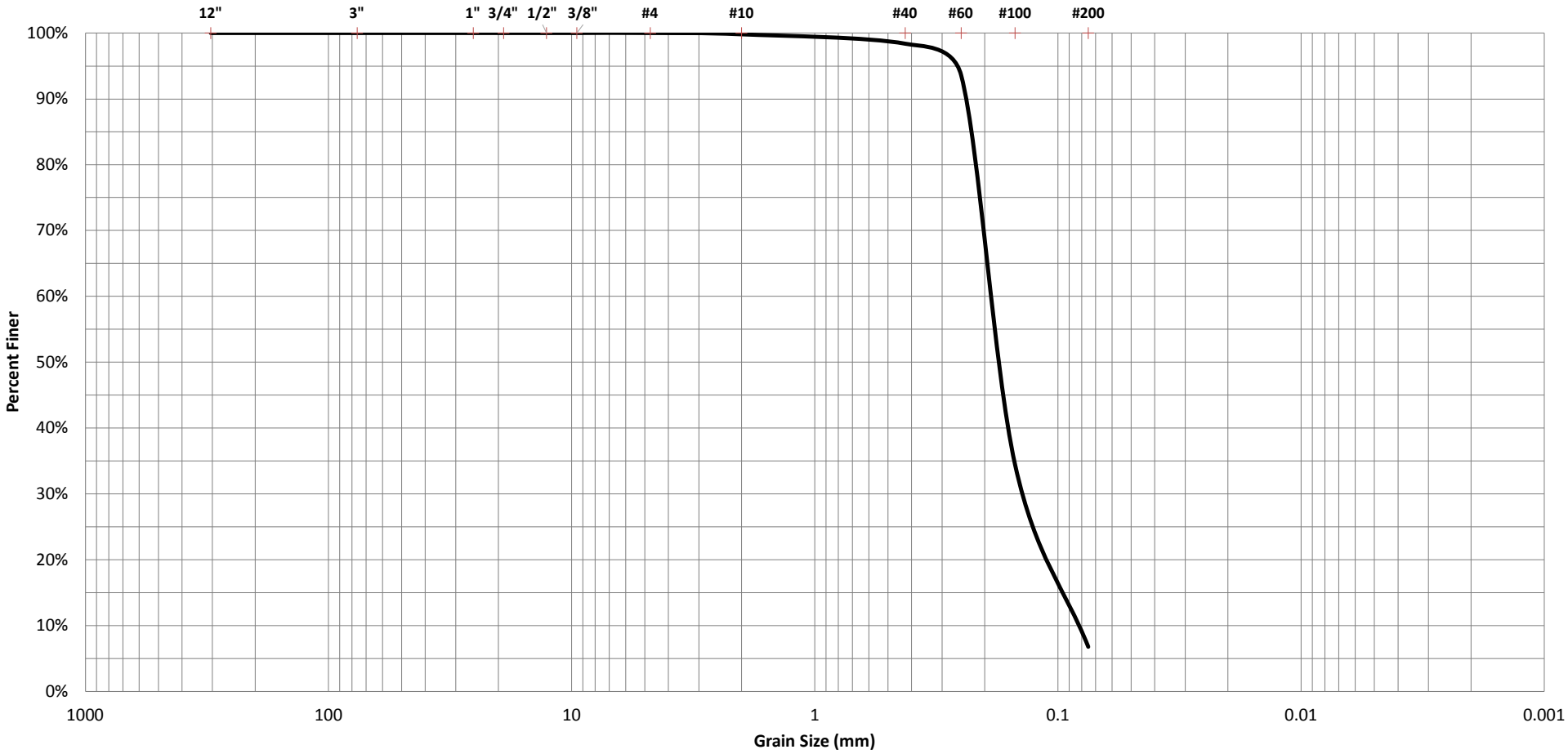
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-23 (3)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	3-5

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
22	-	-	-	Gray Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

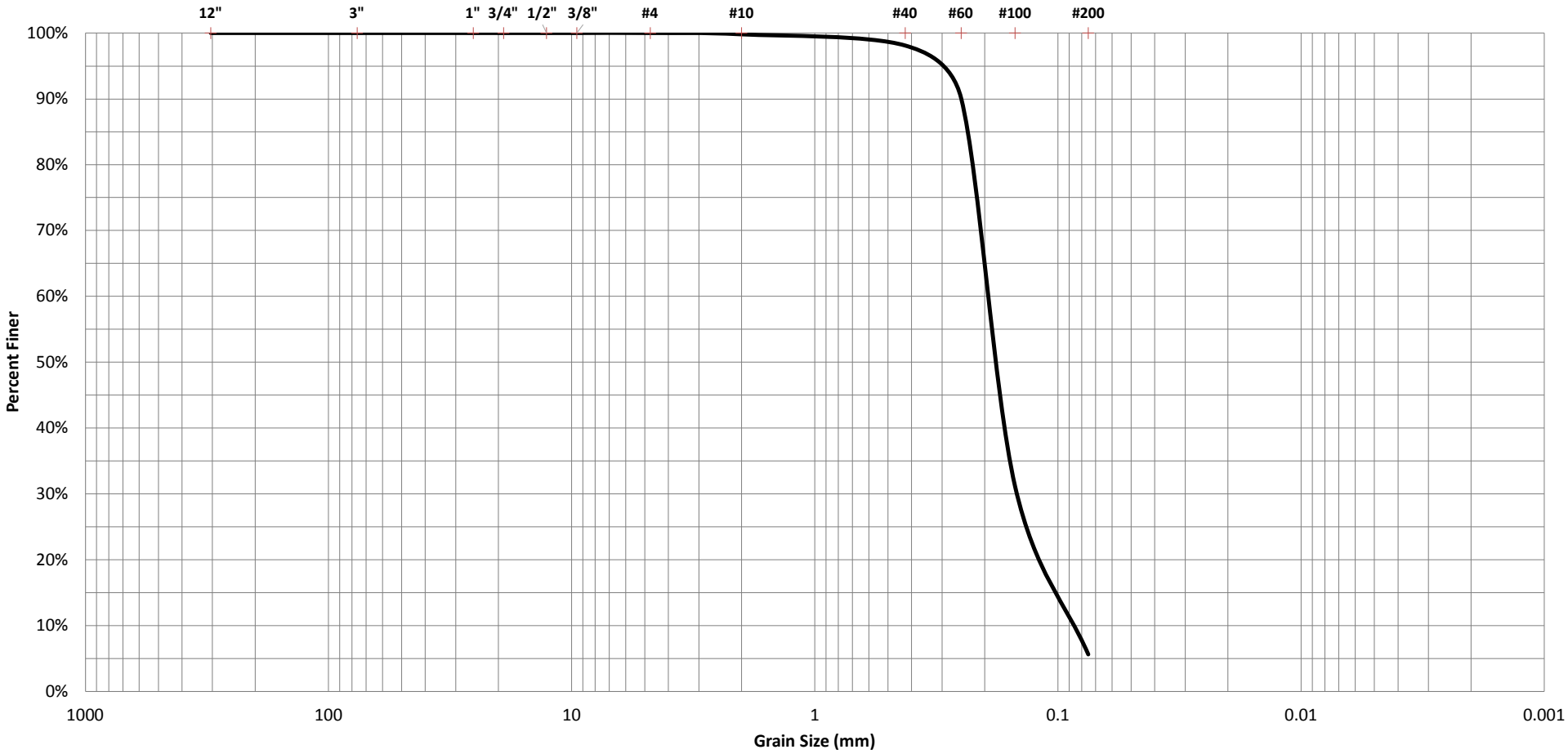
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-29 (2)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	1.5-3

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
29	-	-	-	Dark Brown Organic Fine SAND with trace of roots	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

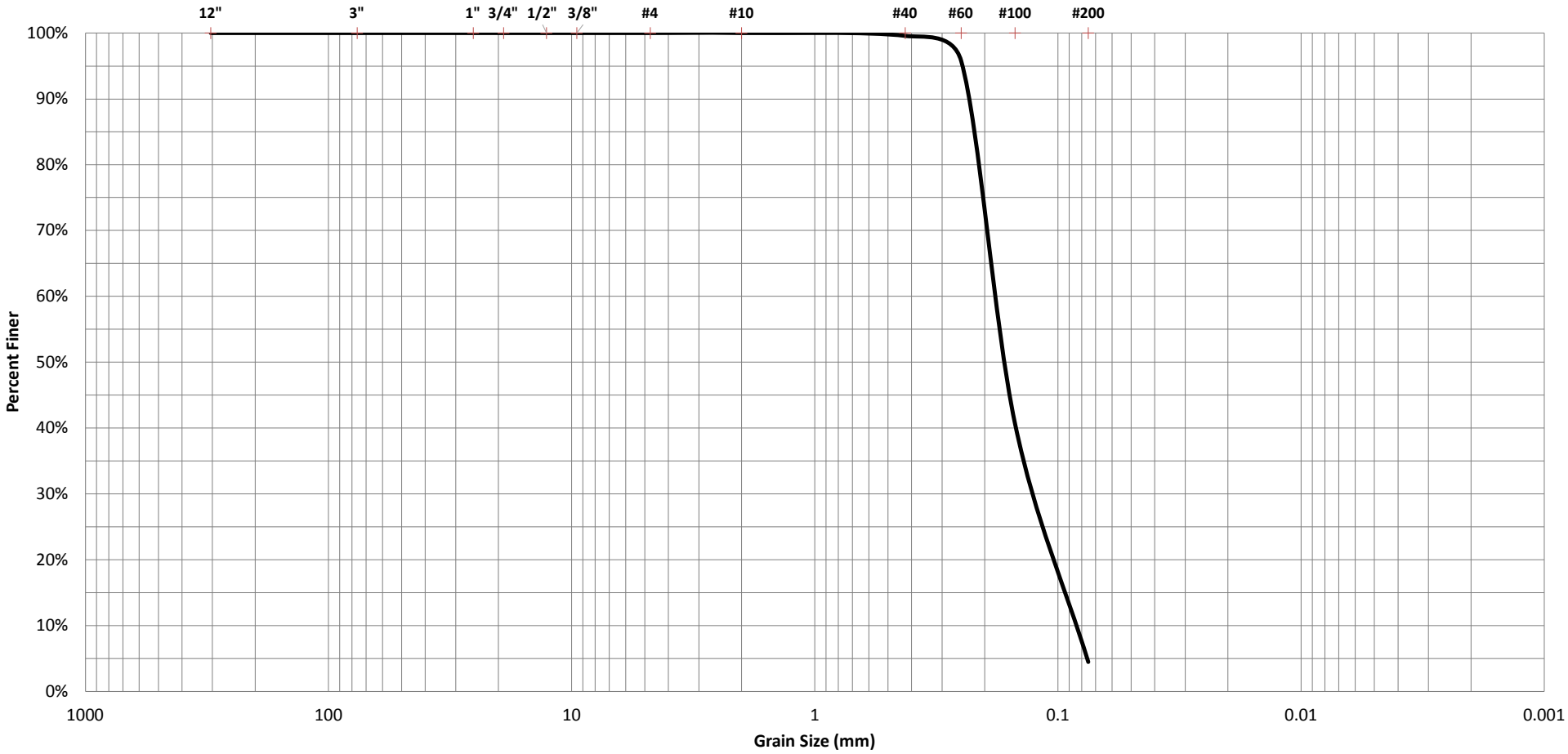
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-34 (2)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	2-4

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
30	-	-	-	Dark Gray Organic Slightly Silty Fine SAND with trace of roots	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

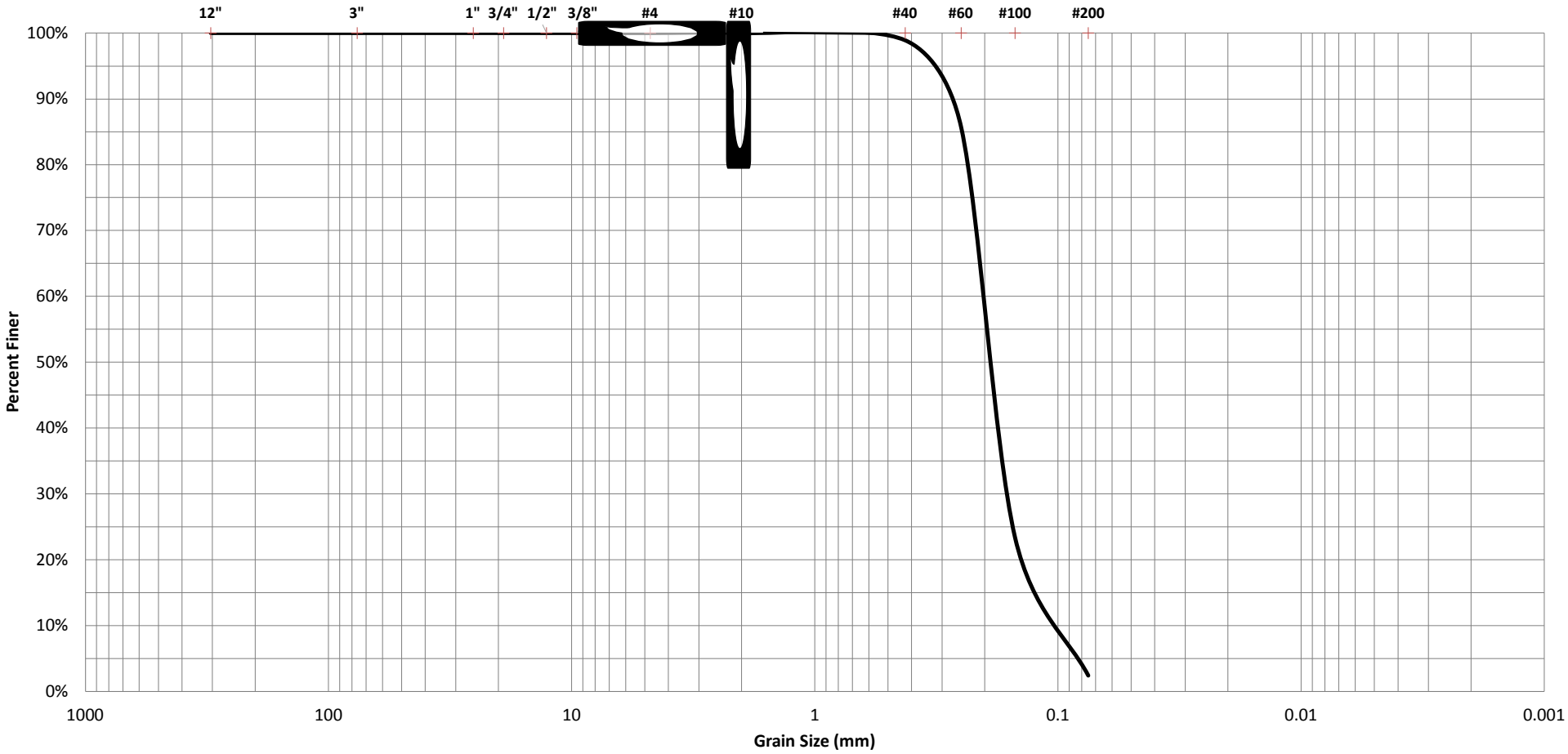
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-46 (3)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	9-12

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
55	-	-	-	Light Brown Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

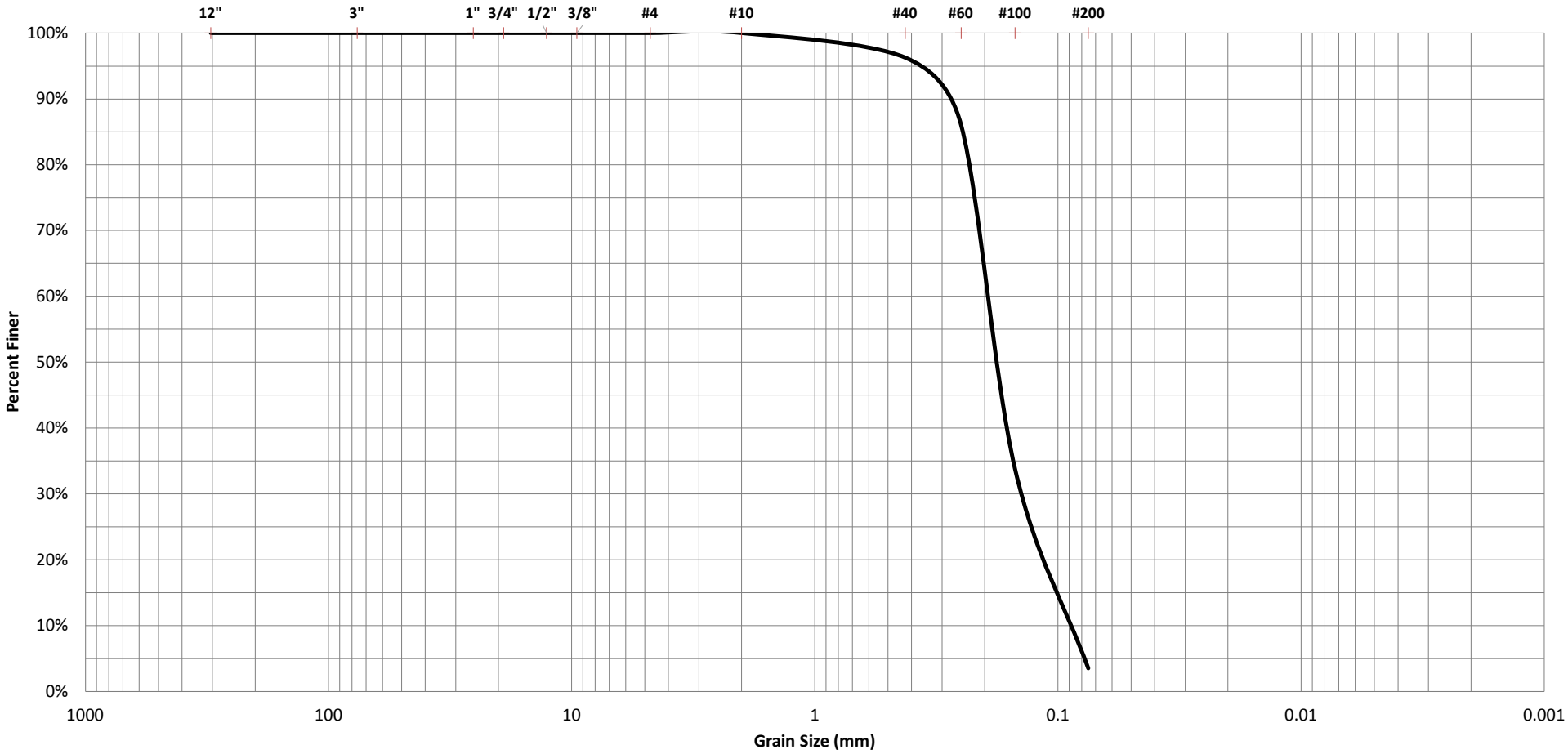
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-73 (2)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	2-4

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
5	-	-	-	Light Brown Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

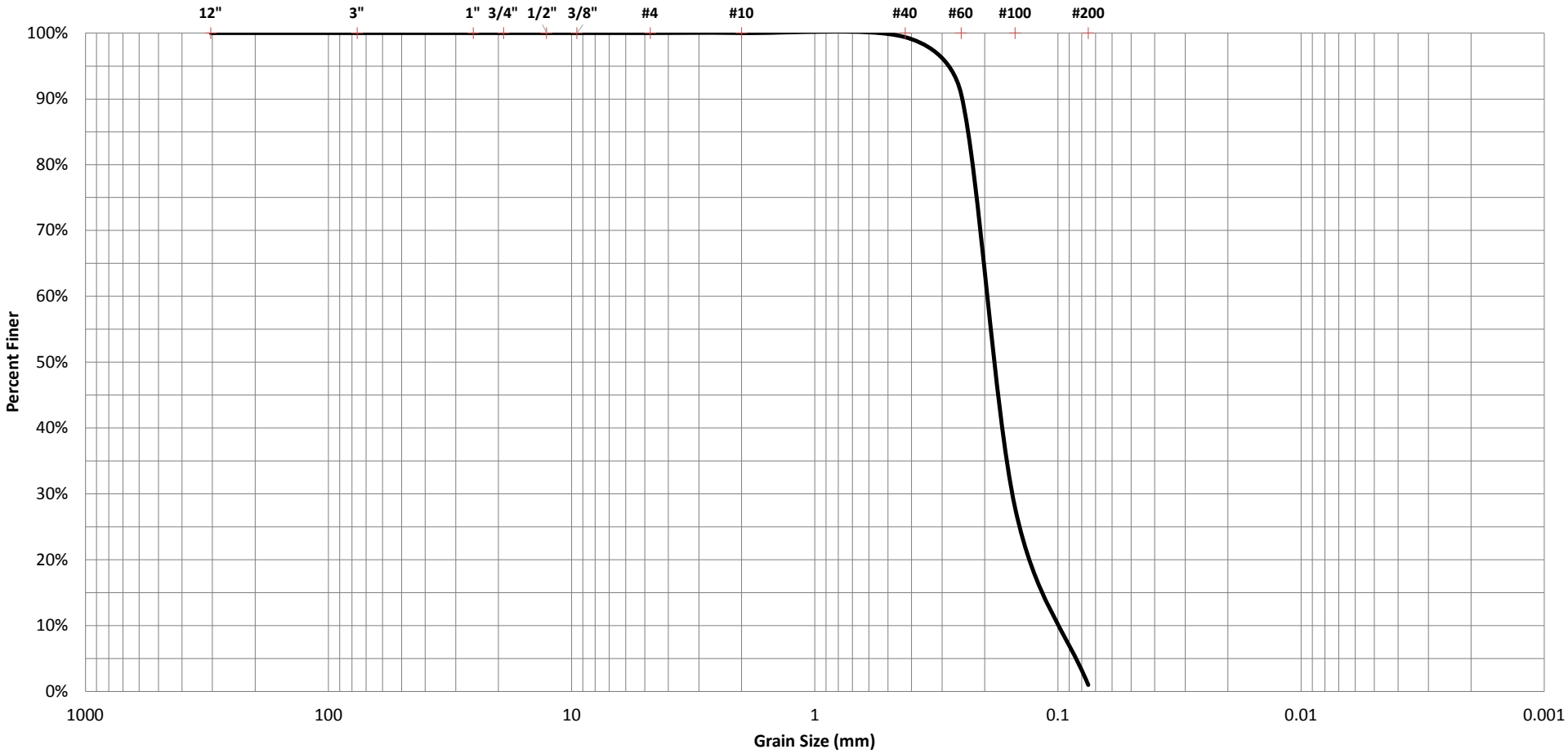
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-87 (4)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	5-7

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
9	-	-	-	Dark Brown Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

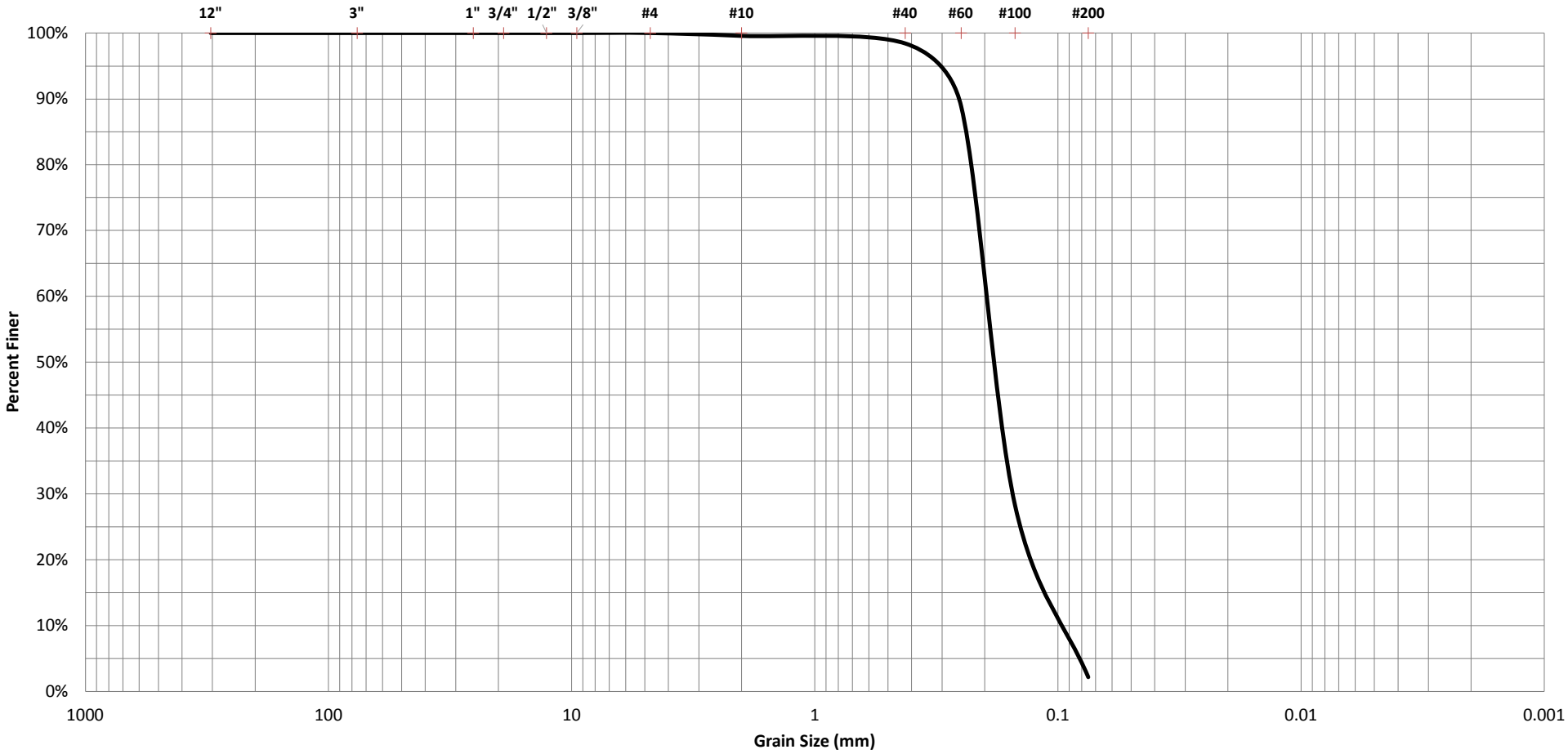
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-79 (3)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	4-5

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
6	-	-	-	Light Brown Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

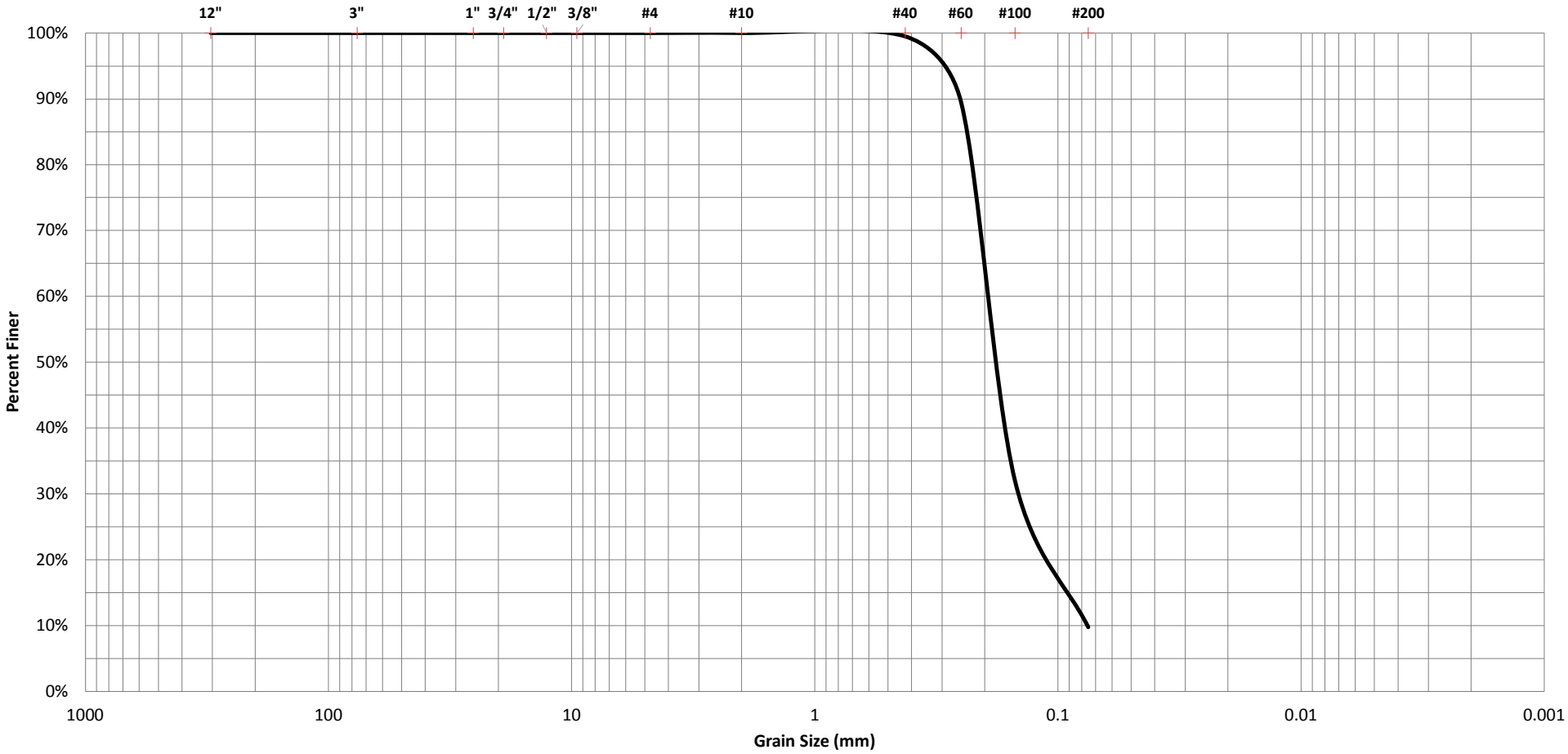
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-81 (2)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	2-4

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
7	-	-	-	Light Brown Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

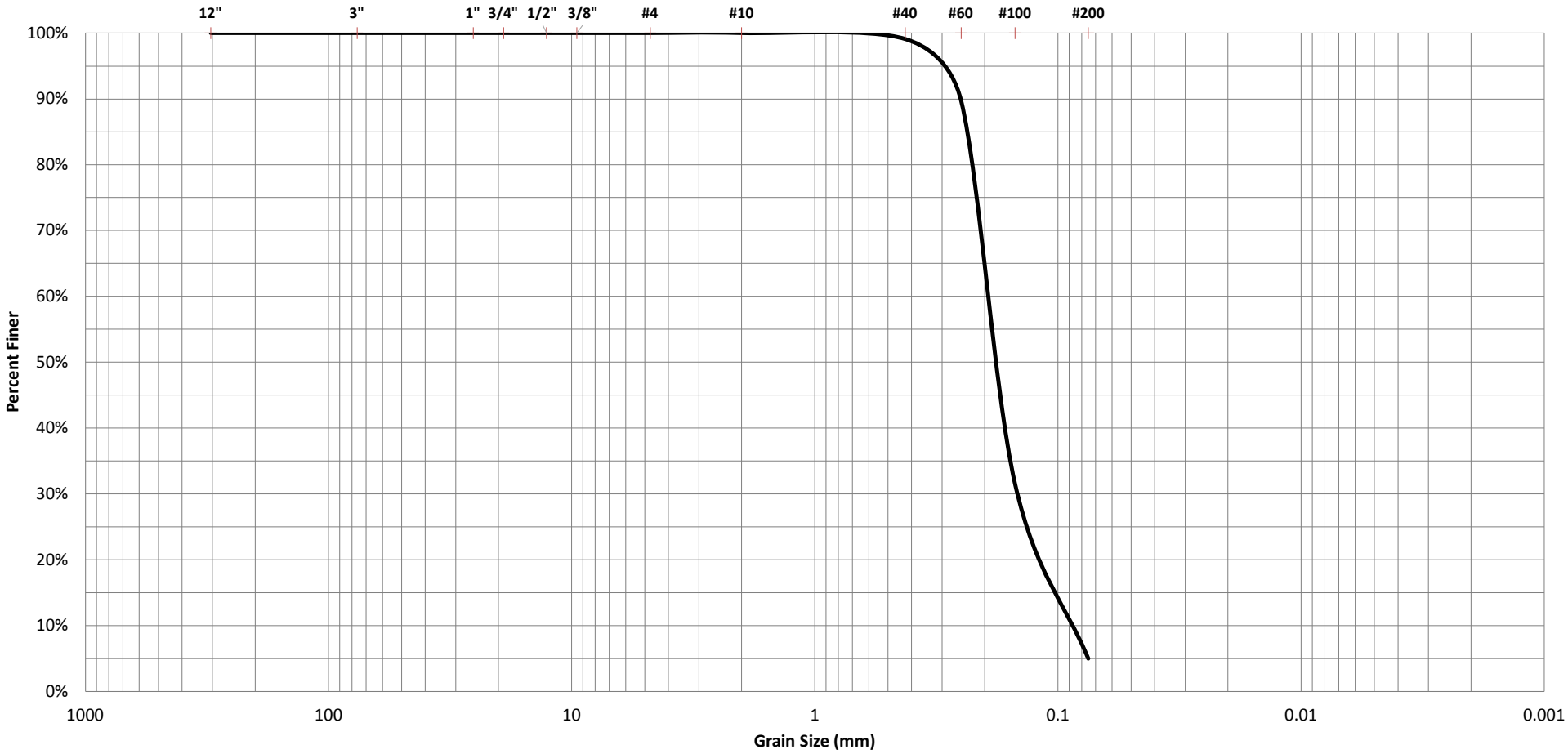
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-82 (5)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	7.5-13.5

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
12	-	-	-	Dark Brown Slightly Silty Fine SAND with trace of organics	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

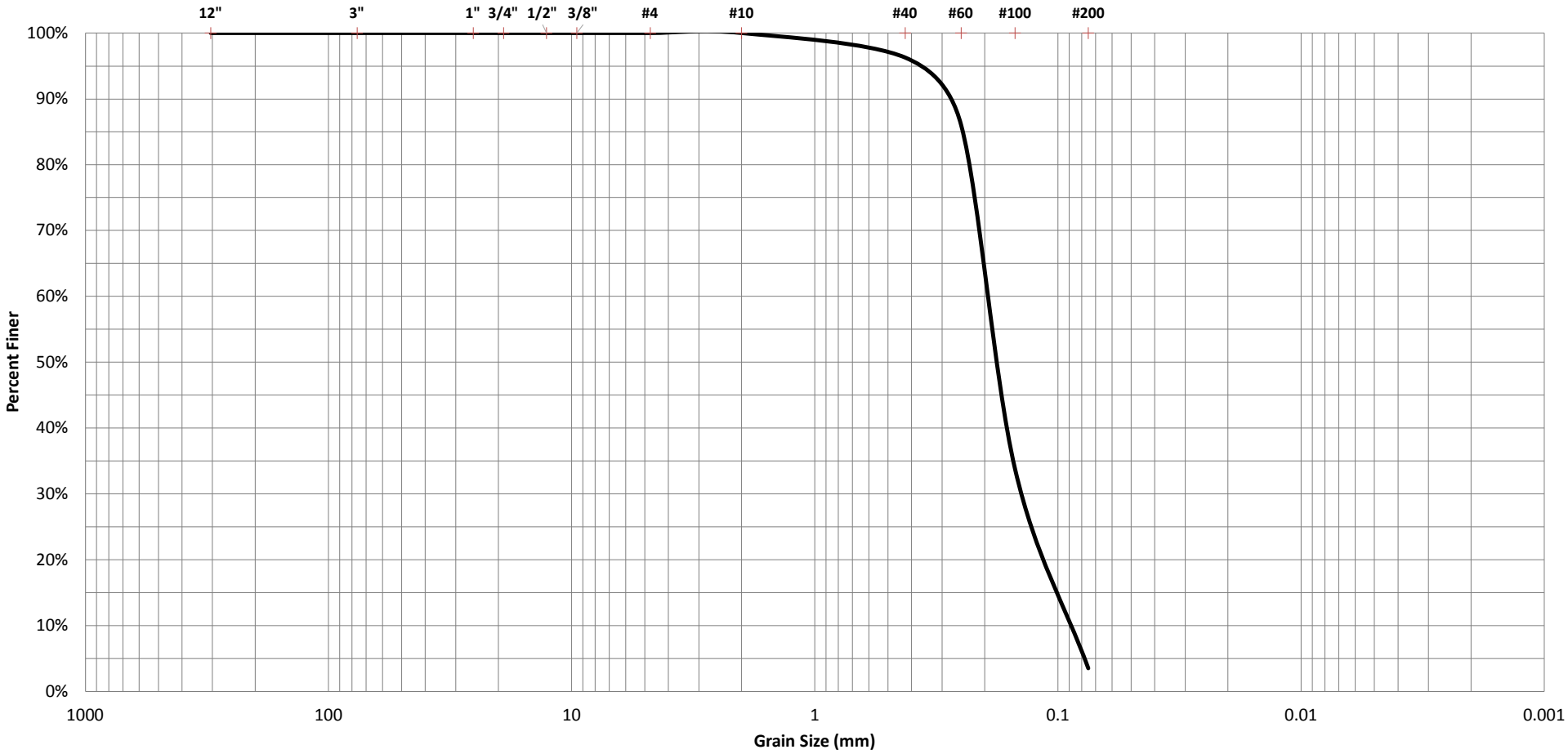
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-83 (3)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	4-5

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
13	-	-	-	Brown Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

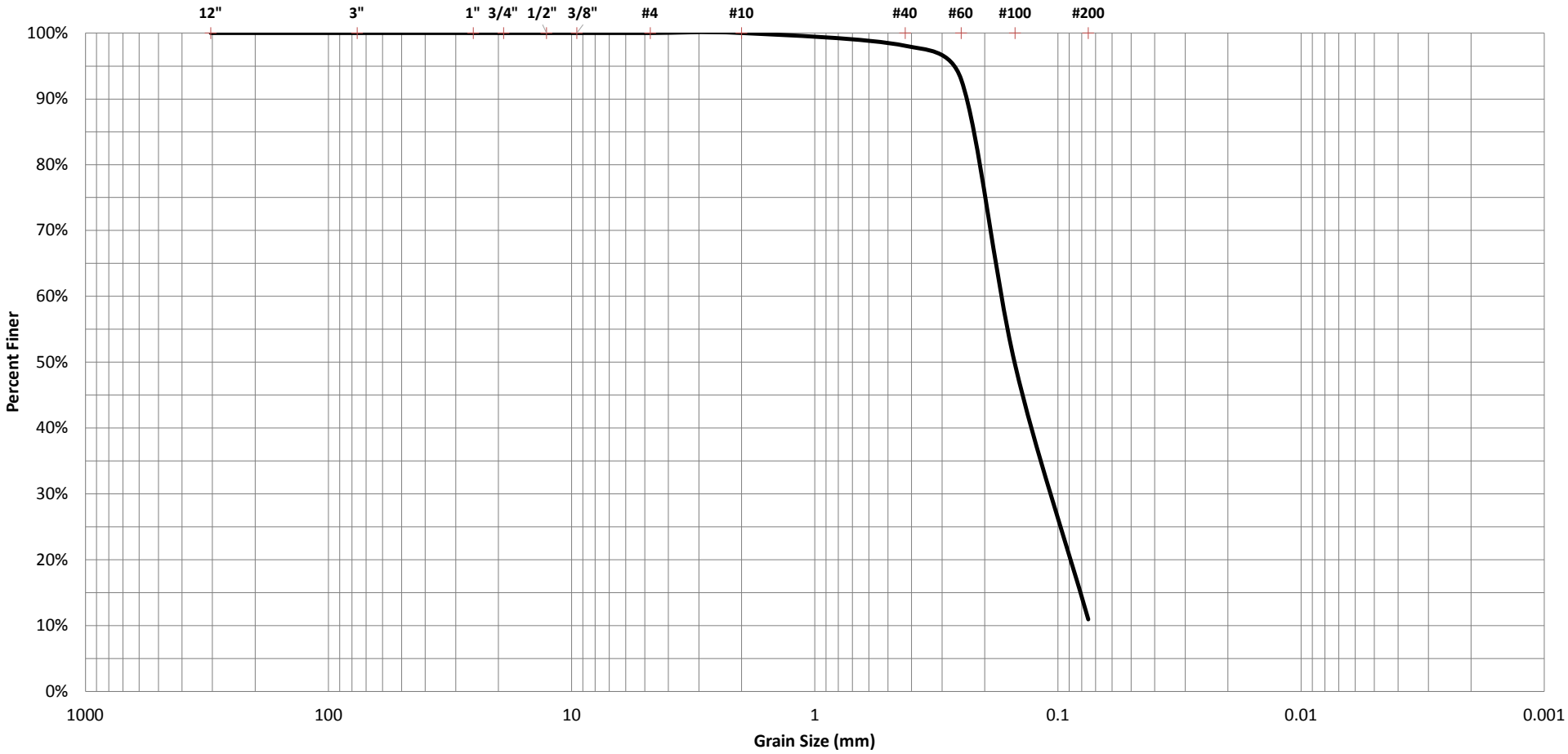
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-87 (4)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	5-7

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
9	-	-	-	Dark Brown Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

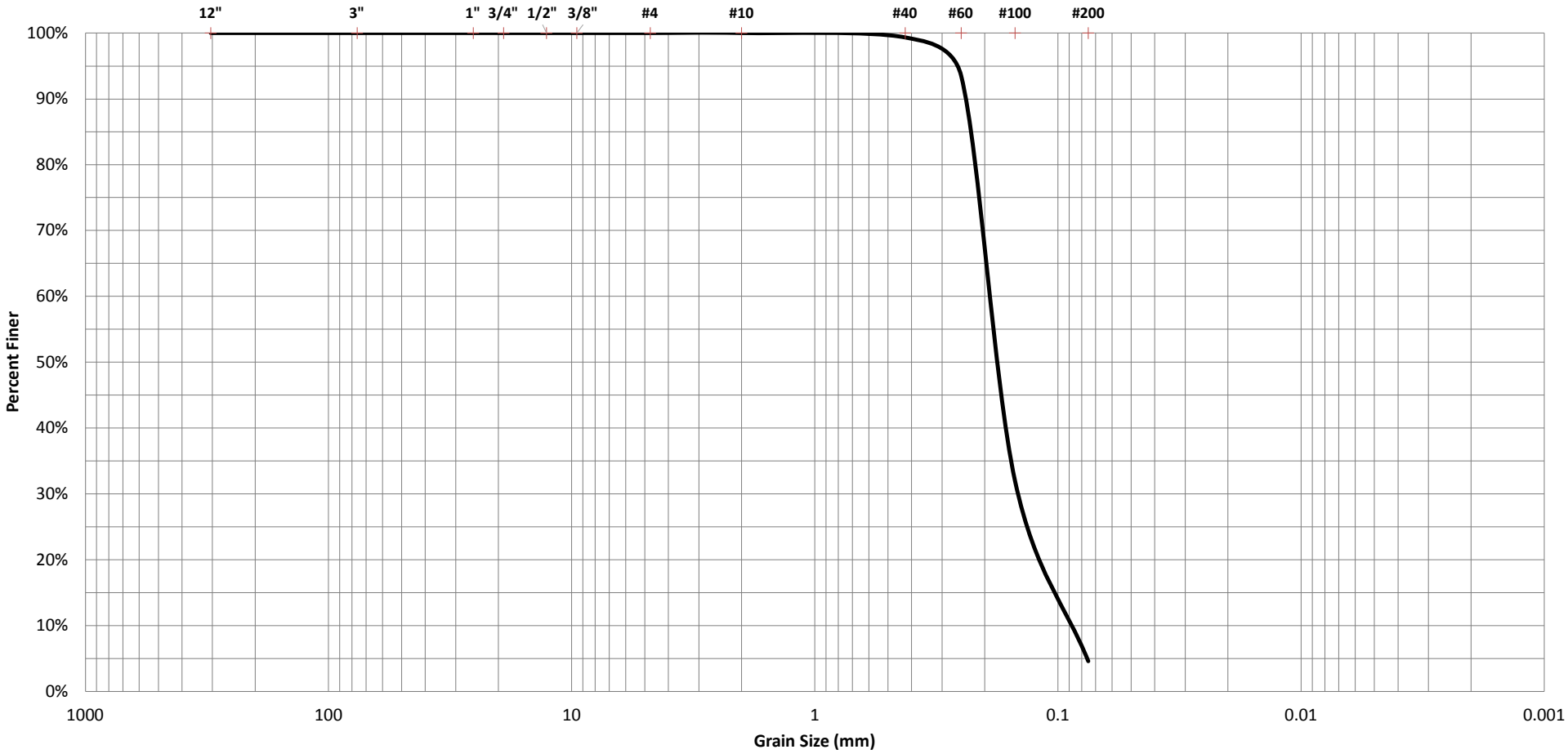
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-91 (6)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	12-13

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
19	-	-	-	Light Brown Slightly Silty Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	A-95 (2)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	1.5-2.5

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
27	-	-	-	Dark Brown Slightly Silty Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Existing Pavement System Thickness

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Summary of Pavement System Layers Thickness
William Burgess Boulevard Extension
Nassau County, Florida

Boring No.	Baseline	Station	Offset	Pavement Layer Thickness	
				Asphalt (in)	Limerock (in)
C-1	BL_William Burgess_BLVD	12+00	11	3	7
C-2	BL_William Burgess_BLVD	12+95	-80	4 1/2	11
C-3	BL_William Burgess_BLVD	13+20	-42	4	5 1/4
C-4	BL_William Burgess_BLVD	13+20	50	4 1/2	
C-5	BL_William Burgess_BLVD	13+95	90	3 1/2	11
C-6	BL_William Burgess_BLVD	82+90	-12	2 1/2	-
C-7	BL_William Burgess_BLVD	91+00	-7	2 1/2	7 1/2
C-8	BL_William Burgess_BLVD	93+00	-6	2	9
C-9	BL_William Burgess_BLVD	96+00	-7	2 1/2	7 1/2
C-10	BL_William Burgess_BLVD	103+30	-104	4	9
C-11	BL_THERESA_CT	200+00	0	4 1/2	8 1/2
C-12	BL_THERESA_CT	201+46	24	2	4

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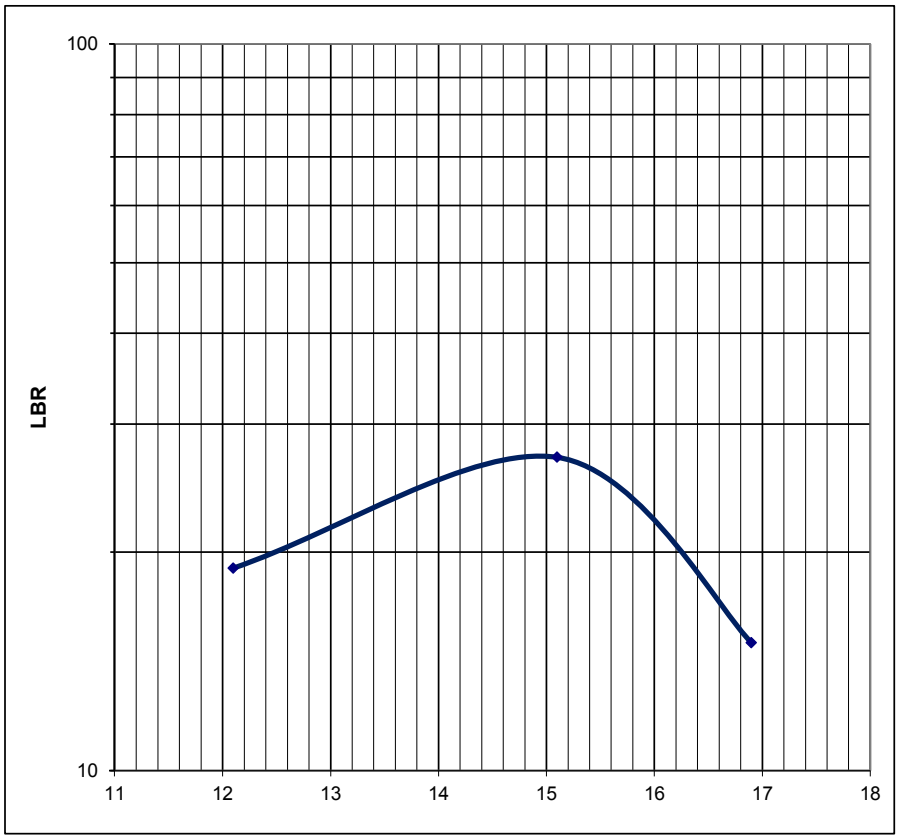
Summary of Limerock Bearing Ratio Test Results

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

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Geotechnical · CMT · CEI
2394 St. Johns Bluff Rd. S, Suite 200, JACKSONVILLE, FLORIDA 32246 / (904) 641-1993

LIMEROCK BEARING RATIO (LBR) AND MODIFIED PROCTOR COMPACTION TEST RESULTS

LIMEROCK BEARING RATIO (LBR) RESULTS



DATE: **04-Mar-20**

PROJECT: **William Burgess Boulevard Extension**
Nassau County, Florida

CSI JOB No.: **71-19-133-08**

SAMPLE NO: **LBR - 1**

LOCATION: **A-4**

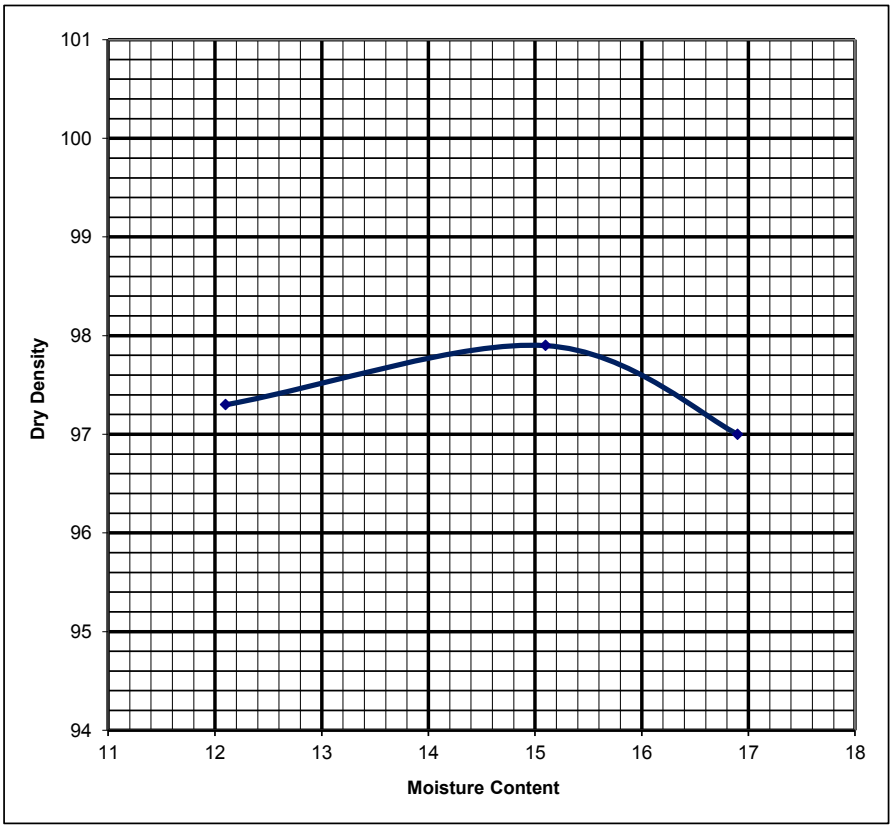
STATION: **13+95**
OFFSET: **43' RT**

Sample Depth: **12"**

SOIL DESCRIPTION:
Dark Brown & Gray Fine SAND (A-3)

MAXIMUM LBR VALUE: **27**

Modified Proctor Test Results



MAXIMUM DENSITY (PCF): **97.9**

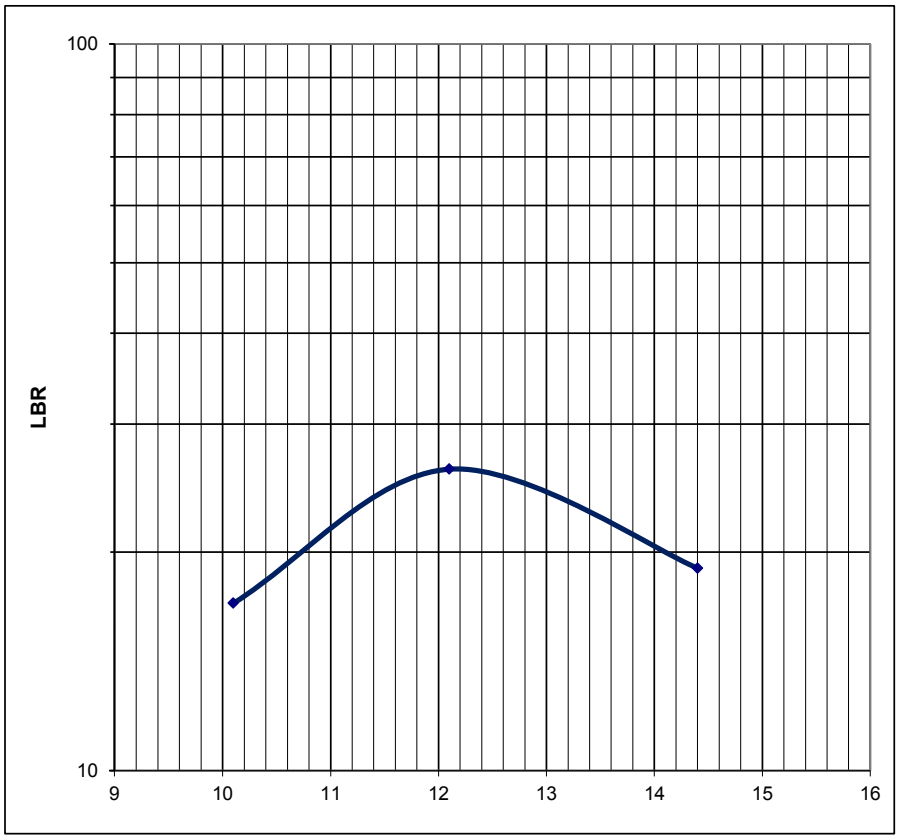
OPTIMUM MOISTURE (%): **15.1**

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

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2394 St. Johns Bluff Rd. S, Suite 200, JACKSONVILLE, FLORIDA 32246 / (904) 641-1993

LIMEROCK BEARING RATIO (LBR) AND MODIFIED PROCTOR COMPACTION TEST RESULTS

LIMEROCK BEARING RATIO (LBR) RESULTS



DATE: **04-Mar-20**

PROJECT: **William Burgess Boulevard Extension**
Nassau County, Florida

CSI JOB No.: **71-19-133-08**

SAMPLE NO: **LBR - 2**

LOCATION: **A-19**

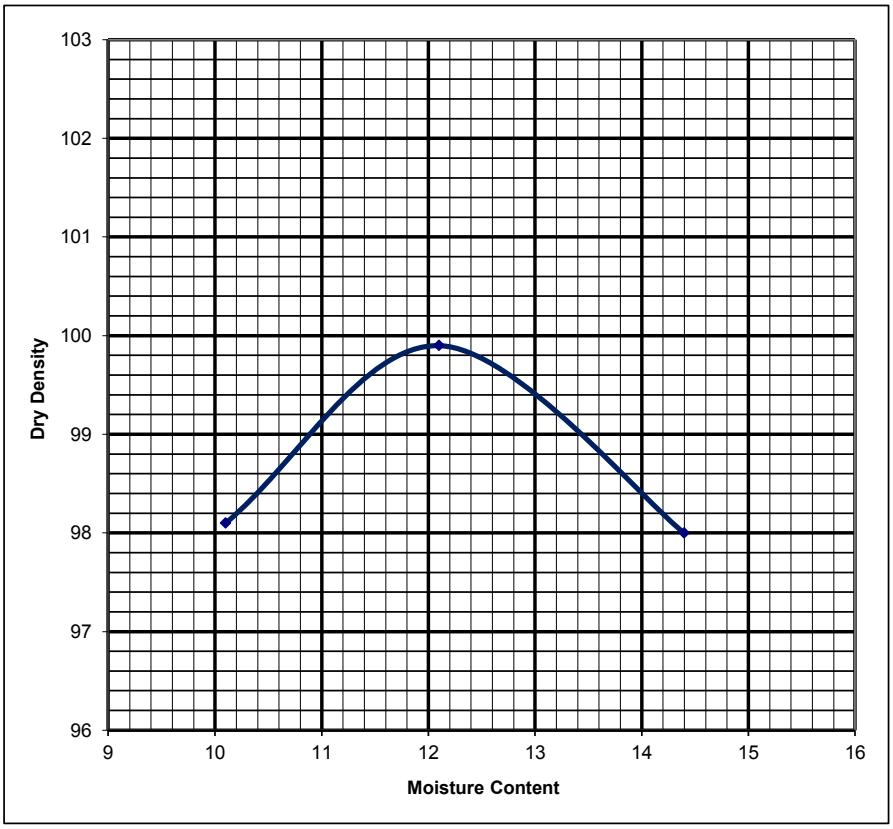
STATION: **28+90**
OFFSET: **15' RT**

Sample Depth: **12"**

SOIL DESCRIPTION:
Dark Brown Fine SAND (A-3)

MAXIMUM LBR VALUE: **26**

Modified Proctor Test Results



MAXIMUM DENSITY (PCF): **99.9**

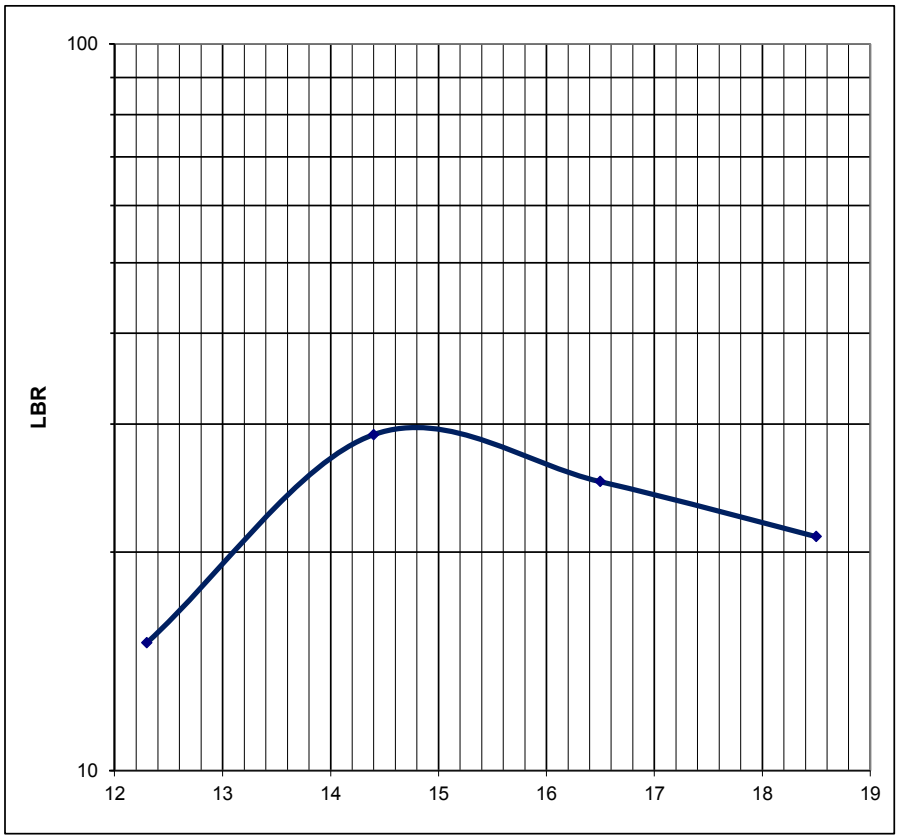
OPTIMUM MOISTURE (%): **12.1**

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

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LIMEROCK BEARING RATIO (LBR) AND MODIFIED PROCTOR COMPACTION TEST RESULTS

LIMEROCK BEARING RATIO (LBR) RESULTS



DATE: **04-Mar-20**

PROJECT: **William Burgess Boulevard Extension**
Nassau County, Florida

CSI JOB No.: **71-19-133-08**

SAMPLE NO: **LBR - 3**

LOCATION: **A-34**

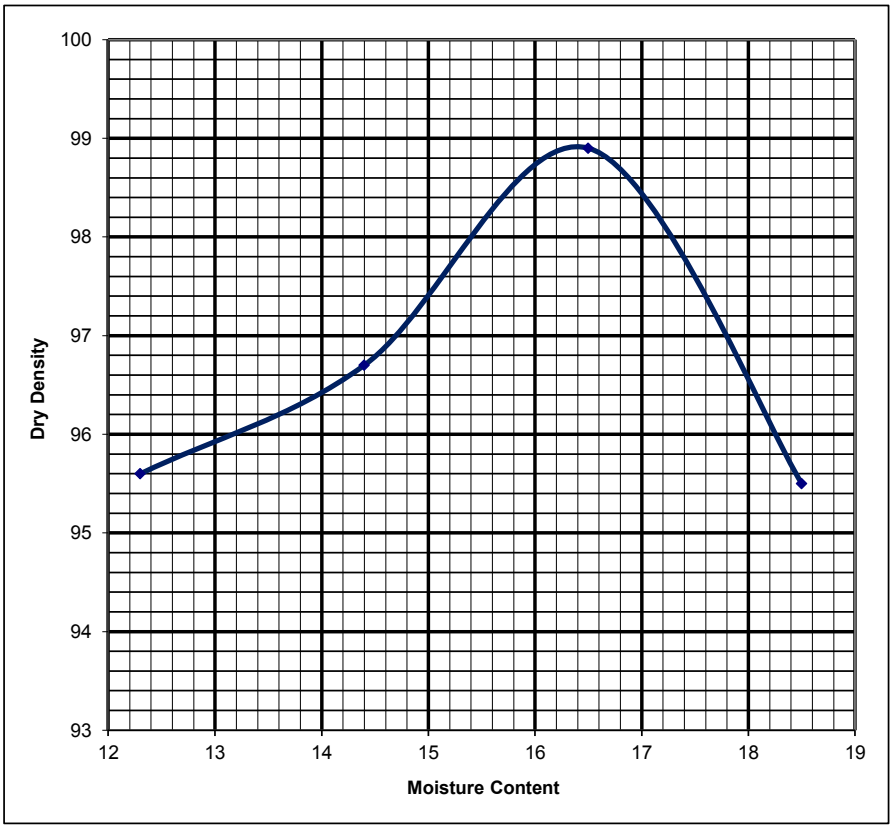
STATION: **43+88**
OFFSET: **16' RT**

Sample Depth: **12"**

SOIL DESCRIPTION:
Light Gray Fine SAND (A-3)

MAXIMUM LBR VALUE: **29**

Modified Proctor Test Results



MAXIMUM DENSITY (PCF): **98.9**

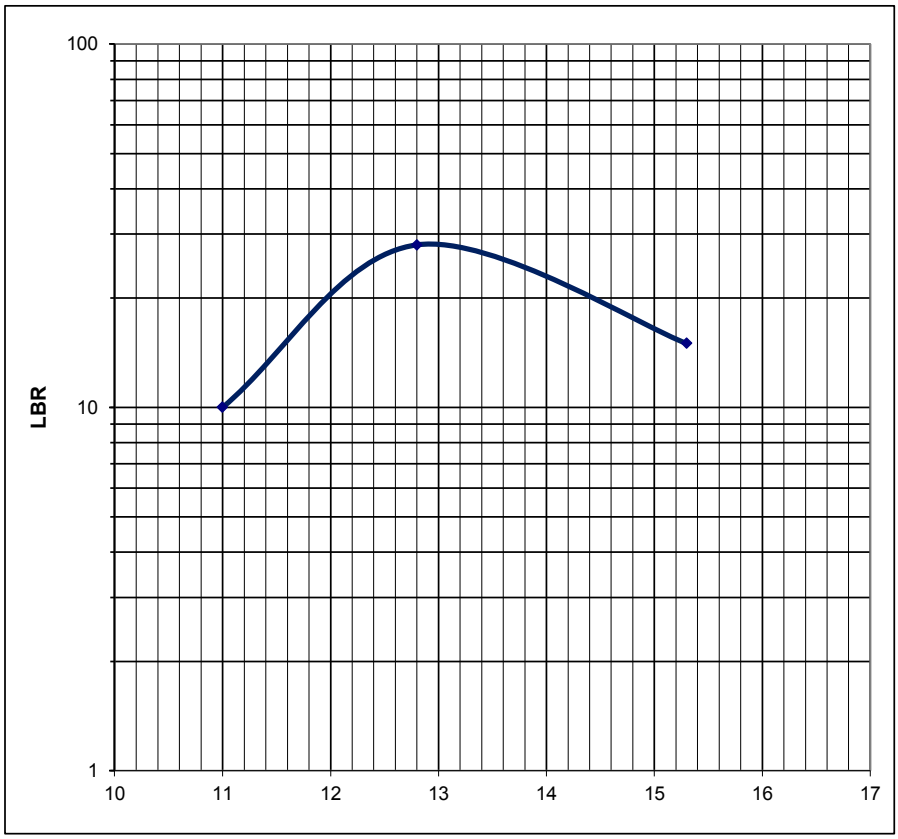
OPTIMUM MOISTURE (%): **16.4**

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

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LIMEROCK BEARING RATIO (LBR) AND MODIFIED PROCTOR COMPACTION TEST RESULTS

LIMEROCK BEARING RATIO (LBR) RESULTS



DATE: **04-Mar-20**

PROJECT: **William Burgess Boulevard Extension**
Nassau County, Florida

CSI JOB No.: **71-19-133-08**

SAMPLE NO: **LBR - 4**

LOCATION: **A-45**

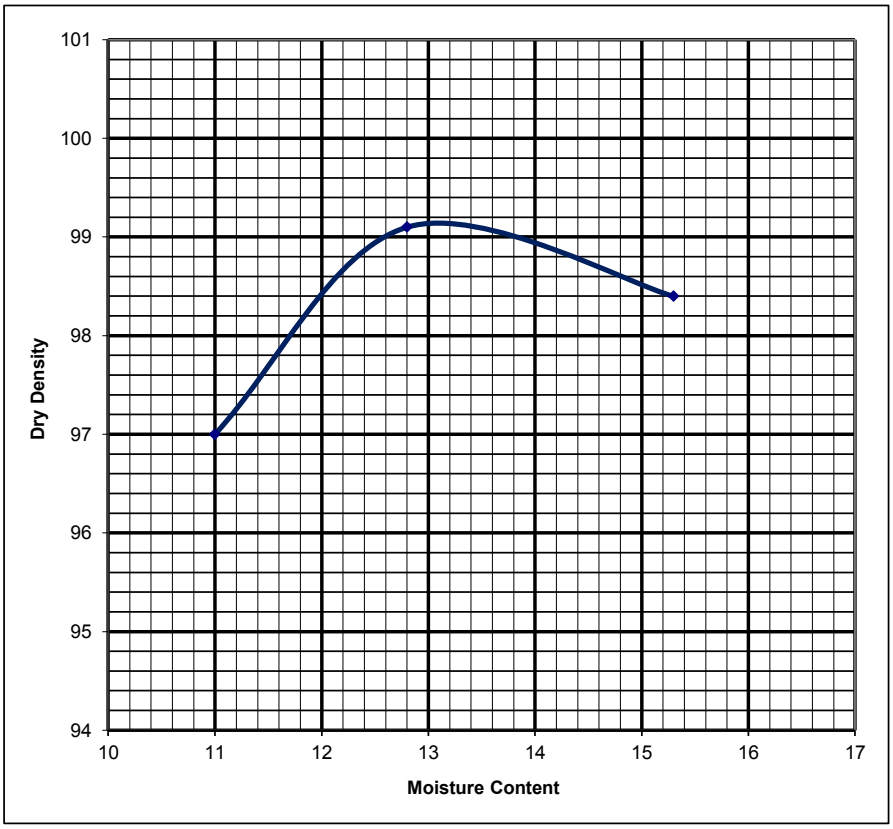
STATION: **53+83**
OFFSET: **12' RT**

Sample Depth: **12"**

SOIL DESCRIPTION:
Light Brown Fine SAND (A-3)

MAXIMUM LBR VALUE: **28**

Modified Proctor Test Results



MAXIMUM DENSITY (PCF): **99.2**

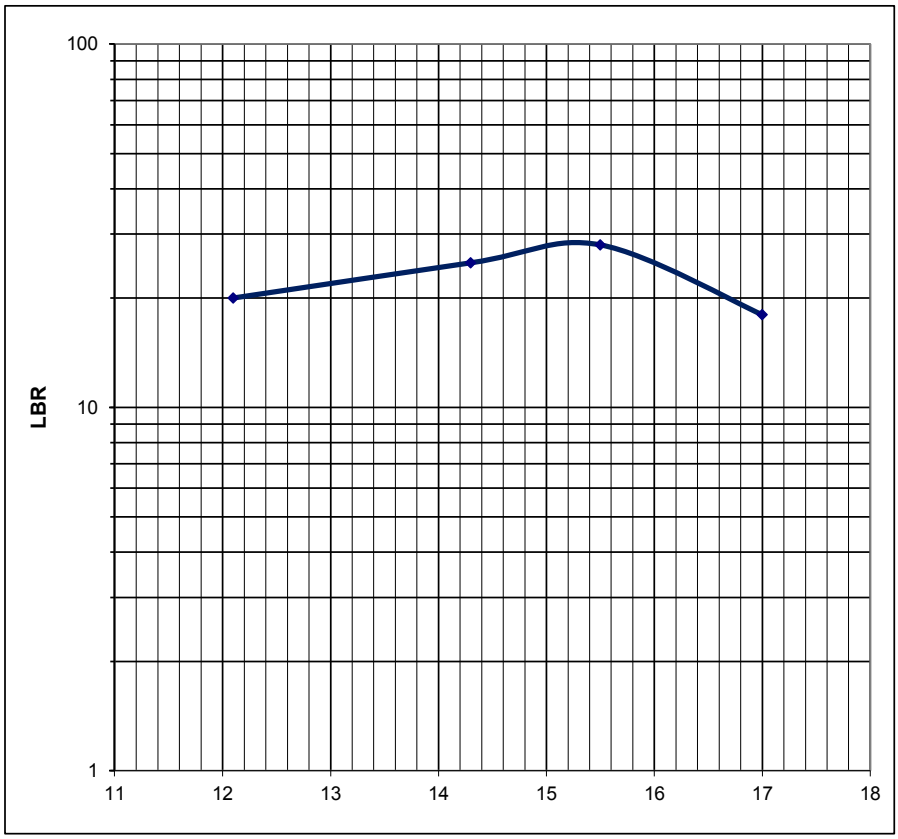
OPTIMUM MOISTURE (%): **13.1**

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

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LIMEROCK BEARING RATIO (LBR) AND MODIFIED PROCTOR COMPACTION TEST RESULTS

LIMEROCK BEARING RATIO (LBR) RESULTS



DATE: **04-Mar-20**

PROJECT: **William Burgess Boulevard Extension**
Nassau County, Florida

CSI JOB No.: **71-19-133-08**

SAMPLE NO: **LBR - 5**

LOCATION: **A-59**

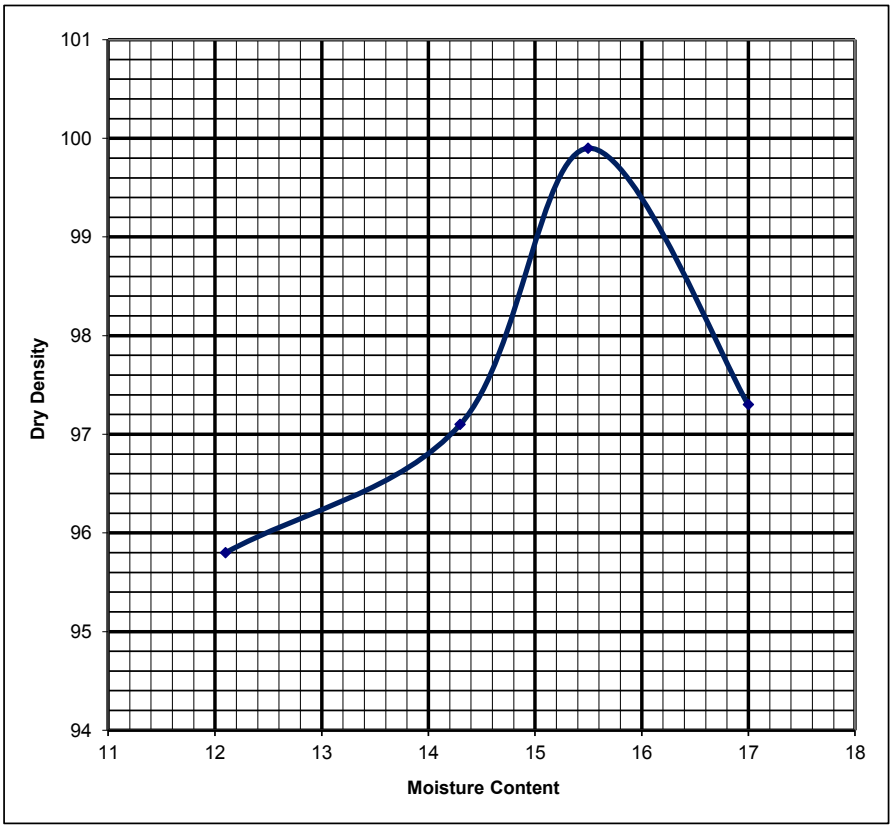
STATION: **68+79**
OFFSET: **CL**

Sample Depth: **12"**

SOIL DESCRIPTION:
Brown to Light Brown Fine SAND (A-3)

MAXIMUM LBR VALUE: **28**

Modified Proctor Test Results



MAXIMUM DENSITY (PCF): **99.9**

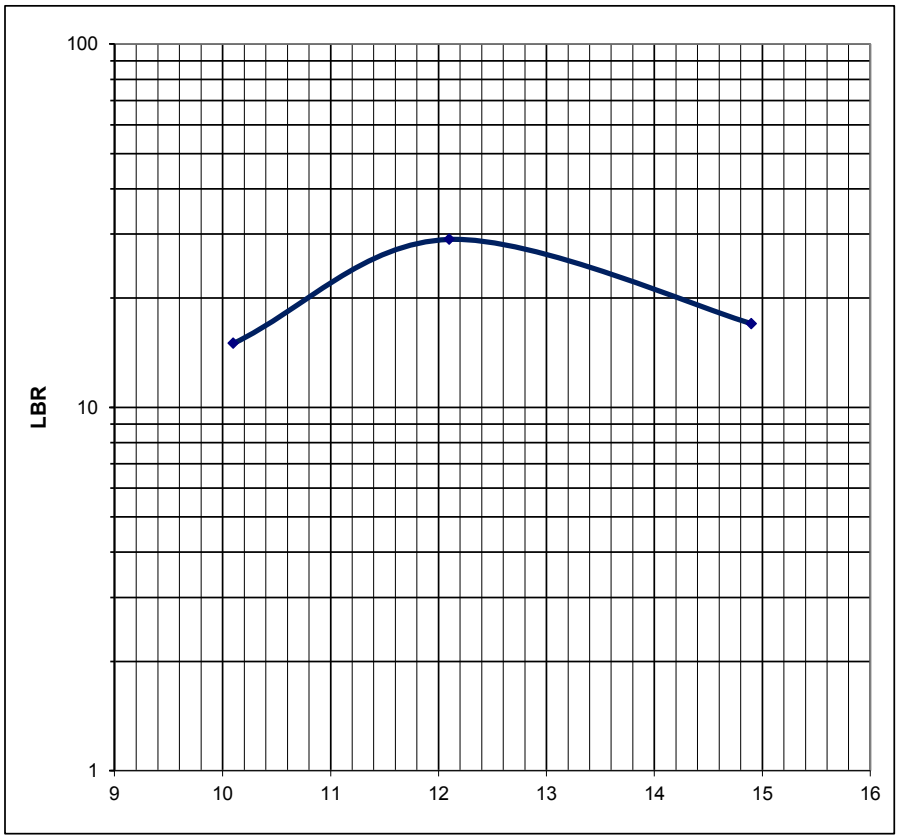
OPTIMUM MOISTURE (%): **15.5**

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

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LIMEROCK BEARING RATIO (LBR) AND MODIFIED PROCTOR COMPACTION TEST RESULTS

LIMEROCK BEARING RATIO (LBR) RESULTS



DATE: **04-Mar-20**

PROJECT: **William Burgess Boulevard Extension**
Nassau County, Florida

CSI JOB No.: **71-19-133-08**

SAMPLE NO: **LBR - 6**

LOCATION: **A-71**

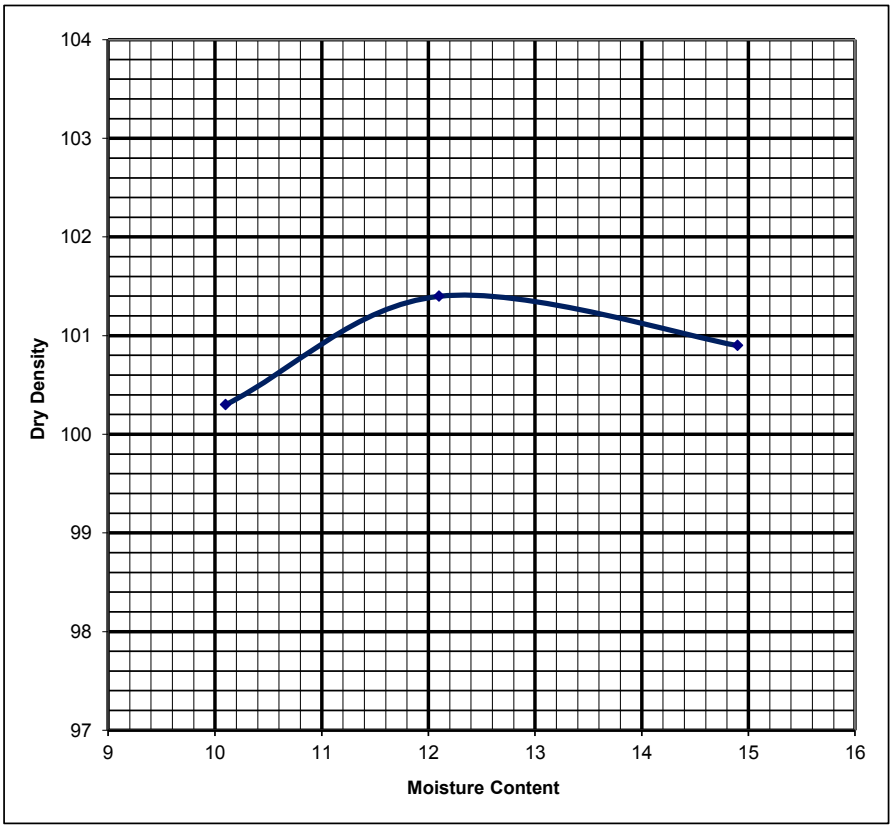
STATION: **83+79**
OFFSET: **18' LT**

Sample Depth: **12"**

SOIL DESCRIPTION:
Light Brown Fine SAND (A-3)

MAXIMUM LBR VALUE: **29**

Modified Proctor Test Results



MAXIMUM DENSITY (PCF): **101.4**

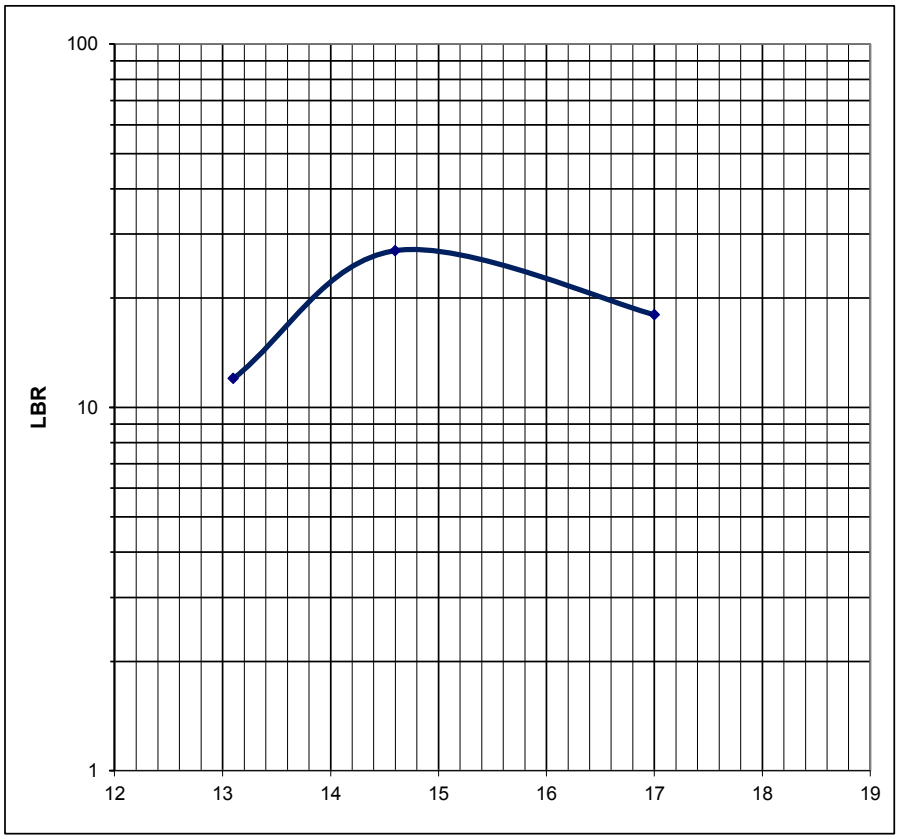
OPTIMUM MOISTURE (%): **12.1**

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

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LIMEROCK BEARING RATIO (LBR) AND MODIFIED PROCTOR COMPACTION TEST RESULTS

LIMEROCK BEARING RATIO (LBR) RESULTS



DATE: **04-Mar-20**

PROJECT: **William Burgess Boulevard Extension**
Nassau County, Florida

CSI JOB No.: **71-19-133-08**

SAMPLE NO: **LBR - 7**

LOCATION: **A-86**

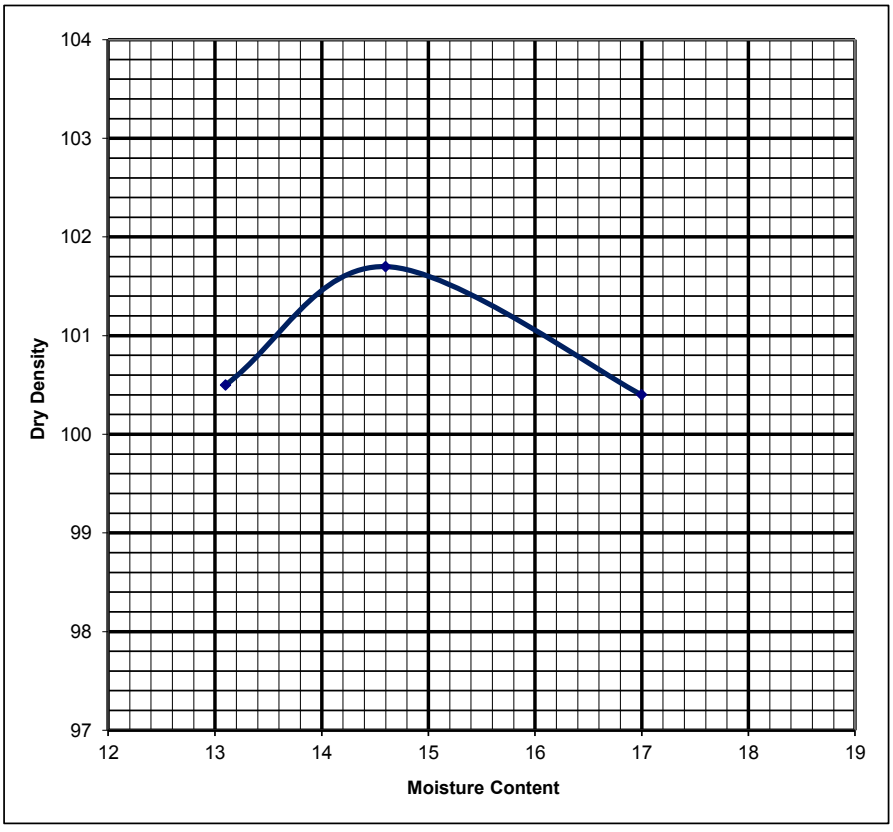
STATION: **98+80**
OFFSET: **19' RT**

Sample Depth: **12"**

SOIL DESCRIPTION:
Gray Fine SAND (A-3)

MAXIMUM LBR VALUE: **27**

Modified Proctor Test Results



MAXIMUM DENSITY (PCF): **101.7**

OPTIMUM MOISTURE (%): **14.6**

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Appendix C – Ponds Soil Survey

Field Exploration Plan

Ponds Soil Survey

General Subsurface Profiles

SPT Boring Logs

Summary of Laboratory Test Results

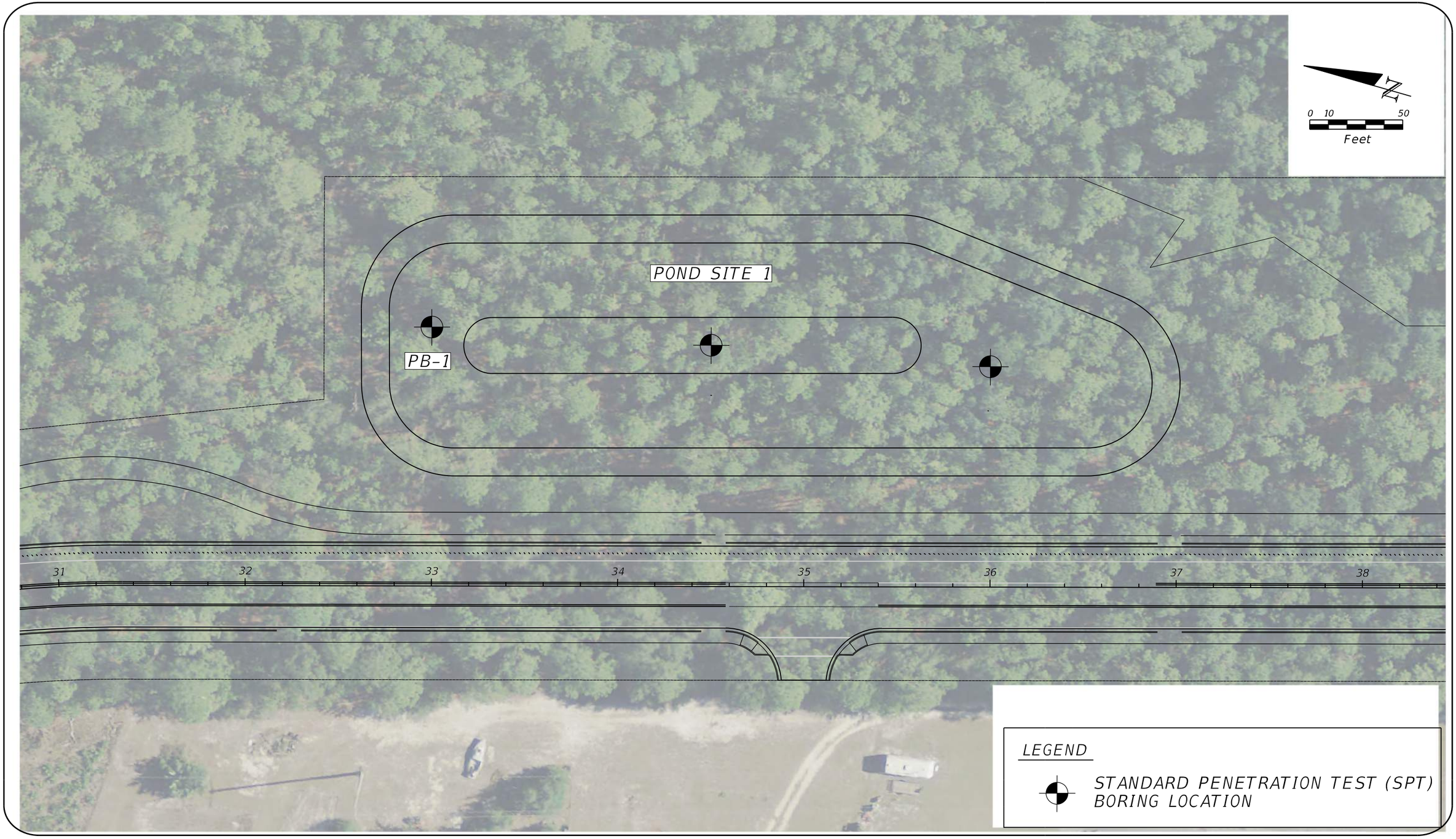
Grain Size Distribution Curves

Environmental Corrosion Test Results

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Field Exploration Plan

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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JACKSONVILLE, FLORIDA 32246

GEOTECHNICAL ENGINEERING
CONSTRUCTION MATERIAL TESTING
CONSTRUCTION ENGINEERING INSPECTION

FIELD EXPLORATION PLAN

WILLIAM BURGESS BOULEVARD EXTENSION
NASSAU COUNTY, FLORIDA

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



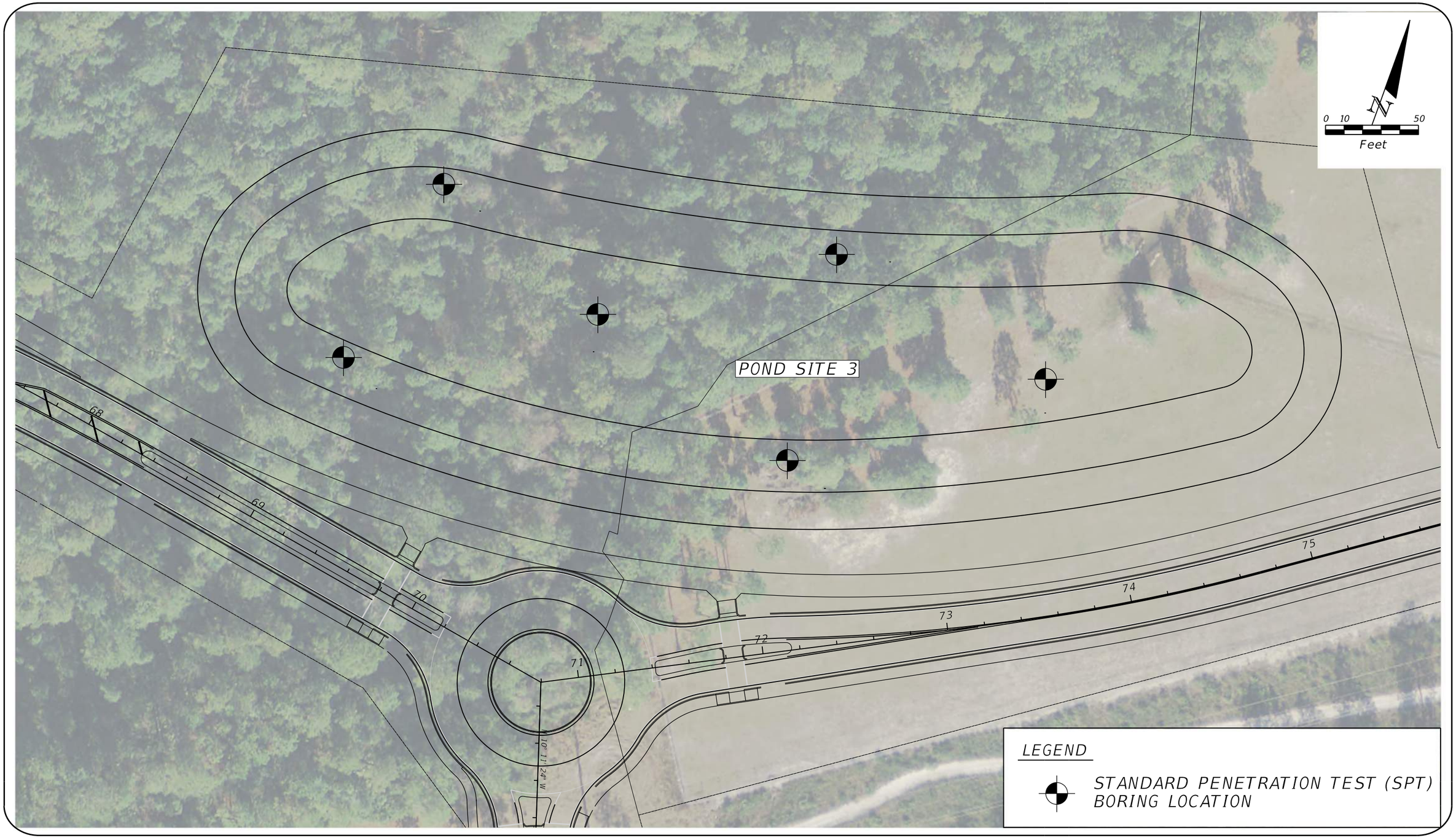
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GEOTECHNICAL ENGINEERING
CONSTRUCTION MATERIAL TESTING
CONSTRUCTION ENGINEERING INSPECTION

FIELD EXPLORATION PLAN

WILLIAM BURGESS BOULEVARD EXTENSION
NASSAU COUNTY, FLORIDA

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1



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CONSTRUCTION MATERIAL TESTING
CONSTRUCTION ENGINEERING INSPECTION

FIELD EXPLORATION PLAN

WILLIAM BURGESS BOULEVARD EXTENSION
NASSAU COUNTY, FLORIDA

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Ponds Soil Survey

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

DATE OF SURVEY: APRIL 2020 TO MAY 2020
SURVEY MADE BY: CSI GEO, INC.
SUBMITTED BY: JOHN A. IYA P.E.

NASSAU COUNTY
POND SOIL SURVEY

DISTRICT: 2
ROAD NO.: -
COUNTY: NASSAU

PROJECT NAME: WILLIAM BURGESS BOULEVARD EXTENSION

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF PONDS

SURVEY BEGINS STA. : 33+00 SURVEY ENDS STA. : 73+70 REFERENCE: ℄ CONST. WILLIAM BURGESS BLVD

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)						ATTERBERG LIMITS (%)					ENVIRONMENTAL CLASSIFICATION		CORROSION TEST RESULTS				
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	STEEL	CONCRETE	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
11	2	2.2-3.8	17	23-34	17	100	99	84-94	17-34	2-10	-	-	-	A-3	GRAY AND LIGHT BROWN TO DARK BROWN FINE SAND; SLIGHTLY SILTY FINE SAND; SLIGHTLY ORGANIC FINE SAND	EA	EA	4	19,670-45,520	10-25	U-6	3.5-4.7
12	-	-	1	30	1	100	99	88	34	14	-	-	-	A-2-4	DARK BROWN SILTY FINE SAND	-		-	-	-	-	-
13	-	-	1	62	1	-	-	-	-	76	1	58	28	A-7-6	GRAY AND BROWN CLAY WITH SAND	-		-	-	-	-	-

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▼ - WATER TABLE ENCOUNTERED

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL

B.T. - SPT BORING TERMINATION;

N. - STANDARD PENESTRATION RESISTANCE IN BLOWS PER FOOT; NUMBERS TO THE LEFT OF THE BORING INDICATE N-VALUES

U - COMPOUND TESTED FOR BUT NOT DETECTED;

EA - EXTREMELY AGGRESSIVE

NOTES:

1. THIS SOIL SURVEY APPLIES TO POND SOILS ONLY.
2. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH TEST HOLE LOCATION. ANY STRATUM CONNECTING LINES SHOWN ARE FOR DESIGN PURPOSES ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIANCE BETWEEN BORINGS MAY OCCUR AND SHOULD BE ANTICIPATED.
3. THE MATERIAL FROM STRATUM NO. 11 IS SELECT MATERIAL AND APPEARS SATISFACTORY FOR USE WHEN UTILIZED IN ACCORDANCE WITH APPLICABLE STANDARD SPECIFICATIONS.
4. THE MATERIAL FROM STRATUM NO. 12 IS SELECT MATERIAL AND APPEARS SATISFACTORY FOR USE WHEN UTILIZED IN ACCORDANCE WITH APPLICABLE STANDARD SPECIFICATIONS. HOWEVER, THIS MATERIAL MAY RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
5. THE MATERIAL FROM STRATUM NO. 13 SHALL BE REGARDED AS HIGHLY PLASTIC MATERIAL.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOHN A. IYA, P.E.
P.E. LICENSE NO.: 77294
CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD S., SUITE 200
JACKSONVILLE, FLORIDA 32246

NASSAU COUNTY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
-	NASSAU	-

PONDS SOIL SURVEY

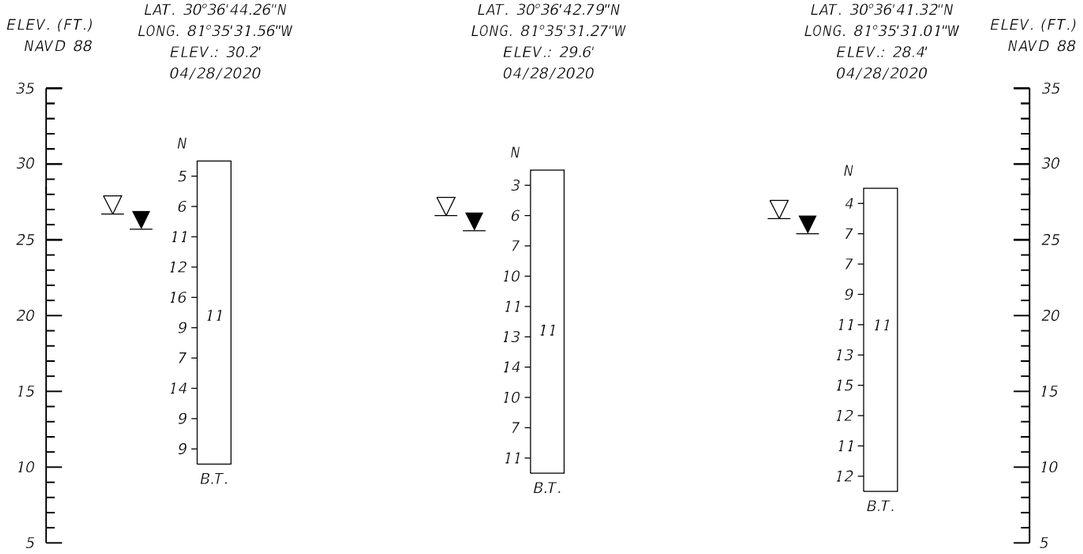
SHEET NO.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

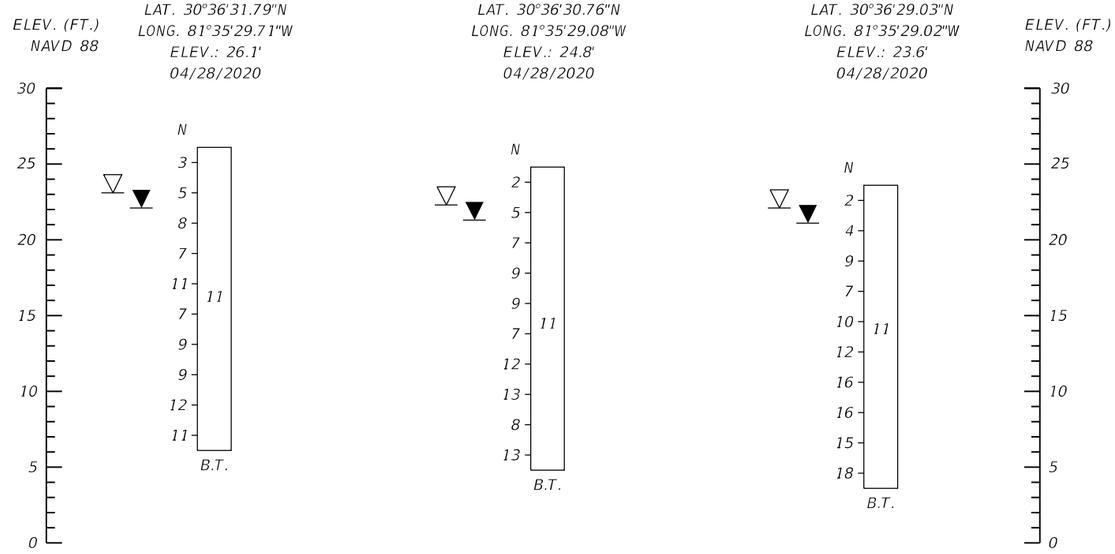
General Subsurface Profiles

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

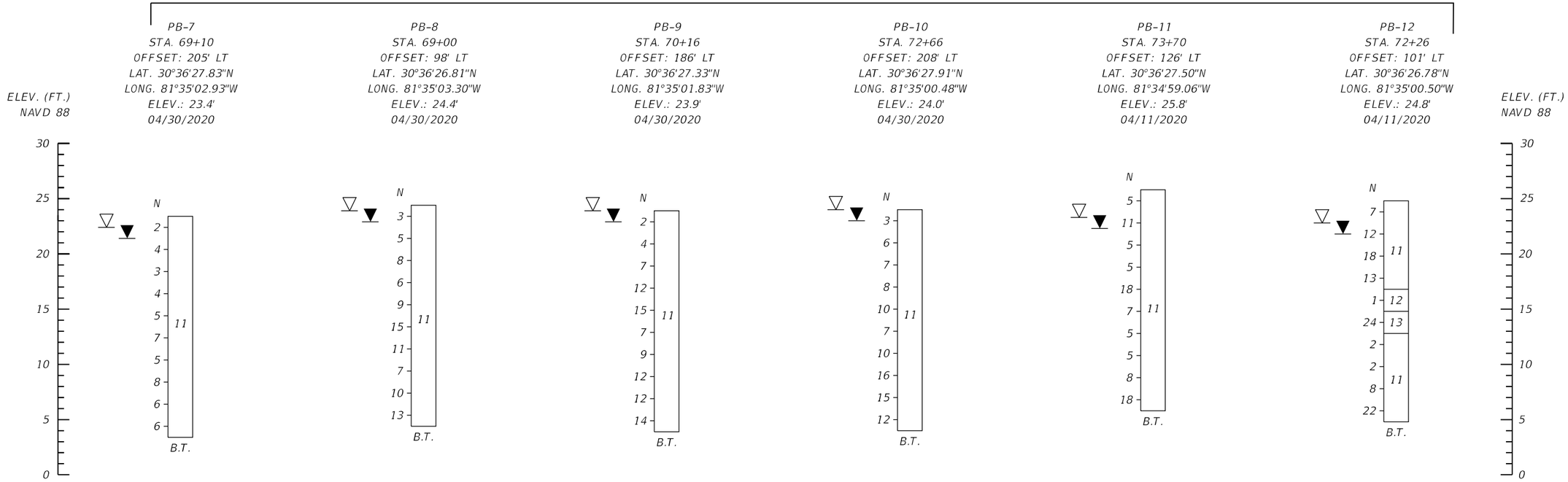
POND SITE 1



POND SITE 2



POND SITE 3



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CSI Geo, Inc.
2394 ST. JOHNS BLUFF ROAD S., SUITE 200
JACKSONVILLE, FLORIDA 32246

NASSAU COUNTY

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
-	NASSAU	-

GENERAL SUBSURFACE PROFILES
WILLIAM BURGESS BOULEVARD EXTENSION

SHEET NO.

tqian 6/23/2020 11:10:43 AM G:\CAD\2019\William Burgess\geotech\PDGE001.dgn

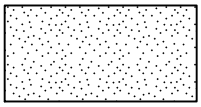
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SPT Boring Logs

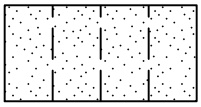
Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

LEGEND

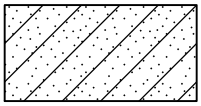
GRAPHIC LOG
(AASHTO Soil Classification System)



Fine SAND; Slightly Silty SAND (A-3)



Silty SAND (A-2-4)



Sandy Clay (A-7-6)

ABBREVIATIONS & NOTES

(A-3)	AASHTO SOIL CLASSIFICATION
N	STANDARD PENETRATION RESISTANCE IN BLOWS PER FT. UNLESS OTHERWISE NOTED, NUMBERS TO THE LEFT OF BORING INDICATE N-VALUES.
B.T.	SPT BORING TERMINATED

W	NATURAL MOISTURE CONTENT (%)
-200	FINES PASSING NO. 200 SIEVE (%)
OC%	ORGANIC CONTENT PERCENT
LL	LIQUID LIMIT
PI	PLASTICITY INDEX

▽ ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL (ESHWL)

▼ WATER LEVEL AT TIME OF DRILLING (GWT)

GRANULAR MATERIALS

RELATIVE DENSITY	AUTOMATIC HAMMER SPT N-VALUE (BLOWS/FT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40

SILT AND CLAYS

RELATIVE DENSITY	AUTOMATIC HAMMER SPT N-VALUE (BLOWS/FT)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

STANDARD PENETRATION TEST DATA

SPOON INSIDE DIA.	1.44 INCHES
SPOON OUTSIDE DIA.	2.0 INCHES
ASTM STANDARD DROP HAMMER	
AVG. HAMMER DROP	30.0 INCHES
HAMMER WEIGHT	140.0 LBS

NOTES:
1) DRILL AND PENETRATION TESTING WAS PERFORMED IN ACCORDANCE WITH ASTM D-1586.

2) LAYER BOUNDARIES ARE APPROXIMATE AND MAY VARY BETWEEN OR AWAY FROM BORING LOCATIONS.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SPT BORING NO. PB-1

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

CLIENT GAI Consultants, Inc. **PROJECT NAME** William Burgess Boulevard Extension

PROJECT NUMBER 71-19-133-09 **PROJECT LOCATION** Nassau County, Florida

DATE STARTED 4/28/20 **COMPLETED** 4/28/20 **STATION:** 33+00 **OFFSET:** 139' LT

GROUND ELEVATION: 30.2 ft **HAMMER TYPE:** Auto Hammer

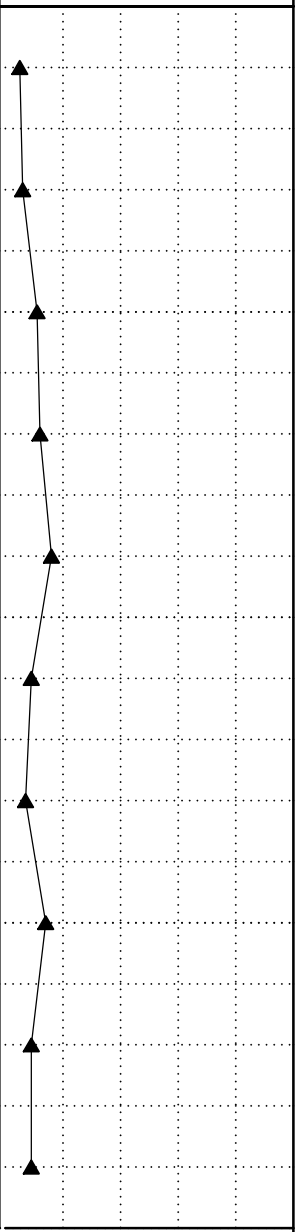
GROUND WATER LEVELS:

▽ **ESHWL** 3.5 ft / Elev 26.7 ft

▼ **GWT** 4.5 ft / Elev 25.7 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	PENETRATION BLOWS 1st 6"	2nd 6"	3rd 6"	4th 6"	(N VALUE)
0			1	2	2	3	2	**5**
			2	2	3	3	4	**6**
5		Light Brown to Brown Fine SAND (A-3)	3	4	5	6	5	**11**
			4	6	7	5	5	**12**
10			5	6	8	8	7	**16**
			6	5	4	5	3	**9**
			7	5	4	3	4	**7**
15		Dark Brown to Brown Slightly Silty Fine SAND (A-3)	8	5	7	7	6	**14**
			9	4	5	4	4	**9**
20			10	3	4	5	5	**9**

▲ SPT N VALUE ▲
20 40 60 80



Boring Terminated at 20.0 feet.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SPT BORING NO. PB-2

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

CLIENT GAI Consultants, Inc. **PROJECT NAME** William Burgess Boulevard Extension

PROJECT NUMBER 71-19-133-09 **PROJECT LOCATION** Nassau County, Florida

DATE STARTED 4/28/20 **COMPLETED** 4/28/20 **STATION:** 34+50 **OFFSET:** 130' LT

GROUND ELEVATION: 29.6 ft **HAMMER TYPE:** Auto Hammer

GROUND WATER LEVELS:

▽ **ESHWL** 3.0 ft / Elev 26.6 ft

▼ **GWT** 4.0 ft / Elev 25.6 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	PENETRATION BLOWS 1st 6"	2nd 6"	3rd 6"	4th 6"	(N VALUE)
0		Gray Fine SAND (A-3)	1	1	1	2	2	**3**
		▽ ▼	2	2	3	3	2	**6**
5		Brown Slightly Silty Fine SAND (A-3)	3	4	3	4	4	**7**
			4	4	5	5	4	**10**
10			5	5	5	6	6	**11**
		Brown Fine SAND (A-3)	6	5	7	6	5	**13**
			7	7	8	6	7	**14**
15			8	5	4	6	5	**10**
			9	4	3	4	3	**7**
20			10	4	5	6	6	**11**

▲ SPT N VALUE ▲
20 40 60 80

Boring Terminated at 20.0 feet.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SPT BORING NO. PB-3

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

CLIENT GAI Consultants, Inc. **PROJECT NAME** William Burgess Boulevard Extension

PROJECT NUMBER 71-19-133-09 **PROJECT LOCATION** Nassau County, Florida

DATE STARTED 4/28/20 **COMPLETED** 4/28/20 **STATION:** 36+00 **OFFSET:** 118' LT

GROUND ELEVATION: 28.4 ft **HAMMER TYPE:** Auto Hammer

GROUND WATER LEVELS:

▽ **ESHWL** 2.0 ft / Elev 26.4 ft

▼ **GWT** 3.0 ft / Elev 25.4 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	PENETRATION BLOWS 1st 6"	2nd 6"	3rd 6"	4th 6"	(N VALUE)
0		Dark Brown Fine SAND (A-3)	1	1	2	2	2	**4**
			2	3	3	4	3	**7**
5		Gray Fine SAND (A-3)	3	3	3	4	4	**7**
		Brown Fine SAND (A-3)	4	4	5	4	4	**9**
10		Dark Brown Slightly Silty Fine SAND (A-3) with trace of organics	5	4	6	5	5	**11**
		Brown Fine SAND (A-3)	6	5	6	7	8	**13**
			7	6	8	7	9	**15**
15		Dark Brown Slightly Organic Slightly Silty Fine SAND (A-3)	8	5	6	6	5	**12**
			9	7	6	5	4	**11**
20			10	6	5	7	6	**12**

▲ SPT N VALUE ▲
20 40 60 80

Boring Terminated at 20.0 feet.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SPT BORING NO. PB-4

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

CLIENT GAI Consultants, Inc. **PROJECT NAME** William Burgess Boulevard Extension

PROJECT NUMBER 71-19-133-09 **PROJECT LOCATION** Nassau County, Florida

DATE STARTED 4/28/20 **COMPLETED** 4/28/20 **STATION:** 45+40 **OFFSET:** 90' RT

GROUND ELEVATION: 26.1 ft **HAMMER TYPE:** Auto Hammer

GROUND WATER LEVELS:

▽ **ESHWL** 3.0 ft / Elev 23.1 ft

▼ **GWT** 4.0 ft / Elev 22.1 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	PENETRATION BLOWS 1st 6"	2nd 6"	3rd 6"	4th 6"	(N VALUE)
0		Gray Fine SAND (A-3)	1	2	1	2	2	**3**
		▽ ▼	2	2	2	3	3	**5**
5		Dark Brown Slightly Silty Fine SAND (A-3)	3	3	4	4	4	**8**
			4	5	4	3	4	**7**
10			5	4	6	5	5	**11**
		Brown Fine SAND (A-3)	6	4	4	3	4	**7**
			7	4	4	5	3	**9**
15			8	4	4	5	6	**9**
			9	6	5	7	7	**12**
20			10	7	6	5	5	**11**

▲ SPT N VALUE ▲
20 40 60 80

Boring Terminated at 20.0 feet.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SPT BORING NO. PB-5

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

CLIENT GAI Consultants, Inc. **PROJECT NAME** William Burgess Boulevard Extension

PROJECT NUMBER 71-19-133-09 **PROJECT LOCATION** Nassau County, Florida

DATE STARTED 4/28/20 **COMPLETED** 4/28/20 **STATION:** 46+35 **OFFSET:** 124' RT

GROUND ELEVATION: 24.8 ft **HAMMER TYPE:** Auto Hammer

GROUND WATER LEVELS:

▽ **ESHWL** 2.5 ft / Elev 22.3 ft

▼ **GWT** 3.5 ft / Elev 21.3 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	PENETRATION BLOWS 1st 6"	2nd 6"	3rd 6"	4th 6"	(N VALUE)
0		Gray Fine SAND (A-3)	1	1	1	1	2	**2**
		▽ ▼	2	2	2	3	2	**5**
5			3	3	3	4	3	**7**
			4	4	4	5	5	**9**
		Dark Brown to Brown Fine SAND (A-3)	5	4	5	4	4	**9**
10			6	4	3	4	3	**7**
			7	5	6	6	6	**12**
15			8	5	7	6	5	**13**
		Dark Brown Slightly Silty Fine SAND (A-3)	9	6	4	4	5	**8**
20			10	4	6	7	7	**13**

▲ SPT N VALUE ▲ (20, 40, 60, 80)

Boring Terminated at 20.0 feet.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SPT BORING NO. PB-6

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

CLIENT GAI Consultants, Inc. **PROJECT NAME** William Burgess Boulevard Extension

PROJECT NUMBER 71-19-133-09 **PROJECT LOCATION** Nassau County, Florida

DATE STARTED 4/28/20 **COMPLETED** 4/28/20 **STATION:** 47+20 **OFFSET:** 261' RT

GROUND ELEVATION: 23.6 ft **HAMMER TYPE:** Auto Hammer

GROUND WATER LEVELS:

▽ **ESHWL** 1.5 ft / Elev 22.1 ft

▼ **GWT** 2.5 ft / Elev 21.1 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	PENETRATION BLOWS 1st 6"	2nd 6"	3rd 6"	4th 6"	(N VALUE)
0		Gray Fine SAND (A-3)	1	1	1	1	2	**2**
			2	2	2	2	2	**4**
5		Brown Fine SAND (A-3)	3	3	7	2	3	**9**
			4	4	4	3	4	**7**
10			5	4	5	5	5	**10**
		Brown Slightly Silty Fine SAND (A-3)	6	4	5	7	8	**12**
			7	9	8	8	8	**16**
15			8	9	8	8	8	**16**
			9	6	7	8	6	**15**
20			10	7	9	9	8	**18**

▲ SPT N VALUE ▲
20 40 60 80

Boring Terminated at 20.0 feet.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SPT BORING NO. PB-7

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

CLIENT GAI Consultants, Inc. **PROJECT NAME** William Burgess Boulevard Extension

PROJECT NUMBER 71-19-133-09 **PROJECT LOCATION** Nassau County, Florida

DATE STARTED 4/30/20 **COMPLETED** 4/30/20 **STATION:** 69+10 **OFFSET:** 205' LT

GROUND ELEVATION: 23.4 ft **HAMMER TYPE:** Auto Hammer

GROUND WATER LEVELS:

▽ **ESHWL** 1.0 ft / Elev 22.4 ft

▼ **GWT** 2.0 ft / Elev 21.4 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	PENETRATION BLOWS 1st 6"	2nd 6"	3rd 6"	4th 6"	(N VALUE)
0		Gray Fine SAND (A-3)	1	1	2	2	2	
			2	2	3	3	4	
5		Dark Brown Slightly Silty Fine SAND (A-3)	3	4	3	3	3	
			4	4	4	5	4	
10			5	4	6	5	5	
			6	5	6	6	7	
			7	4	3	3	5	
15		Dark Brown Fine SAND (A-3)	8	5	6	6	8	
			9	4	4	5	6	
20			10	5	5	6	6	

▲ SPT N VALUE ▲
20 40 60 80

Boring Terminated at 20.0 feet.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SPT BORING NO. PB-8

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

CLIENT GAI Consultants, Inc. **PROJECT NAME** William Burgess Boulevard Extension

PROJECT NUMBER 71-19-133-09 **PROJECT LOCATION** Nassau County, Florida

DATE STARTED 4/30/20 **COMPLETED** 4/30/20 **STATION:** 69+00 **OFFSET:** 98' LT

GROUND ELEVATION: 24.4 ft **HAMMER TYPE:** Auto Hammer

GROUND WATER LEVELS:

▽ **ESHWL** 0.5 ft / Elev 23.9 ft

▼ **GWT** 1.5 ft / Elev 22.9 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	PENETRATION BLOWS 1st 6"	2nd 6"	3rd 6"	4th 6"	(N VALUE)	▲ SPT N VALUE ▲ 20 40 60 80
0		▽ ▼	1	1	2	1	1	**3**	
			2	2	2	3	2	**5**	
5			3	3	4	4	3	**8**	
			4	2	3	3	3	**6**	
			5	4	4	5	6	**9**	
10		Dark Brown Fine SAND (A-3)	6	6	7	8	8	**15**	
			7	5	6	5	5	**11**	
15			8	4	4	3	4	**7**	
			9	5	4	6	6	**10**	
			10	5	6	7	5	**13**	
20									

Boring Terminated at 20.0 feet.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SPT BORING NO. PB-9

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

CLIENT GAI Consultants, Inc. **PROJECT NAME** William Burgess Boulevard Extension

PROJECT NUMBER 71-19-133-09 **PROJECT LOCATION** Nassau County, Florida

DATE STARTED 4/30/20 **COMPLETED** 4/30/20 **STATION:** 70+16 **OFFSET:** 186' LT

GROUND ELEVATION: 23.9 ft **HAMMER TYPE:** Auto Hammer

GROUND WATER LEVELS:

ESHWL 0.0 ft / Elev 23.9 ft

GWT 1.0 ft / Elev 22.9 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	PENETRATION BLOWS 1st 6"	2nd 6"	3rd 6"	4th 6"	(N VALUE)
0		Gray Fine SAND (A-3)	1	1	1	1	2	**2**
			2	2	2	2	3	**4**
5		Brown Fine SAND (A-3)	3	3	3	4	3	**7**
			4	4	5	7	7	**12**
10			5	6	7	8	5	**15**
			6	5	4	3	3	**7**
			7	4	5	4	4	**9**
15			8	5	6	6	7	**12**
			9	5	6	6	8	**12**
			10	5	7	7	8	**14**
20								

▲ SPT N VALUE ▲
20 40 60 80

Boring Terminated at 20.0 feet.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SPT BORING NO. PB-10

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

CLIENT GAI Consultants, Inc. **PROJECT NAME** William Burgess Boulevard Extension

PROJECT NUMBER 71-19-133-09 **PROJECT LOCATION** Nassau County, Florida

DATE STARTED 4/30/20 **COMPLETED** 4/30/20 **STATION:** 72+66 **OFFSET:** 208' LT

GROUND ELEVATION: 24.0 ft **HAMMER TYPE:** Auto Hammer

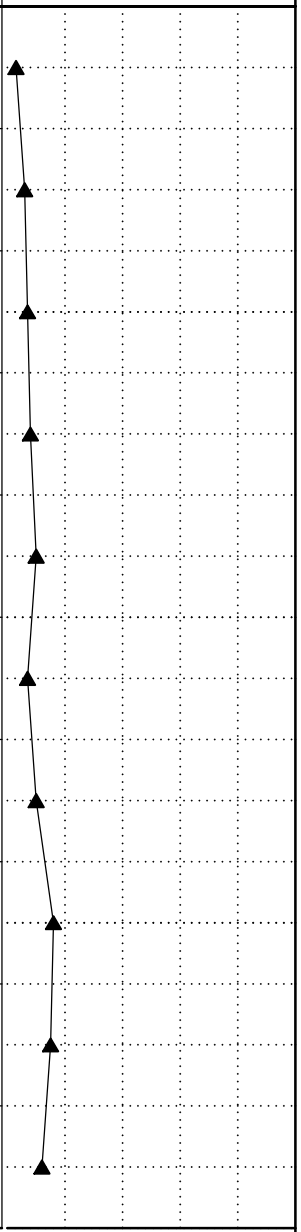
GROUND WATER LEVELS:

ESHWL 0.0 ft / Elev 24.0 ft

GWT 1.0 ft / Elev 23.0 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	PENETRATION BLOWS 1st 6"	2nd 6"	3rd 6"	4th 6"	(N VALUE)
0			1	1	1	2	2	**3**
		Gray Fine SAND (A-3)	2	2	3	3	3	**6**
5			3	4	4	3	4	**7**
			4	5	4	4	4	**8**
			5	6	5	5	4	**10**
10			6	4	3	4	5	**7**
		Brown to Dark Brown Fine SAND (A-3)	7	6	5	5	7	**10**
15			8	7	8	8	8	**16**
			9	7	8	7	7	**15**
20			10	6	5	7	6	**12**

▲ SPT N VALUE ▲ (20 40 60 80)



Boring Terminated at 20.0 feet.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SPT BORING NO. PB-11

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

CLIENT GAI Consultants, Inc. **PROJECT NAME** William Burgess Boulevard Extension

PROJECT NUMBER 71-19-133-09 **PROJECT LOCATION** Nassau County, Florida

DATE STARTED 4/11/20 **COMPLETED** 4/11/20 **STATION:** 73+70 **OFFSET:** 126' LT

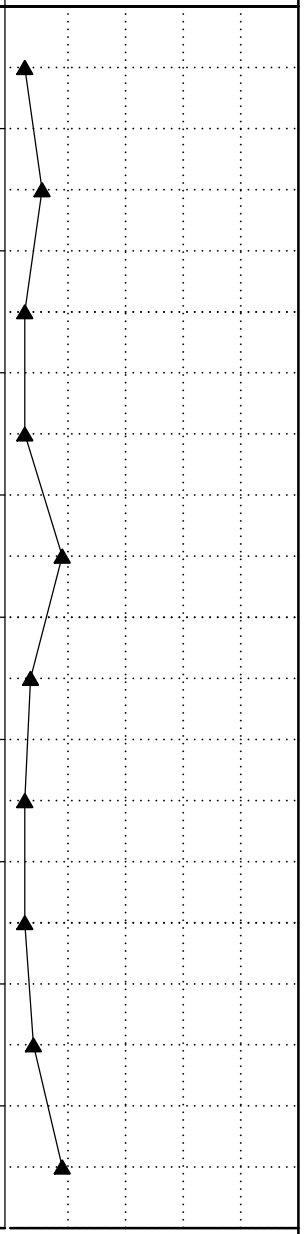
GROUND ELEVATION: 25.8 ft **HAMMER TYPE:** Auto Hammer

GROUND WATER LEVELS:

▽ **ESHWL** 2.5 ft / Elev 23.3 ft

▼ **GWT** 3.5 ft / Elev 22.3 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	PENETRATION BLOWS 1st 6"	2nd 6"	3rd 6"	4th 6"	(N VALUE)
0			1	2	2	3	3	**5**
		▽ ▼	2	6	6	5	5	**11**
5		Brown to Dark Brown Slightly Silty Fine SAND (A-3)	3	1	2	3	2	**5**
			4	2	2	3	7	**5**
10			5	9	10	8	9	**18**
			6	1	2	5	5	**7**
			7	1	2	3	3	**5**
15		Light Brown Slightly Silty Fine SAND (A-3)	8	1	2	3	4	**5**
			9	1	3	5	7	**8**
20			10	7	8	10	13	**18**



Boring Terminated at 20.0 feet.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SPT BORING NO. PB-12

CSI GEO, INC.
2394 ST. JOHNS BLUFF ROAD, S. SUITE 200
FLORIDA

CLIENT GAI Consultants, Inc.
PROJECT NAME William Burgess Boulevard Extension
PROJECT NUMBER 71-19-133-09
PROJECT LOCATION Nassau County, Florida
DATE STARTED 4/11/20 **COMPLETED** 4/11/20
STATION: 72+26 **OFFSET:** 101' LT
GROUND ELEVATION: 24.8 ft **HAMMER TYPE:** Auto Hammer

GROUND WATER LEVELS:
ESHWL 2.0 ft / Elev 22.8 ft
GWT 3.0 ft / Elev 21.8 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE NUMBER	PENETRATION BLOWS 1st 6"	2nd 6"	3rd 6"	4th 6"	(N VALUE)
0		Light Gray Fine SAND (A-3)	1	2	3	4	4	**7**
			2	3	5	7	8	**12**
5		Dark Brown Fine SAND (A-3)	3	8	8	10	11	**18**
			4	10	7	6	7	**13**
10		Dark Brown Silty Fine SAND (A-2-4)	5	1/18"	-	-	1	**1/18"**
		Brown CLAY with SAND (A-7-6)	6	WOH	12	12	12	**24**
15		Brown Slightly Silty Fine SAND (A-3)	7	WOH	1	1	1	**2**
			8	1	1	1	1	**2**
			9	1	2	6	5	**8**
20			10	10	10	12	15	**22**

▲ SPT N VALUE ▲
20 40 60 80

Boring Terminated at 20.0 feet.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Summary of Laboratory Test Results

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SUMMARY OF LABORATORY TEST RESULTS (Ponds)

William Burgess Boulevard Extension
Nassau County, Florida

Boring No.	Sample No.	Approximate Depth (ft)	Natural Moisture Content (%)	Organic Content (%)	Percent Passing Sieve Size (%)						Atterberg Limits		Soil Classification Symbol	Stratum No.
					#4	#10	#40	#60	#100	#200	LL	PI		
PB-1	8	14.0 - 16.0	25							10			A-3	11
PB-2	5	8.0 - 10.0	23		100	100	99	90	33	5			A-3	11
PB-3	5	8.0 - 10.0	34	2.2						8			A-3	11
PB-3	9	16.0 - 18.0	27	3.8						5			A-3	11
PB-4	4	6.0 - 8.0	27		100	100	99	92	30	5			A-3	11
PB-5	9	16.0 - 18.0	27							5			A-3	11
PB-6	6	10.0 - 12.0	32		100	100	99	94	34	7			A-3	11
PB-7	5	8.0 - 10.0	30		100	100	99	92	33	5			A-3	11
PB-7	8	14.0 - 16.0	31							4			A-3	11
PB-8	4	6.0 - 8.0	29							4			A-3	11
PB-8	7	12.0 - 14.0	31							4			A-3	11
PB-9	4	6.0 - 8.0	28		100	100	99	92	33	3			A-3	11
PB-9	6	10.0 - 12.0	31							3			A-3	11
PB-10	3	4.0 - 6.0	27							4			A-3	11
PB-10	9	18.0 - 20.0	29							2			A-3	11
PB-11	4	6.0 - 8.0	26		100	100	99	84	17	5			A-3	11
PB-11	7	12.0 - 14.0	34							7			A-3	11
PB-12	5	8.0 - 10.0	30		100	100	99	88	34	14			A-2-4	12
PB-12	6	10.0 - 12.0	62							76	58	28	A-7-6	13

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Environmental Corrosion Test Results

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

ENVIRONMENTAL CORROSION TEST RESULTS (Ponds)

William Burgess Boulevard Extension
Nassau County, Florida

Sample No.	Depth (ft)	pH (S.U.)[a]	Resistivity (ohm-cm)	Sulfates (ppm)	Chlorides (ppm)	Environmental Classification (Substructures)	
						Steel	Concrete
PB-2	2.0 - 6.0	4.7	45,520	U	25	Extremely Aggressive	Extremely Aggressive
PB-5	2.0 - 6.0	3.5	19,670	U	25	Extremely Aggressive	Extremely Aggressive
PB-8	2.0 - 6.0	3.9	34,600	U	25	Extremely Aggressive	Extremely Aggressive
PB-12	2.0 - 6.0	3.8	39,190	6	10	Extremely Aggressive	Extremely Aggressive

Notes:

[a]S.U. : pH standard units

[b]U: Compound tested for but not detected

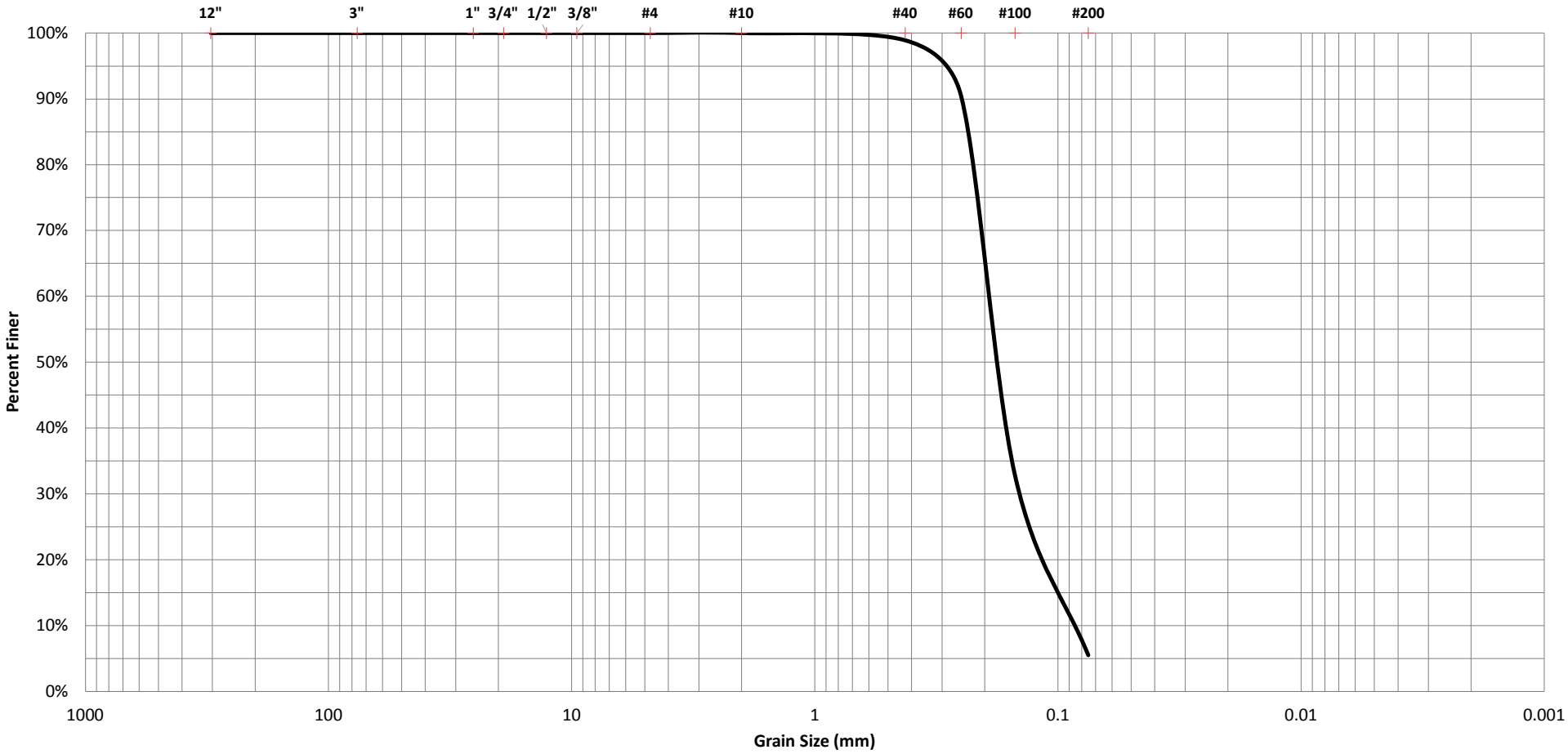
Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Grain Size Distribution Curves

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

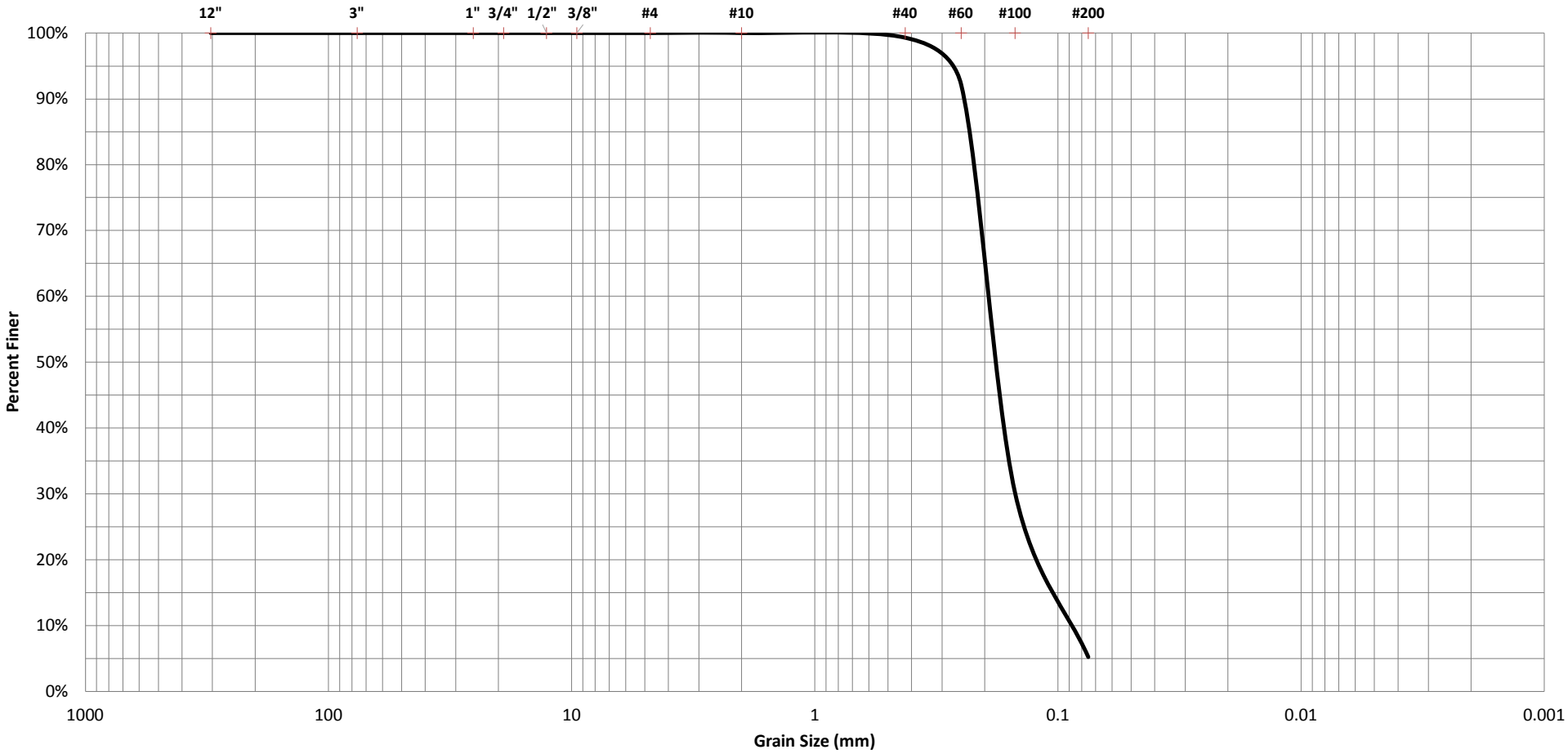
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	PB-2 (5)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	8-10

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
23	-	-	-	Brown Slightly Silty Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

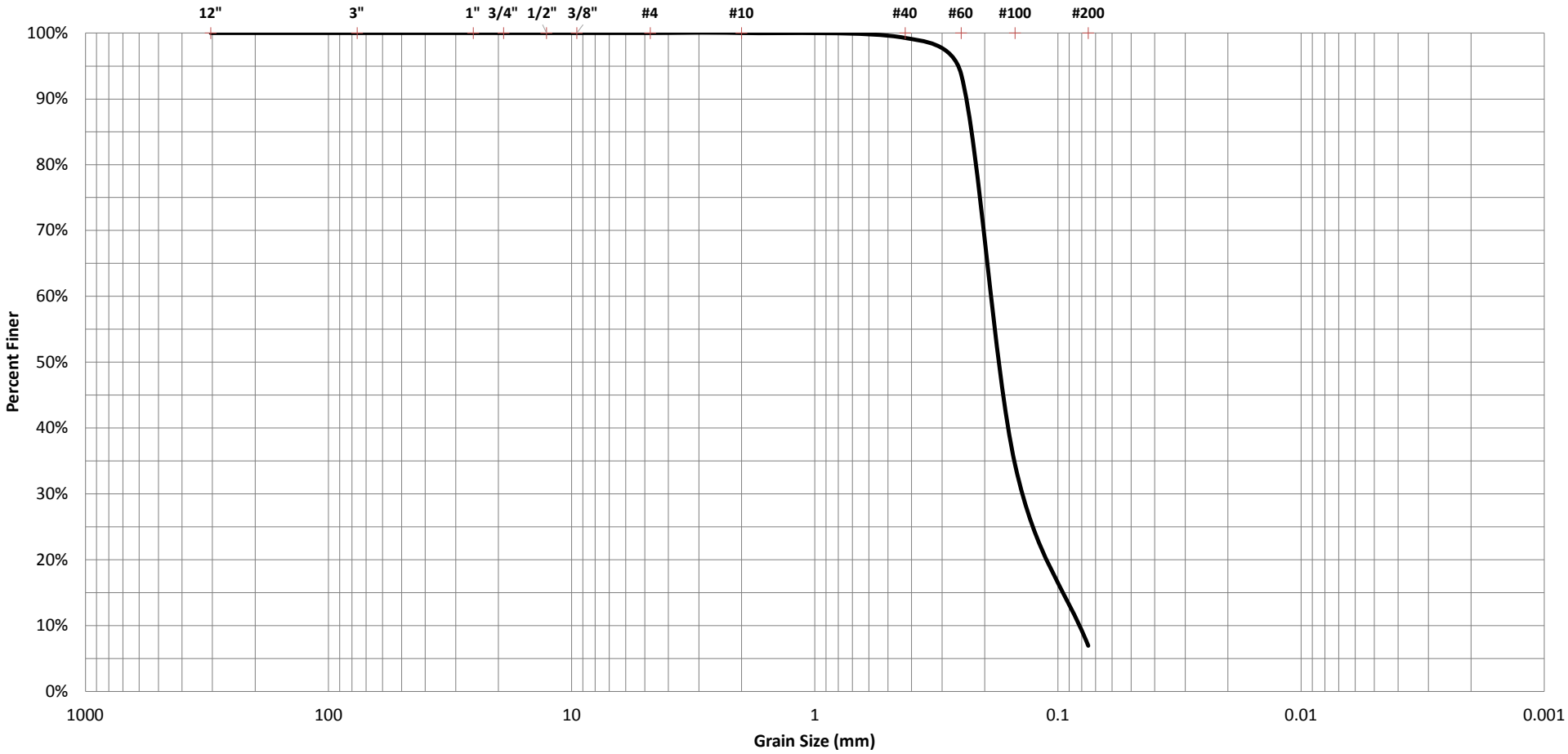
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	PB-4 (4)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	6-8

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
27	-	-	-	Dark Brown Slightly Silty Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

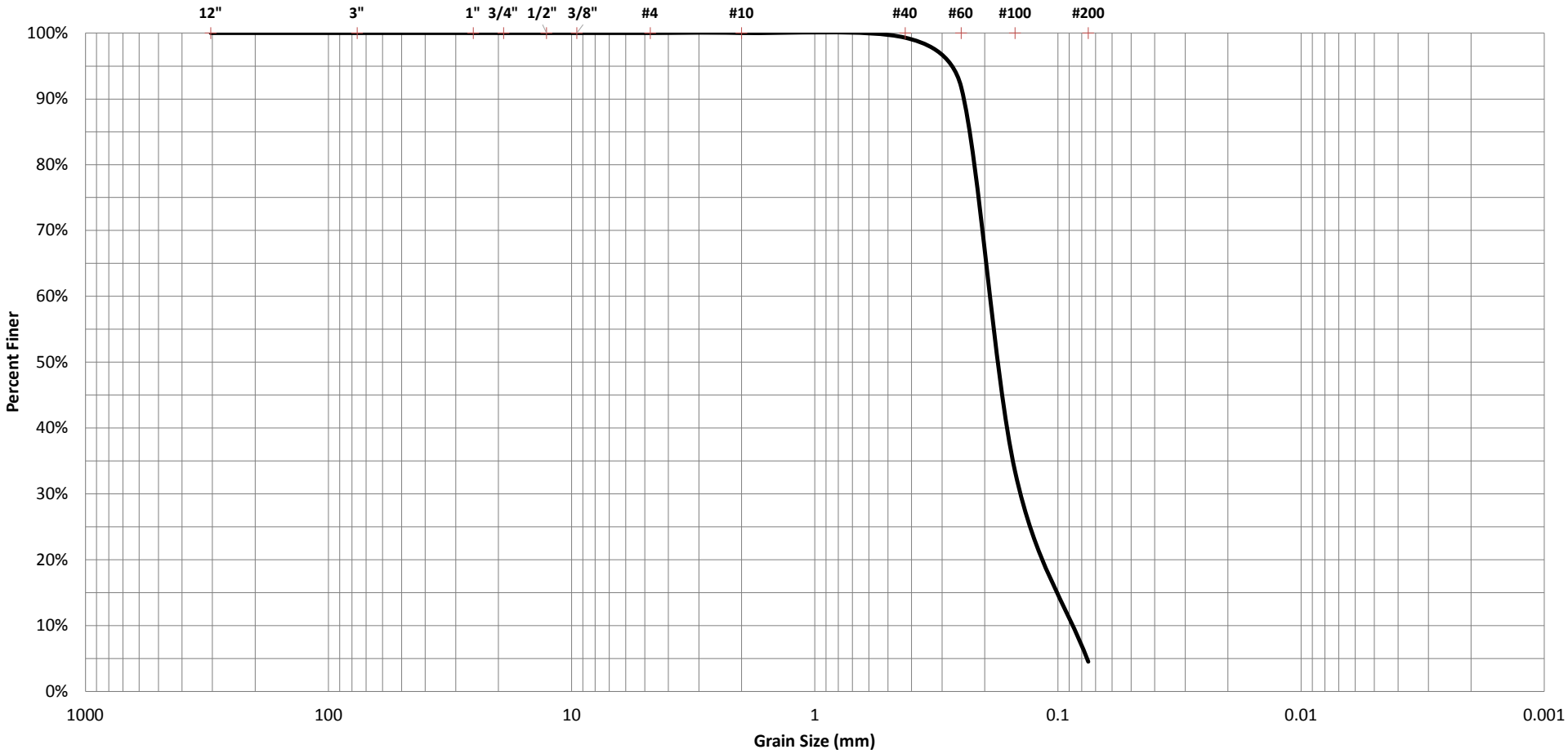
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	PB-6 (6)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	10-12

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
32	-	-	-	Brown Slightly Silty Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

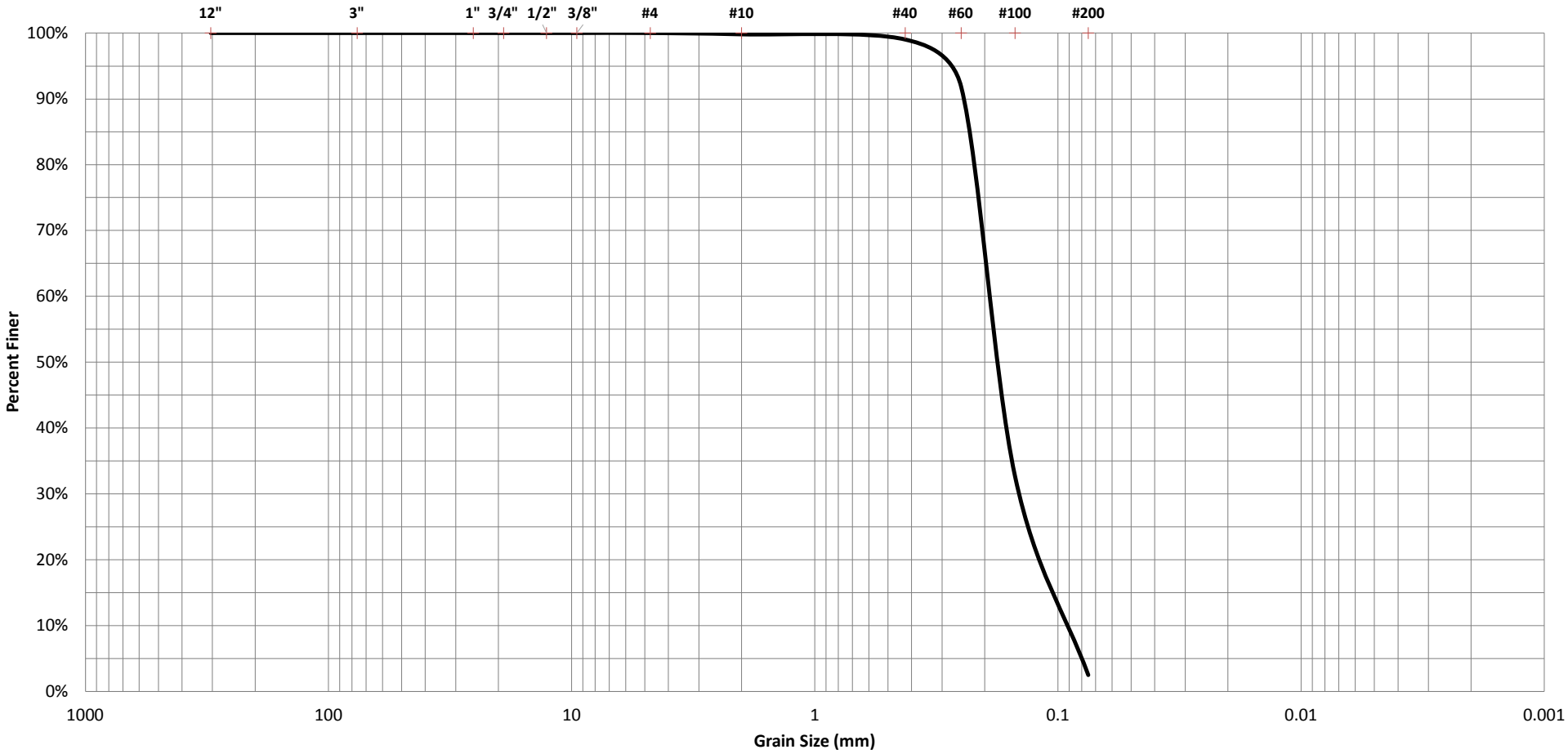
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	PB-7 (5)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	8-10

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
30	-	-	-	Dark Brown Slightly Silty Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

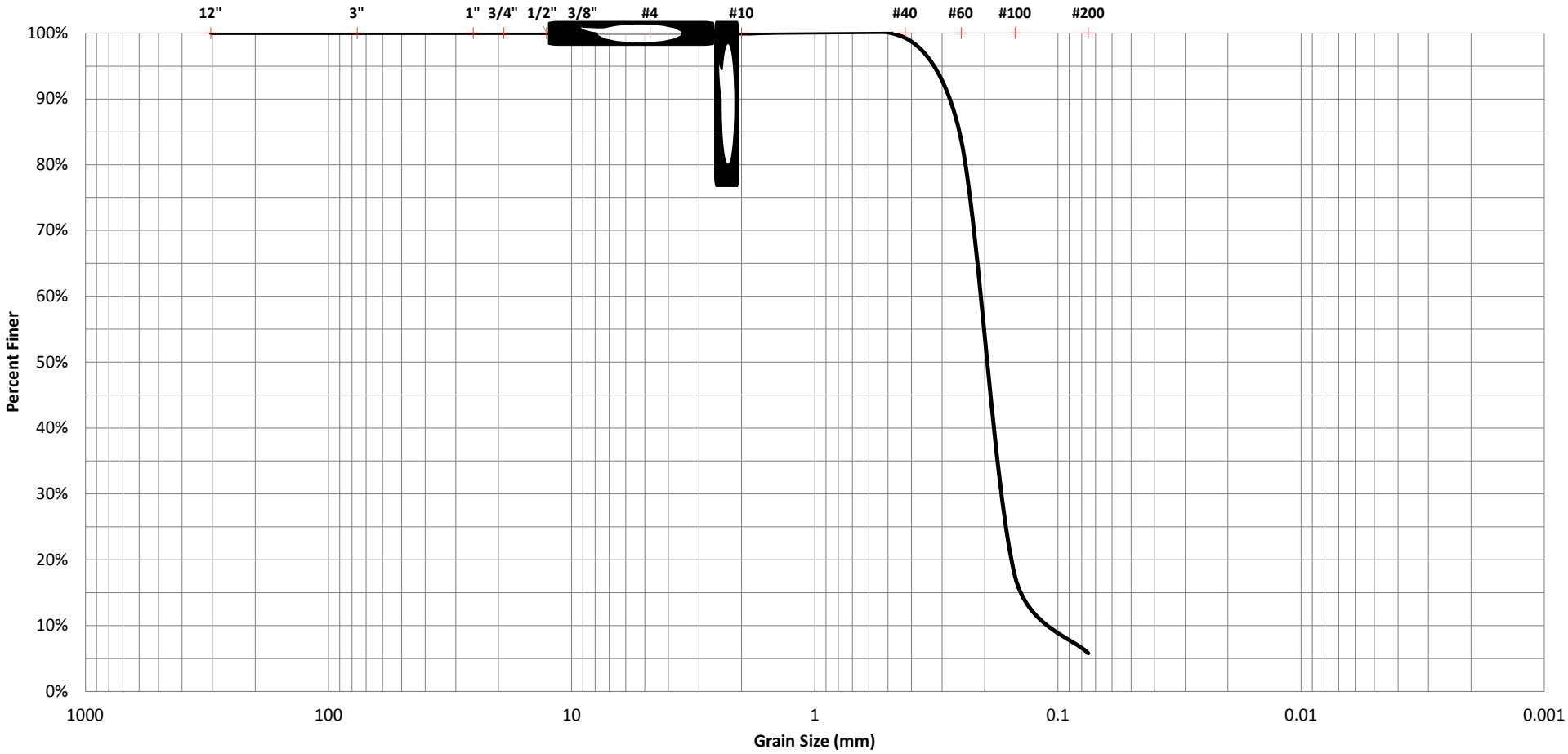
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	PB-9 (4)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	6-8

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
28	--	-	-	Brown Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

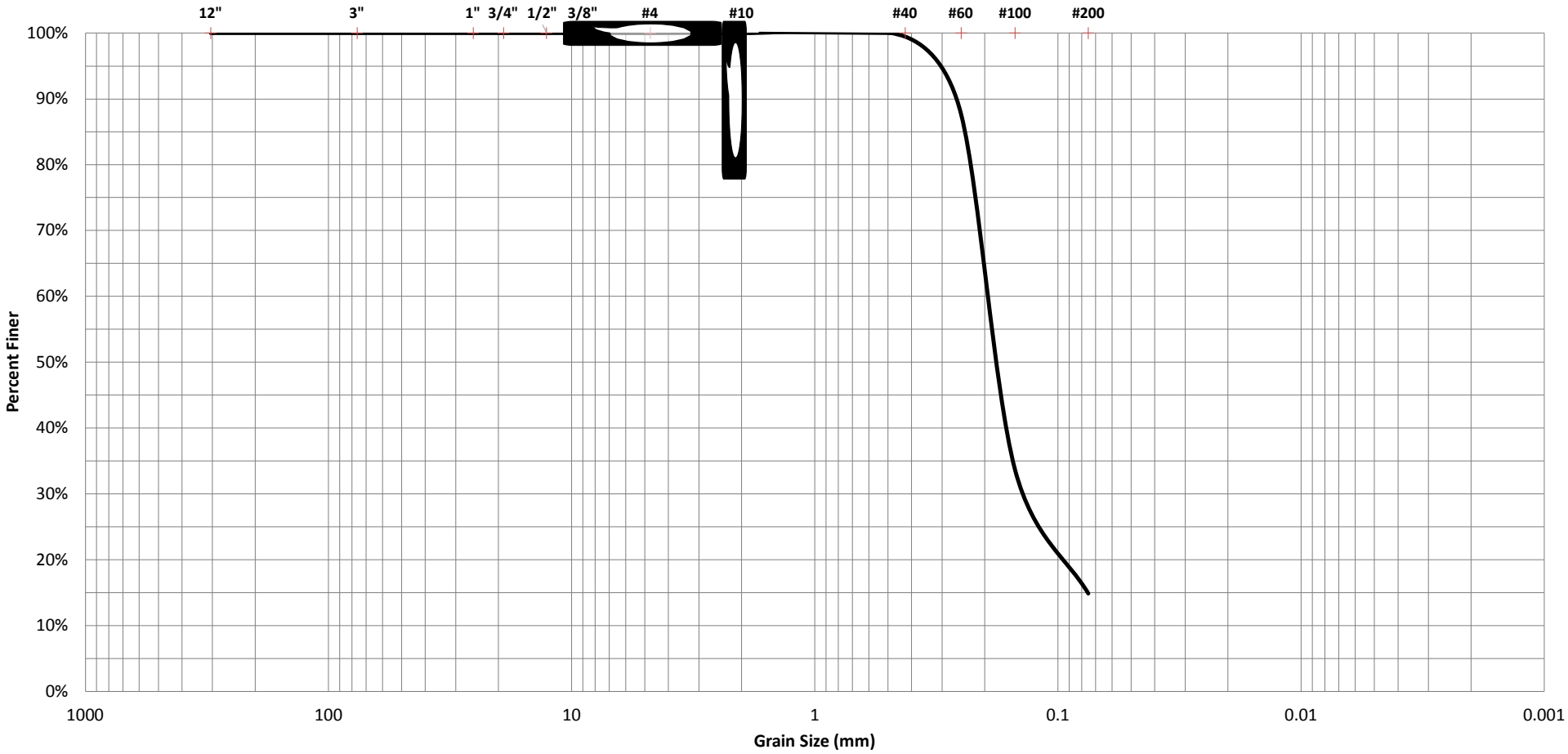
PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	PB-11 (4)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	6-8

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
26	-	-	-	Dark Brown Slightly Silty Fine SAND	A-3	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GRAIN SIZE DISTRIBUTION GRAPH

US STANDARD SIEVE SIZES



BOULDERS	COBBLES	GRAVEL		SAND			FINES	
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

PROJECT NAME:	William Burgess Boulevard Extension	**BORING NO. / SAMPLE NO.:**	PB-12 (5)
CSI GEO PROJECT NUMBER:	71-19-133-09	**DEPTH (FT.) :**	8-10

W%	LL	PL	PI	DESCRIPTION / CLASSIFICATION		CSI Geo, Inc.
30	-	-	-	Dark Brown Silty Fine SAND	A-2-4	

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Appendix D – General Information

Key to Soil Classification

Field and Laboratory Test Procedures

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Key to Soil Classification

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KEY TO SOIL CLASSIFICATION

Correlation of Penetration Resistance with Relative Density and Consistency

Granular Materials		Silts and Clays	
Relative Density	**Automatic Hammer SPT N-Value (Blows/foot)**	**Consistency**	**Automatic Hammer SPT N-Value (Blows/foot)**
Very Loose	Less than 3	Very Soft	Less than 1
Loose	3 – 8	Soft	1 – 3
Medium Dense	8 - 24	Firm	3 - 6
Dense	24 - 40	Stiff	6 - 12
Very Dense	Greater than 40	Very Stiff	12 - 24
		Hard	Greater than 24

Particle Size Identification (Unified Soil Classification System)

Boulders:	Diameter exceeds 8 inches
Cobbles:	3 to 8 inches diameter
Gravel:	Coarse - 3/4 to 3 inches in diameter
	Fine - 4.76 mm to 3/4 inch in diameter
Sand:	Coarse - 2.0 mm to 4.76 mm in diameter
	Medium - 0.42 mm to 2.0 mm in diameter
	Fine - 0.074 mm to 0.42 mm in diameter

Modifiers

These modifiers provide our estimate of the amount of fines (silt or clay size particles) in soil samples.

Approximate Fines Content	Modifiers
5% Fines 12%	Slightly silty or slightly clayey
12% Fines 30%	Silty or clayey
30% Fines 50%	Very silty or very clayey

These modifiers provide our estimate of shell, rock fragments, or roots in the soil sample.

Approximate Content, By Weight	Modifiers
< 5%	Trace
5% to 10%	Few
15% to 25%	Little
30% to 45%	Some
50% to 100%	Mostly

These modifiers provide our estimate of organic content in the soil sample.

Organic Content	Modifiers
1% to 3%	Trace
3% to 5%	Slightly Organic
5% to 20%	Organic
20% to 75%	Highly Organic (Muck)
> 75%	Peat

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Field and Laboratory Test Procedures

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

FIELD AND LABORATORY TEST PROCEDURES

FIELD TEST PROCEDURES

Standard Penetration Test (SPT) Borings – Standard Penetration Tests (SPT) borings were made in general accordance with ASTM D-1586-67, "Penetration Test and Split-Barrel Sampling of Soils". The borings were continuously sampled to 10 ft. Below 10 feet and until boring termination depths, split spoon sampling was performed at a spacing of 5 feet. Below the groundwater levels, the borings were advanced using rotary drilling techniques with side discharge and circulating bentonite fluid for borehole flushing and stability. Continuously, the drilling tools were removed from the borehole and a split-barrel sampler inserted to the borehole bottom and driven 18-24 inches into the material using a 140-pound SPT hammer falling on the average 30 inches per hammer blow. The number of hammer blows for the second and third six inch intervals of penetration is termed the "penetration resistance, blow count, or N-value". After driving the sampler 24 inches or to refusal at each test interval, the sampler was retrieved from the borehole and a representative sample of the material within the split-barrel was placed in a glass jar or plastic bag and sealed. After completing the drilling operations, the samples for the boring were transported to our laboratory where they were examined by one of our geotechnical engineers to verify the driller's field classifications.

Auger Borings – The auger borings were advanced by the use of a truck mounted auger drill rig. The soils encountered were identified in the field from the cuttings brought to the surface by the augering process. Representative soil samples were placed in glass jars and transported to our laboratory where they were examined by a geotechnical engineer to confirm field classifications.

LABORATORY TEST PROCEDURES

Percent Organic Content – This test is based on the percent of organics by weight of the total sample. This test was conducted in accordance with FM I - T 267.

Percent Fine Content – To determine the percentage of soils finer than No. 200 sieve, the dried samples were washed over a 200 mesh sieve. The material retained on the sieve was oven dried and then weighed and compared with the unwashed dry weight in order to determine the weight of the fines. The percentage of fines in the soil sample was then determined as the percentage of weight of fines in the sample to the weight of the unwashed sample. This test was conducted in accordance with ASTM D 1140.

Natural Moisture Content – The water content is the ratio, expressed as a percentage, of the weight of water in a given mass of soil to the weight of the solid particles. This test was conducted in the general accordance with FM 1-T 265.

Plasticity (Atterberg Limits) – The soil's Plastic Index (PI) is bracketed by the Liquid Limit (LL) and Plastic Limit (PL). The LL is the moisture content at which the soil flows as a heavy viscous fluid and is determined in general accordance with FM 1-T 089. The PL is the moisture content at which the soil begins to crumble when rolled into a small thread and is also determined in general accordance with FM 1-T 090. The water-plasticity ratio is computed from the above test data. This ratio is an expression comparing the relative natural state of soil with its liquid and plastic consolidation characteristics.

Grain Size Distribution – The grain size tests were performed to determine the particle size and distribution of the samples tested. Each sample was dried, weighed, and washed over a No. 200 mesh sieve. The dried sample was then passed through a standard set of nested sieves to determine the grain size distribution of the soil particles coarser than the No. 200 sieve. This test is similar to that described by FM I - T 088.

pH – The pH is an expression of the concentration of dissociated hydrogen ions present in an aqueous solution. pH values range from 1 to 14, with values below 7 indicating acidic conditions and values above

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7 indicating alkaline (basic) conditions. This test is performed using a calibrated electronic pH meter with a sensing probe. The meter is calibrated by immersing the probe in a solution with a known pH. The soil pH is determined by mixing equal weights of soil and distilled water and testing the supernatant solution with the pH probe.

Electrical Resistivity – Resistivity is a measure of the resistance to flow of electrical current through the soil. Resistivity, the inverse of conductivity, is measured in units of ohm-centimeters. This measurement is performed with a calibrated electronic conductivity/resistivity meter which is equipped with a sensing probe. The conductivity/resistivity of soil samples is conductivity/resistivity of the supernatant solution with the sensing probe.

Sulfate and Chloride Content – The sulfate ($SO_4,^{-2}$) and chloride (Cl^-) content of the site soils were performed in general accordance with ASTM D-512 for chloride ions in soils, and ASTM D-4130 for sulfate ions in soils.

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APPENDIX D

Nassau County - Road Closure Policy

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Nassau County Engineering Services Department
96161 Nassau Place
Yulee, Florida 32097

Road Closure Policy

1. Submit a written request to the Public Works Director for the road closure. In the request you must explain the following:

   a) Why the road needs to be closed and the duration of the closure?
   b) What are the benefits to public for closing the road?
   c) Include a draft detour plan.

   After the road closure request and draft detour plan have been approved, the following information shall be submitted to the Nassau County Engineering Services Department for review and approval.

2. Submit to Nassau County Engineering Services Department: A Maintenance of Traffic (MOT) Plan that was prepared by or approved by Florida Advanced Maintenance of Traffic (AMOT) certified personnel referencing the latest editions of the Florida Department of Transportation (FDOT) Design Standards Section 600 and the Manual on Uniform Traffic Control Devices (MUTCD). These plans shall include the Worksite Traffic Supervisor as per the latest edition of the FDOT Standard Specifications for Road & Bridge Construction Section 105-8.3. Variable Message Boards (VMB) will be required and shall be installed 7 days prior to the detour taking place and remain throughout. Any signed detour that will be within FDOT Right-of-Way (or on portions thereof) shall have prior FDOT approval.

   A Maintenance of Traffic Plan proposing a change to any approved documents, including contract documents and approved construction plans must be signed and sealed.

3. Provide a public notification advertisement to an approved local newspaper. To appear no less than fourteen (14) days prior to the scheduled closure. Submit the draft notification to Nassau County Engineering Services for review and approval prior to advertising. This notification will clearly describe the name of the project and contractor, scope of the detour, scope of construction, the name of all roads that will be affected, official detour routes, duration of closure and the Worksite Traffic Supervisor's telephone number. Attach a diagram showing the surrounding area and detour routes. Diagram must be clear and depict road names and route direction. The size of advertisement in newspaper shall be a minimum of 2 columns wide by 12 inches long (tall) or one fifth (1/5) of a page with a minimum of 24 point font for the heading and 10 point font for the body and detour plan. Flyers with the same information may be required. With the Engineering Services Department's written approval, local roads may not require publishing of the advertisement in the paper; however, all other criteria must be adhered to.

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- Nassau County Sheriff's Office:
  - Ricky A Rowell , TAC
    Phone - (904) 548-4000
    Fax - (904) 225-5737
    Email - rickyr@nassauso.com
  - L. Rene Graham, Lt.
    Phone - (904) 548-4028
    Fax - (904) 548-4128
    Email - lrgraham@nassauso.com

- Nassau County Emergency Management:
  - Martha Oberdorfer
    Phone - (904) 548-0931
    Fax - (904) 548-4194
    Email - mloberdorfer@nassauso.com

- Nassau County Fire Department:
  - Scott Hemmingway and Asst. Chief Roland
    Phone - (904) 530-6600
    Fax - (904) 321-5748
    Email- shemmingway@nassaucountyfl .com groland@nassaucountyfl.com

- Nassau County School Bus Transportation:
  - Evelyn Mickey
    Phone - (904) 225-0127
    Fax - (904) 255-9404
    Email - mckieev@nassau.k12.fl.us

- Nassau County Road & Bridge Department:
  - Jennifer Kirkland
    Phone - (904) 530-6175
    Fax - (904) 530-6901
    Email - jbeayer@nassaucountyfl.com

- Nassau County Manager's Office
  - Sabrina Robertson
    Phone - (904) 530-60 10
    Fax - (904) 321-5784
    Email - SRobertson@nassaucountyfl.com

- United Postal Service (Yulee)
  - Cassondra Mitchell
    Phone - (904) 225-5331
    Fax - (904) 225-9733
    Email - cassondra.t.mitchell@usps.gov

- United Postal Service (Fernandina)
  - Edwin Lang
    Phone - (904) 491-8102
    Fax - (904) 277-7947
    Email - edwin.p.lang@usps.gov

- United Postal Service (Callahan)
  - Kim Vojtech
    Phone - (904) 879-2131
    Fax - (904) 879-6737
    Email - kim.k.vojtech@usps.gov

- United Postal Service (Hilliard)
  - Heather Ackerman
    Phone - (904) 845-2151
    Fax - (904) 845-7738
    Email - heather.r.ackerman@usps.gov

Depending on the location of the project/detour, notification to other agencies may be required.

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5. Signage will be in place prior to road closure. They will be bagged/covered until needed. VMBs, will be installed and operating a minimum of seven (7) calendar days prior to any closure/detour.

6. Visual inspection of the VMB by the Engineering Services Department is required at installation or relocation. Visual inspection of all road/detour signage shall be accomplished prior to road closure. Contact Engineering Services 48 hours prior to installation for inspection.

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Project Description(s):_____

Financial Project Number(s):_____

In accordance with State law:

Section 287.133(2)(b), Florida Statutes, provides that public entities may not contract with firms that have been excluded from participating in the public contracting process.

A public entity may not accept any bid, proposal, or reply from, award any contract to, or transact any business in excess of the threshold amount provided in s. 287.017. F.S., for CATEGORY TWO with any person or affiliate on the convicted vendor list for a period of 36 months following the date that person or affiliate was placed on the convicted vendor list unless that person or affiliate has been removed from the list pursuant to Section 287.133(3)(f), F.S. A public entity that was transacting business with a person at the time of the commission of a public entity crime resulting in that person being placed on the convicted vendor list may not accept any bid, proposal, or reply from, award any contract to, or transact any business with any other person who is under the same, or substantially the same, control as the person whose name appears on the convicted vendor list so long as that person's name appears on the convicted vendor list.

A contract award (reference 2 CFR 1200 and 2 CFR 180) must not be made to parties listed on the government-wide Excluded Parties List System in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR Part 1986 Comp., p. 189) and 12689 (3 CFR Part 1989 Comp., p. 235), "Debarment and Suspension." Pursuant to 23 CFR 172.7(b)(3), a contracting agency shall verify suspension and debarment actions and eligibility status of consultants and subconsultants prior to entering into an agreement or contract in accordance with 2 CFR part 1200 and 2 CFR part 180, when the identities of such subconsultants are known prior to execution of the subject agreement or contract. The Excluded Parties List System in SAM contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

The Convicted Vendor List/ Suspended Vendor List / Discriminatory Vendor List / Federal Excluded Parties List/ Vendor Complaint Lists are available at the following Department of Management Services site:

http://www.dms.myflorida.com/business_operations/state_purchasing/vendor_information/convicted_suspended_discriminatory_complaints_vendor_lists

Section 287.135, F.S. prohibits a company from bidding on, submitting a proposal for, or entering into or renewing a contract for goods or services of any amount if the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Section 215.4725, F.S. or is engaged in a boycott of Israel. Section 287.135, F.S. also prohibits a company from bidding on, submitting a proposal for, or entering into or renewing a contract for goods or services of $1,000,000 or more, if the company is on either the Scrutinized Companies with Activities in Sudan List, or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector Lists which are created pursuant to s. 215.473, F.S.

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The List of Scrutinized Companies that Boycott Israel, and the Scrutinized List of Prohibited Companies (Activities in Sudan/Iran Petroleum Energy Sector) are available at the following Florida State Board of Administration site:

https://www.sbafla.com/fsb/FundsWeManage/FRSPensionPlan/GlobalGovernanceMandates.aspx

I have checked the aforementioned lists that apply to this procurement, as applicable to verify that the vendor (and all subs where known) is eligible for contract award/execution:

Procurement Office or Contracting Awarding Office:

_____
Printed Name

_____
Signature

Date: _____

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APPENDIX E

Nassau County As-Built Requirement Check List

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Nassau County Engineering Services Department
96161 Nassau Place
Yulee, Florida 32097

Robert T. Companion, P.E.
County Engineer

AS-BUILTS REQUIREMENT CHECKLIST:

The Following list is intended to highlight the majority of the as-built requirements for Construction projects in Nassau County. This list should not be considered to be all-inclusive as each project is unique in nature and may require additional information that can only be determined during the course of the project's completion. Generally, however, the AS-BUILT information shall contain the following:

1. AS-BUILTS should be based on the design plans as approved through the DRC process. The submitted as-builts should be at the same scale and have the same orientation as the design files.

2. AS-BUILTS should have the same page numbering as the design plans, and the cover of the AS-BUIILT plans should have all sheets from the design plans listed with sheets not "AS-BUILTED" stricken through.

3. AS-BUILTS should display the original design information as displayed on the plan sheets with the design information stricken through and the as-built information displayed in bold adjacent to the design information.

4. AS-BUILTS shall be accompanied by an "Engineer's Certification" form from the Engineer of Record. (Exhibit 3&4)

5. Three (3) sets of fully signed and sealed AS-BUILTS should be submitted along with a CADD file(s) containing the AS-BUILT information. CADD files should be in State Plane coordinates (NAD 83) with a vertical datum of NGVD 1929. Furthermore, CADD files should be submitted in ACAD 2004 or ACAD 2006 only.

6. Northings and Easting of all drainage structures should be included.

7. The plans should be clearly legible and all structure notes, distances, angles and elevations should be clearly readable.

8. If the plan represents a phase of a development, then that phase should be clearly identified for clarity and avoid confusion with future phases.

9. There should be a north arrow and scale on each sheet.

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10. A legend should be included explaining the symbols used in the plans.

11. ALL sheets must be signed and sealed by a surveyor licensed in the State of Florida.

12. There should be sufficient “plan” and “as-built” elevations shown to verify that the streets were constructed substantially in accordance with the approved construction plans. Generally, the County will review all low points and high points in the street and verify that the minimum grade exists for each street. On straight sections between high and low points elevations should be taken every 200 feet.

13. All street curve radii should be shown on the plans or in a table.

14. Street widths and curb type should be identified for each street on each sheet.

15. Whenever there are islands within the streets the as-builts should include dimensions for these islands.

16. The paved radii of all Cul-de-Sacs should be listed and Cul-De-Sac center and edge of pavement or gutter elevations at quarter points shall be shown.

17. All underdrains should be shown with size, lengths, inverts and cleanouts all shown.

18. Where swales are utilized there should be sufficient flow line elevations and ditch cross sections to verify capacity of the channel.

19. There should be a comparison table of design and as-built pipe sizes, lengths, invert elevations, and pipe slopes.

20. The as-built surface area of the pond(s) at Normal Water Level (design) and Top of Bank (as-built) should be included.

21. The bottom elevation and area should be shown (2 locations min. per pond).

22. The surveyor shall certify by note (for each pond) that no slope is greater than 1:4 above the design NWL, unless the pond is fenced.

23. All structures in the pond (overflow weirs, etc.) should be included.

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24. All watermain and sewer main locations, dimensions, etc.

25. All easements required (or on a plat) should be shown on the “As- Builts” and improvement located so as to verify improvements are within the easement. Easement not recorded as part of the recorded plat including drainage and right-of-way easements shall also be identified as “as-built”. For these easements the book and page of their record, property to whom easement is dedicated and date of filing should be shown on as the “as-built”. All improvements intended to be within these easements shall be shown as the “as-builts” to verify the improvements are within the easement. Wetlands are not reviewed by Nassau County and need not be shown.

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EXHIBIT 1

GENERAL INFORMATION AND INSURANCE REQUIREMENTS

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

GENERAL INFORMATION AND MINIMUM INSURANCE REQUIREMENTS

COMMERCIAL GENERAL LIABILITY INSURANCE

The Vendor/Contractor shall purchase and maintain at the Contractor's expense Commercial General Liability insurance coverage (ISO or comparable Occurrence Form) for the life of this Contract. Modified Occurrence or Claims Made forms are not acceptable.

The Limits of this insurance shall not be less than the following limits:

Each Occurrence Limit	$1,000,000
Personal & Advertising Injury Limit	$1,000,000
Products & Completed Operations Aggregate Limit	$2,000,000
General Aggregate Limit (other than Products & Completed Operations) Applies Per Project	$2,000,000

General liability coverage shall continue to apply to "bodily injury" and to "property damage" occurring after all work on the Site of the covered operations to be performed by or on behalf of the additional insureds has been completed and shall continue after that portion of "your work" out of which the injury or damage arises has been put to its intended use.

WORKERS' COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE

The Vendor/Contractor shall purchase and maintain at the Contractor's expense Workers' Compensation and Employer's Liability insurance coverage for the life of this Contract.

The Limits of this insurance shall not be less than the following limits:

Part One – Workers' Compensation Insurance – Unlimited
Statutory Benefits as provided in the Florida Statutes and
Part Two – Employer's Liability Insurance

Bodily Injury By Accident	$500,000 Each Accident
Bodily Injury By Disease	$500,000 Policy Limit
Bodily Injury By Disease	$500,000 Each Employee

*If leased employees are used, policy must include an Alternate Employer's Endorsement

AUTOMOBILE LIABILITY INSURANCE

The Vendor/Contractor shall purchase and maintain at the Contractor's expense Automobile Liability insurance coverage for the life of this Contract.

The Limits of this insurance shall not be less than the following limits:

Combined Single Limit – Each Accident	$1,000,000

Covered Automobiles shall include any auto owned or operated by the insured Vendor/Contractor, including autos which are leased, hired, rented or borrowed, including autos owned by their employees which are used in connection with the business of the respective Vendor/Contractor.

UMBRELLA (EXCESS) LIABILITY INSURANCE

The Vendor/Contractors hall purchase and maintain at the Subcontractor's expense Excess Liability (Umbrella Form) insurance coverage for the life of this Subcontract.

The Limits of this insurance shall not be less than the following limits:

Each Occurrence Limit	$2,000,000
Aggregate Limit	$2,000,000

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Vendor/Contractor shall require each of his Subcontractors to likewise purchase and maintain at their expense Commercial General Liability insurance, Workers' Compensation, Employer's Liability, Auto Liability and Umbrella Liability insurance coverage meeting the same limit and requirements as the Contractors insurance.

Certificates of Insurance and the insurance policies required for this Agreement shall contain –

- **Endorsement that coverage afforded under the policies will not be cancelled or allowed to expire until at least thirty (30) days prior written notice has been given to Nassau County Board of County Commissioners.**
  - **Nassau County Board of County Commissioners must be named as an Additional Insured and endorsed onto the Commercial General Liability (CGL), Auto Liability and Umbrella Liability policy (ies).**
  - **CGL policy for construction related contracts –**
    - **Additional Insured Endorsement must include Ongoing and Completed**
    - **CGL policy shall not be endorsed with Contractual Liability Limitation Endorsement or Amendment of Insured Contract Definition**
    - **CGL policy shall include broad form contractual liability coverage for the Contractors covenants to and indemnification of the Authority under this Contract**
- **Provision under General Liability, Auto Liability and Workers' Compensation to include a Waiver of Subrogation clause in favor of Nassau County Board of County Commissioners.**
- **Provision that policies, except Workers' Compensation, are primary and noncontributory.**

All Insurers must be authorized to transact insurance business in the State of Florida as provided by Florida Statute 624.09(1) and the most recent Rating Classification/Financial Category of the insurer as published in the latest edition of "Best's Key Rating Guide' (Property-Casualty) must be at least A- or above.

All of the above referenced Insurance coverage is required to remain in force for the duration of this Agreement and for the duration of the warranty period. Accordingly, at the time of submission of final application for payment, Vendor/Contractor shall submit an additional Certificate of Insurance evidencing continuation of such coverage.

If the Vendor/Contractor fails to procure, maintain or pay for the required insurance, Nassau County Board of County Commissioners shall have the right (but not the obligation) to secure same in the name of and for the account of Vendor/Contractor, in which event, Vendor/Contractor shall pay the cost thereof and shall furnish upon demand, all information required to procure such insurance. Nassau County Board of County Commissioners shall have the right to back-charge Vendor/Contractor for the cost of procuring such insurance. The failure of Nassau County Board of County Commissioners to demand certificates of insurance and endorsements evidencing the required insurance or to identify any deficiency in Vendor/Contractors coverage based on the evidence of insurance provided by the Vendor/Contractor shall not be construed as a waiver by Nassau County Board of County Commissioners of Vendor/Contractor's obligation to procure, maintain and pay for required insurance.

The insurance requirements set forth herein shall in no way limit Vendor/Contractors liability arising out of the work performed under the Agreement or related activities. The inclusions, coverage and limits set forth herein are minimum inclusion, coverage and limits. The required minimum policy limits set forth shall not be construed as a limitation of Vendor/Contractor's right under any policy with higher limits, and no policy maintained by the Vendor/Vendor/Contractor shall be construed as limiting the type, quality or quantity of insurance coverage that Vendor/Vendor/Contractor should maintain. Vendor/Vendor/Contractor shall be responsible for determining appropriate inclusions, coverage and limits, which may be in excess of the minimum requirements set forth herein.

If the insurance of any Vendor/Vendor/Contractor or any Sub-Vendor/Vendor/Contractor contains deductible(s), penalty(ies) or self-insured retention(s), the Vendor/Vendor/Contractor or Sub-Vendor/Vendor/Contractor whose insurance contains such provision(s) shall be solely responsible for payment of such deductible(s), penalty(ies) or self-insured retention(s).

The failure of Vendor/Vendor/Contractor to fully and strictly comply at all times with the insurance requirements set forth herein shall be deemed a material breach of the Agreement.

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NASSAU COUNTY
BOARD OF COUNTY COMMISSIONERS
Procurement Department
96135 Nassau Place, Suite 2
Yulee, Florida 32097
Ph: 904-530-6040

TO: All Prospective Bidders

FROM: Thomas O'Brien, Procurement Specialist

SUBJECT: Addendum #1
Invitation to Bid Number NC24-010
William Burgess Blvd Extension

DATE: March 19, 2024

This addendum is hereby incorporated into the bid documents of the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to, and shall take precedence over, the original documents.

The Pre-bid meeting shall be held on the following date, time and location:

March 27, 2024 at 1:00PM
James S. Page Governmental Complex
Commissioners Chambers
96135 Nassau Place
Yulee, Florida 32097

The solicitation due date and opening time remains: April 18, 2024 at 10:00 AM EST.

VENDOR HEREBY ACKNOWLEDGES THIS ADDENDUM ELECTIONICALLY THROUGH PLANETBIDS BY ITS BID SUBMISSION.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

NASSAU COUNTY
BOARD OF COUNTY COMMISSIONERS
Procurement Department
96135 Nassau Place, Suite 2
Yulee, Florida 32097
Ph: 904-530-6040

TO: All Prospective Bidders

FROM: Thomas O'Brien, Procurement Specialist

SUBJECT: Addendum #2
Invitation to Bid Number NC24-010
William Burgess Blvd Extension

DATE: April 5, 2024

This addendum is hereby incorporated into the bid documents of the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to, and shall take precedence over, the original documents.

Questions from Pre-bid Meeting held March 27, 2024

1. Lighting sheets are still missing form the plans, will the be included?

   Answer: Yes, see attached.

2. Do we need to have E-Verify for subcontractors?

   Answer: The E-Verify Affidavit needs to be filled out for both the Prime and the Subcontractors, but the proof of Registration is only for the Prime.

3. The JEA plans make notes about insolvent materials, is there a specific area for where these are present or that more of a generic note?

   Answer: Yes this is a standard note the contractor is required to follow should Solvent contaminations be discovered. This would be an unforeseen condition needing to meet JEA standard requirements.

4. Can the Question-and-Answer period be extended?

   Answer: Yes, please see the note below.

The Q&A Period for this solicitation is being extended to April 5, 2024 until 4:00 PM EST

The solicitation due date and opening time remains: April 18, 2024 at 10:00 AM EST.

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Attached: Lighting Plans for WBB

VENDOR HEREBY ACKNOWLEDGES THIS ADDENDUM ELECTRONICALLY THROUGH PLANETBIDS BY ITS BID SUBMISSION.

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ADDENDUM 2 NC24-010-ITB

NASSAU COUNTY ENGINEERING

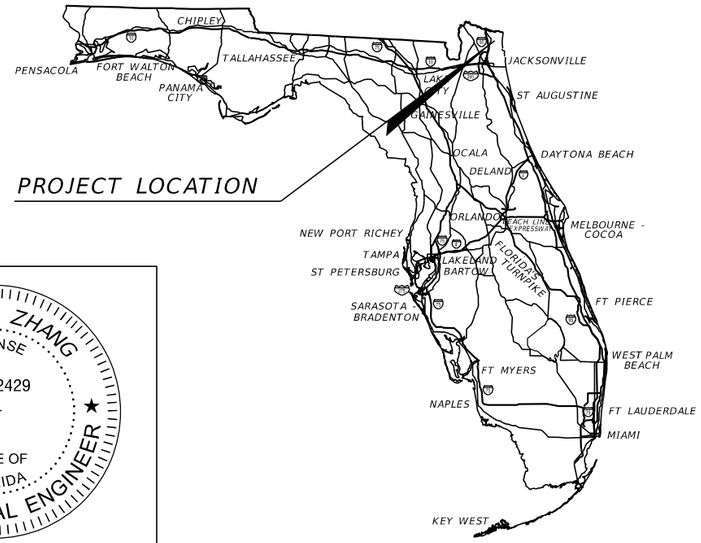
CONTRACT PLANS

WILLIAM BURGESS BLVD. EXTENSION

LIGHTING PLANS

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	TABULATION OF QUANTITIES
L-3	GENERAL NOTES
L-4	POLE DATA
L-5 - L-8	LIGHTING PLAN
L-9	SERVICE PANEL DETAIL
L-10	METER POST DETAIL



WENSHU ZHANG
LICENSE
No. 82429
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

NASSAU COUNTY
BOARD OF COUNTY COMMISSIONERS

JOHN F. MARTIN, DISTRICT 1
A.M. "HUPP" HUPPMAN, DISTRICT 2
JEFF GRAY, DISTRICT 3
ALYSON MCCOLLOUGH, DISTRICT 4
KLYNT A. FARMER, DISTRICT 5

ROADWAY PLANS
ENGINEER OF RECORD:

WENSHU ZHANG, P.E.
P.E. NO.: 82429
GAI CONSULTANTS, INC
12574 FLAGLER CENTER BLVD., SUITE 202
JACKSONVILLE, FL 32258
CONTRACT NO.:
VENDOR NO.: 251260999-002

NASSAU COUNTY PROJECT MANAGER:

ROBERT T. COMPANION, P.E.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2022/2023 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Nassau County Ordinance 99-17, Roadway and Drainage Standards

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, JULY 2021 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

SHEET NO.
L-1

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ADDENDUM 2 NC24-010-ITB

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			L-5		L-6		L-7		L-8											
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	235		710		471		236								1652		1652	
0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	307		167		155		73								702		702	
0635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	7		10		7		2								26		26	
0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1		1		1		1								4		4	
0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	50		225		40		235								550		550	
0639 3 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1		1		1		1								4		4	
0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1		1		1		1								4		4	
0715 1 11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	LF	2334		2850		2382		564								8130		8130	
0715 61111	LIGHT POLE COMPLETE, F&I, STANDARD POLE STANDARD FOUNDATION, 30' MOUNTING HEIGHT, 8' ARM LENGTH	EA	8		6		6		2								22		22	
0715 7 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	1		1		1		1								4		4	

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904.363.1110
Certificate of Authorization:EB9951

WENSHU ZHANG, P.E. Lic. No. 82429

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DATE: 11/28/2023
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CHECKED: RT
APPROVED: WZ

PROJECT NO. / DASH NO.
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TABULATION OF QUANTITIES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
L-2

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LIGHTING GENERAL NOTES

1. THE CONTRACTOR SHALL BE AWARE OF ALL EXISTING AND PROPOSED UTILITIES AS SHOWN IN THE ROADWAY PLANS. THE LOCATIONS OF EXISTING AND PROPOSED UTILITIES ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNER(S) AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND REQUEST UTILITY COMPANIES TO LOCATE AND STAKE UNDERGROUND UTILITIES PRIOR TO EXCAVATING.

2. ALL CONDUIT SHALL BE CAREFULLY CLEANED, BEFORE AND AFTER INSTALLATION. UPON COMPLETION OF THE CONDUIT INSTALLATION, THE CONTRACTOR SHALL CLEAR EACH CONDUIT WITH A TUBE CLEANER EQUIPED WITH A MANDREL OF A DIAMETER NOT LESS THAN EIGHTY PERCENT (80%) OF THE NOMINAL INSIDE DIAMETER OF THE CONDUIT.

3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING THE CONSTRUCTION OPERATION, UNLESS OTHERWISE PERMITTED BY ANY APPLICABLE MAINTENANCE OF TRAFFIC (MOT) OR TEMPORARY TRAFFIC CONTROL (TCP) PLANS.

4. ROADSIDE PULL BOXES SHALL HAVE AN AASHTO HS-20 LOAD RATING AS A MINIMUM.

5. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, EQUIPMENT SPECIFICATIONS OR DESIGN DATA FOR MATERIAL PROPOSED FOR THE PROJECT AND SHALL INCLUDE BUT NOT BE LIMITED TO:

   A) LUMINAIRE AND LUMINAIRE PHOTOMETRICS, SUBMITTAL SHALL INCLUDE A COMPUTER PRINTOUT SHOWING HORIZONTAL FOOT-CANDLE LEVELS TO BE OBTAINED USING THE SUBMITTED LUMINAIRES ON THE PROJECT.
   B) CONDUCTORS, CONDUIT, GROUND RODS AND PULL BOXES.
   C) FUSES, FUSE HOLDERS, SURGE PROTECTION DEVICES (SPD's), POLE CABLE DISTRIBUTION SYSTEM, PANELBOARDS, CIRCUIT BREAKERS, CONTRACTORS, TERMINAL BLOCKS, PHOTO CELLS, CONTROL TRANSFORMERS, AND ENCLOSURES.
   D) LIGHTING POLES INCLUDING ARM.
   E) FOUNDATIONS.
   F) COPIES OF ALL WARRANTIES FROM THE MANUFACTURER.

6. CONDUIT LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. CONDUIT MUST BE PLACED WITHIN THE RIGHT-OF-WAY, BUT CAN BE ADJUSTED TO FIT AROUND EXISTING AND PROPOSED UTILITIES. WHERE PLANNED LOCATION OF LIGHTING CONDUIT RUNS 36" UNDER PAVEMENT IS FOUND TO CONFLICT WITH UNDERGROUND UTILITIES, THE LIGHTING CONDUIT POSITION SHALL BE ALTERED VERTICALLY OR HORIZONTALLY TO AVOID THE CONFLICT AS RECOMMENDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. A 24" ABSOLUTE MINIMUM DEPTH SHALL BE MAINTAINED WHERE LIGHTING CONDUITS ARE RELOCATED CLOSER THAN 36" BELOW THE GROUND SURFACE AND SHALL BE PLACED IN AN ADDITIONAL 3" PVC SLEEVE OR BACKFILLED WITH A MINIMUM OF 4" X 4" OF CONCRETE.

7. PAY ITEM DESCRIPTIONS MAY BE FOUND IN THE CURRENT FDOT BASIS OF ESTIMATES HANDBOOK.

8. 715-61-111: PROPOSED LIGHTING POLE, ARM, AND LUMINAIRE ARE TO CONFORM TO LIGHTING STANDARDS AS OUTLINED IN THE WILLIAM BURGESS CONTEXT AND CONNECTIVITY BLUEPRINT FROM THE NASSAU COUNTY DEPARTMENT OF PLANNING AND ECONOMIC OPPORTUNITY.

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WENSHU ZHANG, P.E. Lic. No. 82429

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GENERAL NOTES

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
L-3

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ADDENDUM 2 NC24-010-ITB

POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
1	A	455+97.80 ℄ Const. US 17	8'	146	30'	20' FROM EOP	715-4-11
2	A	455+71.49 ℄ Const. US 17	8'	146	30'	8' FROM FOC	715-4-11
3	A	13+58.16 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
4	A	14+05.72 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
5	A	12+24.34 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
6	A	12+63.45 ℄ Const. WBB	8'	146	30'	4' FROM FOC	715-4-11
7	A	454+03.95 ℄ Const. US 17	8'	146	30'	35' FROM EOP	715-4-11
8	A	454+54.76 ℄ Const. US 17	8'	146	30'	4' FROM FOC	715-4-11
9	B	70+24.30 ℄ Const. WBB	8'	146	30'	1' FROM FOSW	715-4-11
10	B	72+00.00 ℄ Const. WBB	8'	146	30'	1' FROM FOSW	715-4-11
11	B	69+51.94 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
12	B	70+46.35 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
13	B	71+46.60 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
14	B	204+00.00 ℄ Const. Theresa Ct.	8'	146	30'	1' FROM BOSW	715-4-11
15	C	306+20.29 ℄ Const. Miner Rd.	8'	146	30'	1' FROM BOSW	715-4-11
16	C	102+46.27 ℄ Const. WBB	8'	146	30'	9' FROM BOSW	715-4-11
17	C	101+88.96 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
18	C	102+81.63 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
19	C	305+53.64 ℄ Const. Miner Rd.	8'	146	30'	1' FROM BOSW	715-4-11
20	C	304+45.20 ℄ Const. Miner Rd.	8'	146	30'	9' FROM FOC	715-4-11
21	D	87+17.25 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11
22	D	86+84.79 ℄ Const. WBB	8'	146	30'	1' FROM BOSW	715-4-11

PEDESTRIAN LIGHTING DESIGN CRITERIA NEW CONSTRUCTION

Average Initial Intensity (Horizontal)	3.0 Foot Candles (Std.) 1.5 Foot Candles (Min.)
Average Initial Intensity (Vertical)	1.5 Foot Candles (Std.) 1.2 Foot Candles (Min.)
Uniformity Ratio Avg./Min.	4:1 Or Less
Max./Min.	10:1 Or Less
Wind Speed	120 MPH

LEGEND

SYMBOLS	DESCRIPTION
⬭—o	Single arm LED teardrop lumininare with shade. Designed for Type III distribution. Luminaire wired for 120 volt operation. Pole mounting height 30 ft. Use curve 1914LED-RLM431-3L40T3-MDL09-A or equal.
——— ∘ ———	Direct buried conduit with lighting conductors inside (conduit and conductor size as shown on plan sheets).
——— ∘ ∘ ———	Directional bored conduit with lighting conductors inside (conduit and conductor size as shown on plan sheets).
□	Pull box. For specifications see Section 635 of Standard Specifications For Road And Bridge Construction.
▯○	Proposed lighting load center.

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WENSHU ZHANG, P.E. Lic. No. 82429

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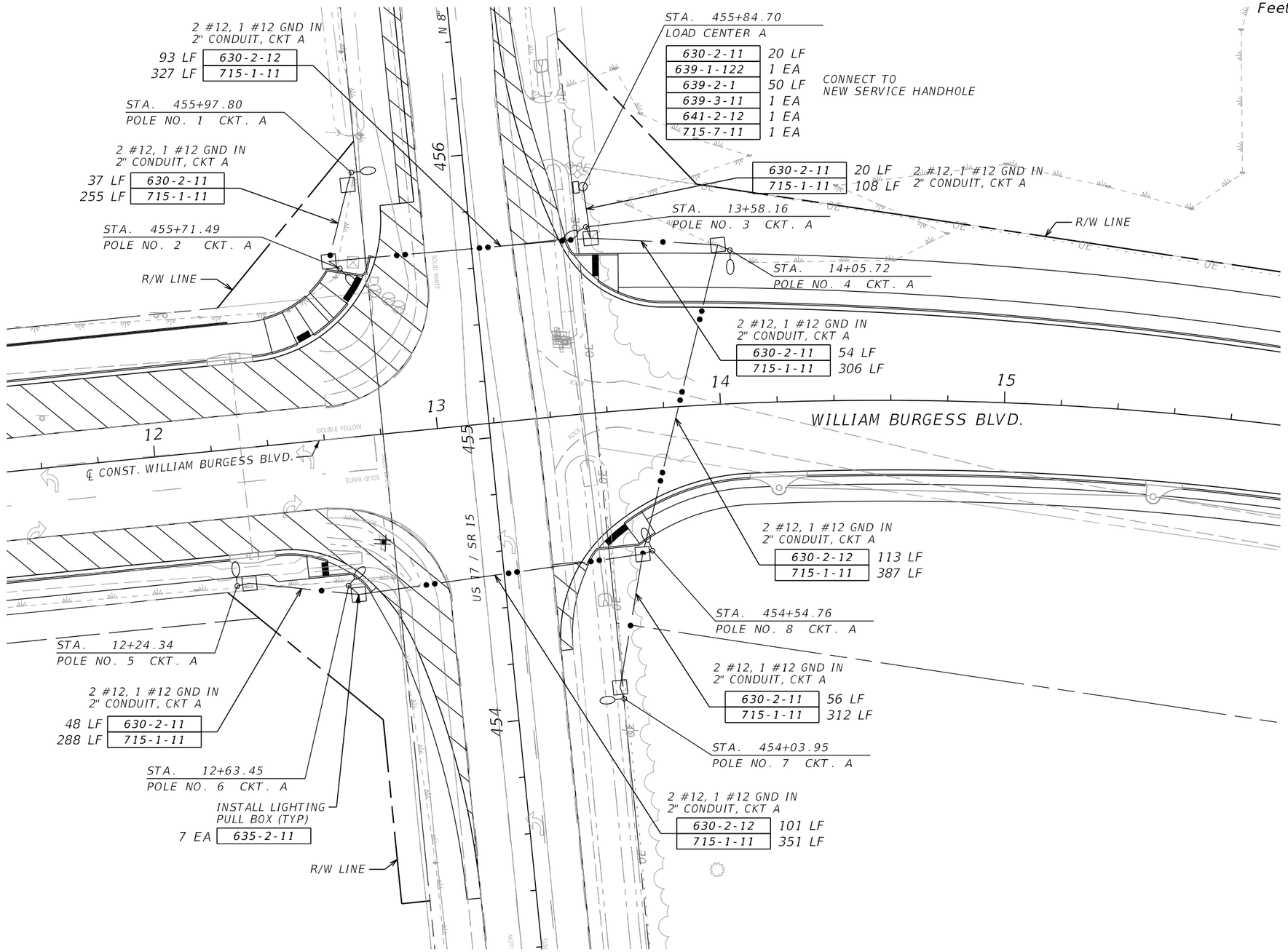
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POLE DATA AND LEGEND SHEET

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO. L-4

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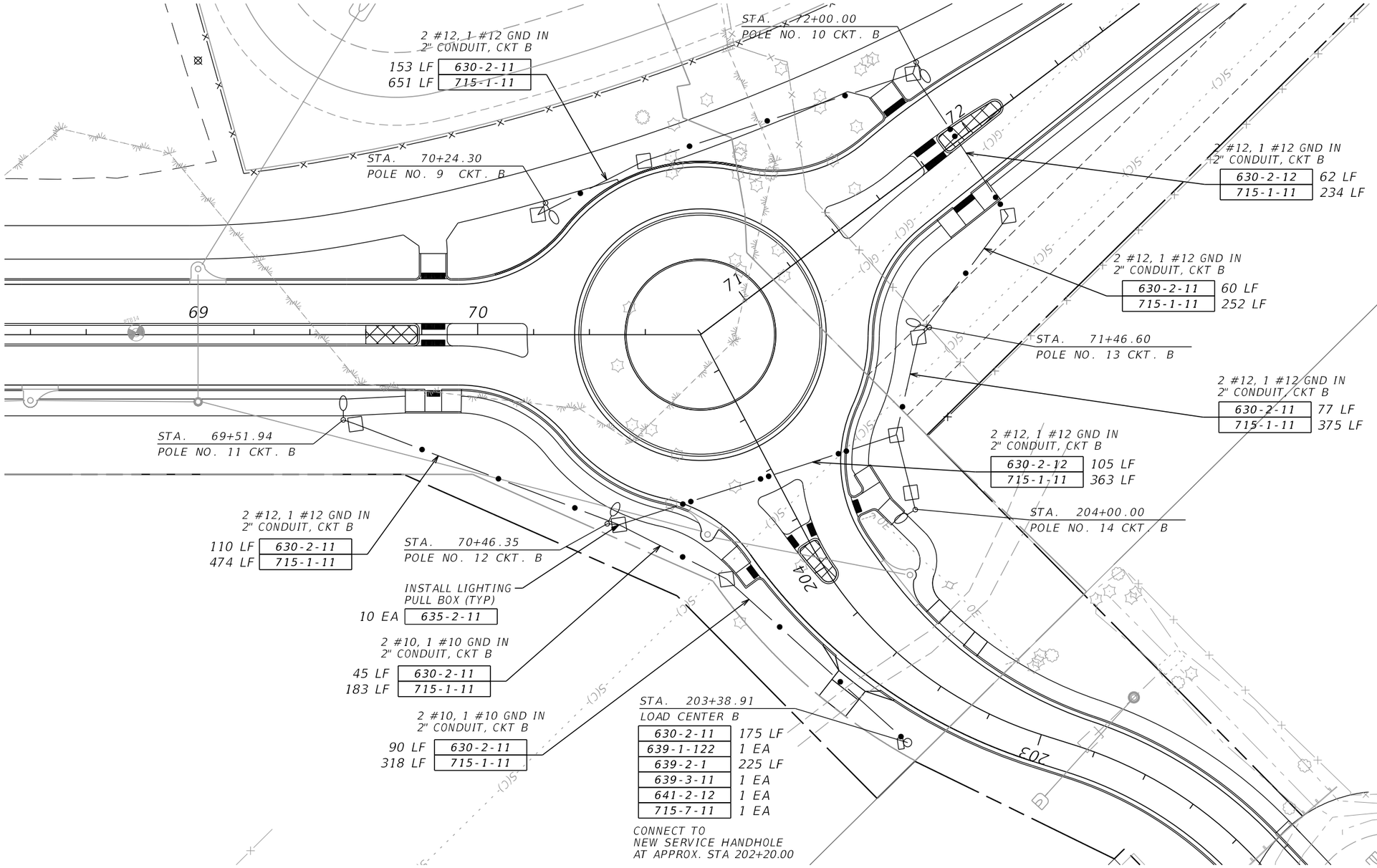
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LIGHTING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
L-5

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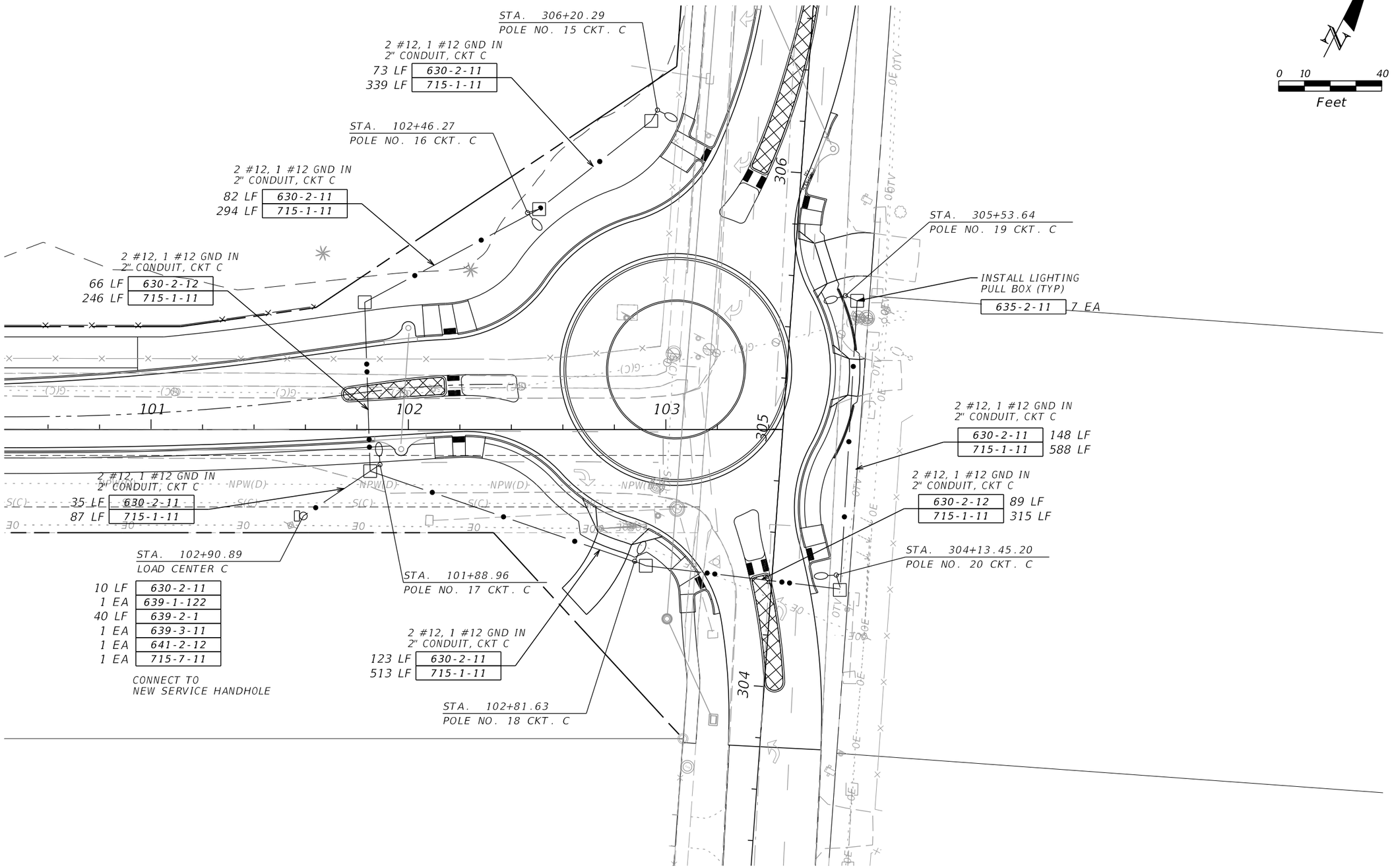
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LIGHTING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
L-6

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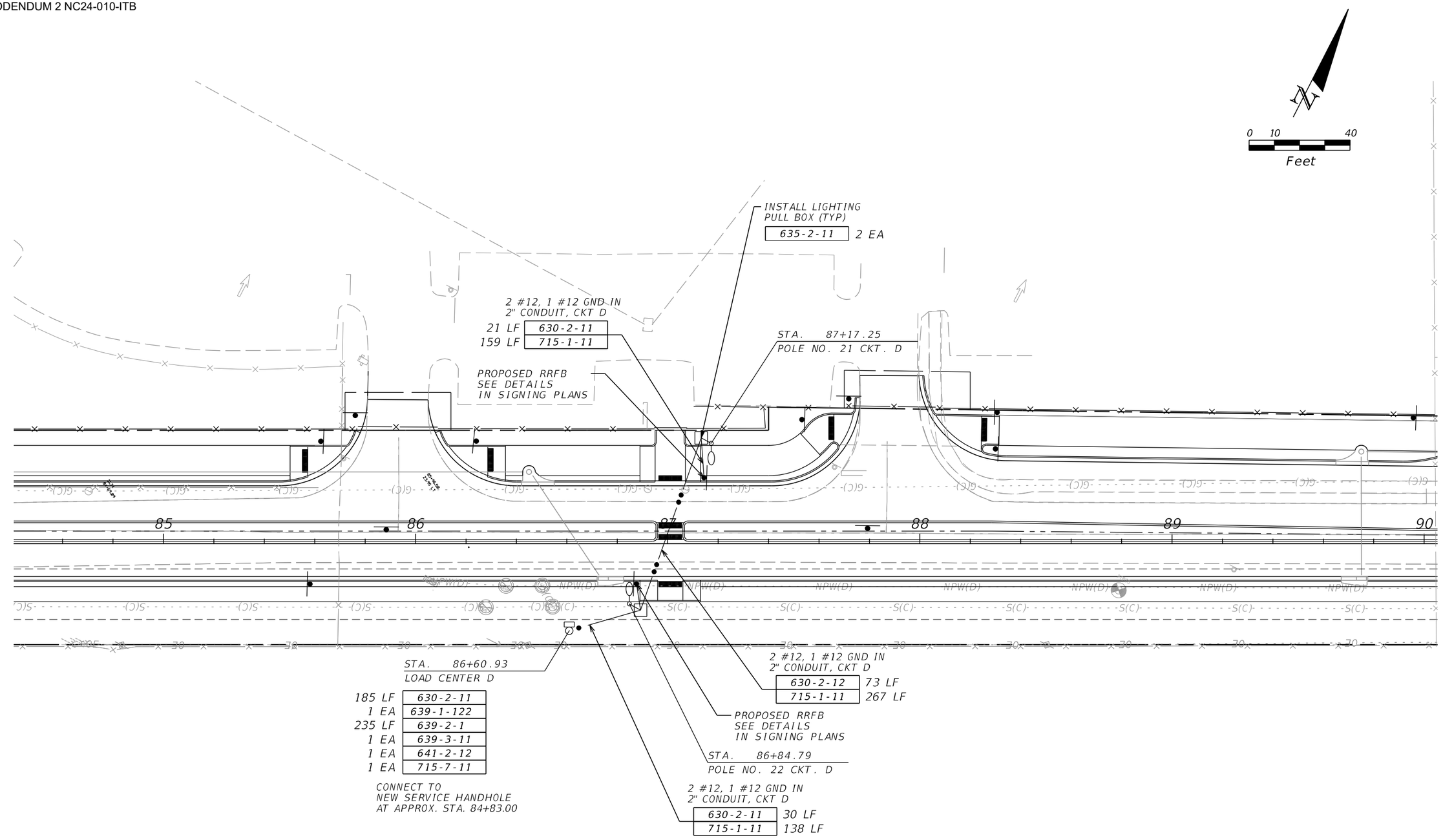
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LIGHTING PLAN

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
L-7

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LIGHTING PLAN

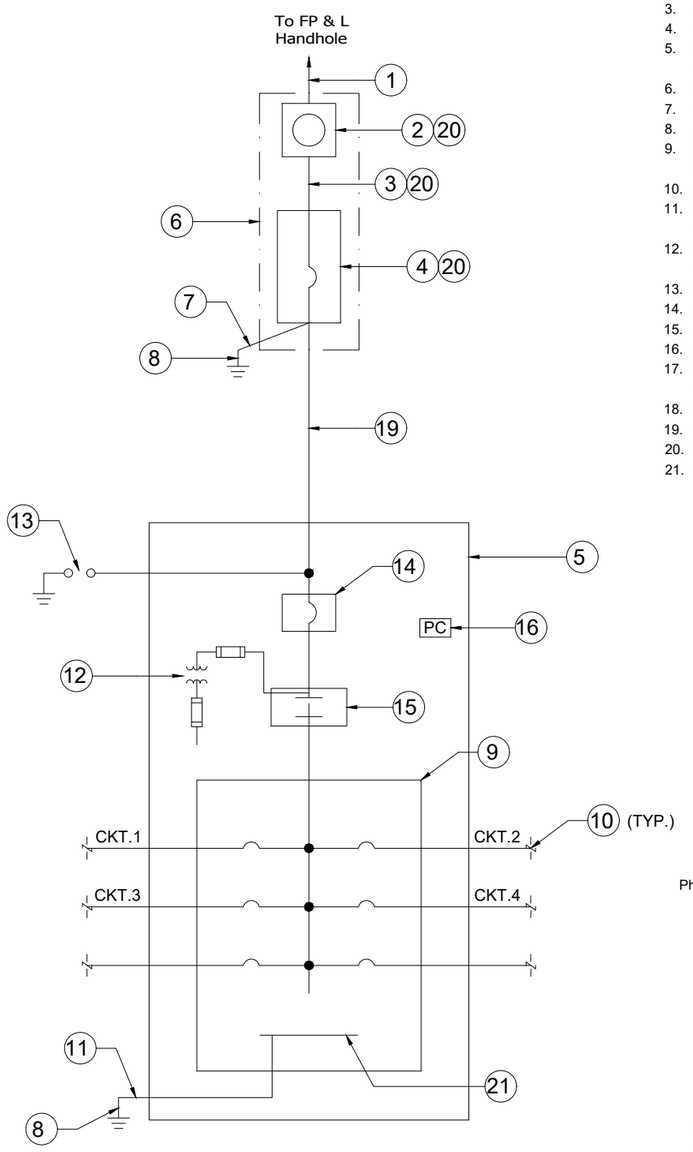
WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.: L-8

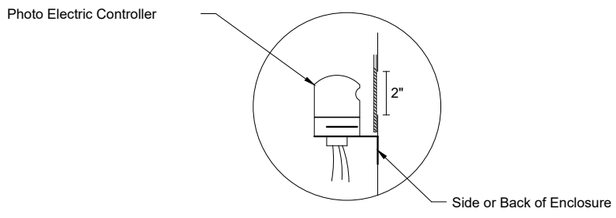
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Keyed Notes:

1. Service Feeder in Under Ground Conduit
2. Meter Socket by Contractor
3. Service Feeder
4. Service Main Disconnect.
5. Lighting Control Panel Enclosure (NEMA 4X SST). Dimensions as Necessary for Equipment Inside. Ground Mounted Cabinet per Index 17736.
6. Riser Pole.
7. #6 Insulated Copper Ground Wire. Bond the Service Neutral to Ground at Service Main Disconnect
8. 5/8 " Copper Clad Ground Rod, 40' Long
9. Electrical Panel Number and Rating of Branch Circuit Breakers shall be as Indicated on Distribution Point Description on Lighting Plan Sheets
10. Branch Circuit to Roadway Luminaries
11. #6 Insulated Copper Ground Wire. Bond the Service Neutral to Ground at Service Main Disconnect.
12. Fused Control Power Transformer 0.5 KVA, Single Phase, 480V Primary, 120V Secondary (Part of Lighting Contactor, Shown Outside for Clarity).
13. Lightning Arrester Mounted on Outside of Enclosure.
14. Lighting Control Panel Main Breaker.
15. 2 Pole Electrical Lighting Contactor.
16. Photo Electric Switch-120V Rated.
17. Hand-off Automatic Selector Switch (Part of Lighting Contactor, Shown Outside for Clarity).
18. Concrete Pad.
19. Underground Feeder Conduit.
20. Mount on Riser Pole.
21. Ground BUS.

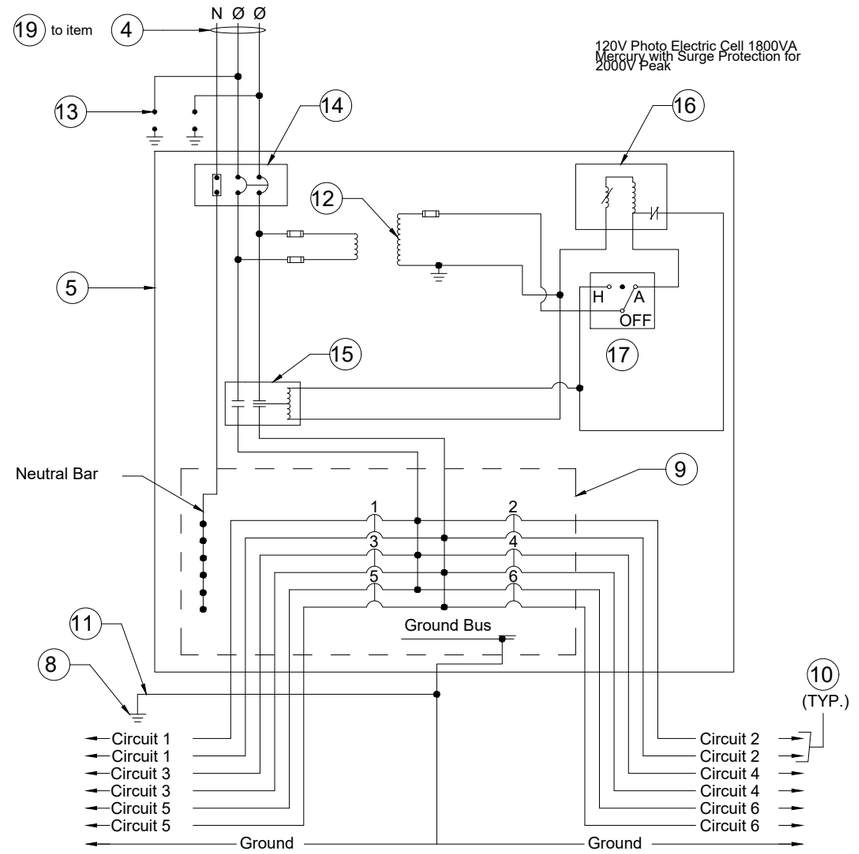


ONE LINE DIAGRAM DISTRIBUTION POINT

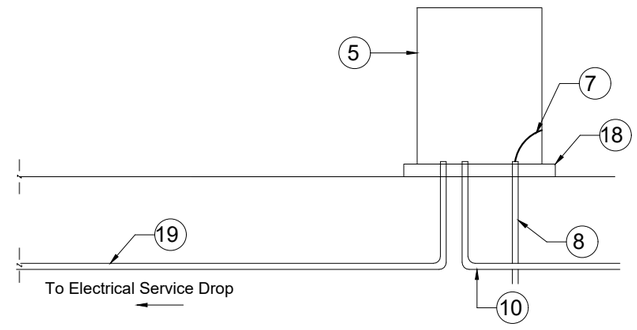


Cut a 2" hole in the side of the Lighting Control Panel enclosure for the operation and mounting of the Photo Electric controller. Use plexiglass and a clear silicone sealant to cover hole, install Photo Electric Controller.

PHOTO ELECTRIC CONTROLLER DETAIL



TYPICAL DISTRIBUTION POINT SCHEMATIC DETAIL



RISER DIAGRAM - TYPICAL DISTRIBUTION POINT

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS			
REV	DATE	BY	DESCRIPTION

gai consultants
transforming ideas into reality®
1301 Riverplace Blvd, Suite 900
Jacksonville, FL 32207
904.363.1110

SCALE: NTS
DATE:
DRAWN: SWW
CHECKED:
APPROVED:

PROJECT NO. / DASH NO.
B190839.00

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SERVICE PANEL DETAIL

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
L-9

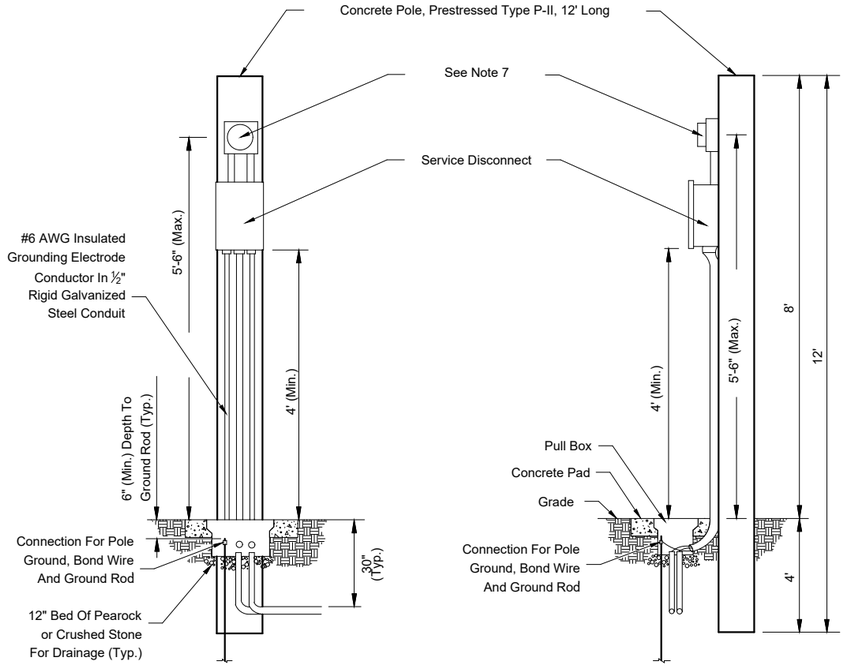
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Notes:

1. 4X4 treated wood post, slotted angle or angle Iron support for switch and meter are acceptable in place of concrete pole per FP & L
2. If desired, customer's switch may be above meter, if post and angle braces are extended to give needed height.
3. Before service can be connected, the company must have the electrical inspection, necessary grading shall be done by the customer and the deposit and non-refundable temporary service charge shall be paid. Contact the FPL representative for availability and location.
4. The customer shall leave a five foot length of service conductor above ground, outside of source, for connection to FPL, secondary by FPL
5. Temporary Service should be located outside the utility easement to avoid driving the ground rod into any existing underground cables
6. The meter enclosere must be on FPL's approved list
7. Meter socket to be mounted between 3 and 6 feet from the ground.
8. All Conduit to be Rigid Galvanized Steel above ground and PVC (Schedule 40 Minimum) under ground.
9. See FP & L spec IV: 7 of 24 for additional details

GENERAL NOTES:

1. It shall be the contractors responsibility to provide a complete service assembly as per the plans and service specifications.
2. The service installation shall meet the requirements of the national electric code and applicable local codes.
3. Shop drawings are not required for service equipment, unless noted in the plans.
4. A Pull Box is required at each service point.



DETAIL B
UNDERGROUND FEED

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REVISIONS			
REV	DATE	BY	DESCRIPTION

gai consultants
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1301 Riverplace Blvd, Suite 900
Jacksonville, FL 32207
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SCALE: NTS
DATE:
DRAWN: SWW
CHECKED:
APPROVED:

PROJECT NO. / DASH NO.
B190839.00

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METER POST DETAIL

WILLIAM BURGESS BLVD. EXTENSION
NASSAU COUNTY, FLORIDA

SHEET NO.
L-10

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

NASSAU COUNTY
BOARD OF COUNTY COMMISSIONERS
Procurement Department
96135 Nassau Place, Suite 2
Yulee, Florida 32097
Ph: 904-530-6040

TO: All Prospective Bidders

FROM: Thomas O'Brien, Procurement Specialist

SUBJECT: Addendum #3
Invitation to Bid Number NC24-010
William Burgess Blvd Extension

DATE: April 12, 2024

This addendum is hereby incorporated into the bid documents of the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to, and shall take precedence over, the original documents.

Questions and Answers

1. MOT plan shows temporary asphalt on William Burgess Blvd and Hwy 17 but do not show any on Miner. Can a plan be issued showing temporary vs permanent asphalt?

   Answer: Asphalt quantity does not include any temporary asphalt. The temporary pavement quantity estimated is provided below. Please add the cost of this temporary work to be included in the lump sum MOT pay item. The temporary widening will include excavation/minor fill, minor grading, compaction of subgrade, 6" limerock and 2" of asphalt structure course.

2. Are summary of quantity tables available to verify quantity differences and where they are located? Currently we can only check to a total plan quantity and if we have a quantity difference, the location/differences are difficult to determine without summary tables. Please provide.

   Answer: We did not provide quantity summary tables. The quantities have been calculated using the CADD files. For the quantity of curb feet below this measurement is to the face of curb.

3. Item 520-1-10, type f curb, our takeoff qty shows approx. 19,860 LF, plan qty is 18,419 LF. Please confirm.

   Answer: Adjusted quantity to 18,845 LF. Please be aware that this quantity does not include the length for each inlet top

4. Item 520-1-10A, Type 1.5 city curb, our takeoff qty shows approx. 9,932 LF, plan qty is 9,730 LF. Please confirm.

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Answer: Adjusted quantity to 8930 LF. Please be aware that this quantity does not include the length for each inlet top

5. Item 520-2-4, type d curb, our takeoff qty shows approx. 2,907 LF, plan qty is 1192 LF. Please confirm.

Answer: Adjusted quantity to 2979 LF.

6. Item 520-3, valley gutter, our takeoff qty shows approx. 440 LF, plan qty is 335 LF. Please confirm.

Answer: Adjusted quantity to 358 LF.

7. Item 520-5-41, separator type 1 option 1, our takeoff qty shows approx. 171 SY, plan qty is 200 SY. Please confirm.

Answer: Adjusted quantity to 150 SY. For pay item 520-5-11

8. Item 520-5-41, separator type 4, 4’ wide, our qty takeoff shows approx. 237 LF, plan qty is 350 LF. Please confirm.

Answer: Adjusted quantity to 293 LF.

9. Item 522-1, sidewalk 4”conc., our qty takeoff shows approx. 7000 SY, plan qty is 6382 SY. Please confirm.

Answer: Adjusted quantity to 6605 SY.

10. Item 522-2 sidewalk 6” including ramps and median landings, our conc qty takeoff shows approx. 1530 SY, plan qty is 735 SY. Please confirm.

Answer: Adjusted quantity to 1690 SY.

11. Item 522-2A, sidewalk 7” conc., our takeoff qty shows approx. 123 SY, plan qty is 75 SY. Please confirm.

Answer: Adjusted quantity to 95.0 SY.

12. On plan sheets 45/46, the 12’ shared use path is called out as “concrete” from approx. Sta. 100+94.78 East to the intersection at Miner Rd. On the intersection detail sheet (sheet 53), the shared use path is shown as asphalt. Please confirm which is correct. If concrete is correct, please confirm thickness and where this is to be paid.

Answer: Concrete for this section of shared us path is correct. The 6" concrete

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quantity in the bid are reflected here. The 6" concrete is proposed from 100+94.87 East to the intersection at Miner Rd, and also includes driveways and pedestrian ramps.

13. Temporary asphalt areas are identified/shown on TTCP sheets at US 17. At Miner Road, temporary asphalt will be required, is shown in the legend, but it is not identified on the plan sheet for Contractors to quantify and price. Please show/callout the temporary asphalt required for TTCP at Miner Rd.

Answer: The temporary pavement shown on WBB is a 4.0 ft wide strip along the south side of the existing Yulee H.S. driveway to Miner Rd. The Limits are approximately from Sta. 85+80.00 to Sta. 98+50.00, as shown on sheet 227. Also, temporary asphalt is needed at minor to widen the southbound lanes between STA 304+80 to STA 305+80 about 12 ft wide, this small area is not shown on sheet 232. A plan detail of this minor widening detail will be provided as plan revision to winning bidder. Please note temporary widening on US 17 is not planned. Please utilize the following quantities 1200 SY of Optional Base Group 04 and 130 Tons of Superpave Asphaltic Concrete Traffic C as the basis of this cost to be included under the LS MOT pay item.

14. Please confirm if fuel and bituminous adjustments in accordance with FDOT Spec. Section 9-2 are applicable to this Contract.

Answer: They are not applicable to this solicitation.

15. Please confirm plan quantities include the additional SY of bid item 22 (285-7-09) required to comply with "Nassau County Detail #26" for joint staggering as mentioned on plan sheet 6.

Answer: Please note there is 2619 LF of widening along existing William Burgess Blvd and US 17. This will increase the Optional Base Group 10 by 291 SY (1ft wide) for a revised bid quantity total of 31,017 SY and Superpave Asphaltic Concrete Traffic C by 64 tn (582 SY (2 ft wide)) for a revised bid quantity of 3,774 TN. Friction course is already included in Milling & resurfacing quantity.

16. In the JEA utility plans, sheet 17 (Drawing WM-13), "B" crossing appears to be replacing an existing NPW line. Please confirm the existing NPW is to be removed and replaced with the proposed as shown on sheet 17."

Answer: That is correct. The pipe was offset as shown on sheet 17. The arrows need to point to this pipe. Therefore this plan will be revised later and provided to winning bidder. The description noted in the plan is accurate.

17. In the JEA utility plans, sheet 17 (Drawing WM-13), "B" crossing does not have callouts at the ROW limits for how the pipe is to terminate/connect to existing/be capped. Please advise if this line is to be connected at each ROW limit, what material

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is required, if line stop(s) are required, or confirm a nearby valve is available."

Answer: The notes are pointing the existing pipe, and should point to offset pipe. The details show what is to be completed and how connected. Please note that no line stops or added valves are needed. The JEA needs to be advised 3 days before a temporary outage of the spray field RWM is required.

JEA Additional Item

JEA has added a Supplemental Work Authorization Contingency to the bid form. Pay item contingency to be utilized by the JEA for unforeseen work. JEA will work with contractor on scope of work and negotiated supplemental work as needed.

The solicitation due date and opening time remains: April 18, 2024 at 10:00 AM EST.

ATTACHMENT: REVISED BID FORM

VENDOR HEREBY ACKNOWLEDGES THIS ADDENDUM ELECTRONICALLY THROUGH PLANETBIDS BY ITS BID SUBMISSION.

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REVISED BID FORM – NC24-010-ITB ADDENDUM 3

	A	ROADWAY				
Item No.	**Spec No.**	**Item**	**Estimated Qty.**	**Unit**	**Unit Cost**	**Total**
1	101 1	MOBILIZATION	1	LS		
2	102 1	MAINTENANCE OF TRAFFIC (MOT)	1	LS		
3	102-3	COMMERICAL MATERIAL	100	SY		
4	102 71 13	TEMPORARY BARRIER, F&I LOW PROFILE	2120	LF		
5	102 71 16	TEMPORARY BARRIER, F&I FREESTANDING	1630	LF		
6	102 71 23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE	1740	LF		
7	102 71 26	TEMPORARY BARRIER, RELOCATE, FREESTANDING	1370	LF		
8	102 89 1	TEMPORARY CRASH CUSHION, REDIRECTIVE OPTION	8	EA		
9	102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	600	ED		
10	104 1	EROSION CONTROLS	1	LS		
11	107-2	MOWING	170	AC		
12	110 1 1	CLEARING & GRUBBING (INCLUDES TREE CLEARING)	1	LS		
13	110 4 10	REMOVAL OF EXISTING CONCRETE	827	SY		
14	120 1	REGULAR EXCAVATION	43,425	CY		
15	120 4	SUBSOIL EXCAVATION	7,767	CY		
16	120 4A	OVER EXCAVATION (CONTINGENCY)	1	LS	$50,000	$50,000
17	120 6	EMBANKMENT	70,648	CY		
18	120 6A	A-3 SAND BACKFILL (CONTINGENCY)	1	LS	$50,000	$50,000
19	160 4	TYPE B STABILIZATION (12")	60,476	SY		
20	285 7 01	OPTIONAL BASE, BASE GROUP 01, (4") Type B 12.5	685	SY		
21	285 7 04	OPTIONAL BASE, BASE GROUP 04	11,762	SY		
22	285 7 09	OPTIONAL BASE, BASE GROUP 9, 10" LIMEROCK	37,017	SY		
23	0327 70 4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	5310	SY		
24	0327 70 6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	4811	SY		
25	0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C (SHARED USE PATH)	971	TN		
26	0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C , PG 76-22 (ROADWAY)	3,774	TN		
27	0337 7 83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22	3.970	TN		
28	0339 1	MISCELLANEOUS ASPHALT PAVEMENT	2	TN		
29	400 11	CONCRETE CLASS NS, GRAVITY WALL	39	CY		
30	0520 1 7	CONCRETE CURB & GUTTER, TYPE E	367	LF		
31	520 1 10	CONCRETE CURB & GUTTER, TYPE F	18,845	LF		
32	520 1 10 A	CONCRETE CURB & GUTTER, TYPE "1.5' WIDE CITY"	8930	LF		
33	520 2 4	CONCRETE CURB & GUTTER, TYPE D	2979	LF		
34	520 2 8	CONCRETE CURB & GUTTER, TYPE RA	547	LF		

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REVISED BID FORM – NC24-010-ITB ADDENDUM 3

35	520 3	VALLEY GUTTER CONCRETE	358	LF		
36	520 5 41	TRAFFIC SEPARATOR, CONCRETE, TYPE I (OPTION 1)	150	SY		
37	520 5 41	TRAFFIC SEPARATOR, CONCRETE, TYPE IV, 4' WIDE	293	LF		
38	522 1	SIDEWALK CONCRETE & DRIVEWAYS 4" THICK	6605	SY		
39	522 2	SIDEWALK CONCRETE & DRIVEWAYS 6" THICK	1690	SY		
40	522 2A	SIDEWALK CONCRETE & DRIVEWAYS 7" THICK	95	SY		
41	527 1	DETECTABLE WARNINGS	672	SF		
42	530 3 4	RUBBLE RIP RAP	28.8	SY		
43	0550 10220	FENCING, TYPE B, 5.1- 6.0', STANDARD	3,907	LF		
44	0550 60235	FENCE GATE, TYPE B, DOUBLE, 24.1-30.0' OPENING	5	EA		
45	0570 1 2	PERFORMANCE TURF (S0D)	68,638	SY		
	SUBTOTAL: A - ROADWAY					
	B	**DRAINAGE**				
	Item No.	**Item**	**Estimated Qty.**	**Unit**	**Unit Cost**	**Total**
46	425 1311	INLETS, CURB, TYPE P-1, <10'	41	EA		
47	425 1312	INLETS, CURB, TYPE P-1, >10'	2	EA		
48	425 1321	INLETS, CURB, TYPE P-2, <10'	12	EA		
49	425 1351	INLETS, CURB, TYPE P-5, <10	15	EA		
50	425 1351	INLETS, CURB, TYPE P-5, >10	1	EA		
51	425 1361	INLETS, CURB, TYPE P-6, <10	3	EA		
52	425 1411	INLETS, CURB, TYPE J-1, <10	6	EA		
53	425 1412	INLETS, CURB, TYPE J-1, >10	4	EA		
54	425 1421	INLETS, CURB, TYPE J-2, <10'	2	EA		
55	425 1351	INLETS, DITCH BOTTOM, TYPE C, J BOT, <10'	3	EA		
56	425 1543	INLETS, DITCH BOTTOM, TYPE D, J BOT, <10'	2	EA		
57	425 1548	INLETS, DITCH BOTTOM, TYPE H, J BOT, <10'	1	EA		
58	425 1910	INLETS, CLOSED FLUME	2	EA		
59	425 2 41	MANHOLES, P-7, <10	4	EA		
60	425 2 61	MANHOLES, P-8 <10	4	EA		
61	425 2 71	MANHOLES, J-7, <10'	3	EA		
62	425 2 91	MANHOLES, J-8, <10'	1	EA		
63	425 2 92	MANHOLES, J-8,>10'	1	EA		
64	430174115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15"SD/CD	555	LF		
65	430174118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD/CD	4,760	LF		
66	430174124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"SD/CD	1,921	LF		

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REVISED BID FORM – NC24-010-ITB ADDENDUM 3

67	430174130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30"SD/CD	1,414	LF		
68	430174136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36"SD/CD	1,094	LF		
69	430174136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 42"SD/CD	889	LF		
70	430175218	PIPE CULVERT, OPTIONAL MATERIAL, OTHER-ELIP, 18"SD/CD	190	LF		
71	430518100	STRAIGHT CONC ENDWALL, SINGLE. O DEG, ROUND	1	EA		
72	430982123	MITERED END SECTION, OPTIONAL ROUND, 15" CD	6	EA		
73	430982129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	3	EA		
74	430982133	MITERED END SECTION, OPTIONAL ROUND, 30" CD	7	EA		
75	430982138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	2	EA		
76	430982140	MITERED END SECTION, OPTIONAL ROUND, 42" CD	1	EA		
	SUBTOTAL: B - DRAINAGE					
	C	**SIGNING AND PAVEMENT MARKING**				
	Item No.	**Item**	**Estimated Qty.**	**Unit**	**Unit Cost**	**Total**
77	654 2 11	MID-BLOCK CROSSWALK	2	AS		
78	700 1 11	SINGLE POST, SIGN, F&I GROUND MOUNT, UP TO 12 SF	68	AS		
79	700 1 60	SINGLE POST SIGN, REMOVE	13	AS		
80	700 12 21	SIGN BEACON, F&I, GROUND MOUNT – SOLAR POWERED, ONE BEACON	2	AS		
81	706 1 3	RAISED PAVEMENT MARKER, TYPE B	949	EA		
82	710 17	REMOVE NON-CONFLICTING MARKINGS	156	SF		
83	710 11101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	5.837	GM		
84	710 11123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	1,516	LF		
85	710 11124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	601	LF		
86	710 11125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	1661	LF		
87	710 11131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 10-30 0R 3-9 SKIP, 6"	0.119	GM		
88	710 11141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE /6-10DOTTED EXTENSION, 6”	0.053	GM		
89	710 11144	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-2 EXTENTION LINE FOR ROUNDABOUT, 12”	0.03	GM		
90	710 11160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	13	EA		

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REVISED BID FORM – NC24-010-ITB ADDENDUM 3

91	710 11170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	57	EA		
92	710 11201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	5.539	GM		
93	710 11224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	738	LF		
94	710 11241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	0.107	GM		
95	710 11290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	156	LF		
96	710 90	PAINTED PAVEMENT MARKINGS – FINAL SURFACE	1	LS		
97	711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	1516	LF		
98	711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	601	LF		
99	711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	184	LF		
100	711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE /6-10DOTTED EXTENSION, 6”	0.053	GM		
101	711 11144	THERMOPLASTIC, STANDARD, WHITE, 2-2 EXTENTION LINE FOR ROUNDABOUT, 12”	0.03	GM		
102	711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	13	EA		
103	711 11170	THERMOPLASTIC, STANDARD, WHITE, WHITE ARROW	57	EA		
104	711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	738	LF		
105	711 11241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	0.107	GM		
106	711 14125	THERMOPLASTIC, PERFORMED, WHITE SOLID, 24” FOR CROSSWALK	1477	LF		
107	711 16101	THERMOPLASITIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	5.837	GM		
108	711 16131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, 10-30 0R 3-9 SKIP, 6"	0.119	GM		
109	0711 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6'	5.539	GM		
110	077 1 50A	RELOCATE SCHOOL SIGN	1	AS		
	SUBTOTAL: C - SIGNING AND PAVEMENT MARKING					
	D	**SIGNALIZATION**				
	Item No.	**Item**	**Estimated Qty.**	**Unit**	**Unit Cost**	**Total**
111	0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	932	LF		
112	0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	232	LF		
113	0632 7 1	SIGNAL CABLE - NEW OR RECONSTRUCTED INTERSECTION,	1	PI		

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REVISED BID FORM – NC24-010-ITB ADDENDUM 3

		FURNISH & INSTALL				
114	0635 2 11	PULL & SPLICE BOX, F&I, 13"X24" COVER SIZE	22	EA		
115	0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	1	AS		
116	0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	200	LF		
117	0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	1	EA		
118	0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	5	EA		
119	0649 21 6	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 50'	2	EA		
120	0649 21 10	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 60'	2	EA		
121	0650 1 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	8	AS		
122	0650 1 16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	4	AS		
123	0653 1 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	2	AS		
124	0653 1 12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	3	AS		
125	0660 1110	LOOP DETECTOR, INDUCTIVE, F&I, TYPE 10	10	EA		
126	0660 2102	LOOP ASSEMBLY, F&I, TYPE B	4	AS		
127	0660 2106	LOOP ASSEMBLY, F&I, TYPE F	8	AS		
128	0665 1 11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	8	EA		
129	0670 5111	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 1 PREEMPTION	1	AS		
130	0684 1 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	1	EA		
131	0685 1 11	UNINTERRUPTABLE POWER SUPPLY, F&I, LINE INTERACTIVE	1	EA		
132	0700 3201	SIGN PANEL, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12 SF	4	EA		
133	0700 5 21	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12 SF	2	EA		
134	0700 5 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12-18 SF	2	EA		
	SUBTOTAL: D - SIGNALS					
	E	**LIGHTING**				
	Item No.	**Item**	**Estimated Qty.**	**Unit**	**Unit Cost**	**Total**
135	0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	1652	LF		
136	0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	702	LF		
137	0635 2 11	PULL & SPLICE BOX, F&I, 13"X24" COVER SIZE	26	EA		
138	0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED	4	EA		

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		BY CONTRACTOR				
139	0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	550	LF		
140	0639 3 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	4	EA		
141	0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVVICE POLE	4	EA		
142	0715 1 11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	8130	LF		
143	0715 61111	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE, STANDARD FOUNDATION, 30' MOUNTING HEIGHT	22	EA		
144	0715 7 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	4	EA		
		SUBTOTAL: E - LIGHTING				
	F	**LANDSCAPING**				
	Item No.	**Item**	**Estimated Qty.**	**Unit**	**Unit Cost**	**Total**
145	0580 4343	CABBAGE PALMETTO (15 GAL)	7	EA		
146	0580 5142	MUSKAGEE CRAPE MYRTLE (30 GAL)	101	EA		
147	0580 5143	NATCHEZ WHITE CRAPE MYRTLE (30 GAL)	29	EA		
148	0580 5172	BOLD CYPRESS (15 GAL)	83	EA		
149	0580 5223	SOUTHERN LIVE OAK (15 GAL)	120	EA		
150	0580 5234	SLASH PINE (45 GAL)	74	EA		
151	0580 5672	DOGWOOD (30 GAL)	74	EA		
152	0580 5682	REBUD TREE (30 GAL)	59	EA		
153	0580 7103	MUHLY GRASS (3 GAL)	731	EA		
154	0580 7193	DWARF YAUPON (3 GAL)	171	EA		
155	0580 7265	COONTIE (5 GAL)	486	EA		
156	0580 7373	SAND CORDGRASS (3 GAL)	92	EA		
157	0580 7441	TWINFLOWER (1 GAL)	3357	EA		
158	0580 7443	SHINY BLUEBERRY (3 GAL)	896	EA		
159	0580 7621	YELLOW DAYLILY (1 GAL)	7676	EA		
160	0580 (SPECIAL SOIL)	TOP SOIL (MEDIAN ISLANDS)	6000	SY		
161	0590 70	IRRIGATION SYSTEM	1	LS		
162	0526 1 1	PAVERS, ARCHITECTURAL, ROADWAY	870	SY		
163	0526 1 1A	BENCH	6	EA		
164	0526 1 1B	TRASH RECEPTACLE	3	EA		
165	0580 (MAINTENANCE)	12 MONTH MAINTENANCE	1	LS	$50,000	$50,000
		SUBTOTAL: LANDSCAPING				

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	G	POTABLE WATER				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
166	801.III.2.4	ABANDON BY REMOVAL 12" PIPE	116	LF		
167	801.XII.1	6” PVC DR 18 PIPE	253	LF		
168	801.XII.1	8” PVC DR 18 PIPE	94	LF		
169	801.XII.1	10” PVC DR 18 PIPE	12	LF		
170	801.XII.1	12” PVC DR 18 PIPE	81	LF		
171	801.XII.1	16” PVC DR 25 PIPE	10,421	LF		
172	801.XII.2	6” DI MJ 45 DEG BEND RESTRAINED	10	EA		
173	801.XII.2	6” DI MJ 90 DEG BEND RESTRAINED	28	EA		
174	801.XII.2	8” DI MJ 45 DEG BEND RESTRAINED	2	EA		
175	801.XII.2	8" DI MJ CAP RESTRAINED	2	EA		
176	801.XII.2	10" DI MJ 90 DEG BEND RESTRAINED	1	EA		
177	801.XII.2	12" DI MJ 45 DEG BEND RESTRAINED	1	EA		
178	801.XII.2	12" X 6" DI MJ TEE RESTRAINED	1	EA		
179	801.XII.2	12" X 12" DI MJ TEE RESTRAINED	1	EA		
180	801.XII.2	16” x 12” DI MJ REDUCER	1	EA		
181	801.XII.2	16" DI MJ 11.25 DEG BEND RESTRAINED	13	EA		
182	801.XII.2	16" DI MJ 22.5 DEG BEND RESTRAINED	5	EA		
183	801.XII.2	16" DI MJ 45 DEG BEND RESTRAINED	34	EA		
184	801.XII.2	16" X 6" DI MJ TEE RESTRAINED	20	EA		
185	801.XII.2	16" X 8" DI MJ TEE RESTRAINED	2	EA		
186	801.XII.2	16" X 10" DI MJ TEE RESTRAINED	1	EA		
187	801.XII.2	16" X 12" DI MJ TEE RESTRAINED	1	EA		
188	801.XII.2	16" X 16" DI MJ TEE RESTRAINED	1	EA		
189	801.XII.2	16" DI MJ CAP RESTRAINED	2	EA		
190	801.XII.2	12" DI MJ CAP RESTRAINED (CONTINGENCY)	6	EA		
191	801.XII.2	10" DI MJ CAP RESTRAINED (CONTINGENCY)	6	EA		
192	801.XII.2	8" DI MJ CAP RESTRAINED (CONTINGENCY)	2	EA		
193	801.XII.6	6" PVC PIPE BELL RESTRAINTS	5	EA		
194	801.XII.6	8" PVC PIPE BELL RESTRAINTS	4	EA		
195	801.XII.6	16" PVC PIPE BELL RESTRAINTS	240	EA		
196	801.XII.7	12" PVC SPLIT RING PIPE BELL RESTRAINTS	6	EA		
197	801.XII.9	2" NEW WATER SERVICES	3	EA		
198	801.XII.14	TEMPORARY SAMPLE TAPS	10	EA		
199	801.XIII.1	FIRE HYDRANTS	20	EA		
200	801.XIII.2	FIRE HYDRANT RELOCATION	1	EA		
201	801.XIII.3	6" DI MJ GATE VALVE RESTRAINED	21	EA		
202	801.XIII.3	12" DI MJ GATE VALVE RESTRAINED	3	EA		
203	801.XIII.3	16" DI MJ GATE VALVE RESTRAINED	27	EA		

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204	801.XIII.5	WATER METER BOXES	3	EA		
205	801.XIII.7	12" DI MJ 45 DEG BEND RESTRAINED IN EXISTING PIPELINE	1	EA		
206	801.XIII.7	12" x 12" DI MJ TEE RESTRAINED IN EXISTING PIPELINE	1	EA		
		SUBTOTAL: POTABLE WATER				
	H	**SANITARY SEWER FORCE MAIN**				
	Item No.	**Item**	**Estimated Qty.**	**Unit**	**Unit Cost**	**Total**
207	801.XIV.1	SEWAGE MANHOLE	2	EA		
208	801.XIV.6	ADJUST MANHOLE TOP	1	EA		
209	801.XVI.1	16" PVC DR 25	3867	LF		
210	801.XVI.3	16" DI MJ 11.25 DEG BEND RESTRAINED	8	EA		
211	801.XVI.3	16" DI MJ 22.5 DEG BEND RESTRAINED	7	EA		
212	801.XVI.3	16" DI MJ 45 DEG BEND RESTRAINED	27	EA		
213	801.XVI.3	16" DI MJ CAP RESTRAINED	3	EA		
214	801.XVI.7	16" PVC PIPE BELL RESTRAINTS	17	EA		
215	801.XVII.1	16" DI MJ GATE VALVE RESTRAINED	8	EA		
216	801.XVII.3	ADJUST 16" DI MJ GATE VALVE IN EXISTING PIPELINE	1	EA		
217	801.XVII.3	REMOVE 16" DI MJ CAP IN EXISTING PIPELINE	1	EA		
218	801.XVII.4	2" DI MJ AIR RELEASE VALVE RESTRAINED	2	EA		
		SUBTOTAL: SANITARY SEWER FORCE MAIN				
	I	**RECLAIMED WATER MAIN**				
	Item No.	**Item**	**Estimated Qty.**	**Unit**	**Unit Cost**	**Total**
219	801.XXI.1	16" PVC DR 25 PIPE	264	LF		
220	801.XXI.2	16" DI MJ 45 DEG BEND RESTRAINED	5	EA		
221	801.XXI.2	16" DI MJ CAP RESTRAINED	1	EA		
222	801.XXI.6	16" PIPE BELL RESTRAINTS	17	EA		
223	801.XXI.1	16" DI MJ GATE VALVE RESTRAINED	2	EA		
224	801.XXII.4	ADJUST 16" DI MJ GATE VALVE IN EXISTING PIPELINE	3	EA		
225	801.XXII.4	REMOVE 16" DI MJ CAP IN EXISTING PIPELINE	1	LF		
		SUBTOTAL: RECLAIMED WATER MAIN				

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	J	**JEA MISC**				
	Item No.	**Item**	**Estimated Qty.**	**Unit**	**Unit Cost**	**Total**
226	408	A-3 BACKFILL (CONTINGENCY)	1	LS	$50,000	$50,000
227	102-1	MOT (US17 AND MINER RD)	1	LS		
228	Tech Spec	JEA GENERAL CONDITIONS	1	LS		
229	429	SEWAGE PUIMP TRUCK (CONTINGENCY)	1	LS	$10,000	$10,000
230	437	THRUST BLOCKS	3	EA		
231	441	PERFORMANCE TURF (S0D) (STA 307+00 TO STA 318+00)	900	SY		
232	490	ROADWAY RECONSTRUCTION (US17)	1	LS		
233	490	ROADWAY RECONSTRUCTION (MINER RD)	1	LS		
234	490	ROADWAY RECONSTRUCTION (WBB)	1	LS		
235	Tech Spec	TESTING ALLOWANCE	1	LS	$10,000	$10,000
236	Tech Spec	SUPPLEMENTAL WORK AUTHORIZATION (SWA)	1	LS	$50,000	$50,000
		SUBTOTAL: JEA MISC				

BID SUMMARY	
PARTS A, B, C, D, AND E **SUBTOTAL=**	
PARTS F **SUBTOTAL=**	
PARTS G, H, I AND J **SUBTOTAL=**	
TOTAL BASE BID	

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SECTION 00 41 15

BID FORM

PROJECT IDENTIFICATION: William Burgess Blvd. Extension
Bid Number NC2 -010
Nassau County, Florida

BID DEADLINE: pril , 2024 at 10:00 AM EST
THIS BID IS SUBMITTED TO: Board of County Commissioners, Nassau County
Judicial Annex
Office of the Ex-Officio Clerk
76347 Veterans Way, Suite 456
Yulee, Florida 32097

1.01 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with the County in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

Company Name (typed or printed): PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC.
Business address: 6380 PHILIPS HWY., JACKSONVILLE, FL 32216
Phone No.: (904) 751-0888 Fax No.: (904) 751-0988
Contact Name: JEFFREY RUMER
Contact Title: EXECUTIVE VICE PRESIDENT
Contact email address: jrumer@petticoatschmitt.com

2.01 Bidder accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. The Bid will remain subject to acceptance for 120 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of the County.

3.01 In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

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

Addendum No.	Addendum Date
1	3/19/24
2	4/5/24
3	4/12/24

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B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in the Supplementary Conditions as provided in paragraph 4.02 of the General Conditions, and (2) reports and drawings of a Hazardous Environmental Condition, if any, which has been identified in the Supplementary Conditions as provided in paragraph 4.06 of the General Conditions.

E. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies. and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect costs, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.

G. Bidder is aware of the general nature of the work to be performed by the County and others at the Site that relates to the Work as indicated in the Bidding Documents.

H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.

I. Bidder has given Engineer of Record written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer of Record is acceptable to Bidder.

J. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

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4.01 Bidder further represents that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any individual or entity to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over the County.

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

	A	ROADWAY				
Item No.	Spec No.	Item	Estimated Qty.	Unit	Unit Cost	Total
1	101 1	MOBILIZATION	1	LS		
2	102 1	MAINTENANCE OF TRAFFIC (MOT)	1	LS		
3	102-3	COMMERICAL MATERIAL	100	SY		
4	102 71 13	TEMPORARY BARRIER, F&I LOW PROFILE	2120	LF		
5	102 71 16	TEMPORARY BARRIER, F&I FREESTANDING	1630	LF		
6	102 71 23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE	1740	LF		
7	102 71 26	TEMPORARY BARRIER, RELOCATE, FREESTANDING	1370	LF		
8	102 89 1	TEMPORARY CRASH CUSHION, REDIRECTIVE OPTION	8	EA		
9	102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	600	ED		
10	104 1	EROSION CONTROLS	1	LS		
11	107-2	MOWING	170	AC		
12	110 1 1	CLEARING & GRUBBING (INCLUDES TREE CLEARING)	1	LS		
13	110 4 10	REMOVAL OF EXISTING CONCRETE	827	SY		
14	120 1	REGULAR EXCAVATION	43,425	CY		
15	120 4	SUBSOIL EXCAVATION	7,767	CY		
16	120 4A	OVER EXCAVATION (CONTINGENCY)	1	LS	$50,000	$50,000
17	120 6	EMBANKMENT	70,648	CY		
18	120 6A	A-3 SAND BACKFILL (CONTINGENCY)	1	LS	$50,000	$50,000
19	160 4	TYPE B STABILIZATION (12")	60,476	SY		
20	285 7 01	OPTIONAL BASE, BASE GROUP 01, (4") Type B 12.5	685	SY		
21	285 7 04	OPTIONAL BASE, BASE GROUP 04	11,762	SY		
22	285 7 09	OPTIONAL BASE, BASE GROUP 9, 10" LIMEROCK	36,726	SY		
23	0327 70 4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	5310	SY		
24	0327 70 6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	4811	SY		
25	0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C (SHARED USE PATH)	971	TN		
26	0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C , PG 76-22 (ROADWAY)	3,710	TN		
27	0337 7 83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22	3.970	TN		

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28	0339 1	MISCELLANEOUS ASPHALT PAVEMENT	2	TN		
29	400 11	CONCRETE CLASS NS, GRAVITY WALL	39	CY		
30	0520 1 7	CONCRETE CURB & GUTTER, TYPE E	367	LF		
31	520 1 10	CONCRETE CURB & GUTTER, TYPE F	18,419	LF		
32	520 1 10 A	CONCRETE CURB & GUTTER, TYPE "1.5' WIDE CITY"	9730	LF		
33	520 2 4	CONCRETE CURB & GUTTER, TYPE D	1192	LF		
34	520 2 8	CONCRETE CURB & GUTTER, TYPE RA	547	LF		
35	520 3	VALLEY GUTTER CONCRETE	335	LF		
36	520 5 41	TRAFFIC SEPARATOR, CONCRETE, TYPE I (OPTION 1)	200	SY		
37	520 5 41	TRAFFIC SEPARATOR, CONCRETE, TYPE IV, 4' WIDE	350	LF		
38	522 1	SIDEWALK CONCRETE & DRIVEWAYS 4" THICK	6382	SY		
39	522 2	SIDEWALK CONCRETE & DRIVEWAYS 6" THICK	732	SY		
40	522 2A	SIDEWALK CONCRETE & DRIVEWAYS 7" THICK	75	SY		
41	527 1	DETECTABLE WARNINGS	672	SF		
42	530 3 4	RUBBLE RIP RAP	28.8	SY		
43	0550 10220	FENCING, TYPE B, 5.1- 6.0', STANDARD	3,907	LF		
44	0550 60235	FENCE GATE, TYPE B, DOUBLE, 24.1-30.0' OPENING	5	EA		
45	0570 1 2	PERFORMANCE TURF (S0D)	68,638	SY		
	SUBTOTAL: A - ROADWAY					
	B	DRAINAGE				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
46	425 1311	INLETS, CURB, TYPE P-1, <10'	41	EA		
47	425 1312	INLETS, CURB, TYPE P-1, >10'	2	EA		
48	425 1321	INLETS, CURB, TYPE P-2, <10'	12	EA		
49	425 1351	INLETS, CURB, TYPE P-5, <10	15	EA		
50	425 1351	INLETS, CURB, TYPE P-5, >10	1	EA		
51	425 1361	INLETS, CURB, TYPE P-6, <10	3	EA		
52	425 1411	INLETS, CURB, TYPE J-1, <10	6	EA		
53	425 1412	INLETS, CURB, TYPE J-1, >10	4	EA		
54	425 1421	INLETS, CURB, TYPE J-2, <10'	2	EA		
55	425 1351	INLETS, DITCH BOTTOM, TYPE C, J BOT, <10'	3	EA		
56	425 1543	INLETS, DITCH BOTTOM, TYPE D, J BOT, <10'	2	EA		
57	425 1548	INLETS, DITCH BOTTOM, TYPE H, J BOT, <10'	1	EA		
58	425 1910	INLETS, CLOSED FLUME	2	EA		
59	425 2 41	MANHOLES, P-7, <10	4	EA		
60	425 2 61	MANHOLES, P-8 <10	4	EA		
61	425 2 71	MANHOLES, J-7, <10'	3	EA		

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62	425 2 91	MANHOLES, J-8, <10'	1	EA		
63	425 2 92	MANHOLES, J-8,>10'	1	EA		
64	430174115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15"SD/CD	555	LF		
65	430174118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD/CD	4,760	LF		
66	430174124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"SD/CD	1,921	LF		
67	430174130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30"SD/CD	1,414	LF		
68	430174136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36"SD/CD	1,094	LF		
69	430174136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 42"SD/CD	889	LF		
70	430175218	PIPE CULVERT, OPTIONAL MATERIAL, OTHER-ELIP, 18"SD/CD	190	LF		
71	430518100	STRAIGHT CONC ENDWALL, SINGLE. O DEG, ROUND	1	EA		
72	430982123	MITERED END SECTION, OPTIONAL ROUND, 15" CD	6	EA		
73	430982129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	3	EA		
74	430982133	MITERED END SECTION, OPTIONAL ROUND, 30" CD	7	EA		
75	430982138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	2	EA		
76	430982140	MITERED END SECTION, OPTIONAL ROUND, 42" CD	1	EA		
		SUBTOTAL: B - DRAINAGE				
	C	SIGNING AND PAVEMENT MARKING				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
77	654 2 11	MID-BLOCK CROSSWALK	2	AS		
78	700 1 11	SINGLE POST, SIGN, F&I GROUND MOUNT, UP TO 12 SF	68	AS		
79	700 1 60	SINGLE POST SIGN, REMOVE	13	AS		
80	700 12 21	SIGN BEACON, F&I, GROUND MOUNT – SOLAR POWERED, ONE BEACON	2	AS		
81	706 1 3	RAISED PAVEMENT MARKER, TYPE B	949	EA		
82	710 17	REMOVE NON-CONFLICTING MARKINGS	156	SF		
83	710 11101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	5.837	GM		
84	710 11123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	1,516	LF		
85	710 11124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	601	LF		
86	710 11125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	1661	LF		
87	710 11131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 10-30 0R 3-9 SKIP, 6"	0.119	GM		
88	710 11141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE /6-10DOTTED EXTENSION, 6"	0.053	GM		

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89	710 11144	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-2 EXTENTION LINE FOR ROUNDABOUT, 12"	0.03	GM		
90	710 11160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	13	EA		
91	710 11170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	57	EA		
92	710 11201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	5.539	GM		
93	710 11224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	738	LF		
94	710 11241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	0.107	GM		
95	710 11290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	156	LF		
96	710 90	PAINTED PAVEMENT MARKINGS – FINAL SURFACE	1	LS		
97	711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	1516	LF		
98	711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	601	LF		
99	711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	184	LF		
100	711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE /6-10DOTTED EXTENSION, 6"	0.053	GM		
101	711 11144	THERMOPLASTIC, STANDARD, WHITE, 2-2 EXTENTION LINE FOR ROUNDABOUT, 12"	0.03	GM		
102	711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	13	EA		
103	711 11170	THERMOPLASTIC, STANDARD, WHITE, WHITE ARROW	57	EA		
104	711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	738	LF		
105	711 11241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	0.107	GM		
106	711 14125	THERMOPLASTIC, PERFORMED, WHITE SOLID, 24" FOR CROSSWALK	1477	LF		
107	711 16101	THERMOPLASITIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	5.837	GM		
108	711 16131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, 10-30 0R 3-9 SKIP, 6"	0.119	GM		
109	0711 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6'	5.539	GM		
110	077 1 50A	RELOCATE SCHOOL SIGN	1	AS		
	SUBTOTAL: C - SIGNING AND PAVEMENT MARKING					
	D	SIGNALIZATION				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
111	0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	932	LF		
112	0630 2 12	CONDUIT, FURNISH & INSTALL,	232	LF		

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		DIRECTIONAL BORE				
113	0632 7 1	SIGNAL CABLE - NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	1	PI		
114	0635 2 11	PULL & SPLICE BOX, F&I, 13"X24" COVER SIZE	22	EA		
115	0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	1	AS		
116	0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	200	LF		
117	0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	1	EA		
118	0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	5	EA		
119	0649 21 6	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 50'	2	EA		
120	0649 21 10	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 60'	2	EA		
121	0650 1 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	8	AS		
122	0650 1 16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	4	AS		
123	0653 1 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	2	AS		
124	0653 1 12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	3	AS		
125	0660 1110	LOOP DETECTOR, INDUCTIVE, F&I, TYPE 10	10	EA		
126	0660 2102	LOOP ASSEMBLY, F&I, TYPE B	4	AS		
127	0660 2106	LOOP ASSEMBLY, F&I, TYPE F	8	AS		
128	0665 1 11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	8	EA		
129	0670 5111	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 1 PREEMPTION	1	AS		
130	0684 1 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	1	EA		
131	0685 1 11	UNINTERRUPTABLE POWER SUPPLY, F&I, LINE INTERACTIVE	1	EA		
132	0700 3201	SIGN PANEL, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12 SF	4	EA		
133	0700 5 21	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12 SF	2	EA		
134	0700 5 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12-18 SF	2	EA		
		SUBTOTAL: D - SIGNALS				
	E	LIGHTING				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
135	0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	1652	LF		
136	0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	702	LF		
137	0635 2 11	PULL & SPLICE BOX, F&I, 13"X24" COVER SIZE	26	EA		
138	0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	4	EA		

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139	0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	550	LF		
140	0639 3 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	4	EA		
141	0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVVICE POLE	4	EA		
142	0715 1 11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	8130	LF		
143	0715 61111	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE, STANDARD FOUNDATION, 30' MOUNTING HEIGHT	22	EA		
144	0715 7 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	4	EA		
	SUBTOTAL: E - LIGHTING					
	F	LANDSCAPING				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
145	0580 4343	CABBAGE PALMETTO (15 GAL)	7	EA		
146	0580 5142	MUSKAGEE CRAPE MYRTLE (30 GAL)	101	EA		
147	0580 5143	NATCHEZ WHITE CRAPE MYRTLE (30 GAL)	29	EA		
148	0580 5172	BOLD CYPRESS (15 GAL)	83	EA		
149	0580 5223	SOUTHERN LIVE OAK (15 GAL)	120	EA		
150	0580 5234	SLASH PINE (45 GAL)	74	EA		
151	0580 5672	DOGWOOD (30 GAL)	74	EA		
152	0580 5682	REBUD TREE (30 GAL)	59	EA		
153	0580 7103	MUHLY GRASS (3 GAL)	731	EA		
154	0580 7193	DWARF YAUPON (3 GAL)	171	EA		
155	0580 7265	COONTIE (5 GAL)	486	EA		
156	0580 7373	SAND CORDGRASS (3 GAL)	92	EA		
157	0580 7441	TWINFLOWER (1 GAL)	3357	EA		
158	0580 7443	SHINY BLUEBERRY (3 GAL)	896	EA		
159	0580 7621	YELLOW DAYLILY (1 GAL)	7676	EA		
160	0580 (SPECIAL SOIL)	TOP SOIL (MEDIAN ISLANDS)	6000	SY		
161	0590 70	IRRIGATION SYSTEM	1	LS		
162	0526 1 1	PAVERS, ARCHITECTURAL, ROADWAY	870	SY		
163	0526 1 1A	BENCH	6	EA		
164	0526 1 1B	TRASH RECEPTACLE	3	EA		
165	0580 (MAINTENANCE)	12 MONTH MAINTENANCE	1	LS	$50,000	$50,000
	SUBTOTAL: LANDSCAPING					
	G	POTABLE WATER				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total

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166	801.III.2.4	ABANDON BY REMOVAL 12" PIPE	116	LF		
167	801.XII.1	6" PVC DR 18 PIPE	253	LF		
168	801.XII.1	8" PVC DR 18 PIPE	94	LF		
169	801.XII.1	10" PVC DR 18 PIPE	12	LF		
170	801.XII.1	12" PVC DR 18 PIPE	81	LF		
171	801.XII.1	16" PVC DR 25 PIPE	10,421	LF		
172	801.XII.2	6" DI MJ 45 DEG BEND RESTRAINED	10	EA		
173	801.XII.2	6" DI MJ 90 DEG BEND RESTRAINED	28	EA		
174	801.XII.2	8" DI MJ 45 DEG BEND RESTRAINED	2	EA		
175	801.XII.2	8" DI MJ CAP RESTRAINED	2	EA		
176	801.XII.2	10" DI MJ 90 DEG BEND RESTRAINED	1	EA		
177	801.XII.2	12" DI MJ 45 DEG BEND RESTRAINED	1	EA		
178	801.XII.2	12" X 6" DI MJ TEE RESTRAINED	1	EA		
179	801.XII.2	12" X 12" DI MJ TEE RESTRAINED	1	EA		
180	801.XII.2	16" x 12" DI MJ REDUCER	1	EA		
181	801.XII.2	16" DI MJ 11.25 DEG BEND RESTRAINED	13	EA		
182	801.XII.2	16" DI MJ 22.5 DEG BEND RESTRAINED	5	EA		
183	801.XII.2	16" DI MJ 45 DEG BEND RESTRAINED	34	EA		
184	801.XII.2	16" X 6" DI MJ TEE RESTRAINED	20	EA		
185	801.XII.2	16" X 8" DI MJ TEE RESTRAINED	2	EA		
186	801.XII.2	16" X 10" DI MJ TEE RESTRAINED	1	EA		
187	801.XII.2	16" X 12" DI MJ TEE RESTRAINED	1	EA		
188	801.XII.2	16" X 16" DI MJ TEE RESTRAINED	1	EA		
189	801.XII.2	16" DI MJ CAP RESTRAINED	2	EA		
190	801.XII.6	6" PVC PIPE BELL RESTRAINTS	5	EA		
191	801.XII.6	8" PVC PIPE BELL RESTRAINTS	4	EA		
192	801.XII.6	16" PVC PIPE BELL RESTRAINTS	240	EA		
193	801.XII.7	12" PVC SPLIT RING PIPE BELL RESTRAINTS	6	EA		
194	801.XII.9	2" NEW WATER SERVICES	3	EA		
195	801.XII.14	TEMPORARY SAMPLE TAPS	10	EA		
196	801.XIII.1	FIRE HYDRANTS	20	EA		
197	801.XIII.2	FIRE HYDRANT RELOCATION	1	EA		
198	801.XIII.3	6" DI MJ GATE VALVE RESTRAINED	21	EA		
199	801.XIII.3	12" DI MJ GATE VALVE RESTRAINED	3	EA		
200	801.XIII.3	16" DI MJ GATE VALVE RESTRAINED	27	EA		
201	801.XIII.5	WATER METER BOXES	3	EA		
202	801.XIII.7	12" DI MJ 45 DEG BEND RESTRAINED IN EXISTING PIPELINE	1	EA		
203	801.XIII.7	12" x 12" DI MJ TEE RESTRAINED IN EXISTING PIPELINE	1	EA		
		SUBTOTAL: POTABLE WATER				
	H	SANITARY SEWER FORCE				

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		MAIN				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
204	801.XIV.1	SEWAGE MANHOLE	2	EA		
205	801.XIV.6	ADJUST MANHOLE TOP	1	EA		
206	801.XVI.1	16" PVC DR 25	3867	LF		
207	801.XVI.3	16" DI MJ 11.25 DEG BEND RESTRAINED	8	EA		
208	801.XVI.3	16" DI MJ 22.5 DEG BEND RESTRAINED	7	EA		
209	801.XVI.3	16" DI MJ 45 DEG BEND RESTRAINED	27	EA		
210	801.XVI.3	16" DI MJ CAP RESTRAINED	3	EA		
211	801.XVI.7	16" PVC PIPE BELL RESTRAINTS	17	EA		
212	801.XVII.1	16" DI MJ GATE VALVE RESTRAINED	8	EA		
213	801.XVII.3	ADJUST 16" DI MJ GATE VALVE IN EXISTING PIPELINE	1	EA		
214	801.XVII.3	REMOVE 16" DI MJ CAP IN EXISTING PIPELINE	1	EA		
215	801.XVII.4	2" DI MJ AIR RELEASE VALVE RESTRAINED	2	EA		
		SUBTOTAL: SANITARY SEWER FORCE MAIN				
	I	RECLAIMED WATER MAIN				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
216	801.XXI.1	16" PVC DR 25 PIPE	264	LF		
217	801.XXI.2	16" DI MJ 45 DEG BEND RESTRAINED	5	EA		
218	801.XXI.2	16" DI MJ CAP RESTRAINED	1	EA		
219	801.XXI.6	16" PIPE BELL RESTRAINTS	17	EA		
220	801.XXI.1	16" DI MJ GATE VALVE RESTRAINED	2	EA		
221	801.XXII.4	ADJUST 16" DI MJ GATE VALVE IN EXISTING PIPELINE	3	EA		
222	801.XXII.4	REMOVE 16" DI MJ CAP IN EXISTING PIPELINE	1	LF		
		SUBTOTAL: RECLAIMED WATER MAIN				
	J	JEA MISC				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
223	408	A-3 BACKFILL (CONTINGENCY)	1	LS	$50,000	$50,000
224	102-1	MOT (US17 AND MINER RD)	1	LS		
225	Tech Spec	JEA GENERAL CONDITIONS	1	LS		
226	429	SEWAGE PUIMP TRUCK (CONTINGENCY)	1	LS	$10,000	$10,000
227	437	THRUST BLOCKS	3	EA		
228	441	PERFORMANCE TURF (S0D) (STA 307+00 TO STA 318+00)	900	SY		

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229	490	ROADWAY RECONSTRUCTION (US17)	1	LS		
230	490	ROADWAY RECONSTRUCTION (MINER RD)	1	LS		
231	490	ROADWAY RECONSTRUCTION (WBB)	1	LS		
232	Tech Spec	TESTING ALLOWANCE	1	LS	$10,000	$10,000
		SUBTOTAL: JEA MISC				

BID SUMMARY		
PARTS A, B, C, D, AND E	**SUBTOTAL=**	
PARTS F	**SUBTOTAL=**	
PARTS G, H, I AND J	**SUBTOTAL=**	
TOTAL BASE BID		

The Total Base Bid price has been computed in accordance with Paragraph 11.03 of the General Conditions.

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REVISED BID FORM – NC24-010-ITB ADDENDUM 3

	A	ROADWAY				
Item No.	Spec No.	Item	Estimated Qty.	Unit	Unit Cost	Total
1	101 1	MOBILIZATION	1	LS	$ 850,933.14	$ 850,933.14
2	102 1	MAINTENANCE OF TRAFFIC (MOT)	1	LS	$ 166,158.69	$ 166,158.69
3	102-3	COMMERICAL MATERIAL	100	SY	$ 80.73	$ 8,073.00
4	102 71 13	TEMPORARY BARRIER, F&I LOW PROFILE	2120	LF	$ 73.82	$ 156,498.40
5	102 71 16	TEMPORARY BARRIER, F&I FREESTANDING	1630	LF	$ 45.52	$ 74,197.60
6	102 71 23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE	1740	LF	$ 26.96	$ 46,910.40
7	102 71 26	TEMPORARY BARRIER, RELOCATE, FREESTANDING	1370	LF	$ 22.84	$ 31,290.80
8	102 89 1	TEMPORARY CRASH CUSHION, REDIRECTIVE OPTION	8	EA	$ 2,058.69	$ 16,469.52
9	102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	600	ED	$ 18.01	$ 10,806.00
10	104 1	EROSION CONTROLS	1	LS	$ 263,111.97	$ 263,111.97
11	107-2	MOWING	170	AC	$ 193.01	$ 32,811.70
12	110 1 1	CLEARING & GRUBBING (INCLUDES TREE CLEARING)	1	LS	$ 718,800.37	$ 718,800.37
13	110 4 10	REMOVAL OF EXISTING CONCRETE	827	SY	$ 24.42	$ 20,195.34
14	120 1	REGULAR EXCAVATION	43,425	CY	$ 7.71	$ 334,806.75
15	120 4	SUBSOIL EXCAVATION	7,767	CY	$ 27.59	$ 214,291.53
16	120 4A	OVER EXCAVATION (CONTINGENCY)	1	LS	$ 50,000.00	$ 50,000.00
17	120 6	EMBANKMENT	70,648	CY	$ 12.42	$ 877,448.16
18	120 6A	A-3 SAND BACKFILL (CONTINGENCY)	1	LS	$ 50,000.00	$ 50,000.00
19	160 4	TYPE B STABILIZATION (12")	60,476	SY	$ 11.34	$ 685,797.84
20	285 7 01	OPTIONAL BASE, BASE GROUP 01, (4") Type B 12.5	685	SY	$ 48.70	$ 33,359.50
21	285 7 04	OPTIONAL BASE, BASE GROUP 04	11,762	SY	$ 19.88	$ 233,828.56
22	285 7 09	OPTIONAL BASE, BASE GROUP 9, 10" LIMEROCK	37,017	SY	$ 29.74	$ 1,100,885.58
23	0327 70 4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	5310	SY	$ 6.55	$ 34,780.50
24	0327 70 6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	4811	SY	$ 4.23	$ 20,350.53
25	0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C (SHARED USE PATH)	971	TN	$ 172.31	$ 167,313.01
26	0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG 76-22 (ROADWAY)	3,774	TN	$ 252.11	$ 951,463.14
27	0337 7 83	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22	3,970	TN	$ 266.12	$ 1,056,496.40
28	0339 1	MISCELLANEOUS ASPHALT PAVEMENT	2	TN	$ 673.52	$ 1,347.04
29	400 11	CONCRETE CLASS NS, GRAVITY WALL	39	CY	$ 3,085.81	$ 120,346.59
30	0520 1 7	CONCRETE CURB & GUTTER, TYPE E	367	LF	$ 41.39	$ 15,190.13
31	520 1 10	CONCRETE CURB & GUTTER, TYPE F	18,845	LF	$ 34.59	$ 651,848.55
32	520 1 10 A	CONCRETE CURB & GUTTER, TYPE "1.5' WIDE CITY"	8930	LF	$ 27.46	$ 245,217.80
33	520 2 4	CONCRETE CURB & GUTTER, TYPE D	2979	LF	$ 29.96	$ 89,250.84
34	520 2 8	CONCRETE CURB & GUTTER, TYPE RA	547	LF	$ 35.32	$ 19,320.04
35	520 3	VALLEY GUTTER CONCRETE	358	LF	$ 48.18	$ 17,248.44
36	520 5 41	TRAFFIC SEPARATOR, CONCRETE, TYPE I (OPTION 1)	150	SY	$ 109.52	$ 16,428.00
37	520 5 41	TRAFFIC SEPARATOR, CONCRETE, TYPE IV, 4' WIDE	293	LF	$ 46.02	$ 13,483.86
38	522 1	SIDEWALK CONCRETE & DRIVEWAYS 4" THICK	6605	SY	$ 68.15	$ 450,130.75
39	522 2	SIDEWALK CONCRETE & DRIVEWAYS 6" THICK	1690	SY	$ 92.54	$ 156,392.60
40	522 2A	SIDEWALK CONCRETE & DRIVEWAYS 7" THICK	95	SY	$ 135.95	$ 12,915.25
41	527 1	DETECTABLE WARNINGS	672	SF	$ 41.80	$ 28,089.60
42	530 3 4	RUBBLE RIP RAP	28.8	SY	$ 314.14	$ 9,047.23
43	0550 10220	FENCING, TYPE B, 5.1- 6.0', STANDARD	3,907	LF	$ 36.93	$ 144,285.51
44	0550 60235	FENCE GATE, TYPE B, DOUBLE, 24.1- 30.0' OPENING	5	EA	$ 4,825.05	$ 24,125.25
45	0570 1 2	PERFORMANCE TURF (SOD)	68,638	SY	$ 2.90	$ 199,050.20

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REVISED BID FORM – NC24-010-ITB ADDENDUM 3

	SUBTOTAL: A - ROADWAY					$ 10,420,796.11
	B	DRAINAGE				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
46	425 1311	INLETS, CURB, TYPE P-1, <10'	41	EA	$ 10,588.71	$ 434,137.11
47	425 1312	INLETS, CURB, TYPE P-1, >10'	2	EA	$ 13,353.08	$ 26,706.16
48	425 1321	INLETS, CURB, TYPE P-2, <10'	12	EA	$ 11,043.13	$ 132,517.56
49	425 1351	INLETS, CURB, TYPE P-5, <10	15	EA	$ 9,490.57	$ 142,358.55
50	425 1351	INLETS, CURB, TYPE P-5, >10	1	EA	$ 21,654.89	$ 21,654.89
51	425 1361	INLETS, CURB, TYPE P-6, <10	3	EA	$ 14,463.73	$ 43,391.19
52	425 1411	INLETS, CURB, TYPE J-1, <10	6	EA	$ 16,012.86	$ 96,077.16
53	425 1412	INLETS, CURB, TYPE J-1, >10	4	EA	$ 17,386.71	$ 69,546.84
54	425 1421	INLETS, CURB, TYPE J-2, <10'	2	EA	$ 16,709.56	$ 33,419.12
55	425 1351	INLETS, DITCH BOTTOM, TYPE C, J BOT, <10'	3	EA	$ 4,821.23	$ 14,463.69
56	425 1543	INLETS, DITCH BOTTOM, TYPE D, J BOT, <10'	2	EA	$ 7,659.44	$ 15,318.88
57	425 1548	INLETS, DITCH BOTTOM, TYPE H, J BOT, <10'	1	EA	$ 10,122.86	$ 10,122.86
58	425 1910	INLETS, CLOSED FLUME	2	EA	$ 6,492.84	$ 12,985.68
59	425 2 41	MANHOLES, P-7, <10	4	EA	$ 7,637.96	$ 30,551.84
60	425 2 61	MANHOLES, P-8 <10	4	EA	$ 7,637.96	$ 30,551.84
61	425 2 71	MANHOLES, J-7, <10'	3	EA	$ 10,455.73	$ 31,367.19
62	425 2 91	MANHOLES, J-8, <10'	1	EA	$ 14,338.87	$ 14,338.87
63	425 2 92	MANHOLES, J-8,>10'	1	EA	$ 13,652.54	$ 13,652.54
64	430174115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15"SD/CD	555	LF	$ 186.37	$ 103,435.35
65	430174118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD/CD	4,760	LF	$ 146.38	$ 696,768.80
66	430174124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"SD/CD	1,921	LF	$ 198.60	$ 381,510.60
67	430174130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30"SD/CD	1,414	LF	$ 225.47	$ 318,814.58
68	430174136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36"SD/CD	1,094	LF	$ 285.07	$ 311,866.58
69	430174136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 42"SD/CD	889	LF	$ 346.77	$ 308,278.53
70	430175218	PIPE CULVERT, OPTIONAL MATERIAL, OTHER-ELIP, 18"SD/CD	190	LF	$ 184.51	$ 35,056.90
71	430518100	STRAIGHT CONC ENDWALL, SINGLE. O DEG, ROUND	1	EA	$ 4,114.91	$ 4,114.91
72	430982123	MITERED END SECTION, OPTIONAL ROUND, 15" CD	6	EA	$ 2,873.91	$ 17,243.46
73	430982129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	3	EA	$ 3,840.01	$ 11,520.03
74	430982133	MITERED END SECTION, OPTIONAL ROUND, 30" CD	7	EA	$ 8,519.64	$ 59,637.48
75	430982138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	2	EA	$ 10,449.13	$ 20,898.26
76	430982140	MITERED END SECTION, OPTIONAL ROUND, 42" CD	1	EA	$ 14,935.78	$ 14,935.78
	SUBTOTAL: B - DRAINAGE					$ 3,457,243.23
	C	SIGNING AND PAVEMENT MARKING				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
77	654 2 11	MID-BLOCK CROSSWALK	2	AS	$ 11,670.19	$ 23,340.38
78	700 1 11	SINGLE POST, SIGN, F&I GROUND MOUNT, UP TO 12 SF	68	AS	$ 501.81	$ 34,123.08
79	700 1 60	SINGLE POST SIGN, REMOVE	13	AS	$ 38.60	$ 501.80
80	700 12 21	SIGN BEACON, F&I, GROUND MOUNT – SOLAR POWERED, ONE BEACON	2	AS	$ 12,541.27	$ 25,082.54
81	706 1 3	RAISED PAVEMENT MARKER, TYPE B	949	EA	$ 9.35	$ 8,873.15
82	710 17	REMOVE NON-CONFLICTING MARKINGS	156	SF	$ 2.67	$ 416.52
83	710 11101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	5.837	GM	$ 2,401.95	$ 14,020.18

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84	710 11123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	1,516	LF	$ 2.67	$ 4,047.72
85	710 11124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	601	LF	$ 4.01	$ 2,410.01
86	710 11125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	1661	LF	$ 5.34	$ 8,869.74
87	710 11131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 10-30 0R 3-9 SKIP, 6"	0.119	GM	$ 1,347.23	$ 160.32
88	710 11141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE /6-10DOTTED EXTENSION, 6"	0.053	GM	$ 1,260.57	$ 66.81
89	710 11144	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-2 EXTENTION LINE FOR ROUNDABOUT, 12"	0.03	GM	$ 2,672.00	$ 80.16
90	710 11160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	13	EA	$ 133.60	$ 1,736.80
91	710 11170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	57	EA	$ 66.80	$ 3,807.60
92	710 11201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	5.539	GM	$ 2,405.27	$ 13,322.79
93	710 11224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	738	LF	$ 4.01	$ 2,959.38
94	710 11241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	0.107	GM	$ 1,248.60	$ 133.60
95	710 11290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	156	LF	$ 13.36	$ 2,084.16
96	710 90	PAINTED PAVEMENT MARKINGS – FINAL SURFACE	1	LS	$ 40,080.60	$ 40,080.60
97	711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	1516	LF	$ 8.02	$ 12,158.32
98	711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	601	LF	$ 10.69	$ 6,424.69
99	711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	184	LF	$ 13.36	$ 2,458.24
100	711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE /6-10DOTTED EXTENSION, 6"	0.053	GM	$ 4,411.51	$ 233.81
101	711 11144	THERMOPLASTIC, STANDARD, WHITE, 2-2 EXTENTION LINE FOR ROUNDABOUT, 12"	0.03	GM	$ 9,352.00	$ 280.56
102	711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	13	EA	$ 400.81	$ 5,210.53
103	711 11170	THERMOPLASTIC, STANDARD, WHITE, WHITE ARROW	57	EA	$ 167.00	$ 9,519.00
104	711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	738	LF	$ 10.69	$ 7,889.22
105	711 11241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDELINE/6-10 DOTTED EXTENSION, 6"	0.107	GM	$ 4,370.09	$ 467.60
106	711 14125	THERMOPLASTIC, PERFORMED, WHITE SOLID, 24" FOR CROSSWALK	1477	LF	$ 26.72	$ 39,465.44
107	711 16101	THERMOPLASITIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	5.837	GM	$ 8,020.24	$ 46,814.14
108	711 16131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, 10-30 0R 3-9 SKIP, 6"	0.119	GM	$ 3,368.07	$ 400.80
109	0711 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6'	5.539	GM	$ 8,003.09	$ 44,329.12
110	077 1 50A	RELOCATE SCHOOL SIGN	1	AS	$ 37,571.04	$ 37,571.04
	SUBTOTAL: C - SIGNING AND PAVEMENT MARKING					**$ 399,339.85**
	D	**SIGNALIZATION**				
	Item No.	**Item**	**Estimated Qty.**	**Unit**	**Unit Cost**	**Total**

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111	0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	932	LF	$ 21.21	$ 19,767.72
112	0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	232	LF	$ 48.92	$ 11,349.44
113	0632 7 1	SIGNAL CABLE - NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	1	PI	$ 14,028.97	$ 14,028.97
114	0635 2 11	PULL & SPLICE BOX, F&I, 13"X24" COVER SIZE	22	EA	$ 2,135.86	$ 46,988.92
115	0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	1	AS	$ 7,284.11	$ 7,284.11
116	0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	200	LF	$ 20.53	$ 4,106.00
117	0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	1	EA	$ 3,261.00	$ 3,261.00
118	0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	5	EA	$ 3,757.75	$ 18,788.75
119	0649 21 6	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 50'	2	EA	$ 91,478.82	$ 182,957.64
120	0649 21 10	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 60'	2	EA	$ 100,055.89	$ 200,111.78
121	0650 1 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	8	AS	$ 2,417.21	$ 19,337.68
122	0650 1 16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	4	AS	$ 2,882.34	$ 11,529.36
123	0653 1 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	2	AS	$ 1,495.72	$ 2,991.44
124	0653 1 12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	3	AS	$ 2,720.25	$ 8,160.75
125	0660 1110	LOOP DETECTOR, INDUCTIVE, F&I, TYPE 10	10	EA	$ 669.21	$ 6,692.10
126	0660 2102	LOOP ASSEMBLY, F&I, TYPE B	4	AS	$ 1,708.82	$ 6,835.28
127	0660 2106	LOOP ASSEMBLY, F&I, TYPE F	8	AS	$ 2,327.58	$ 18,620.64
128	0665 1 11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	8	EA	$ 633.93	$ 5,071.44
129	0670 5111	TRAFFIC CONTROL ASSEMBLY, F&I, NEMA, 1 PREEMPTION	1	AS	$ 57,063.86	$ 57,063.86
130	0684 1 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	1	EA	$ 7,412.13	$ 7,412.13
131	0685 1 11	UNINTERRUPTABLE POWER SUPPLY, F&I, LINE INTERACTIVE	1	EA	$ 9,045.05	$ 9,045.05
132	0700 3201	SIGN PANEL, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12 SF	4	EA	$ 1,390.95	$ 5,563.80
133	0700 5 21	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12 SF	2	EA	$ 6,760.53	$ 13,521.06
134	0700 5 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, UP TO 12-18 SF	2	EA	$ 7,288.30	$ 14,576.60
	SUBTOTAL: D - SIGNALS					**$ 695,065.52**
	E	**LIGHTING**				
	Item No.	**Item**	**Estimated Qty.**	**Unit**	**Unit Cost**	**Total**
135	0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	1652	LF	$ 21.47	$ 35,468.44
136	0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	702	LF	$ 49.53	$ 34,770.06
137	0635 2 11	PULL & SPLICE BOX, F&I, 13"X24" COVER SIZE	26	EA	$ 2,162.28	$ 56,219.28
138	0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	4	EA	$ 7,374.21	$ 29,496.84
139	0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	550	LF	$ 20.79	$ 11,434.50
140	0639 3 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	4	EA	$ 3,089.50	$ 12,358.00
141	0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVVICE POLE	4	EA	$ 3,301.33	$ 13,205.32
142	0715 1 11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	8130	LF	$ 2.06	$ 16,747.80
143	0715 61111	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE, STANDARD FOUNDATION, 30' MOUNTING HEIGHT	22	EA	$ 14,469.86	$ 318,336.92
144	0715 7 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	4	EA	$ 12,480.82	$ 49,923.28

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		SUBTOTAL: E - LIGHTING				$ 577,960.44
	F	LANDSCAPING				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
145	0580 4343	CABBAGE PALMETTO (15 GAL)	7	EA	$ 296.73	$ 2,077.11
146	0580 5142	MUSKAGEE CRAPE MYRTLE (30 GAL)	101	EA	$ 365.33	$ 36,898.33
147	0580 5143	NATCHEZ WHITE CRAPE MYRTLE (30 GAL)	29	EA	$ 365.33	$ 10,594.57
148	0580 5172	BOLD CYPRESS (15 GAL)	83	EA	$ 217.29	$ 18,035.07
149	0580 5223	SOUTHERN LIVE OAK (15 GAL)	120	EA	$ 217.29	$ 26,074.80
150	0580 5234	SLASH PINE (45 GAL)	74	EA	$ 487.48	$ 36,073.52
151	0580 5672	DOGWOOD (30 GAL)	74	EA	$ 670.71	$ 49,632.54
152	0580 5682	REBUD TREE (30 GAL)	59	EA	$ 416.22	$ 24,556.98
153	0580 7103	MUHLY GRASS (3 GAL)	731	EA	$ 17.31	$ 12,653.61
154	0580 7193	DWARF YAUPON (3 GAL)	171	EA	$ 18.85	$ 3,223.35
155	0580 7265	COONTIE (5 GAL)	486	EA	$ 41.99	$ 20,407.14
156	0580 7373	SAND CORDGRASS (3 GAL)	92	EA	$ 17.82	$ 1,639.44
157	0580 7441	TWINFLOWER (1 GAL)	3357	EA	$ 9.94	$ 33,368.58
158	0580 7443	SHINY BLUEBERRY (3 GAL)	896	EA	$ 26.98	$ 24,174.08
159	0580 7621	YELLOW DAYLILY (1 GAL)	7676	EA	$ 9.94	$ 76,299.44
160	0580 (SPECIAL SOIL)	TOP SOIL (MEDIAN ISLANDS)	6000	SY	$ 13.26	$ 79,560.00
161	0590 70	IRRIGATION SYSTEM	1	LS	$ 201,422.55	$ 201,422.55
162	0526 1 1	PAVERS, ARCHITECTURAL, ROADWAY	870	SY	$ 171.82	$ 149,483.40
163	0526 1 1A	BENCH	6	EA	$ 4,749.30	$ 28,495.80
164	0526 1 1B	TRASH RECEPTACLE	3	EA	$ 5,577.88	$ 16,733.64
165	0580 (MAINTENANCE)	12 MONTH MAINTENANCE	1	LS	$ 50,000.00	$ 50,000.00
		SUBTOTAL: LANDSCAPING				$ 901,403.95
	G	POTABLE WATER				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
166	801.III.2.4	ABANDON BY REMOVAL 12" PIPE	116	LF	$ 31.28	$ 3,628.48
167	801.XII.1	6" PVC DR 18 PIPE	253	LF	$ 55.85	$ 14,130.05
168	801.XII.1	8" PVC DR 18 PIPE	94	LF	$ 89.69	$ 8,430.86
169	801.XII.1	10" PVC DR 18 PIPE	12	LF	$ 544.91	$ 6,538.92
170	801.XII.1	12" PVC DR 18 PIPE	81	LF	$ 176.97	$ 14,334.57
171	801.XII.1	16" PVC DR 25 PIPE	10,421	LF	$ 108.61	$ 1,131,824.81
172	801.XII.2	6" DI MJ 45 DEG BEND RESTRAINED	10	EA	$ 464.74	$ 4,647.40
173	801.XII.2	6" DI MJ 90 DEG BEND RESTRAINED	28	EA	$ 495.03	$ 13,860.84
174	801.XII.2	8" DI MJ 45 DEG BEND RESTRAINED	2	EA	$ 585.84	$ 1,171.68
175	801.XII.2	8" DI MJ CAP RESTRAINED	2	EA	$ 423.39	$ 846.78
176	801.XII.2	10" DI MJ 90 DEG BEND RESTRAINED	1	EA	$ 930.14	$ 930.14
177	801.XII.2	12" DI MJ 45 DEG BEND RESTRAINED	1	EA	$ 1,054.73	$ 1,054.73
178	801.XII.2	12" X 6" DI MJ TEE RESTRAINED	1	EA	$ 1,199.28	$ 1,199.28
179	801.XII.2	12" X 12" DI MJ TEE RESTRAINED	1	EA	$ 1,540.72	$ 1,540.72
180	801.XII.2	16" x 12" DI MJ REDUCER	1	EA	$ 1,403.04	$ 1,403.04
181	801.XII.2	16" DI MJ 11.25 DEG BEND RESTRAINED	13	EA	$ 1,902.76	$ 24,735.88
182	801.XII.2	16" DI MJ 22.5 DEG BEND RESTRAINED	5	EA	$ 1,876.62	$ 9,383.10
183	801.XII.2	16" DI MJ 45 DEG BEND RESTRAINED	34	EA	$ 1,891.75	$ 64,319.50
184	801.XII.2	16" X 6" DI MJ TEE RESTRAINED	20	EA	$ 2,131.30	$ 42,626.00
185	801.XII.2	16" X 8" DI MJ TEE RESTRAINED	2	EA	$ 2,241.43	$ 4,482.86
186	801.XII.2	16" X 10" DI MJ TEE RESTRAINED	1	EA	$ 2,698.57	$ 2,698.57

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187	801.XII.2	16" X 12" DI MJ TEE RESTRAINED	1	EA	$ 2,534.73	$ 2,534.73
188	801.XII.2	16" X 16" DI MJ TEE RESTRAINED	1	EA	$ 3,078.55	$ 3,078.55
189	801.XII.2	16" DI MJ CAP RESTRAINED	2	EA	$ 743.53	$ 1,487.06
190	801.XII.2	12" DI MJ CAP RESTRAINED (CONTINGENCY)	6	EA	$ 648.56	$ 3,891.36
191	801.XII.2	10" DI MJ CAP RESTRAINED (CONTINGENCY)	6	EA	$ 570.08	$ 3,420.48
192	801.XII.2	8" DI MJ CAP RESTRAINED (CONTINGENCY)	2	EA	$ 486.08	$ 972.16
193	801.XII.6	6" PVC PIPE BELL RESTRAINTS	5	EA	$ 247.21	$ 1,236.05
194	801.XII.6	8" PVC PIPE BELL RESTRAINTS	4	EA	$ 302.30	$ 1,209.20
195	801.XII.6	16" PVC PIPE BELL RESTRAINTS	240	EA	$ 773.83	$ 185,719.20
196	801.XII.7	12" PVC SPLIT RING PIPE BELL RESTRAINTS	6	EA	$ 490.22	$ 2,941.32
197	801.XII.9	2" NEW WATER SERVICES	3	EA	$ 3,989.07	$ 11,967.21
198	801.XII.14	TEMPORARY SAMPLE TAPS	10	EA	$ 1,026.52	$ 10,265.20
199	801.XIII.1	FIRE HYDRANTS	20	EA	$ 6,753.92	$ 135,078.40
200	801.XIII.2	FIRE HYDRANT RELOCATION	1	EA	$ 3,036.94	$ 3,036.94
201	801.XIII.3	6" DI MJ GATE VALVE RESTRAINED	21	EA	$ 2,358.89	$ 49,536.69
202	801.XIII.3	12" DI MJ GATE VALVE RESTRAINED	3	EA	$ 5,548.50	$ 16,645.50
203	801.XIII.3	16" DI MJ GATE VALVE RESTRAINED	27	EA	$ 8,545.67	$ 230,733.09
204	801.XIII.5	WATER METER BOXES	3	EA	$ 835.71	$ 2,507.13
205	801.XIII.7	12" DI MJ 45 DEG BEND RESTRAINED IN EXISTING PIPELINE	1	EA	$ 3,947.59	$ 3,947.59
206	801.XIII.7	12" x 12" DI MJ TEE RESTRAINED IN EXISTING PIPELINE	1	EA	$ 4,433.58	$ 4,433.58
		SUBTOTAL: POTABLE WATER				**$ 2,028,429.65**
	H	**SANITARY SEWER FORCE MAIN**				
	Item No.	**Item**	**Estimated Qty.**	**Unit**	**Unit Cost**	**Total**
207	801.XIV.1	SEWAGE MANHOLE	2	EA	$ 10,560.34	$ 21,120.68
208	801.XIV.6	ADJUST MANHOLE TOP	1	EA	$ 5,728.31	$ 5,728.31
209	801.XVI.1	16" PVC DR 25	3867	LF	$ 107.86	$ 417,094.62
210	801.XVI.3	16" DI MJ 11.25 DEG BEND RESTRAINED	8	EA	$ 3,233.06	$ 25,864.48
211	801.XVI.3	16" DI MJ 22.5 DEG BEND RESTRAINED	7	EA	$ 3,169.72	$ 22,188.04
212	801.XVI.3	16" DI MJ 45 DEG BEND RESTRAINED	27	EA	$ 3,216.54	$ 86,846.58
213	801.XVI.3	16" DI MJ CAP RESTRAINED	3	EA	$ 2,141.30	$ 6,423.90
214	801.XVI.7	16" PVC PIPE BELL RESTRAINTS	17	EA	$ 867.81	$ 14,752.77
215	801.XVII.1	16" DI MJ GATE VALVE RESTRAINED	8	EA	$ 8,545.68	$ 68,365.44
216	801.XVII.3	ADJUST 16" DI MJ GATE VALVE IN EXISTING PIPELINE	1	EA	$ 570.67	$ 570.67
217	801.XVII.3	REMOVE 16" DI MJ CAP IN EXISTING PIPELINE	1	EA	$ 6,290.05	$ 6,290.05
218	801.XVII.4	2" DI MJ AIR RELEASE VALVE RESTRAINED	2	EA	$ 8,386.33	$ 16,772.66
		SUBTOTAL: SANITARY SEWER FORCE MAIN				**$ 692,018.20**
	I	**RECLAIMED WATER MAIN**				
	Item No.	**Item**	**Estimated Qty.**	**Unit**	**Unit Cost**	**Total**
219	801.XXI.1	16" PVC DR 25 PIPE	264	LF	$ 220.44	$ 58,196.16
220	801.XXI.2	16" DI MJ 45 DEG BEND RESTRAINED	5	EA	$ 1,891.76	$ 9,458.80
221	801.XXI.2	16" DI MJ CAP RESTRAINED	1	EA	$ 743.59	$ 743.59
222	801.XXI.6	16" PIPE BELL RESTRAINTS	17	EA	$ 773.83	$ 13,155.11
223	801.XXI.1	16" DI MJ GATE VALVE RESTRAINED	2	EA	$ 8,545.65	$ 17,091.30
224	801.XXII.4	ADJUST 16" DI MJ GATE VALVE IN EXISTING PIPELINE	3	EA	$ 570.73	$ 1,712.19
225	801.XXII.4	REMOVE 16" DI MJ CAP IN EXISTING PIPELINE	1	LF	$ 5,098.89	$ 5,098.89

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		SUBTOTAL: RECLAIMED WATER MAIN				$ 105,456.04
	J	JEA MISC				
	Item No.	Item	Estimated Qty.	Unit	Unit Cost	Total
226	408	A-3 BACKFILL (CONTINGENCY)	1	LS	$ 50,000.00	$ 50,000.00
227	102-1	MOT (US17 AND MINER RD)	1	LS	$ 26,311.30	$ 26,311.30
228	Tech Spec	JEA GENERAL CONDITIONS	1	LS	$ 194,181.93	$ 194,181.93
229	429	SEWAGE PUIMP TRUCK (CONTINGENCY)	1	LS	$ 10,000.00	$ 10,000.00
230	437	THRUST BLOCKS	3	EA	$ 1,853.67	$ 5,561.01
231	441	PERFORMANCE TURF (S0D) (STA 307+00 TO STA 318+00)	900	SY	$ 2.90	$ 2,610.00
232	490	ROADWAY RECONSTRUCTION (US17)	1	LS	$ 11,985.98	$ 11,985.98
233	490	ROADWAY RECONSTRUCTION (MINER RD)	1	LS	$ 30,262.71	$ 30,262.71
234	490	ROADWAY RECONSTRUCTION (WBB)	1	LS	$ 10,389.85	$ 10,389.85
235	Tech Spec	TESTING ALLOWANCE	1	LS	$ 10,000.00	$ 10,000.00
236	Tech Spec	SUPPLEMENTAL WORK AUTHORIZATION (SWA)	1	LS	$ 50,000.00	$ 50,000.00
		SUBTOTAL: JEA MISC				$ 401,302.78

BID SUMMARY			
PARTS A, B, C, D AND E	SUBTOTAL=	$	15,550,405.15
PARTS F	SUBTOTAL=	$	901,403.95
PARTS G, H, I AND J	SUBTOTAL=	$	3,227,206.67
	TOTAL BASE BID	$	19,679,015.77

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All specific cash allowances are included in the price(s) set forth above and have been computed in accordance with paragraph 11.02 of the General Conditions.

Unit prices have been computed in accordance with Paragraph 11.03B of the General Conditions.

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

6.01 Bidder agrees that the Work will be substantially complete within 505 calendar days after the date when the Contract Times commence to run as provided in paragraph 2.03 of the General Conditions, and completed and ready for final payment in accordance with paragraph .07.B of the eneral Conditions within 5 calendar days from the date of substantial completion. Total contract time shall be 550 calendar days for everyday the work goes beyond substantial completion, a day will be removed from final completion so the total days equal 550 calendar days.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified above, which shall be stated in the Agreement. This project will follow FDOT Recommendations for a project of this size, to be $7,625.00/Day.

7.01 The following documents are attached to and made a condition of this Bid:

A. Bid Security in the form of a certified check of Bid Bond (Section 00 43 15)
B. Tabulation of Subcontractors & Suppliers (Section 00 43 35)
C. Florida Trench Safety Act Certification (Section 00 44 55)
D. Bidder's Qualification Statement (Section 00 45 13)
E. Non-collusion Affidavit (Section 00 45 19)
F. Drug-Free Workplace Certificate (Section 00 45 20)
G. Public Entity Crimes Statement
H. Statement of Disputes, Litigation & Surety Completion

8.01 The terms used in this Bid with initial capital letters have the meanings indicated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

SUBMITTED on April 18th, 2024.

State Contractor License No. CGC #057651; CUC #1226048.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

If Bidder is:

An Individual

Name (typed or printed): _____
By: _____
(*Individual's Signature*)

Doing business as: _____
Business address: _____
_____
Phone No.:_____ Fax No.: _____

A Partnership

Partnership Name: _____
By: _____
(*Signature of general partner - attach evidence of authority to sign*)

Name (typed or printed): _____
Business address: _____
_____
Phone No.:_____ Fax No.: _____

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A Corporation

Corporation Name: PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC. (SEAL)

State of Incorporation: FLORIDA

Type (General Business, Professional, Service, Limited Liability): GENERAL BUSINESS

By: _____

(Signature - attach evidence of authority to sign)

Name (typed or printed): JEFFREY RUMER

Title: EXECUTIVE VICE PRESIDENT (CORPORATE SEAL)

Attest _____

(Signature of Corporate Secretary)

Business address: 6380 PHILIPS HWY., JACKSONVILLE, FL 32216

Phone No.: (904) 751-0888 Fax No.: (904) 751-0988

Date of Qualification to do business is OCTOBER 23, 2007

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A Joint Venture

Joint Venturer Name: _____

By: _____

(*Signature of joint venture partner - attach evidence of authority to sign*)

Name (typed or printed): _____

Title: _____

Business address: _____

_____

Phone No.: _____ Fax No.: _____

Joint Venturer Name: _____

By: _____

(*Signature - attach evidence of authority to sign*)

Name (typed or printed): _____

Title: _____

Business address: _____

_____

Phone No.: _____ Fax No.: _____

Phone and FAX Number, and Address for receipt of official communications:

_____

_____

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

END OF SECTION

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SECTION 00 43 15

BID BOND

Any singular reference to Bidder, Surety, Owner, or other party shall be considered plural where applicable.

BIDDER (Name and Address):
Petticoat Schmitt Civil Contractors Inc
6380 Philips Highway Jacksonville FL 32216

SURETY (Name and Address of Principal Place of Business):
Travelers Casualty and Surety Company of America
One Tower Square Hartford CT 06183

OWNER (Name and Address):

BID

Bid Due Date: 4/17/24
Project (Brief Description Including Location):
William Burgess Blvd. Extension Bid No NC24-010-ITB

BOND

Bond Number: BID
Date (Not later than Bid due date): 4/11/24
Penal Sum: Five Percent of Bid Amount (Words) 5% (Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Bid Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

BIDDER

Petticoat Schmitt Civil Contractors Inc (Seal)
Bidder's Name and Corporate Seal

By: _____
Signature and Title Executive V.P.
Jeffrey Ryan

Attest: _____
Signature and Title WITNESS

SURETY

Travelers Casualty and Surety Company of America (Seal)
Surety's Name and Corporate Seal

By: _____
Signature and Title Benjamin K. Powell
(Attach Power of Attorney)

Attest: _____
Signature and Title Witness

Note: Above addresses are to be used for giving required notice.

DAMAGES FORM

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to pay to the County upon default of Bidder any difference between the total amount of Bidder's Bid and the total amount of the Bid of the next lowest, responsible Bidder who submitted a responsive Bid as determined by the County for the work required by the Contract Documents, provided that:

1.1. If there is no such next Bidder, and the County does not abandon the Project, then Bidder and Surety shall pay to the County the penal sum set forth on the face of this Bond, and

1.2. In no event shall Bidder's and Surety's obligation hereunder exceed the penal sum set forth on the race of this Bond.

2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by the County) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.

3. This obligation shall be null and void if:

3.1. The County accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by the County) the executed Agreement required by the Bidding Documents arid any performance and payment bonds required b) the Bidding Documents, or

3.2. All Bids are rejected by the County, or

3.3. The County fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by Paragraph 5 hereof).

4. Payment under this Bond will be due and payable upon default by Bidder and within 30 calendar days after receipt by Bidder and Surety of written notice of default from the County, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount clue.

5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by the County and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from Bid due date without Surety's written consent.

6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after Bid due date.

7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the slate in which the Project is located.

8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.

9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney

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evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.

10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.

11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

END OF SECTION

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TRAVELERS

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 **BENJAMIN K POWELL** of **JACKSONVILLE** , **Florida** , 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 **11th** day of **April** , **2024** .

_____
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.

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SECTION 00 43 35

TABULATION OF SUBCONTRACTORS & SUPPLIERS

The undersigned states that the following is a full and complete list of the proposed subcontractors and suppliers on this Project and the class of work to be performed by each, and that such list will not be added to nor altered without written consent to the Owner through the Engineer.

	SUBCONTRACTOR OR SUPPLIER AND ADDRESS	CLASS OF WORK OR MATERIAL
1.	Acme Barricades 9800 Normandy Blvd., Jacksonville, FL 32221	MOT/Striping/Barrier Walls
2.	Kudzue 3 Trucking & Paving PO Box 1799 Yulee, FL 32041	Asphalt Paving
3.	Hinson Electric 11609 Columbia Park Dr., W. Jacksonville, FL 32258	Lighting/Signalization
4.	Ferguson Waterworks 9692 Florida Mining Blvd W Jacksonville, FL 32257	Utility Materials
5.	Rinker Materials 4210 US-17, Green Cove Springs, FL 32043	Precast
6.	Downstream Company, Inc 8289 River Road, St. Augustine, FL 32092	Erosion Controll
7.	County Materials 25750 CR561 Astatula, FL 34705	RCP

BIDDER: PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC.

By: _____

Name: Jeffrey Rumer

Title: Executive Vice President

Date: 4/18/24

END OF SECTION

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SECTION 00 43 35

TABULATION OF SUBCONTRACTORS & SUPPLIERS

The undersigned states that the following is a full and complete list of the proposed subcontractors and suppliers on this Project and the class of work to be performed by each, and that such list will not be added to nor altered without written consent to the Owner through the Engineer.

	SUBCONTRACTOR OR SUPPLIER AND ADDRESS	CLASS OF WORK OR MATERIAL
1.	Liberty Landscape 474389 State Rd 200, Fernandina Beach, FL 32034	Landscape and Irrigation
2.	Safety Contractors 5307 Wacissa Ave Jacksonville, FL 32254	Signage and Handrail
3.	Associated Construction Products, Inc 25352 Wesley Chapel Blvd Lutz, FL 33559	Pavers
4.		
5.		
6.		
7.		

BIDDER: PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC.

By: _____

Name: Jeffrey Rumer

Title: Executive Vice President

Date: 4/18/24

END OF SECTION

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SECTION 00 44 55

FLORIDA TRENCH SAFETY ACT CERTIFICATION

Bidder acknowledges that included in the various items of the proposal and in the Total Bid Price are costs for complying with the Florida Trench Safety Act (90-96, Laws of Florida) as modified October 1, 2008. The Bidder further identifies the costs to be summarized below:

	Cost
1. Trench Safety Act Compliance	$ 30,400.00
2. Special Shoring	$ N/A

Identify method of compliance for Item #1: Trench boxes

Identify or attach a copy of Special Shoring requirements for Item #2: N/A

The undersigned certifies that he/she is the Contractor who will perform the trench excavation for this project, and hereby gives written assurance that Contractor will comply with the applicable trench safety standards specifically set forth in Florida's Trench Safety Act, Laws of Florida, 90-96.

BIDDER: PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC.

By: _____

Name: Jeffrey Rumer

Title: Executive Vice President

Sworn to and subscribed before me this 18th day of April, 2024 by means of physical presence or online notarization.

_____
Notary Public

My Commission Expires: 5/3/2026

LORENA KELLER NOTARY PUBLIC MY COMMISSION EXPIRES 5-3-2026 STATE OF FLORIDA COMMISSION NUMBER HH 260842

END OF SECTION

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SECTION 00 45 13

STATEMENT OF BIDDER'S QUALIFICATIONS

To: Nassau County Board of County Commissioners Project: William Burgess Blvd. Extension

Date: April 18, 2024 NC24-010-ITB

The following experience record, as of date shown, shall be submitted to the County with the Bid Form. All questions shall be answered fully. Bidders who have qualified to bid on other projects for this County within the last 12 months need not resubmit this form unless specifically requested by the County. The contents of this form will be considered confidential to the extent allowed by applicable laws and regulations.

Name of Bidder: PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC.

Business Address: 6380 PHILIPS HWY

Street

JACKSONVILLE	FL	32216
City	State	Zip Code

1. Number of years in business as a Contractor under the present:

   Business Name PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC.

   As Principal Contractor 16 yrs. As a Sub-Contractor 16 yrs.

2. Class of work you are equipped to perform: Heavy Civil

3. Class of work you usually sublet: Asphalt

4. Have any members of your concern ever operated under any other business name? NO.
   If so, give details: _____

5. Have you ever failed to qualify as a responsible bidder? NO. If so, give details.

6. Have you ever refused to enter into a contract after the award is made to you? NO.
   If so, give details. _____

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7. Have you ever failed to complete any work? NO. If so, give details:

_____

_____

8. Has any surety or financial institution ever experienced loss on your concern? NO.

If so, give details: _____

_____

9. Give name and address of the County, type of work, and the contract amount of at least three projects completed in the last three years: PLEASE SEE ATTACHED

(1) (2) (3)

Project Owner:_____

Owner Project Manager:_____ Email:

_____ Phone No: _____

_____ _____

Address: _____ City, State, Zip: _____

_____ _____ _____ Type of Work:_____

_____ _____ Contract Amt: $_____

_____$_____$_____

10. Give name and address of the County, type of work, and contract amount of projects now in process of construction: PLEASE SEE ATTACHED

Name Address Type of Work Contract Amount

A._____$_____

B._____$_____

C._____

_____$_____ D._____

_____$_____ E._____

_____$_____

11. Indicate your experience in the construction of work similar to this project (if not demonstrated by Questions 9 and 10, above):

INDICATED ABOVE

_____

_____

_____

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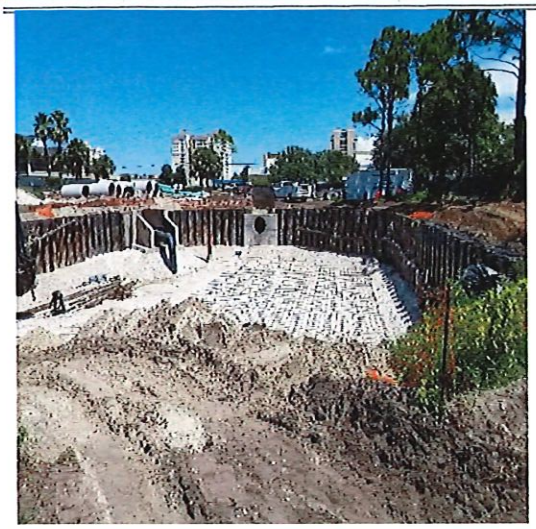
Project Summary Sheet
Pages Dairy Road Widening

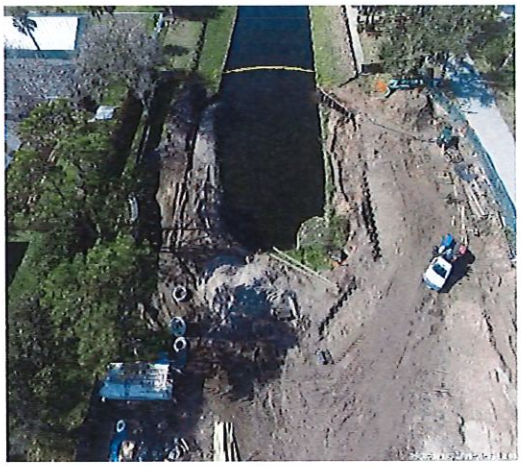
Project Name & Location	Pages Dairy Road Widening Pages Dairy Rd. Yulee, FL
Project Description	Resurfacing & Widening existing lanes. Construction of new 5' paved shoulder Resurfacing of existing asphalt pavement, Constructing roadside swales Constructing cross drain extensions and side drains • Constructing box culvert extension • Asphalt and Concrete Driveway Construction Clearing & Grubbing • Placing performance turf and Sod • Traffic maintenance and protection • Installing Pavement Markings and signage
Owner	Board of County Commissioners Nassau Co, Florida 96135 Nassau Place, Ste. 1 Yulee, FL 32097
Date Started	January 2021
Date to be Completed	April 2022
Contract Price	$3,547,993.30
Design Engineer Information	Connelly & Wicker Inc. 10060 Skinner Lake Dr., #500 Jacksonville, FL 32246 Beth Leaptrott bleaptrott@cwieng.com (904) 265-3030
Client Contact Information	Connelly & Wicker Inc. 10060 Skinner Lake Dr., #500 Jacksonville, FL 32246 Beth Leaptrott bleaptrott@cwieng.com (904) 265-3030
PSCC Executive In Charge	Jeff Rumer
PSCC Project Manager	Chris Hodge
PSCC Superintendent	Nathan Reinhart
PSCC Safety Personnel	Kirk Blomgren

PETTICOAT-SCHMITT
CIVIL CONTRACTORS, INC.

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Project Summary Sheet
City of Jacksonville Beach PH III C Project 2







Project Name & Location	City of Jacksonville Beach PH III C Project 2 Improvements 12th Ave. S. Jacksonville Beach, FL 32250
Project Description	Full roadway reconstruction of several blocks including new water, sewer, drainage, complete roadway reconstruction, stormwater pond construction, concrete cap to steel sheet pile wall, steel sheeting, concrete paving, stormwater pump station upgrades, striping and signage; all done under many phases of construction
Owner	City of Jacksonville Beach
Date Started	March 2018
Date Completed	January 2021
Final Contract Price	$10,502,947.10
Design Engineer Information	GAI Consultants, Inc. 1301 Riverplace Blvd., Suite 900 Jacksonville, FL 32207
Client Contact Information	Dennis Dupries City of Jacksonville Beach 1460 Shetter Ave., 2nd Floor Jacksonville Beach, FL 32250 (904) 509-0268
PSCC Executive In Charge	Jeff Rumer
PSCC Project Manager	Jason Farkis
PSCC Superintendent	Randy Millner
PSCC Safety Personnel	Kirk Blomgren

PETTICOAT-SCHMITT
CIVIL CONTRACTORS, INC.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Project Summary Sheet
Rogero Road Roundabout







Project Name & Location	City of Jacksonville Rogero Road Jacksonville, FL
Project Description	Construction of one (1) roundabout intersection, including but not limited to demolition or removal of existing asphalt pavement, traffic signals, drainage structures and pipes, trees, curb and gutter and concrete sidewalks; conversion of existing inlet tops to structures and pipes, curb and gutter and handicapped ramps, decorative lighting, landscaping and irrigation; installation of road signage, striping, sodding, erosion control and pollution abatement, maintenance of traffic
Owner	City of Jacksonville
Date Started	March 2020
Date Completed	July 2021
Final Contract Price	$1,722,329.78
Design Engineer Information	Waitz & Moye 3738 Southside Blvd #101 Jacksonville, FL 32216 (904) 642-8311 Office (904) 642-8336 Fax
Client Contact Information	Lori A. West *Engineering Contract Manager* City of Jacksonville | Engineering and Construction Management Division 214 N. Hogan Street, 10th Floor Jacksonville, FL 32202 Phone: 904-255-8759 Fax: 904-357-5923
PSCC Executive In Charge	Jeff Rumer
PSCC Project Manager	Jeff Rumer
PSCC Superintendent	Randy Millner
PSCC Safety Personnel	Kirk Blomgren

PETTICOAT-SCHMITT
CIVIL CONTRACTORS, INC.

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

Give full information about all of your contracts, whether prime or subcontracts;
whether in progress or awarded but not yet begun; and regardless of its location and with whom contracted.

1	2	3	4	5	6	7
CLASSES OF WORK	DOT PROJECTS AND LOCATION OF WORK YOU ARE PERFORMING	CONTRACT (OR SUBCONTRACT) AMOUNT	AMOUNT SUBLET TO OTHERS	BALANCE OF CONTRACT AMOUNT	UNCOMPLETED AMOUNT TO BE DONE BY APPLICANT	
					AS PRIME CONTRACTOR	AS SUBCONTRACTOR
6,7,8,10	*N/A*			$0	$0	
4						
			DOT WORK	$0		
				(Col. 5 Subtotal)	$0	$0
CLASSES OF WORK	OTHER (Non-DOT) PROJECTS, OWNER, AND LOCATION OF WORK YOU ARE PERFORMING	CONTRACT (OR SUBCONTRACT) AMOUNT	AMOUNT SUBLET TO OTHERS	BALANCE OF CONTRACT AMOUNT		
6,7,8,10	***Missile Mag Replacement***	131,378,300	78,600	$131,299,700		0
	Desbuild - Duval, FL					
6,7,8,10	***Key Haven Pump Station Rehab***	1,388,700	236,700	$1,152,000	152,300	
4	*JEA - Duval, FL*					
6,7,8,10	***St. Augustine Lakes Phase 1 and Common***	12,060,400	2,092,800	$9,967,600	0	
4	*Lennar Homes, LLC - Duval, FL*					
6,7,8,10	***5th Street W. New Force Main***	9,204,300	1,901,100	$7,303,200	0	
4	*JEA - Duval, FL*					
6,7,8,10	***Robena Road Booster Pump Station***	3,975,900	909,900	$3,066,000	0	
4	*JEA - Duval, FL*					
6,7,8,10	***118th Street Pump Station***	7,673,500	1,934,300	$5,739,200	0	
4	*JEA - Duval, FL*					
6,7,8,10	***Dunn's Crossing Unit 3***	3,594,500	653,100	$2,941,400	0	
4	*Dream Finders Homes - Duval, FL*					
6,7,8,10	***Saratoga Springs Water Treatment Plant***	10,490,500	4,036,700	$6,453,800	10,000	
4	*CCUA - Clay County, FL*					
6,7,8,10	***Monterey - Townsend Pump Station***	4,109,000	771,700	$3,337,300	742,500	
4	*JEA - Duval, FL*					
6,7,8,10	***Jax South Philips Highway Apartments***	10,061,600	1,962,000	$8,099,600	90,800	
4	*Aventon Construction South, LLC - Duval, FL*					
6,7,8,10	***Dunn's Crossing Unit 4***	7,866,300	1,133,500	$6,732,800	80,000	
4	*Dream Finders Homes - Duval, FL*					
6,7,8,10	***Silverleaf Parcel 22 PH 1***	12,285,300	1,703,600	$10,581,700	103,700	
4	*Lennar Homes, LLC - St. Augustine, FL*					
6,7,8,10	***Lakeshore WTP Reservoir Rehab***	7,063,600	3,285,700	$3,777,900	656,400	
4	*JEA - Duval, FL*					
6,7,8,10	***Artea Multifamily***	5,214,000	370,500	$4,843,500	216,900	
4	*Summit Contracting - Jacksonville, FL*					
6,7,8,10	***Primus Cold Storage***	7,444,100	1,138,200	$6,305,900		22,000
4	*Primus Builders - Duval, FL*					
6,7,8,10	***St. Augustine Lakes PH 2A***	1,784,400	220,500	$1,563,900	0	
4	*Lennar Homes, LLC - St. Augustine, FL*					
6,7,8,10	***CR 208 Water Booster PS***	3,239,000	1,283,500	$1,955,500	442,900	
4	*SJCBOCC - St. Johns County, FL*					
6,7,8,10	***Silverleaf Parcel 23C Access***	2,347,700	600,000	$1,747,700	0	
4	*Land Planners Development II, Inc. - St. Augustine, FL*					
6,7,8,10	***MLK Watermain Replacement***	8,623,800	1,392,400	$7,231,400	3,996,900	
4	*JEA - Duval, FL*					
6,7,8,10	***Fleming Island WRF Building***	3,301,200	1,312,500	$1,988,700	961,500	
4	*CCUA - Clay County, FL*					
6,7,8,10	***COJB PH3C Projects 4 & 5 Infrastructure***	24,911,000	4,908,900	$20,002,100	17,652,400	
4	*COJB - Jacksonville Beach, FL*					
6,7,8,10	***Deerwood III WTP - Well 2 Replacement***	1,873,600	747,900	$1,125,700	881,700	
4	*JEA - Duval, FL*					
6,7,8,10	***Lift Station 2 & 3 Improvements***	4,496,300	241,000	$4,255,300	4,255,300	
4	*CCUA - Clay County, FL*					
6,7,8,10	***Silverleaf 22 PH1A & Additional Lots***	6,043,600	509,500	$5,534,100	5,534,100	
4	*Lennar Homes, LLC - St. Augustine, FL*					
6,7,8,10	***T.P. Smith Water Reclamation Centrate Tank***	5,458,000	0	$5,458,000	5,458,000	
4	*City of Tallahassee, FL*					
6,7,8,10	***Silverleaf Parcel 21-22 Pump Station & Gravity Sewer***	1,286,400	265,800	$1,020,600	1,020,600	
4	*Land Planners Development II, Inc. - St. Augustine, FL*					
6,7,8,10	***Silver Falls Phase 3***	5,912,600	639,900	$5,272,700	5,272,700	
4	*Lennar Homes, LLC - St. Augustine, FL*					
			OTHER WORK	$161,469,100		
				(Col. 5 Subtotal)	$47,528,700	$22,000
PLEASE ENTER ATTACHMENT TOTALS ON THIS LINE						
				TOTAL UNCOMPLETED WORK ON HAND TO BE DONE BY YOU	$47,528,700	$22,000
				GRAND TOTAL	$47,550,700	

NOTE: Columns 3 and 4 to show total contract (or subcontract) amounts. Column 5 to be difference between columns 3 and 4. Amount in columns 6 or 7 to be uncompleted portion of amount in column 5. All amounts to be shown to nearest $100.00. The Contractor may consolidate and list as a single item all contracts which individually do not exceed 3% of the total, and which, in the aggregate, amount to less than 20% of the total.

Total of Columns 6 and 7 Must Be Filled In and Must Agree with Related Attachment(s), if furnished.

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12. Give construction experience of principal individuals of your organization:

Name	Position	Years of Experience	Size and Type of Work
A. SEE ATTACHED RESUMES			B.
			C.
			D.
			E.

13. Are there any judgments, suits, or claims pending against you? NO. If so, give details:

14. Does your organization operate as a corporation, partnership, or individual? Corporation

A. If a corporation, when incorporated: October 23, 2007

In which state incorporated: FLORIDA

List name, title, and address of all officers:

Name	Title	Address
(1) Ryan M. Schmitt	Owner	6380 Philips Hwy., Jacksonville, FL
(2) Lauren C. Atwell	President & COO	6380 Philips Hwy., Jacksonville, FL
(3) David Dougherty	CFO	6380 Philips Hwy., Jacksonville, FL
(4) Kirk Blomgren	VP Safety	6380 Philips Hwy., Jacksonville, FL
(5) Jeffrey Rumer	Executive Vice President	6380 Philips Hwy., Jacksonville, FL
(6) Jonathan Belloit	VP of Business Development	6380 Philips Hwy., Jacksonville, FL

B. If a partnership, date of organization: N/A

General, Limited, or Associated? General

List name, address, and proportional interest of parties:

Name	Address	Proportional Interest
(1) NONE		
(2)		
(3)		
(4)		
(5)		

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RYAN SCHMITT, OWNER/CEO

BACKGROUND

100% Owner, Founder and President of Petticoat-Schmitt Civil Contractors, Inc. Ryan has over 32 years experience in the civil contracting industry with the last 27 in senior management. A proven leader in the civil construction industry bringing a consistent track record of corporate and association leadership, his areas of expertise include strategic planning, organizational design, process development and implementation, recruiting and staffing, motivating work force, safety design and implementation, estimating, project management, equipment acquisition and managerial accounting.

EDUCATION

Master's in business administration (M.B.A.), University of North Florida
Bachelor of Construction Technology, University of North Florida
Bachelor of Arts, Criminal Justice, University of Florida

LICENSES HELD

Florida State Certified General Contractor - #CGC057651
Florida State Class V Fire Protection Contractor - #72180800011996

PROFESSIONAL AFFILIATIONS

NUCA National - Past Chairman of the Board
NUCA of FL – Past President
NUCA of N FL – Past President
Seamark Ranch- Past Chairman of the Board
University of North Florida – Dean's Leadership Council
University of North Florida – Construction Management Advisory Board Member
City of Jacksonville – Construction Disputes Review Board Member

AWARDS & RECOGNITION

2012 Recipient of the University of North Florida (UNF) Fabulous Grad "Fab Grad" award.

2010, 2012 Recipient of the NUCA Ditchdigger of the Year Award

2012 Recipient of the National Utility Contractor's Association (NUCA) William H. Feather Overall Award

2009 Recipient of the National Utility Contractor's Association (NUCA) William H. Feather Award for meritorious achievement in construction

2009 Recipient of the NUCA National Community Service Award for volunteer work at Seamark Ranch

2008 Recipient of the Underground Utility Contractors of Florida (UUCF) Mitch Ellington Award for Contractor of the Year

PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC.

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LAUREN ATWELL, PRESIDENT & COO

BACKGROUND

Lauren became President of Petticoat in October 2022. Lauren has an established career that spans over 34 years in heavy construction with a strong emphasis on water and wastewater treatment facilities. In his current position he is responsible for the day-to-day operations of the company and overall management of water and wastewater plant construction operations for Petticoat-Schmitt.

EDUCATION

B.S. Civil & Environmental Engineering
Clarkson University

PROFESSIONAL AFFILIATIONS

NUCA
NUCA of Florida, Former President,
NUCA of North Florida, Former President
GUCA, Former Board of Directors
AWWA
WEF
Society of American Military Engineers (SAME)
University of North Florida Construction Management Advisory Board of Directors.
J. Mitchell Ellington Award
Contractor of the Year - 2010

SELECTED EXPERIENCE

Fourth Creek WWTP Composite Correction Plan
Senior Vice President
Knoxville, TN - $17.5 Million

KCUD Membrane WTP
Senior Vice President
Knoxville, TN - $14.3 Million

Sunset WTP Expansion
Senior Vice President
Guntersville, AL - $8.2 Million

Central Consolidated Pump Stations
Senior Vice President
Baton Rouge, LA - $20.9 Million

Hood Road WTP Membrane Conversion
Senior Vice President
Palm Beach Gardens, FL - $50.0 Million

Arlington East WRF BRN Upgrades
District Manager
Jacksonville, FL - $25.0 Million

Ormond Beach Reverse Osmosis WTP
District Manager
Ormond Beach, FL - $11.0 Million

Lake Worth Reverse Osmosis WTP
District Manager
Lake Worth, FL - $17.0 Million

No Business Creek Pump Station
Project Manager
Snellville, GA - $6.9 Million

Clayton County WRF Upgrade
Project Manager
Clayton County, GA - $56.0 Million

PETTICOAT-SCHMITT
CIVIL CONTRACTORS, INC.

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PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC.

DAVID DOUGHERTY, CHIEF FINANCIAL OFFICER

BACKGROUND

David is the Chief Financial Officer for Petticoat-Schmitt Civil Contractors, Inc. David has over 28 years' experience in Accounting, Finance, and Financial Reporting. The last 20 years his focus has been in the construction industry providing financial leadership. He has been with PSCC for the past 7 years.

EDUCATION

Business Administration in Accounting, University of North Florida

PROFESSIONAL CREDENTIALS

Certified Public Accountant

PROFESSIONAL AFFILIATIONS

Florida Institute of Certified Public Accountants

Construction Financial Management Association

AWARDS & RECOGNITION

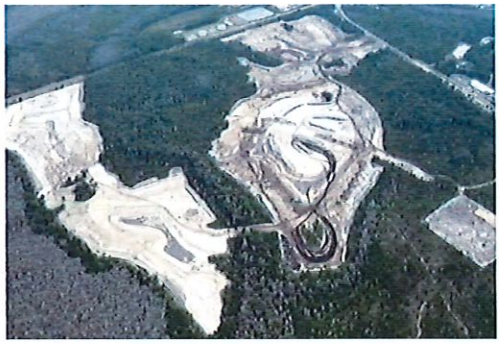
Jacksonville Business Journal's 2018 Ultimate CFO



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KIRK BLOMGREN, VICE PRESIDENT OF SAFETY

BACKGROUND

Kirk came to us from CSX as the Chief Clearance Officer/ Engineer. He has been with Petticoat-Schmitt for four years. He has an operational understanding of the risks and processes relating to maintaining a safe working environment. He is committed to the highest standard of health and safety, and is an expert in ensuring that risk is eliminated or minimized in the workplace. Kirk is responsible for all Field Safety Audits and is highly skilled in team-building, analytics, communication, problem solving and negotiations. He has over 28 years of personal development, teaching, and facilitating skills for diverse employees in the construction industry.

CERTIFICATIONS

Confined Space

Master Trainer CPR and First Aid

OSHA

Competent Person Trenching & Excavation

SELECTED EXPERIENCE

Alta Lakes Phases 3 & 5
Safety Engineer
Jacksonville, FL - $2.8MM

Terrabella Apartments
Safety Engineer
Jacksonville, FL -$2.5MM

Reserve at Eagle Harbor
Safety Engineer
Fleming Island, FL - $2.2MM

Cinemark
Safety Engineer
Jacksonville, FL $2.1MM

PETTICOAT-SCHMITT
CIVIL CONTRACTORS, INC.

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JEFF RUMER, EXECUTIVE VICE PRESIDENT

BACKGROUND

Jeff joined Petticoat-Schmitt as the former President of UIT (Underground Infrastructure Technologies) and Senior Vice President of Harrison Western Construction Corporation based in Colorado. Jeff has more than 20 years of experience within the civil construction and tunnel/ bore industry, with responsibilities including operation, client retention and satisfaction, quality, and safety. As a Vice President of Petticoat-Schmitt, Jeff provides leadership in the areas of public infrastructure construction.

EDUCATION

B.S. in Applied Engineering
University of Michigan

Colorado School of Mines

Colorado State University

PROFESSIONAL AFFILIATIONS

NUCA, National Ditchdigger of the Year 2013
NUCA of Colorado, Founding President
NUCA of Colorado, 2016 National Chairman
811 Legislative Task Force
NUCA Trenchless Technologies, Committee Chair
Louisiana Technical University's Center for Trenchless Technologies

SELECTED EXPERIENCE

FDOT T-2583 I-10
Vice President
Jacksonville, FL - $2.9 Million

SR243 New Pecan Park Rd./I-95 Interchange
Vice President
Jacksonville, FL - $17.4 Million

FDOT E2U39 US1 & A1A
Vice President
St. Augustine, FL - $9.2 Million

Rogero Road Roundabout
Vice President
Jacksonville, FL - $1.3Million

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PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC.

JONATHAN BELLOIT, VICE PRESIDENT OF BUSINESS DEVELOPMENT

BACKGROUND

As a Vice President of PSCC Water Resources with over thirty eight years of construction experience, Mr. Belloit has extensive knowledge in residential, commercial, utility, industrial construction, and land development. Mr. Belloit's broad range of field management skills in heavy industrial construction projects extends to underground piping, pumping stations, water treatment plants and wastewater treatment plants. His wide-ranging background in Construction Management, Design Build and alternate delivery methods includes the implementation and development of partial and final contract documents including front-end documents, legal, contractual, design, and constructibility review and analysis. Mr. Belloit directs the day-to-day operations of Water Resources, implementing plans and policies to achieve overall corporate objectives and maximizing operating results. Mr. Belloit is also actively involved in numerous industry organizations and serves on the Board of Directors for the Association of General Contractors.

EDUCATION

University of North Florida

LICENSES

State of Florida Certified Contractor (CG046120)

State of Georgia Certified Utility Contractor (UC300386)

State of Georgia Utility Manager (UM000550)

CERTIFICATIONS

OSHA

Trench Safety Training

Confined Space

PROFESSIONAL AFFILIATIONS

Board of Directors for the Association of General Contractors of America
National Utilities Contractors Association (NUCA)

SELECTED EXPERIENCE

EASTERN WATER RECLAMATION FACILITY OF DELTONA

Construction Manager
Deltona, FL - $24 million

JACKSONVILLE BEACH WWTP IMPROVEMENTS

Construction Manager
Jacksonville Beach, FL - $19.9 million

ATLANTIC BEACH FLORIDA WWTP TMDL

Construction Manager
Atlantic Beach, FL $5 million

SARATOGA SPRINGS WTP

Executive in Charge
Green Cove Springs, FL $13 million



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15. If requested prior to award of contract, provide to the County an accurate, up-to-date, condensed financial statement on a separate sheet attached to these qualifications of the individual, co-partnership, or corporation.

The undersigned hereby declares and certifies that the foregoing is a true statement of the experience and condition of the organization, therein first given and that any agency or individual herein named authorized to supply any information as may be deemed necessary to verify this statement.

Signed _____

Title Executive Vice President

State of FLORIDA

County of DUVAL

Subscribed and sworn to before me this 18th day of April, 2024.

via X physical presence or __ online notarization.

_____

Notary Public

My Commission expires: 5/3/2026

END OF SECTION

LORENA KELLER NOTARY PUBLIC MY COMMISSION EXPIRES 5-3-2026 STATE OF FLORIDA COMMISSION NUMBER HH 260842

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SECTION 00 45 19

NON-COLLUSION AFFIDAVIT

TO: The Nassau County Board of County Commissioners, herein called the "County."

Pursuant to bidding requirements for the work titled " William Burgess Blvd. Extension ",

the enclosed contract documents shall be provided to the County.

State of FLORIDA

County of DUVAL

Jeffrey Rumer, being first duly sworn, deposes, and says that:

A. He is Executive Vice President (officer's title) of Petticoat-Schmitt Civil Contractors, Inc. (company name), the Bidder that has submitted the attached bid;

B. He is fully informed respecting the preparation and contents of the attached bid and of all pertinent circumstances respecting such bid;

C. Such bid is genuine and is not a collusive or sham bid;

D. Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affiant, has in any way colluded, conspired, connived, or agreed, directly or indirectly with any other Bidder, firm, or person to submit a collusive or sham bid in connection with the contract for which the attached bid has been submitted or to refrain from bidding in connection with such contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm, or person to fix the price or prices in the attached bid or of any other Bidder, or to fix any overhead, profit, or cost element of the bid price or the bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against the Board of County Commissioners Nassau County or any person interested in the proposed contract; and

E. The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the

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part of the Bidder or any of its agents, representatives, owners: employees, or parties in interest, including this affiant.

(Signed) _____

Jeffrey Rumer, Executive Vice President

Subscribed and sworn to before me via physical presence or
__ online notarization on this 18th day of April, 2024.

_____
Notary Public

5/3/2026
My commission expires

LORENA KELLER NOTARY PUBLIC MY COMMISSION EXPIRES 5-3-2026 STATE OF FLORIDA COMMISSION NUMBER HH 260842

END OF SECTION

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

SECTION 00 45 20

DRUG FREE WORKPLACE CERTIFICATE

I, the undersigned, in accordance with Florida Statute 287.087, hereby certify that _____

Petticoat-Schmitt Civil Contractors, Inc. (print or type name of firm)

- Publishes a written statement notifying that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance in the workplace named above and specifying actions that will be taken against violations of such prohibition.

- Informs employees about the dangers of drug abuse in the workplace, the firm's policy of maintaining a drug free working environment, and available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug use violations.

- Gives each employee engaged in providing commodities or contractual services that are under bid or proposal, a copy of the statement specified above.

- Notifies the employees that as a condition of working on the commodities or contractual services that are under bid or proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, plea of guilty or nolo contendere to, any violation of Chapter 1893, or any controlled substance law of the State of Florida or the United States, for a violation occurring in the work place, no later than five (5) days after such conviction, and requires employees to sign copies of such written statement to acknowledge their receipt.

- Imposes a sanction on, or requires the satisfactory participation in, a drug abuse assistance or rehabilitation program, if such is available in the employee's community, by any employee who is so convicted.

- Makes a good faith effort to continue to maintain a drug free workplace through the implementation of a drug free work place program.

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"As a person authorized to sign a statement, I certify that the above-named business, firm, or corporation complies fully with the requirements set forth herein."

Authorized Signature

4/18/24

Date Signed

State of: FLORIDA

County of: DUVAL

Sworn to and subscribed before me this 18TH day of April, 20 24 via X physical presence or online notarization and who is personally known or produced _____ as identification.

Notary Public

5/3/2026

My commission expires

LORENA KELLER NOTARY PUBLIC MY COMMISSION EXPIRES 5-3-2026 STATE OF FLORIDA COMMISSION NUMBER HH 260842

END OF SECTION

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SECTION 00 45 30

SWORN STATEMENT UNDER SECTION 287.133(3)(a), FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

(To be signed in the presence of a notary public or other officer authorized to administer oaths.)

STATE OF FLORIDA
COUNTY OF DUVAL

Before me, the undersigned authority, personally appeared Jeffrey Rumer, who being by me first duly sworn, made the following statement:

1. The business address of PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC. (firm name of Bidder/Contractor) is 6380 PHILIPS HWY., JACKSONVILLE, FL 32216

2. My relationship to PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC. (firm name of Bidder/Contractor) is EXECUTIVE VICE PRESIDENT (relationship such as sole proprietor, partner, president, vice president)

3. I understand that a public entity crime as defined in Section 287.133 of the Florida Statutes includes a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity in Florida or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or such an agency or political subdivision and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

4. I understand that "convicted" or "conviction" is defined by the statute to mean a finding of guilt or a conviction of a public entity crime, with or without adjudication or guilt, in any federal or state trial of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

5. I understand that "affiliate" is defined by the statute to mean (1) a predecessor or successor of a person or a corporation convicted of a public entity crime; or (2) an entity under control of any natural person with is active in management of the entity and who has been

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convicted of a public entity crime; (3) those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate; or (4) a person or corporation who knowingly entered into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months.

6. Neither the Bidder/Contractor nor any officer, director, executive, partner, shareholder, employee, member or agent who is active in the management of the Bidder/Contractor, nor any affiliate of the Bidder/Contractor, has been convicted of a public entity crime subsequent to July 1, 1989.

(Draw a line through Paragraph 6 if Paragraph 7 below applies.)

7. ~~There has been a conviction of a public entity crime by Bidder/Contractor, or an officer, director, executive, partner, shareholder, employee, member or agent of the Bidder/Contractor who is active in the management of the Bidder/Contractor or an affiliate of the Bidder/Contractor. A determination has been made pursuant to 287.133(3) by order of the Division of Administrative Hearings that it is not in the public interest of the name of the convicted person or affiliate to appear on the convicted vendor list.~~

The name of the convicted person or affiliate is N/A.

A copy of the order of the Division of Administrative Hearings is attached to this statement.

(Draw a line through Paragraph 7 if Paragraph 6 above applies.)

(Signature)

Sworn to and subscribed before me in the State and County first mentioned above on the 18th day of April, 20 24 via physical presence or online notarization.

Notary Public

5/3/2026
My commission expires

LORENA KELLER NOTARY PUBLIC MY COMMISSION EXPIRES 5-3-2026 STATE OF FLORIDA COMMISSION NUMBER HH 260842

(affix seal)

END OF SECTION

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SECTION 00 45 35

BIDDER'S STATEMENT OF DISPUTES, LITIGATION, ARBITRATION, AND SURETY COMPLETION, LAST THREE (3) YEARS

Project	Name and Address of Owner or Engineer	Name and Phone of Owner or Engineer Representative	Date of Contract	Amount	Status
NONE					

(Signed)_____

Print Name Jeffrey Rumer, Executive Vice President

Subscribed and sworn to before me via physical presence or __ online notarization on this 18th day of April, 2024.

LORENA KELLER NOTARY PUBLIC MY COMMISSION EXPIRES 5-3-2026 STATE OF FLORIDA COMMISSION NUMBER HH 260842

Notary Public

Lorena Keller

My commission expires: 5/3/2026

END OF SECTION

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Florida Department of Transportation

RON DESANTIS
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

JARED W. PERDUE, P.E.
SECRETARY

April 12,2023

PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC.
6380 PHILIPS HIGHWAY
JACKSONVILLE, FLORIDA 32216

RE: CERTIFICATE OF QUALIFICATION

The Department of Transportation has qualified your company for the type of work indicated below.

FDOT APPROVED WORK CLASSES:
DRAINAGE, FLEXIBLE PAVING, GRADING, GRASSING, SEEDING AND SODDING, MINOR BRIDGES, SIDEWALK, Sheet Piling, Underground Utilities (Water & Sewer).

Unless notified otherwise, this Certificate of Qualification will expire **6/30/2024.**

In accordance with Section 337.14(4), Florida Statutes, changes to Ability Factor or Maximum Capacity Rating will not take effect until after the expiration of the current certificate of prequalification (if applicable).

In accordance with Section 337.14(1), Florida Statutes, an application for qualification must be filed within (4) months of the ending date of the applicant's audited annual financial statements.

If the company's maximum capacity has been revised, it may be accessed by logging into the Contractor Prequalification Application System via the following link:
HTTPS://fdotwp1.dot.state.fl.us/ContractorPreQualification

Once logged in, select "View" for the most recently approved application, and then click the "Manage" and "Application Summary" tabs.

The company may apply for a Revised Certificate of Qualification at any time prior to the expiration date of this certificate according to Section 14-22.0041(3), Florida Administrative Code (F.A.C.), by accessing the most recently approved application as shown above and choosing "Update" instead of "View." If certification in additional classes of work is desired, documentation is needed to show that the company has performed such work.

All prequalified contractors are required by Section 14-22.006(3), F.A.C., to certify their work underway monthly in order to adjust maximum bidding capacity to available bidding capacity. You can find the link to this report at the website shown above.

Sincerely,

James E. Taylor II

James E. Taylor II, Prequalification Supervisor
Contracts Administration Office

JTII:cg

Ron DeSantis, Governor

Melanie S. Griffin, Secretary

Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD

THE GENERAL CONTRACTOR HEREIN IS CERTIFIED UNDER THE
PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

SCHMITT, RYAN MATTHEW

PETTICOAT-SCHMITT CIVIL CONTRACTORS INC
6380 PHILIPS HWY
JACKSONVILLE FL 32216

LICENSE NUMBER: CGC057651

EXPIRATION DATE: AUGUST 31, 2024

Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.

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Ron DeSantis, Governor

Melanie S. Griffin, Secretary

Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD

THE UNDERGROUND UTILITY & EXCAVATION CO HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

TOFFERI, CHARLES DAVID

PETTICOAT SCHMITT CIVIL CONTRACTORS, INC
164 PRINCE ALBERT AVENUE
ST. JOHNS FL 32259

LICENSE NUMBER: CUC1226048

EXPIRATION DATE: AUGUST 31, 2024

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Unanimous Action of the Board of Directors of
Petticoat-Schmitt Civil Contractors, Inc.
Taken without a meeting by written consent

The following action is taken by the sole Director of PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC. a Florida Corporation, by written consent without a meeting, as of October 17, 2016, pursuant to Section of the 607.134 of the General Corporation Act of the State of Florida permitting such action to be taken.

RESOLVED, that Jeffery M. Rumer be and hereby is named Vice President of the Corporation, to serve until his successor shall be duly qualified and elected, and can sign legal documents on behalf of Petticoat-Schmitt Civil Contractors, Inc.

The undersigned, being the sole Director of PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC. does hereby consent to the foregoing action as of the date first above written.

Ryan Schmitt – President

Notarized by:

Notary Public State of Florida
Jodi Marie Marson
My Commission GG 335461
Expires 08/01/2023

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Unanimous Action of the Board of Directors of
Petticoat-Schmitt Civil Contractors, Inc.
Taken without a meeting by written consent

The following action is taken by the sole Director of PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC. a Florida Corporation, by written consent without a meeting, as of September 16, 2014, pursuant to Section of the 607.134 of the General Corporation Act of the State of Florida permitting such action to be taken.

RESOLVED, that Lauren C. Atwell be and hereby is named Vice President of the Corporation, to serve until his successor shall be duly qualified and elected, and can sign legal documents on behalf of Petticoat-Schmitt Civil Contractors, Inc.

The undersigned, being the sole Director of PETTICOAT-SCHMITT CIVIL CONTRACTORS, INC. does hereby consent to the foregoing action as of the date first above written.

Ryan Schmitt – President

Notarized by:

Kimberly S Bryan

KIMBERLY S. BRYAN
MY COMMISSION EXPIRES
January 29, 2018
#FF 058706
Bonded thru
Troy Fain - Insurance
NOTARY PUBLIC, STATE OF FLORIDA

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Inst: 202445005106 Date: 02/26/2024 Time: 2:09PM
Page 1 of 7 B: 2696 P: 263, Doc Type: EAS
John A. Crawford, Clerk of Court, Nassau County,
By: RG, Deputy Clerk

This instrument prepared by and return to:
Brian Dawes
Edwards Cohen
200 W. Forsyth St., Suite 1300
Jacksonville, FL 32202

CM3603

RE Parcel #: 42-2N-27-0000-0001-0120

DRAWDOWN EASEMENT AGREEMENT

This DRAWDOWN EASEMENT AGREEMENT ("Agreement") is made effective this 12th day of February, 2024, by and between **JEA**, a body politic and corporate, whose mailing address is 225 North Pearl Street, Jacksonville, Florida 32202 (the "Grantor"), and **NASSAU COUNTY, FLORIDA**, a political subdivision of the State of Florida, having an address of 96135 Nassau Place, Suite 1, Yulee, Florida 32097 (the "Grantee") (collectively, the "Parties").

WITNESSETH:

WHEREAS, Grantor is the owner of that certain tract of land described in Exhibit "A" attached hereto and incorporated herein (the "Drawdown Property"); and

WHEREAS, the Parties desire to create a drawdown easement to address impacts to a wetland on the Drawdown Property associated with Grantee's construction and operation of the stormwater management system authorized by St. Johns River Water Management District permit no. IND-089-118853-6 that will lower the water table on Grantor's land.

NOW, THEREFORE, for and in consideration of the sum of Ten and No/100 ($10.00) Dollars and other good and valuable consideration, the receipt and sufficiency are hereby acknowledged, the Parties hereby agree as follows:

1. Grantor hereby bargains, sells, grants, and conveys to Grantee, and its successors and assigns, for the benefit of and as an appurtenance to the Pond Property, a perpetual, non-exclusive right, privilege and easement upon, over, under, and across the Drawdown Property to drawdown the existing water table on Grantor's land.

2. This Drawdown Easement Agreement and the easements, restrictions, rights, obligations, and liabilities created hereby, shall be perpetual, shall be appurtenant to and run with title to the land affected hereby, and shall be binding upon and inure to the benefit of the parties hereto and the respective heirs, successors and assigns, including, but without limitation, all subsequent owners of the property described herein and all persons claiming under them.

3. No modification or alteration shall be made to this Agreement without the prior written approval of the St. Johns River Water Management District.

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4. Grantee shall not install any permanent improvements within the Drawdown Property without the prior written consent of the Grantor. Grantor reserves the right to use, landscape, and make other improvements to the Drawdown Property (and to maintain, replace, and repair the same), provided that Grantor's use of the Drawdown Property shall not unreasonably interfere with the Grantee's drawdown rights under this Agreement and Grantor obtains and complies with any necessary permits from the St. Johns River Water Management District and any other required federal, state, and local authorization, law, rule, or ordinance.

5. The Grantee agrees to comply with all applicable laws, rules, regulations, permits and approvals, with respect to its use of the Drawdown Property.

6. To the extent provided by law, Grantee shall indemnify, defend, and hold harmless the Grantor against any actions, claims, or damages arising out of, relating to, or resulting from the negligent or wrongful act(s) of Grantee, or any of its officers, agents, or employees, acting within the scope of the office or employment, in connection with the rights granted to or exercised by Grantee pursuant to this Agreement, to the extent and within the limitations of Section 768.28, Florida Statutes. The foregoing indemnification shall not constitute a waiver of the Grantee's or Grantor's sovereign immunity beyond the limits set forth in Section 768.28, Florida Statutes, nor shall the same be construed to constitute agreement by Grantee to indemnify Grantor for the negligent acts or omissions of the Grantor, its officers, agents, or employees, or for the acts of third parties.

7. Whenever possible, each provision of this Agreement shall be interpreted in such manner as to be effective and valid, but if any provision or the application thereof to any person or any property shall be prohibited or held invalid, such prohibition or invalidity shall not affect any other provision which can be given effect without the invalid provision or application, and to this end the provisions of this Agreement are declared to be severable.

8. All notices, requests, consents and other communications hereunder shall be in writing and shall be delivered, mailed by First Class Mail, postage prepaid, or overnight delivery service (e.g., Federal Express or UPS), to the other party, at the address set forth in the first paragraph of this Agreement, or such other address as the Parties may specify by notice to the other party from time-to-time.

9. This Agreement may be modified by all Parties hereto or the successor owner(s) of Drawdown Property, and with the consent of the St. Johns River Water Management District pursuant to Section 3 above.

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IN WITNESS WHEREOF, this Drawdown Easement Agreement is made this _____ day of _____, 202___.

WITNESSES:

Print: DINA Alexander

Witness #1 Address:

JEA
225 N. Pearl St.
Jacksonville, FL 32202

Print: Desiree Lorenzo

Witness #2 Address:

200 W. Forsyth St. Suite 1300
Jacksonville, FL 32202

GRANTOR:
JEA, a body politic and corporate

By:
Print: Michael Corbitt
Its: Director, Real Estate Services

STATE OF FLORIDA
COUNTY OF DUVAL

The foregoing instrument was acknowledged before me by means of [✓] physical presence or [ ] online notarization, on January 22, 2024, by Michael Corbitt, as the Director, Real Estate Services of JEA, a body politic and corporate, on behalf of the JEA. He [✓] is personally known to me or [ ] has produced _____ as identification.

Notary Public, State of Florida

(seal)

DINA KRISTINE ALEXANDER
Notary Public - State of Florida
Commission # HH 303239
My Comm. Expires Nov 18, 2026
Bonded through National Notary Assn.

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WITNESSES:

Print: Heather Nazworth

Witness #1 Address:
76347 Veterans Way
Yulee, FL 32097

Print: Melissa Lucey

Witness #2 Address:
76347 Veterans Way
Yulee, FL 32097

GRANTEE:
NASSAU COUNTY, FLORIDA,
a political subdivision of the State of Florida

By:
Print: John F. Martin
Its: Chairman

STATE OF FLORIDA
COUNTY OF NASSAU

The foregoing instrument was acknowledged before me by means of [X] physical presence or [ ] online notarization, on February 12, _____, 2024, by John F. Martin, as the Chairman of NASSAU COUNTY, FLORIDA, a political subdivision of the State of Florida. He/She [X] is personally known to me or [ ] has produced _____ as identification.

(SEAL)

HEATHER NAZWORTH
Notary Public, State of Florida
My Comm. Expires December 28, 2025
Commission No. HH 212240

Notary Public, State of Florida
Commission No: HH212240
exp. December 25, 2025

Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

EXHIBIT "A"

Legal Description of the Drawdown Property

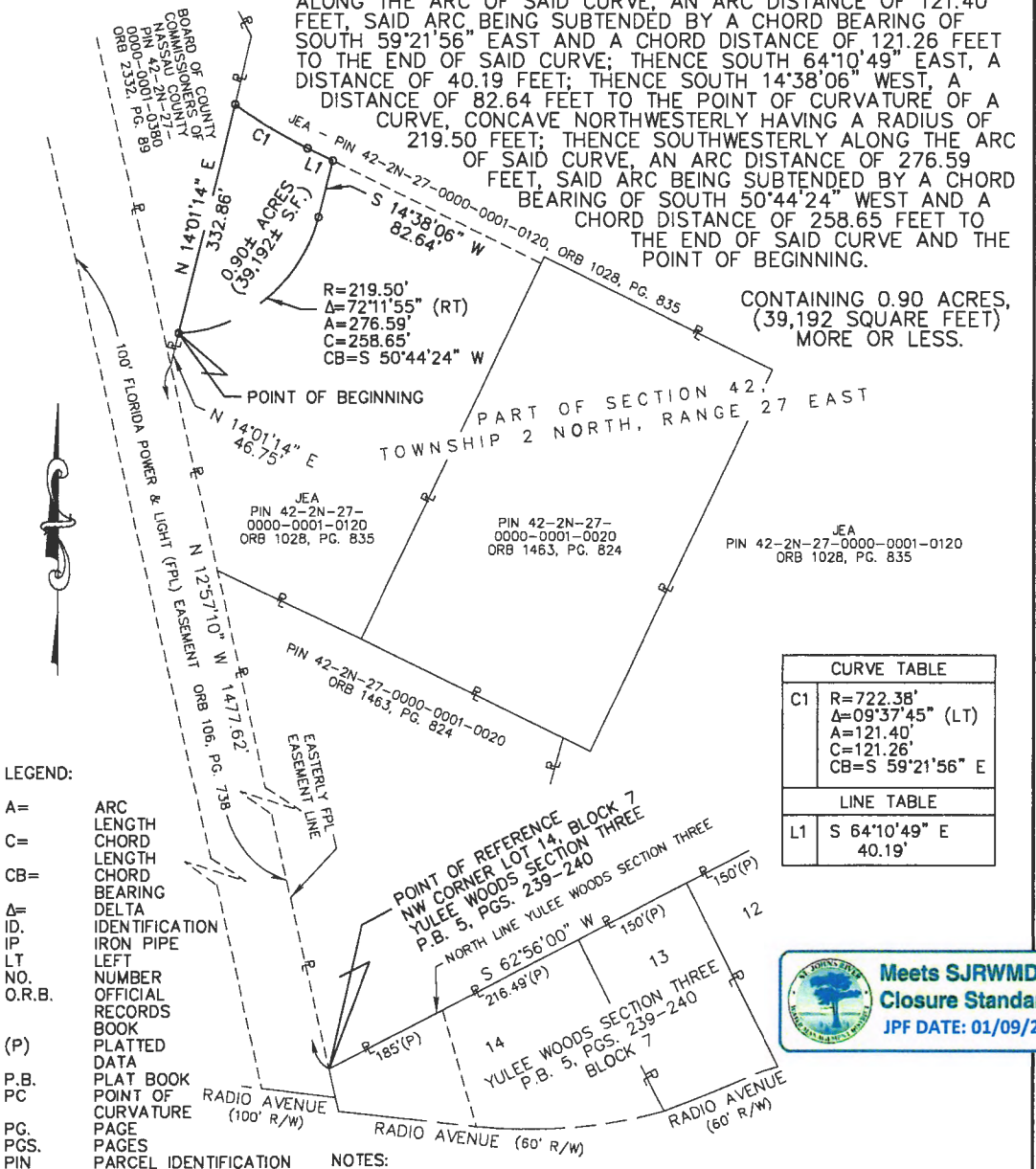
Docusign Envelope ID: 96ACA4E0-99E0-4A7A-B645-02383DC5A8D1

MAP OF: WETLAND DRAWDOWN EASEMENT 1

A PART OF SECTION 42, TOWNSHIP 2 NORTH, RANGE 27 EAST, NASSAU COUNTY, FLORIDA, ALSO BEING A PART OF THOSE LANDS AS DESCRIBED IN OFFICIAL RECORDS BOOK 1028, PAGE 835, OF THE PUBLIC RECORDS OF NASSAU COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FOR A POINT OF REFERENCE, COMMENCE AT THE NORTHWEST CORNER OF LOT 14, BLOCK 7, YULEE WOODS SECTION THREE, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 5, PAGES 239 AND 240 OF THE PUBLIC RECORDS OF NASSAU COUNTY, FLORIDA, SAID POINT ALSO LYING ON THE EASTERLY LINE OF A FLORIDA POWER AND LIGHT EASEMENT, AS RECORDED IN OFFICIAL RECORDS BOOK 106, PAGE 738, OF SAID PUBLIC RECORDS; THENCE NORTH 12°57'10" WEST, ALONG SAID EASTERLY EASEMENT LINE, A DISTANCE OF 1477.62 FEET; THENCE NORTH 14°01'14" EAST, LEAVING SAID EASTERLY EASEMENT LINE, A DISTANCE OF 46.75 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE NORTH 14°01'14" EAST, A DISTANCE OF 332.86 FEET, SAID POINT LYING ON A CURVE, CONCAVE NORTHERLY HAVING A RADIUS 722.38 FEET; THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 121.40 FEET, SAID ARC BEING SUBTENDED BY A CHORD BEARING OF SOUTH 59°21'56" EAST AND A CHORD DISTANCE OF 121.26 FEET TO THE END OF SAID CURVE; THENCE SOUTH 64°10'49" EAST, A DISTANCE OF 40.19 FEET; THENCE SOUTH 14°38'06" WEST, A DISTANCE OF 82.64 FEET TO THE POINT OF CURVATURE OF A CURVE, CONCAVE NORTHWESTERLY HAVING A RADIUS OF 219.50 FEET; THENCE SOUTHWESTERLY ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 276.59 FEET, SAID ARC BEING SUBTENDED BY A CHORD BEARING OF SOUTH 50°44'24" WEST AND A CHORD DISTANCE OF 258.65 FEET TO THE END OF SAID CURVE AND THE POINT OF BEGINNING.

CONTAINING 0.90 ACRES, (39,192 SQUARE FEET) MORE OR LESS.



CURVE TABLE	
C1	R=722.38' Δ=09°37'45" (LT) A=121.40' C=121.26' CB=S 59°21'56" E
LINE TABLE	
L1	S 64°10'49" E 40.19'

LEGEND:

A=	ARC LENGTH
C=	CHORD LENGTH
CB=	CHORD BEARING
Δ=	DELTA
ID.	IDENTIFICATION
IP	IRON PIPE
LT	LEFT
NO.	NUMBER
O.R.B.	OFFICIAL RECORDS BOOK
(P)	PLATTED DATA
P.B.	PLAT BOOK
PC	POINT OF CURVATURE
PG.	PAGE
PGS.	PAGES
PIN	PARCEL IDENTIFICATION NUMBER
℄	PROPERTY LINE
PT	POINT OF TANGENT
R=	RADIUS
RT	RIGHT
R/W	RIGHT-OF-WAY
S.F.	SQUARE FEET

NOTES:
1. BEARINGS SHOWN HEREON ARE BASED ON STATE PLANE COORDINATE SYSTEM EAST ZONE (83/11). REFERENCE BEARING BEING SOUTH 62°56'00" WEST ON THE NORTH LINE OF YULEE WOODS SECTION THREE, AS RECORDED IN PLAT BOOK 5, PAGES 239 AND 240, PUBLIC RECORDS NASSAU COUNTY, FLORIDA.
2. THIS IS A MAP ONLY AND DOES NOT PURPORT TO BE A BOUNDARY SURVEY.

Meets SJRWMD Closure Standards
JPF DATE: 01/09/2024

THIS IS A MAP ONLY AND DOES NOT PURPORT TO BE A SURVEY

gai consultants
12574 Flagler Center Blvd. Suite 202
Jacksonville, Florida 32258
904-363-1110
904-363-1115
www.gaiconsultants.com
CERT. NO. LB 3604
• ENGINEERING • PLANNING • SURVEYING • CEI SERVICES •

REVISION: SCALE 1" = 200'
1. INCREASE LEGAL FONT SIZE 01/05/24

JOB NO. B190839 DATE JULY 18, 2023

I HEREBY CERTIFY THAT THIS MAP MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF SURVEYORS AND MAPPERS PURSUANT TO CHAPTER 472.027 OF THE FLORIDA STATUTES AND 61-17 OF THE FLORIDA ADMINISTRATIVE CODE.

JOSEPH K. LEK FLA. P.S.M. CERT. NO. LS 6016

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER

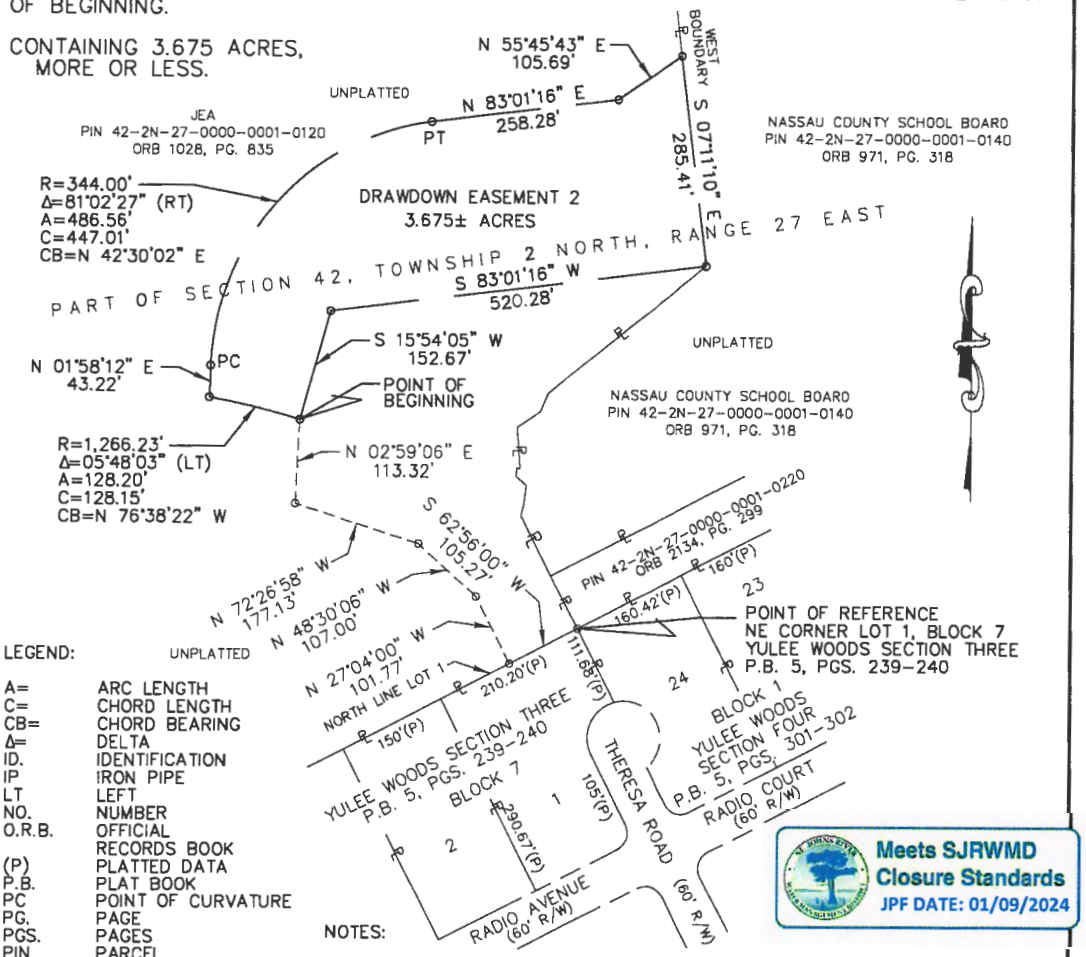
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MAP OF: WETLAND DRAWDOWN EASEMENT 2

A PART OF SECTION 42, TOWNSHIP 2 NORTH, RANGE 27 EAST, NASSAU COUNTY, FLORIDA, ALSO BEING A PART OF THOSE LANDS AS DESCRIBED IN OFFICIAL RECORDS BOOK 1028, PAGE 835, OF THE PUBLIC RECORDS OF NASSAU COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FOR A POINT OF REFERENCE, COMMENCE AT THE NORTHEAST CORNER OF LOT 1, BLOCK 7, YULEE WOODS SECTION THREE, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 5, PAGES 239 AND 240 OF THE PUBLIC RECORDS OF NASSAU COUNTY, FLORIDA; THENCE SOUTH 62°56'00" WEST, ALONG THE NORTH LINE OF SAID LOT 1, BLOCK 7, A DISTANCE OF 105.27 FEET; THENCE NORTH 27°04'00" WEST, LEAVING SAID NORTH LINE, A DISTANCE OF 101.77 FEET; THENCE NORTH 48°30'06" WEST, A DISTANCE OF 107.00 FEET; THENCE NORTH 72°26'58" WEST, A DISTANCE OF 177.13 FEET; THENCE NORTH 02°59'06" EAST, A DISTANCE OF 113.32 FEET TO THE POINT OF BEGINNING, SAID POINT BEING A POINT ON A CURVE, CONCAVE SOUTHERLY HAVING A RADIUS 1266.23 FEET; THENCE NORTHWESTERLY ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 128.20 FEET, SAID ARC BEING SUBTENDED BY A CHORD BEARING OF NORTH 76°38'22" WEST AND A CHORD DISTANCE OF 128.15 FEET TO A POINT ON SAID CURVE; THENCE NORTH 01°58'12" EAST, A DISTANCE OF 43.22 FEET TO THE POINT OF CURVATURE OF A CURVE; CONCAVE SOUTHEASTERLY HAVING A RADIUS OF 344.00 FEET; THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE, AN ARC DISTANCE OF 486.56 FEET, SAID ARC BEING SUBTENDED BY A CHORD BEARING OF NORTH 42°30'02" EAST AND A CHORD DISTANCE OF 477.01 FEET TO THE POINT OF TANGENCY OF SAID CURVE; THENCE NORTH 83°01'16" EAST, A DISTANCE OF 258.28 FEET; THENCE NORTH 55°45'43" EAST, A DISTANCE OF 105.69 FEET TO A POINT ON THE WESTERLY BOUNDARY OF THOSE LANDS AS DESCRIBED IN OFFICIAL RECORDS BOOK 971, PAGE 318 OF SAID PUBLIC RECORDS OF NASSAU COUNTY, FLORIDA; THENCE SOUTH 07°11'10" EAST, ALONG SAID WESTERLY BOUNDARY LINE, A DISTANCE OF 285.41 FEET; THENCE SOUTH 83°01'16" WEST, LEAVING SAID WESTERLY BOUNDARY LINE, A DISTANCE OF 520.28 FEET; THENCE SOUTH 15°54'05" WEST, A DISTANCE OF 152.67 FEET TO THE POINT OF BEGINNING.

CONTAINING 3.675 ACRES, MORE OR LESS.



LEGEND:

A=	ARC LENGTH
C=	CHORD LENGTH
CB=	CHORD BEARING
Δ=	DELTA
ID.	IDENTIFICATION
IP	IRON PIPE
LT	LEFT
NO.	NUMBER
O.R.B.	OFFICIAL RECORDS BOOK
(P)	PLATTED DATA
P.B.	PLAT BOOK
PC	POINT OF CURVATURE
PG.	PAGE
PGS.	PAGES
PIN	PARCEL IDENTIFICATION NUMBER
P	PROPERTY LINE
PT	POINT OF TANGENT
R=	RADIUS
RT	RIGHT
R/W	RIGHT-OF-WAY
S.F.	SQUARE FEET

NOTES:

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REVISION: SCALE 1" = 200'
1. INCREASE LEGAL FONT SIZE 01/05/24

JOB NO. B190839 DATE JULY 18, 2023

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JOSEPH K. LEK FLA. P.S.M. CERT. NO. LS 6016

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